Fire & Safety

Integrated systems for fire detection and building control

inim®
Evolving Protection

Index

2006

We break into the market with the **SmartLoop control panel**, cutting-edge technology such as architecture and distributed intelligence.

2015

At a distance of 10 years we are once again revolutionizing the market.

Previdia Max is the first in the market sector to use LCD screens and introduce concepts such as video verification, on-screen graphic maps and modular architecture.

LCD

New production plant of over 13,000 m^2

2007

The introduced technologies are condensed in a compact control panel, to give birth to the **SmartLight**

The **SmartLine** is delivered, a conventional control panel which in terms of value for money and flexibility still remains unbeaten and unbeatable in the sector.

2010

The addition of **Enea and Iris** detectors to our product park, which for the first time introduce the concepts of VERSA++ and OpenLoop into the fire-fighting market.

2018

Previdia Compact: all the power of Previdia Max is condensed and made compact in the flexible and agile Previdia Compact.

The security of having Inim

A history of over 15 years dedicated to protection

A 100% Italian company in continuous evolution, since 2005 we have established ourselves on the world market of fire detection with products that, thanks to quality, technologies and extensive lineup, are unrivaled on the market.

The commitment of our R&D departments to the development of new solutions along with investments in highly automated production lines have propelled us towards a cutting-edge park of products.

Today we boast the unequalled ability to fulfill sector needs with products that are unique on the market for their ease of installation, use and maintenance.

Discover more

2022

The ultimate revolution.
Previdia UltraVox: the only system in the European panorama that perfectly integrates fire detection and voice evacuation with endless possibilities.

2023

Previdia Micro: the new control panel that introduces **to conventional detection** all the functions of the Previdia Compact: Graphic display, Cloud, Management via App, Videoverification, etc.

Implementation of a robotic line for detector production

2019

Inim Fire Cloud: the revolutionary concept of the Cloud applied to fire detection systems introduces a new standard for the remote monitoring, management and maintenance of fire systems.

Inim Fire App: all the power of Inim Fire Cloud comes to your fingertips on smartphones, a new record set by Inim.

2023

FA100
New aspirating smoke detector, based on innovative dual-light technology.

Globally renowned

Products guaranteed by every certification body

Our continuous commitment to the innovation of the fire detection sector and investments over the years, aimed at developing ever new technologies, allow us today to boast national and international certifications.

The certifications that we hold are not only a testimony of product validity, but also of the success achieved by our products on a global level.

CERTIFIED ISO

CERTIFIED BSI

CERTIFIED LPCB

CERTIFIED UL-EU

CERTIFIED IMQ

CERTIFIED DBI

CERTIFIED CE

CERTIFIED BOSEC

CERTIFIED FG NORWAY

CERTIFIED UAE DUBAI

CERTIFIED CNBOP

CERTIFIED UKR SEPRO UCRAINA

CERTIFIED NYCE COLOMBIA

CERTIFIED BOMBA MALAYSIA

CERTIFIED IQC ARGENTINA

We sit at the table of the big

We take part in technical round tables to define new regulations for the sector.

Thanks to in-depth sector expertise and the advanced technologies which constantly revolutionize the national and international market, we have the privilege of sitting at numerous technical round tables inside regulatory bodies and trade associations.

A constant commitment that allows us to actively participate in the development of the reference legislation by making available our expertise and professionalism.

Production process subjected to certification

Over 200,000 components per hour

Highly automated production line

Testing and calibration of 100% of production

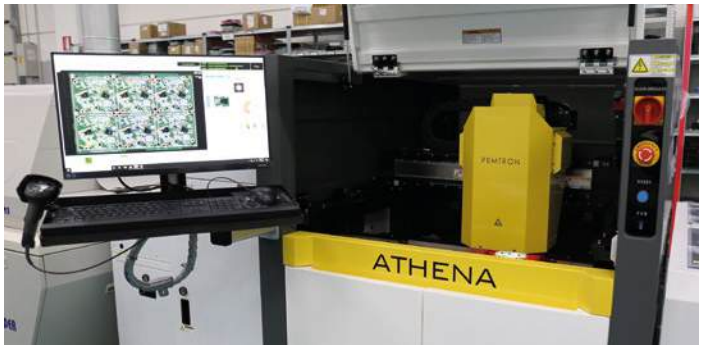
1 on 10 thousand

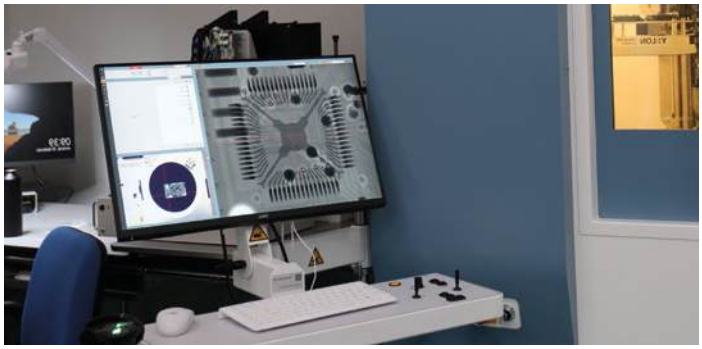
One piece in 10 thousand rejected per day

Every board we produce is subjected to in-circuit testing by means of sophisticated automated lines.

During the process the parameters of each individual component are measured, the continuity and shorts of each trace are checked, the software embedded in the microcontrollers on the boards is transferred and an automatic functional test is performed which verifies each function of the product.

Every single step is recorded in the production database on which statistical checks are carried out capable of predicting any qualitative drifts.





Made in Italy
Made in Inim

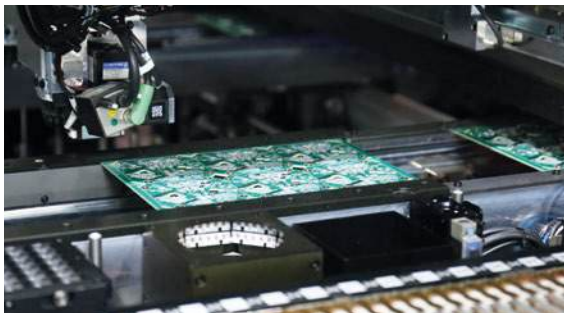
Watch video

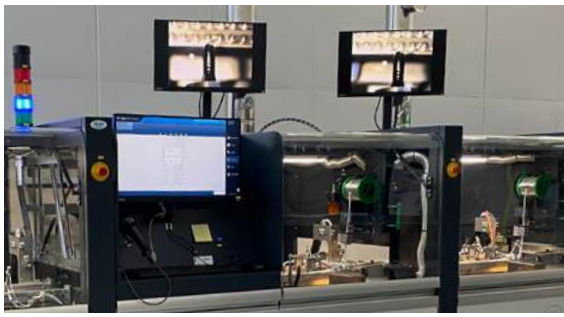
100% Italian quality

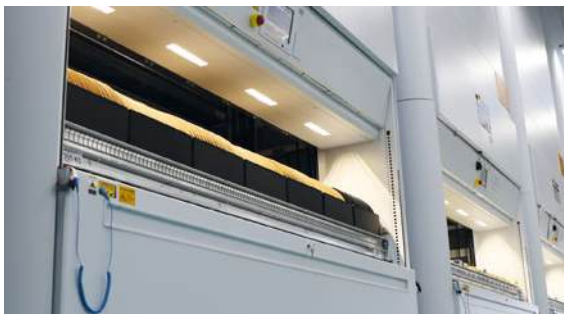
The production process is based on a highly automated SMT assembly department where lines that operate in parallel guarantee the continuous flow of boards required by the subsequent departments.

The SMT assembly lines, with a capacity of about 60˙000 components per hour each, use automated warehouses for component storage, controlled reflow ovens and optical inspection lines for checking the assembled boards.

The detector assembly line is the flagship of the company. Made according to the industry 4.0 directive, it automates the processes for a product of superior quality and assurance.







- Research & Development
- Quality Check of raw materials
- SMT assembly
- Optical inspection
- Selective welder
- ATE testing
- Conformal Coating
- Assembly
- Calibration and finished product test
- Burn in
- Lot validation
- Dispatch

We start off from Italy. We arrive in the world.

Over one million structures in the world use Inim products

Inim participates as a protagonist in major international events for the sector such as trade fairs, forums and workshops.

Our constant presence has made our fire detection products among the best known and most appreciated, both in the Italian market and in the various world markets.

To date, our products made entirely in Italy, reach the four corners of the globe for use in European, Middle Eastern, African and Latin American projects.

This page shows just some of the ambitious structures that can boast the use of Inim products.

Coimbra Hospital

Portugal

Confederación Sudamericana de Fútbol

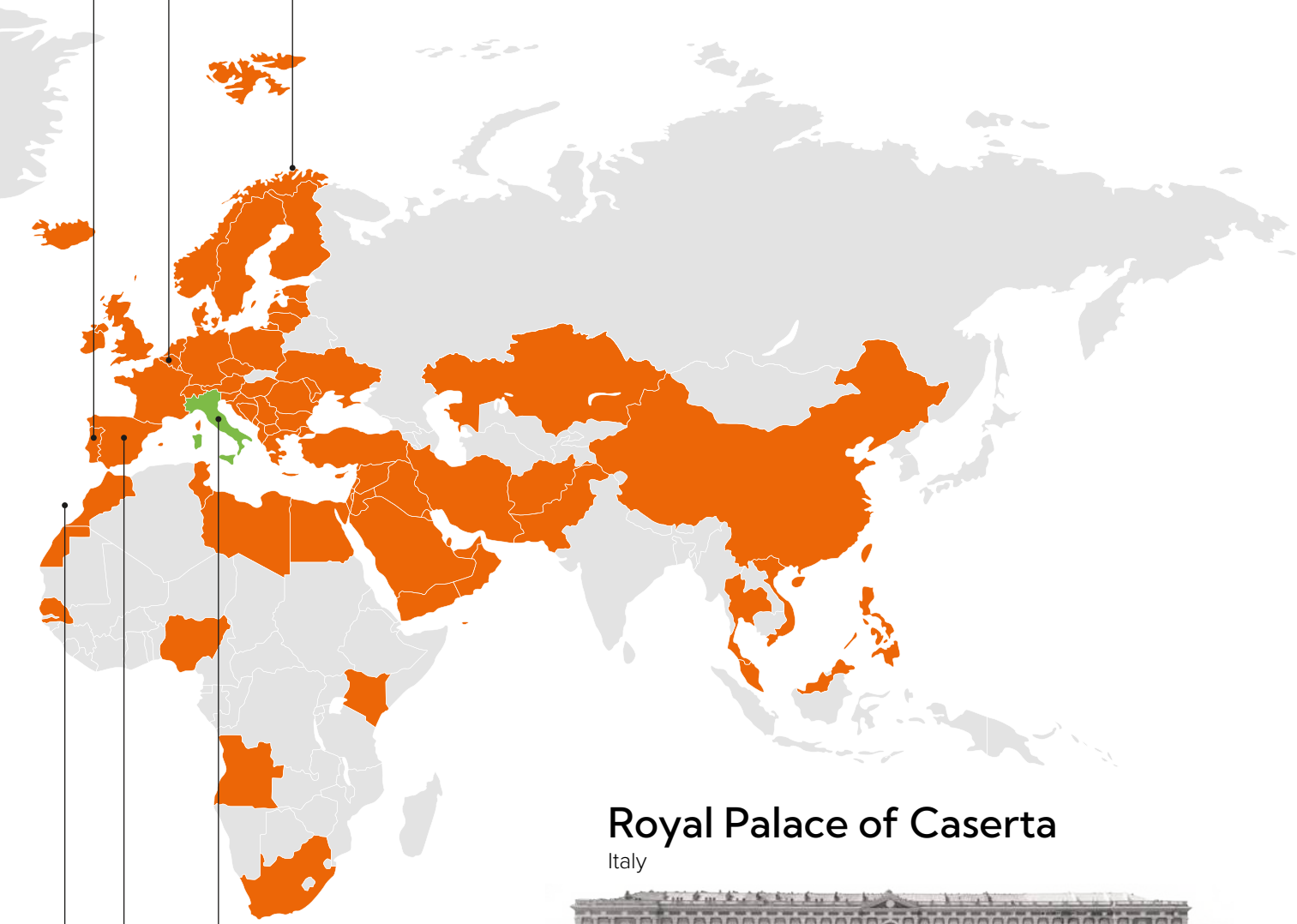
Paraguay

Turquesa hotel

Tenerife

Silver Tower
Brussels

Nordre Jarlsberg Brygge
Norway



Royal Palace of Caserta
Italy

Infanta Sofía Hospital
Madrid

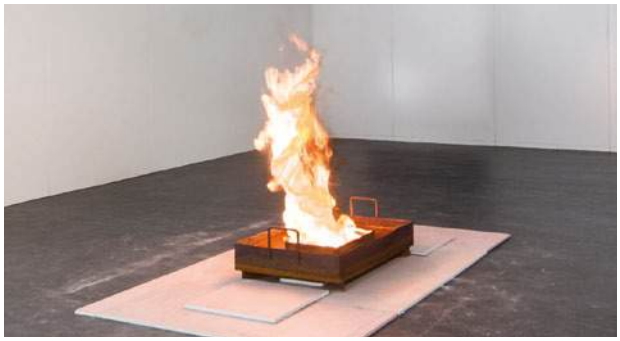
We write the technology of the industry

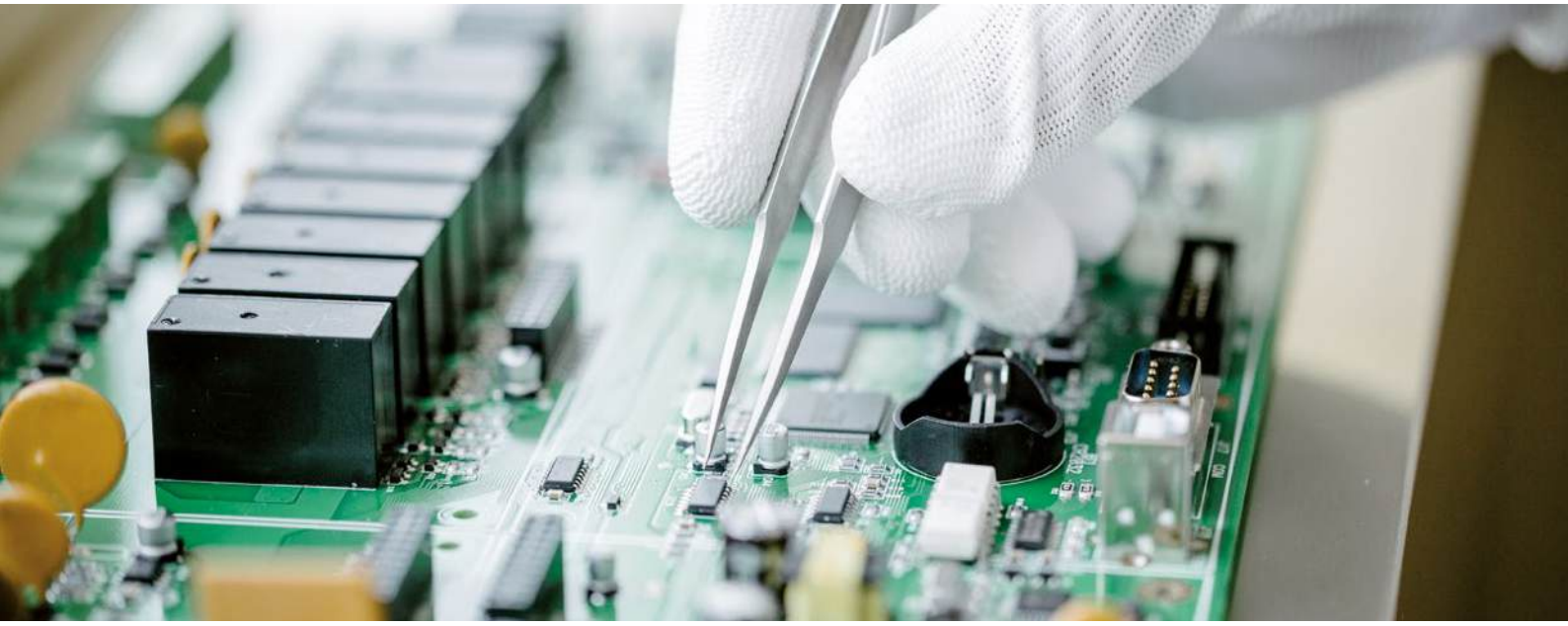
In-house cutting-edge R&D department

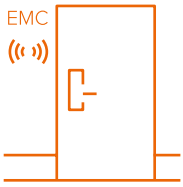
We hold the intellectual property of every single product manufactured, and it is thanks to this expertise and technical knowledge that we are always able to respond effectively and in advance to market challenges.

Our laboratories are equipped with apparatus capable of taking climatic measurements, acoustic measurements in an anechoic chamber, intensity measurements of luminous fluxes and many other tests to ensure absolute quality products.

Within our facilities we are able to perform response tests on smoke and temperature detectors in reference to European and international standards, such as the test in the Fire Test Room, this gives us constant control over the development and quality of our detectors.







We are equipped with a sophisticated EMC laboratory that few companies can boast. The desire to introduce such a sophisticated control system inside Inim bears witness to our pursuit of absolute quality and our passion for technology. Thanks to the anechoic chamber we can carry out:

• Measurements of electromagnetic emission, to verify compliance with the radiated field limits

• Measurements of radiated susceptibility during which the equipment is subjected to a strong electric field in order to verify its robustness

• Measurements of emissions and immunity conducted on cables and interconnection points of the devices

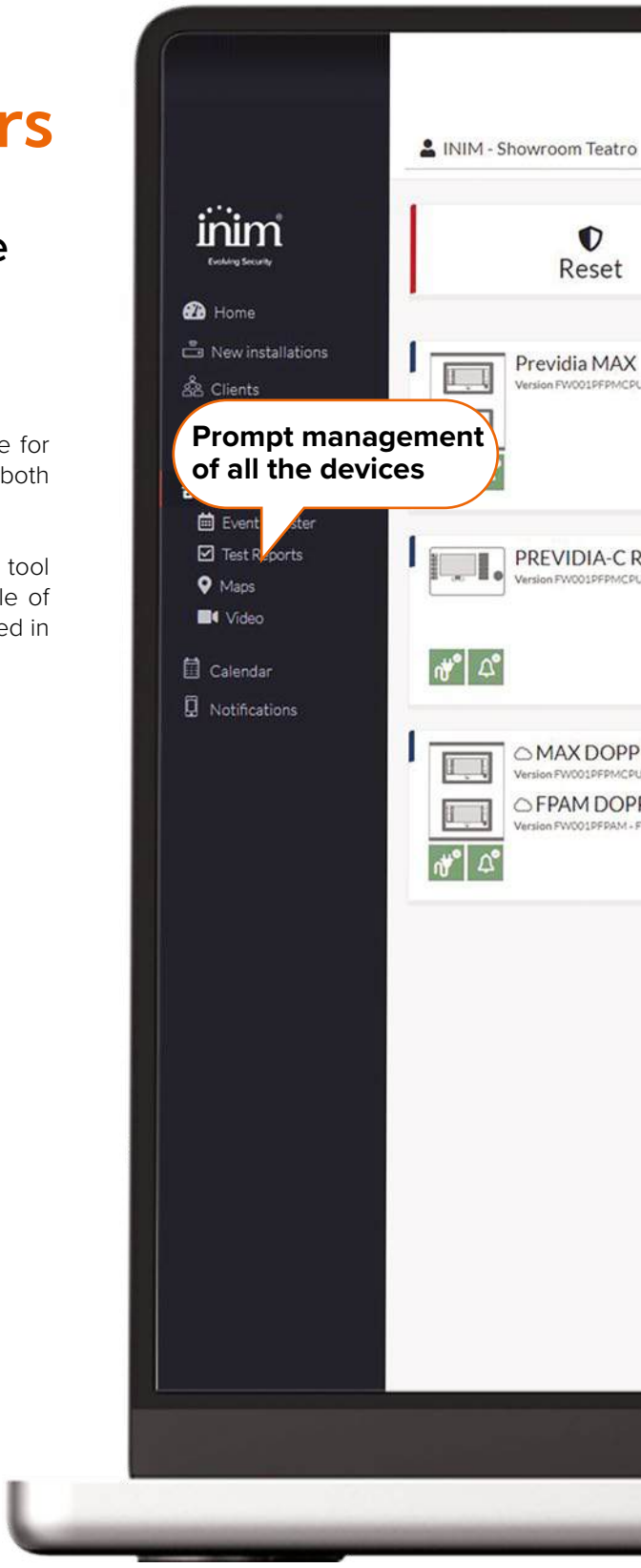
• Measurements of immunity to high energy disturbance (Burst, Surge, etc.) that can couple on cables or on product casings

Cloud and App
Always the forerunners

A universe of functions to improve the job of every professional

Our company was among the first to create a Cloud infrastructure for the monitoring, control and management of fire detection systems both remotely and via App.

The Inim Cloud infrastructure immediately proved to be a crucial tool for punctual and effective management and maintenance, capable of giving our systems the credibility and reliability necessary to be used in ambitious national and international projects.



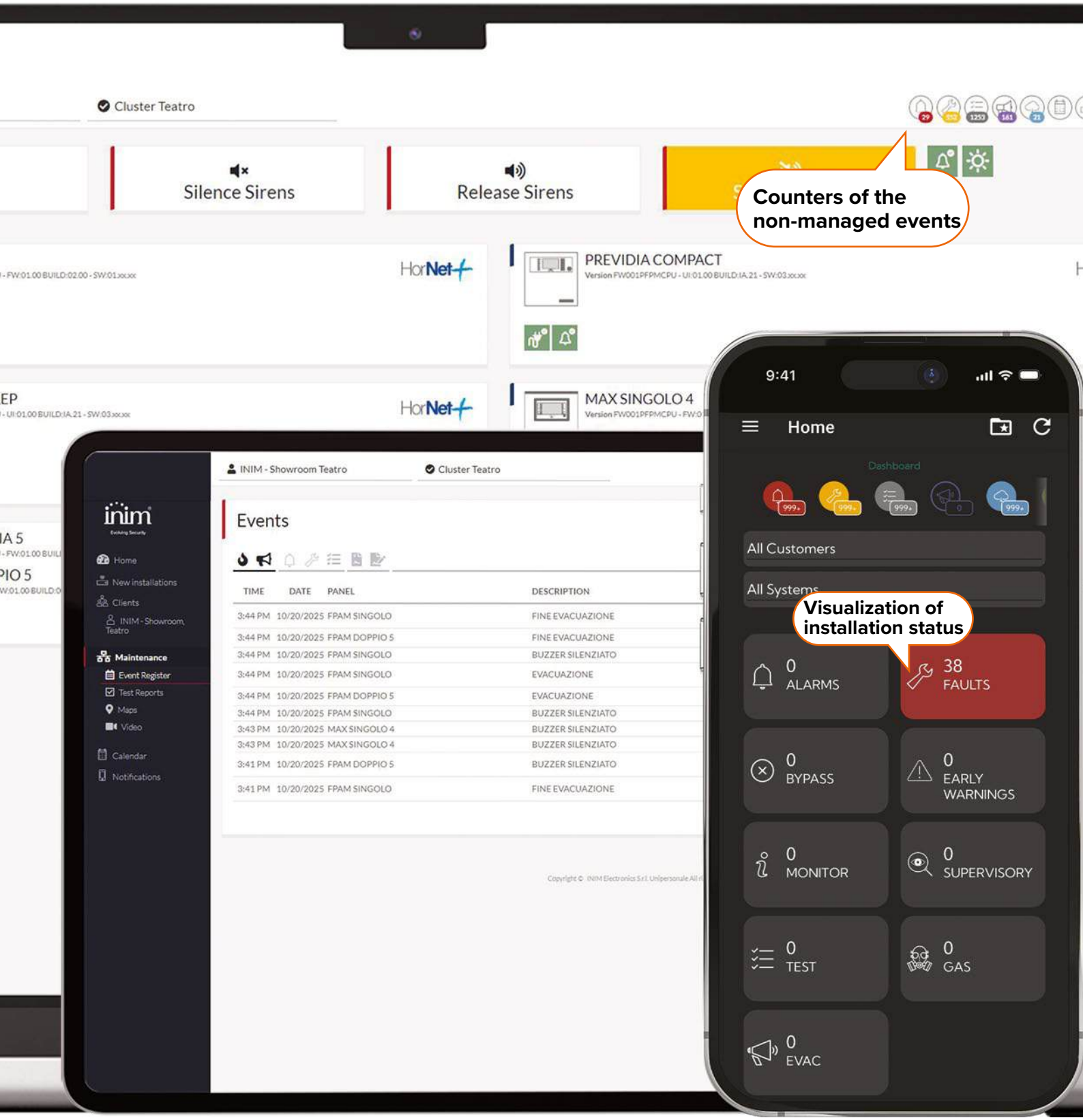
Remote monitoring and control

Installation registry and maintenance

System diagnostics

Interactive graphic maps

Video verification



Watch the Inim Fire Cloud video

Watch the Inim Fire App video

Fire-control panels

The technological heart of each installation

The control panels represent the heart of every system, Inim's offer includes both conventional (Previdia Micro and SmartLine) and addressable analogue models (Previdia Compact, Previdia Max, Previdia UltraVox, SmartLight and SmartLoop).

Conventional fire-fighting systems, thanks to their ease of installation and their reduced cost, are ideal for small to medium size installations. The connection between the control panel and detection devices is made through bipolar cable lines, when an alarm is detected the devices unbalance these lines by absorbing an appropriate current draw. Each cable can manage up to 32 devices ("conventional" type devices), the identification of any alarm or fault conditions is revealed for the line and not for the individual device.

Quick installation and programming

Easy and effective control of small and medium-sized ambients

Ethernet connection for remote management

Simplified maintenance and diagnostic functions thanks to the EITK2000 Tool

The analogue addressable fire-fighting installations presuppose the installation of detection devices on a connection line set up as a ring, the loop, beginning and ending on the control panel itself. Each loop manages up to 240 elements connected and identified by the assignment of progressive identification address. Thanks to the two-way digital communication protocol, this type of configuration guarantees prompt identification of the device and the tolerance of any faults on the cable.

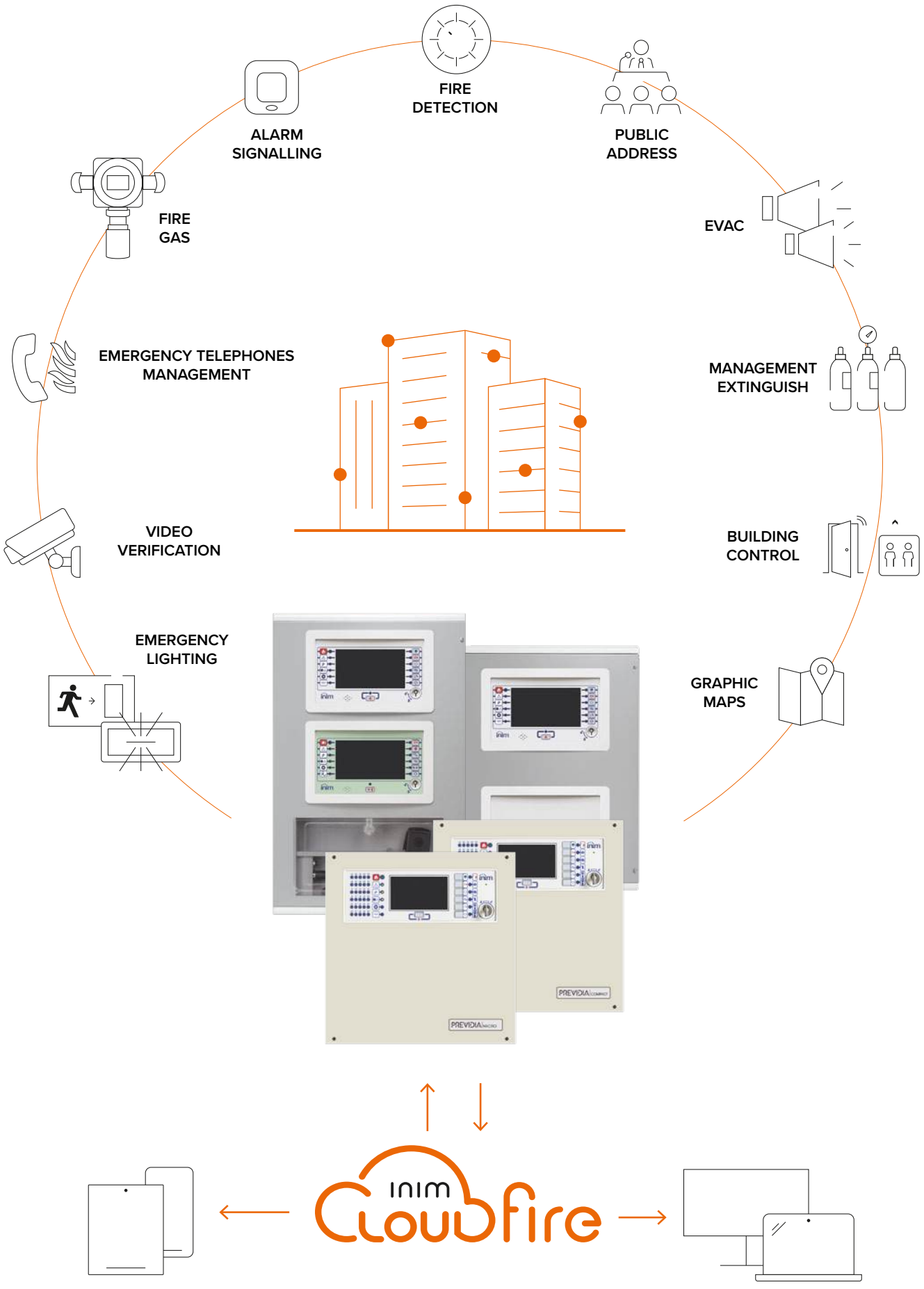
Inim systems speed up system commissioning and maintenance

They are highly interactive and provide detailed information on every single point

They are highly intuitive thanks to the graphic display with maps and video verification

Multiprocessor architecture, redundant hardware for greater reliability

THE PREVIDIA SERIES FIRE-CONTROL PANELS



Previdia system diagram

PREVIDIA ULTRAVOX
Fire detection control panel with integrated EVAC functions

PRCAB+
Add-on cabinet
UP TO 3 PER CONTROL PANEL

FPMLED
LED module

FPMLEDPRN
LED module and thermal printer

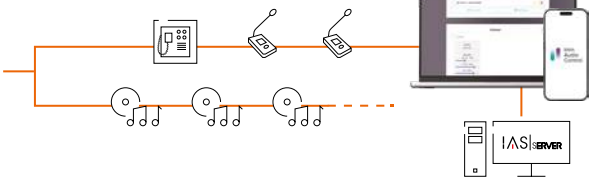
FPMEXT
LED signalling module for 5 fire-extinguishing channels

FPMCPU
Add-on CPU module for backup

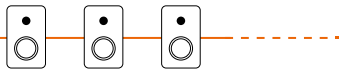
IDANet

IFAMIDANET
Module for the connection in IDANet network

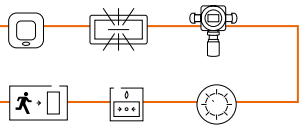
IFAMEVAC
Audio matrix module



IFAMAMP
250W audio amplifier module
UP TO 30 PER CONTROL PANEL

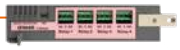


IFM2L
Module for the management of 2 loops
UP TO 8 PER CONTROL PANEL

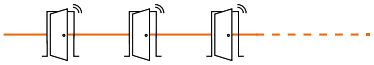


PREVIDIA C-REP
Remote keypad

IFAMFFT
Module for the management of emergency telephones
UP TO 4 PER CONTROL PANEL



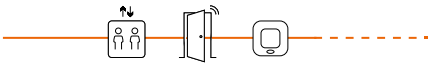
IFM4R
4 configurable relays module
UP TO 16 PER CONTROL PANEL



HorNet+

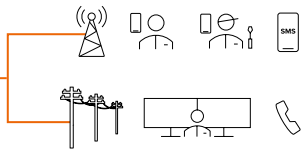
IFM4IO
4 power input/output module
UP TO 16 PER CONTROL PANEL

IFM16IO
16 low-power input/outputs module
UP TO 4 PER CONTROL PANEL



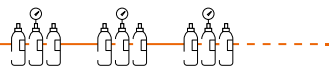
IFMNET
Module for the connection in HorNet+ network

IFMDIAL4G
PSTN & GSM remote communicator module

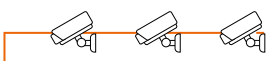


Cloudfire

IFMEXT
Module for the management of an extinguishing channel
UP TO 24 PER CONTROL PANEL



IFMLAN
Advanced TCP-IP service management module



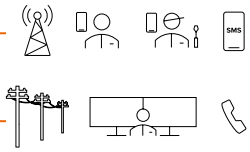
Cloudfire

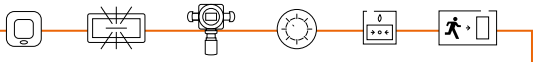
IFAMPSU
1000W SWITCHING POWER SUPPLY MODULE

PREVIDIA COMPACT
Compact fire detection control panel

PREVIDIA-C-COM
Remote communicator module and TCP-IP functions

PREVIDIA-C-DIAL4G
Remote communicator module

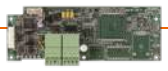


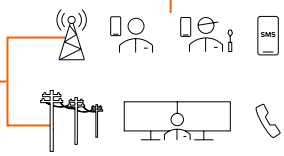


UP TO 2 Loops

PREVIDIA MICRO
Conventional fire detection control panel

UP TO 70 ZONES





PREVIDIA-C-COM
Remote communicator module and TCP-IP functions

PREVIDIA-M-EXP
15 zones expansion module

UP TO 4 PER CONTROL PANEL

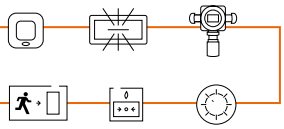
PREVIDIA-C-DIAL4G
Remote communicator module

PREVIDIA MAX
Fire detection control panel

IFMNET
Module for the connection in HorNet+ network

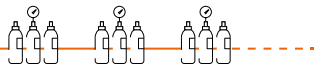
IFM2L
Module for the management of 2 loops

UP TO 8 PER CONTROL PANEL



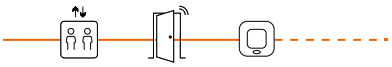
IFMEXT
Module for the management of an extinguishing channel

UP TO 24 PER CONTROL PANEL



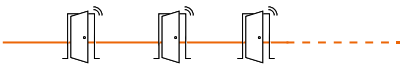
IFM16IO
16 low-power input/outputs module

UP TO 4 PER CONTROL PANEL



IFM4R
4 configurable relays module

UP TO 16 PER CONTROL PANEL



PRCAB
Add-on cabinet

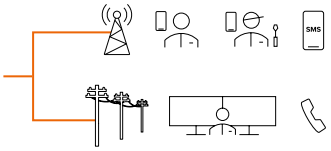
UP TO 3 PER CONTROL PANEL

FPMLED
LED module

FPMLEDPRN
LED module and thermal printer

FPMEXT
LED signalling module for 5 fire-extinguishing channels

IFMDIAL4G
PSTN & GSM remote communicator module



IFM4IO
4 power input/output module

UP TO 16 PER CONTROL PANEL

IFMLAN
Advanced TCP-IP service management module

IFM24160
160W SWITCHING POWER SUPPLY MODULE

FPMCPU
Add-on CPU module for backup

Previdia Micro

Conventional control panels for fire detection, GAS detection and fire extinction management

Previdia Micro control panels combine the functions of the Previdia series with the ease of use of conventional control panels. They manage 4 detection zones (fire or gas detection with relay or 4-20 mA), 4 T-function terminals (fire detection, gas detection, input function or low-power output) and 3 I/O terminals (fire detection, input or high-power output). Expandable by means of boards. Connected in HORNET+ network with other PREVIDIA models, manageable via Inim Fire App with video verification and notifications. Configurable as satellite control units for Previdia networks, thanks to the advanced gas management functions and fire extinction channel (in “E” models).

TECHNICAL SPECIFICATIONS

Power supply voltage:	230 V~ (-15% / +10%) 50/60 Hz 115 V~ (-15% / +10%) 50/60 Hz	**Version dimensions (S):**	323 x 324 x 97 mm
Maximum current draw from mains:	@230~ 0.5 A (**S**); 1.1 A (**L**) @115V~ 1 A (**S**); 2.2 A (**L**)	**Version dimensions (L):**	497 x 380 x 97 mm
Nominal output voltage:	27.6 V	**Weight (S):**	3.3 Kg
Maximum output current:	1.5 A (**S**); 4 A (**L**)	**Weight (L):**	6.1 Kg
Battery specifications:	2 x 12 V, 7 Ah (**S**); 2 x 12 V, 17 Ah (**L**)		
Operating temperature:	-5° ... 40° C		
Enclosure protection grade:	IP30		

EN54 certified

Previdia Micro has obtained all the applicable EN54 certifications:

- EN54-2: Control panel and signalling devices;
- EN54-4: Power supply units;
- EN54-21: Alarm transmission and remote fault signalling and warning equipment;
- EN12094-1: Gas extinguishing system components. Automatic electrical command and shutdown and delay management devices

Simple installation

The 4.3” graphic colour touch-screen, the configuration and maintenance of the system is simple and fast. The intuitive interface and the complete programmability make them unique within the market of conventional control panels.

Intuitive

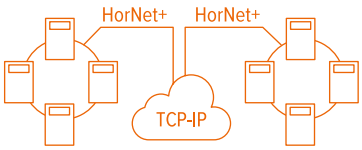
Thanks to innovative concepts such as interactive graphic maps and video verification, it allows for fast and effective emergency management.

Flexible

It is available in two sizes to suit different installation needs:

- Small, with 1.5 A power-supply and 7 Ah batteries
- Large, with 4 A power-supply and 17 Ah batteries

Networkable



The control panels can be networked together thanks to the HORNET+ system (up to a max of 50 nodes) with Previdia Compact, Previdia Max and PrevidiaUltra control panels. As well as the Hornet+ network, networking via TCP-IP (max. 20 Cluster) is also managed.

Manages extinguishing systems

Previdia Micro control panels with the extinguishing function are capable of managing an extinguishing channel. When combined with a HORNET+ network, they can operate as satellite control units.

Always connected

Thanks to the on-board Ethernet port the control panel or the PREVIDIA-C-DIAL4G optional module is able to connect to the Inim Fire Cloud, thus remaining accessible at all times from a PC or App, and to carry out remote supervision via TCP-IP through SIA-IP and MODBUS protocols.

Installing a Previdia-C-DIAL4G optional module, allows the control panel to manage voice and digital communications over a wired telephone line and a 4G line, as well as record and replay voice messages and send automated SMS text.

Inim Fire App

Remote management via App (for Android and IOS) with video verification functions, interactive graphic maps, system register management, maintenance recording, diagnostics and an innovative Walk Test function.

Intelligent

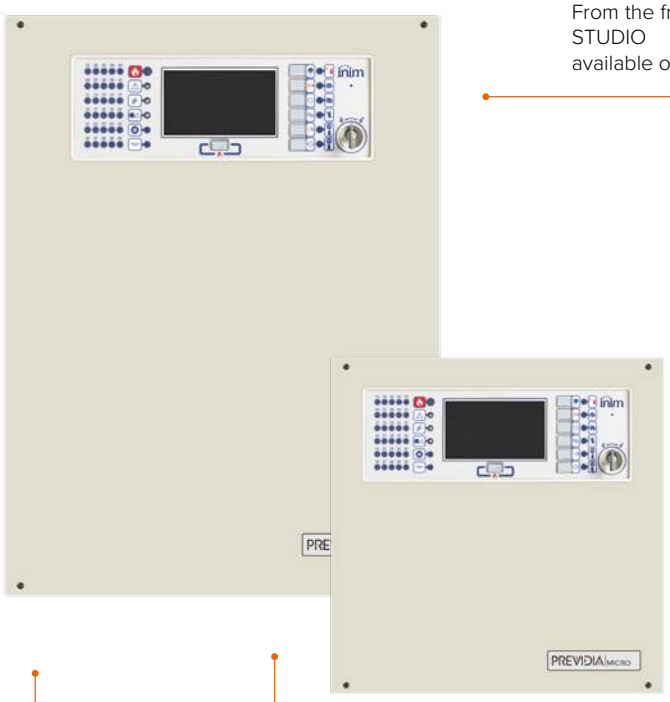
- Zones and terminals fully configurable;
- 1000 output groups for activation logics
- Logical equations
- Timers

4 zones expandable to 36

"L" version (LARGE) 4 zones (+6 zones for call points) expandable to 36 (+28 zones for call points)

Easily programmable

From the front plate or via the Previdia/ STUDIO configuration software available on the Inim website.



Self-powered

1.5 A or 4 A power-supply with integrated battery charger.

4.3" graphic display

Colour touch-screen, customizable display with images, status indication icons for the various elements, text and function buttons.

High and low power output

Capable of managing up to 5 (7 in the L version) high-power outputs and 18 (32 in the L version) low-power outputs (100 mA max.).

Gas extinguishing

Management of a gas-extinguishing channel (depending on the model), certified EN12094-1.

GAS management

Capable of managing up to 24 (40 in the L version) detectors with 4-20 mA interface. Advanced functions of synoptic visualization and management.

Always connected

Capable of Cloud connection via the Ethernet port on the control panel or the optional PREVIDIA-C-DIAL4G module.

ORDER CODES	Power supply	Management of a fire extinguishing channel	Signaller with 50 LEDs	Colour	Number of zones (Included in the brackets are the zones dedicated only to call points)
PREVIDIA-MSG	1.5 A and 7 Ah batteries			GREY	4 (10) expandable to 20 (40)
PREVIDIA-MSR	1.5 A and 7 Ah batteries			RED	4 (10) expandable to 20 (40)
PREVIDIA-MLG	4 A and 17 Ah batteries			GREY	4 (10) expandable to 36 (70)
PREVIDIA-MLR	4 A and 17 Ah batteries			RED	4 (10) expandable to 36 (70)
PREVIDIA-MSZG	1.5 A and 7 Ah batteries		✓	GREY	4 (10) expandable to 20 (40)
PREVIDIA-MSZR	1.5 A and 7 Ah batteries		✓	RED	4 (10) expandable to 20 (40)
PREVIDIA-MLZG	4 A and 17 Ah batteries		✓	GREY	4 (10) expandable to 36 (70)
PREVIDIA-MLZR	4 A and 17 Ah batteries		✓	RED	4 (10) expandable to 36 (70)
PREVIDIA-MSEZG	1.5 A and 7 Ah batteries	✓	✓	GREY	4 (10) expandable to 20 (40)
PREVIDIA-MSEZR	1.5 A and 7 Ah batteries	✓	✓	RED	4 (10) expandable to 20 (40)
PREVIDIA-MLEZG	4 A and 17 Ah batteries	✓	✓	GREY	4 (10) expandable to 36 (70)
PREVIDIA-MLEZR	4 A and 17 Ah batteries	✓	✓	RED	4 (10) expandable to 36 (70)

* Control panels with 115 V supply voltage are aquirable by suffixing 115V to the order code

TERMINALS		POSSIBLE CONFIGURATIONS			
		FIRE DETECTION ZONE	GAS DETECTION ZONE	FUNCTION INPUT	OUTPUT
MOTHERBOARD	L1 ... L4	DETECTORS AND CALLPOINTS	RELAY INTERFACE or 4-20 mA	YES	
	T1 ... T4	CALL POINTS ONLY	RELAY INTERFACE or 4-20 mA	YES	Max 100 mA
	I/O1 ... I/O2	CALL POINTS ONLY		YES	Max 1 A
	AUX			YES	Max 1 A
PREVIDIA-M-EXP EXPANSION BOARD	L1 ... L8	DETECTORS AND CALLPOINTS	RELAY INTERFACE or 4-20 mA	YES	
	T1 ... T6	CALL POINTS ONLY		YES	Max 100 mA
	I/O 1	CALL POINTS ONLY		YES	Max 1 A

Accessories for Previdia Micro

The “S” model control panels (Small cabinet) provide housing for 2 add-on modules (choice of Previdia-M-EXP, Previdia-C-DIAL, Previdia-C-COM and PREVIDIA-C-COM-LAN); the “L” model control panels (Large cabinet) provide housing for 4 add-on modules.

PREVIDIA-M-EXP

ZONE EXPANSION MODULE

These add 8 L type terminals configurable as the same number of detection zones (Fire or Gas); 6 T type terminals configurable as low-power output, function input or fire detection zone for alarm call points only; an I/O terminal configurable as high-power output, function input or fire detection zone for alarm call points only.

TECHNICAL SPECIFICATIONS	
Power supply voltage:	19 / 30 V
Stand-by current draw:	40mA
Operating temperature:	-5° ... +40° C
Terminals L:	8
Terminals T:	6
I/O terminals:	1

PREVIDIA-C-COM / PREVIDIA-C-COM LAN

SERIAL COMMUNICATIONS MANAGEMENT MODULE

EN54-21

PREVIDIA-C-COM provides two RS232 ports and two RS485 ports for the connection of remote communicators, using the protocols available in the table.

COMMUNICATION PROTOCOL	RS232	RS485	
ESPA444	✓		Protocol for interfacing with control panels to pagers, third-party remote communicators
PASO		✓	Protocol for interfacing between the control panel and the Voice EVAC-system
WEB WAY ONE	✓		Protocol for interfacing with WEB-WAY-ONE remote communicators
SMART-485-IN		✓	Communication protocol with the Inim SMART-485-IN module which allows connection to the standard interface panels required in some countries
LOG ON SERIAL - ASCII PRINTER	✓		Sends events to the port in real time in ASCII format (to a printer or receiving devices)
LOG ON SERIAL - SMART LOOP FORMAT	✓		Sends events to the port in real time in the format used by SmartLoop series control panels
LOG ON SERIAL - PLUS II PRINTER FORMAT	✓		It sends events to the port in real time in compatible format for Custom PLUSII printers
LOG ON SERIAL - WITHOUT CONTROLS	✓		Sends events to the port in real time in ASCII format without any control for the printers

PREVIDIA-C-COM-LAN provides, in addition, a socket for connection to the Ethernet network for advanced TCP-IP functions such as sending e-mails, an interactive WEB page with graphic maps, video verification via connection to IP cameras with ONVIF protocol, BACnet protocol (subject to PRE- BACLIC) and interfacing with TUTONDO EVAC systems (via TCP-IP).

TECHNICAL SPECIFICATIONS	
Power supply voltage:	19 / 30 V
Current draw:	40mA
RS485 maximum current draw:	200mA
SDCard capacity (for Previdia-C-COM-LAN only):	32 GB
Operating temperature:	-5° ... +40° C

PREVIDIA-C-DIAL4G

REMOTE COMMUNICATOR MODULE - CLOUD CONNECTION

EN54-21

Manages remote communications via wired telephone lines and 4G GSM networks. Capable of managing voice calls, recording up to 100 voice messages, SMS with automatic text generation and digital calls using the most widely used protocols.

TECHNICAL SPECIFICATIONS

Power supply voltage:	19 / 30 V
Stand-by current draw:	40mA
Maximum current draw:	140mA
Band frequency:	LTE-FDD: B1/B3/B5#/B7/B8/B20/B28# GSM: GSM/GPRS/EDGE 900/1800 MHz
Maximum RF output power:	33 dBm
Operating temperature:	-5° ... +40° C

PREVIDIA-C-REP / PREVIDIA-C-REPE

REMOTE CONTROL KEYPAD (REPEATER)

EN54-2

PREVIDIA-C-REP with customizable 4.3" touchscreen LCD, buttons for basic functions and status LEDs Connects to the HORNET+ network (dual RS485 connection) or via ETHERNET TCP-IP network It provides detailed information about the entire network. Internal buzzer. Level 2 via key or code.

PREVIDIA-C-REPW Enclosure in white plastic
PREVIDIA-C-REPR Enclosure in red plastic

PREVIDIA-C-REPE provides, in addition, indication relating to the extinguishing channel.

PREVIDIA-C-REPEW Enclosure in white plastic
PREVIDIA-C-REPER Enclosure in red plastic

TECHNICAL SPECIFICATIONS

Power supply voltage:	19 / 30 V	**Version dimensions (S):**	210 x 132 x 32 mm
Stand-by current draw:	110mA	**Weight:**	330 g
Current draw during mains failure:	80mA		
Maximum current draw:	130mA		
Operating temperature:	-5° ... +40° C		

Accessory items for mounting

Accessory items for PREVIDIA-C-REP

C-REP-DEEPBOXW Deep base for C-REPW repeater installation, RAL9016 white colour

C-REP-DEEPBOXR Deep base for C-REPR repeater installation, RAL3001 red colour

C-REP-FLUSHBOXW Flush-mount base for C-REPW repeater installation, RAL9016 white colour. In combination with C-REP-DEEPBOXW

C-REP-FLUSHBOXR Flush-mount base for C-REPR repeater installation, RAL3001 red colour. In combination with C-REP-DEEPBOXR

C-REP-FRAMEW Flush-mount frame for C-REP-FLUSHBOXW. Enclosure in white plastic

C-REP-FRAMER Flush-mount frame for C-REP-FLUSHBOXR. Enclosure in red plastic

Document cabinet

INDOCBOXCSG INDOCBOXCSG Document holder, for PREVIDIA-C SMALL and PREVIDIA-M SMALL, grey colour, durable rugged paint finish

INDOCBOXCLG INDOCBOXCSG Document holder, for PREVIDIA-C LARGE and PREVIDIA-M LARGE grey colour, durable rugged paint finish

Previdia Micro control panel diagram

PREVIDIA ULTRAVOX
Fire detection control panel with integrated EVAC functions

PREVIDIA MAX
Fire detection control panel

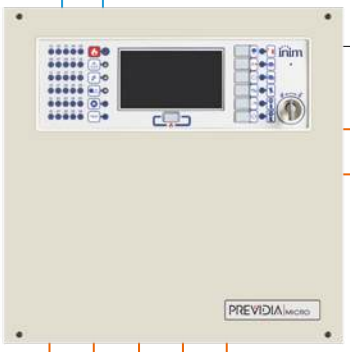
PREVIDIA COMPACT
Compact fire detection control panel

PREVIDIA MICRO
Conventional fire detection control panel

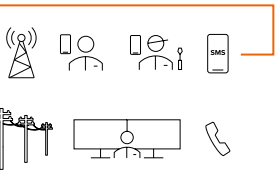
HorNet

PREVIDIA C-REP
Remote keypad

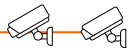
PREVIDIA MICRO
Conventional fire detection control panel



PREVIDIA-C-DIAL4G
Remote communicator module



PREVIDIA-C-COM LAN
Remote communicator module and TCP-IP functions



PREVIDIA-M-EXP
15 zones expansion module

IS10xx
Visual/Audible alarm indicators, ceiling mount

IS20xx
Visual/Audible alarm indicators, wall mount

ID100
Smoke detector

ID200
Heat detector

ID300
Smoke and heat detector

IL0010
Remote indicator

IC0020
Manual call point

IC012E
Manual call point for outdoor use

INE7xx
ATEX certified GAS detectors

ING7xx
GAS detectors

FA100
Aspirating smoke detector

BDH260
Optical beam smoke detector

Previdia Compact

Analogue-addressable fire control panel, perfect for systems of up to 480 points.

The analogue-addressable control panels from the Previdia Compact series represent the ideal solution for small to medium installations, combining inside a compact cabinet the innovative features of the Previdia system and a unique ease of use. Programming from the display through a clear and intuitive user interface allows you to minimize the system activation and maintenance times.

TECHNICAL SPECIFICATIONS

Power supply voltage:	230 V~ (-15% / +10%) 50/60 Hz 115 V~ (-15% / +10%) 50/60 Hz	Version dimensions (**S**):	323 x 324 x 97 mm
Maximum current draw from mains:	@230~ 0.5 A (**S**); 1.1 A (**L**) @115V~ 1 A (**S**); 2.2 A (**L**)	Version dimensions (**L**):	497 x 380 x 97 mm
Nominal output voltage:	27.6 V	Weight (**S**):	3.3 Kg
Maximum output current:	1.5 A (**S**); 4 A (**L**)	Weight (**L**):	6.1 Kg
Battery specifications:	2 x 12 V, 7 Ah (**S**); 2 x 12 V, 17 Ah (**L**)		
Operating temperature:	-5° ... 40° C		
Enclosure protection grade:	IP30		

See the data sheet online

EN54 certified

Previdia Compact has obtained all the applicable EN54 certifications:

- EN54-2: Control panel and signalling devices;
- EN54-4: Power supply units;
- EN54-21: Alarm transmission and remote fault signalling and warning equipment;
- EN12094-1: Gas extinguishing system components. Automatic electrical command and shutdown and delay management devices
- EN54-13: Compatibility of system components.

Simple installation

Thanks to the 4.3” graphic colour touch-screen, the configuration and maintenance of the system is simple and fast. The intuitive interface and the complete programmability provide a tool that is unmatched by other control panels available on the market.

Intuitive

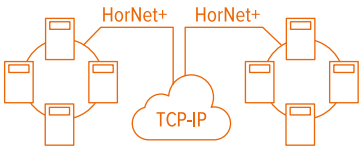
Thanks to innovative concepts such as interactive graphic maps and video verification, it allows for fast and effective emergency management.

Flexible

It is available in two sizes to suit different installation needs:

- Small, with 1.5 A power-supply and 7 Ah batteries
- Large, with 4 A power-supply and 17 Ah batteries

Networkable



The control panels can be networked together thanks to the HORNET+ system (up to a max of 50 nodes) or with Previdia Max and Previdia Ultra control panels. As well as the Hornet+ network, networking via TCP-IP (max. 20 Cluster) is also managed.

Manages extinguishing systems

Previdia Compact control panels with the extinguishing function are capable of managing an extinguishing channel. When combined with a HORNET+ network, they can operate as satellite control units for Previdia Max and Previdia Ultra expandable control panels.

Always connected

Thanks to the on-board Ethernet port the control panel or the PREVIDIA-C-DIAL4G optional module is able to connect to the Inim Fire Cloud, thus remaining accessible at all times from a PC or App, and to carry out remote supervision via TCP-IP through SIA-IP and MODBUS protocols.

Installing a Previdia-C-DIAL4G optional module, allows the control panel to manage voice and digital communications over a wired telephone line and a 4G line, as well as record and replay voice messages and send automated SMS text.

Inim Fire App

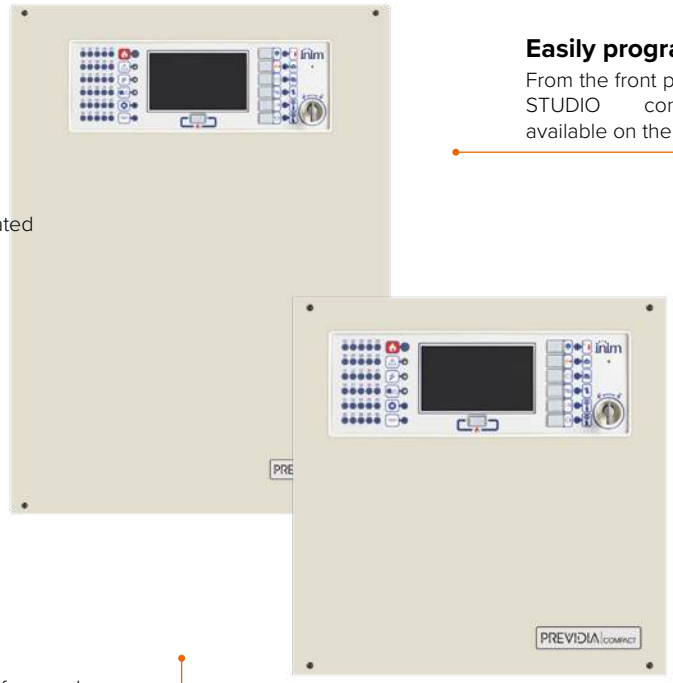
Remote management via App (for Android and IOS) with video verification functions, interactive graphic maps, system register management, maintenance recording, diagnostics and an innovative Walk Test function.

Up to 480 connectable devices

Compact analogue-addressable control panel capable of managing, depending on the model, 1 x 64-point loop, 1 x 240-point loop or 2 x 240-point loops.

Intelligent

- 1000 configurable zones
- 1000 output groups for activation logics
- Logical equations
- Timers



Easily programmable

From the front plate or via the Previdia/ STUDIO configuration software available on the Inim website.

Self-powered

1.5 A or 4 A power-supply with integrated battery charger.

4.3” graphic display

Colour touch-screen, customizable display with images, status indication icons for the various elements, text and function buttons.

Fully configurable

4 I/O channels of 1A + 1 fully configurable on-board relay

Gas extinguishing

Management of a gas-extinguishing channel (depending on the model), certified EN12094-1.

Protocols

HORNET+ network interface and Ethernet on board for networking between control panels. Integrated MODBUS protocol on TCP-IP for connection to BMS software.

Always connected

Cloud connection through the integrated Ethernet port on the control panel or in the PREVIDIA-C-DIAL4G module.

ORDER CODES	Loop CAPACITY			CABINET		STATUS LEDs ZONES	EXTINCTION MANAGEMENT
	1 Loop of 64 points	1 Loop of 240 points	2 Loops of 240 points	Small, with 1.5 A power-supply and 7 Ah batteries	Large, with 4 A power-supply and 17 Ah batteries	Zone LED available	Includes an extinguishing channel
C050S	✓			✓			
C100S		✓		✓			
C200S			✓	✓			
C050L	✓				✓		
C100L		✓			✓		
C200L			✓		✓		
C050SZ	✓			✓		✓	
C100SZ		✓		✓		✓	
C200SZ			✓	✓		✓	
C200LZ			✓		✓	✓	
C050SZE	✓			✓		✓	✓
C100SZE		✓		✓		✓	✓
C200SZE			✓	✓		✓	✓
C200LZE			✓		✓	✓	✓

S: 325 x 325 x 80mm **L:** 497 x 380 x 87mm | It is possible to customize the colour of the cabinet by adding the final letter: **G:** Grey - **R:** Red - **D:** Dark-grey

* Available are also control panels with a 115V power supply; please specify this when ordering

Previdia Compact control panel diagram

PREVIDIA ULTRAVOX
Fire detection control panel with integrated EVAC functions

PREVIDIA MAX
Fire detection control panel

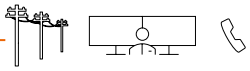
PREVIDIA COMPACT
Compact fire detection control panel

PREVIDIA MICRO
Conventional fire detection control panel

HorNet

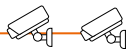
PREVIDIA C-REP
Remote keypad

PREVIDIA COMPACT
Compact fire detection control panel



PREVIDIA-C-DIAL4G
Remote communicator module

PREVIDIA-C-COM LAN
Remote communicator module and TCP-IP functions



SIGNALLING DEVICES AND EMERGENCY LIGHTING

ED100
Smoke detector

ED200
Heat detector

ED300
Smoke and heat detector

EBS1xxx
Mounting bases with visual and audible signalling capacity

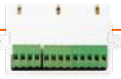
WIL0010
Remote indicator

INE7xx
ATEX certified GAS detectors

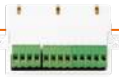
EM322AC
Module with 2 inputs and 2 relay outputs @ 230V

EU311x
Input/output micromodules

EM411R
Conventional zone interface module



EM312SR
Input/Output module



EM110
Input module

ING7xx
GAS detectors

EM500xxx
Module for the creation of synoptic panels

EM3xx
Multi input/output modules with conventional line interface

EC0020
Manual call point

EC012E
Manual call point for outdoor use

EM600
Home mute button

FA100
Aspirating smoke detector

BDH260
Optical beam smoke detector

SPS24xxx
Power supply stations

EWT100
Translator from loop to wireless devices

ES10xx
Visual/Audible alarm indicators, ceiling mount

ES20xx
Visual/Audible alarm indicators, wall mount

Accessories for Previdia Compact

PREVIDIA-C-DIAL4G

REMOTE COMMUNICATOR MODULE - CLOUD CONNECTION

EN54-21

Manages remote communications via wired telephone lines and 4G GSM networks. Capable of managing voice calls, recording up to 100 voice messages, SMS with automatic text generation and digital calls using the most widely used protocols.

TECHNICAL SPECIFICATIONS	
Power supply voltage:	19 / 30 V
Stand-by current draw:	40mA
Maximum current draw:	140mA
Band frequency:	LTE-FDD: B1/B3/B5#/B7/B8/B20/B28# GSM: GSM/GPRS/EDGE 900/1800 MHz
Maximum RF output power:	33 dBm
Operating temperature:	-5° ... +40° C

PREVIDIA-C-COM / PREVIDIA-C-COM LAN

SERIAL COMMUNICATIONS MANAGEMENT MODULE

EN54-21

PREVIDIA-C-COM provides two RS232 ports and two RS485 ports for the connection of remote communicators, using the protocols available in the table.

COMMUNICATION PROTOCOL	RS232	RS485	
ESPA444	✓		Protocol for interfacing with control panels to pagers, third-party remote communicators
PASO		✓	Protocol for interfacing between the control panel and the Voice EVAC-system
WEB WAY ONE	✓		Protocol for interfacing with WEB-WAY-ONE remote communicators
SMART-485-IN		✓	Communication protocol with the Inim SMART-485-IN module which allows connection to the standard interface panels required in some countries
LOG ON SERIAL - ASCII PRINTER	✓		Sends events to the port in real time in ASCII format (to a printer or receiving devices)
LOG ON SERIAL - SMART LOOP FORMAT	✓		Sends events to the port in real time in the format used by SmartLoop series control panels
LOG ON SERIAL - PLUS II PRINTER FORMAT	✓		It sends events to the port in real time in compatible format for Custom PLUSII printers
LOG ON SERIAL - WITHOUT CONTROLS	✓		Sends events to the port in real time in ASCII format without any control for the printers

PREVIDIA-C-COM-LAN provides, in addition, a socket for connection to the Ethernet network for advanced TCP-IP functions such as sending e-mails, an interactive WEB page with graphic maps, video verification via connection to IP cameras with ONVIF protocol, BACnet protocol (subject to PRE- BACLIC) and interfacing with TUTONDO EVAC systems (via TCP-IP).

TECHNICAL SPECIFICATIONS	
Power supply voltage:	19 / 30 V
Current draw:	40mA
RS485 maximum current draw:	200mA
SDCard capacity (for Previdia-C-COM-LAN only):	32 GB
Operating temperature:	-5° ... +40° C

PREVIDIA-C-REP / PREVIDIA-C-REPE
REMOTE CONTROL KEYPAD (REPEATER)

EN54-2

PREVIDIA-C-REP with customizable 4.3” touchscreen LCD, buttons for basic functions and status LEDs Connects to the HORNET+ network (dual RS485 connection) or via ETHERNET TCP-IP network It provides detailed information about the entire network. Internal buzzer. Level 2 via key or code.

PREVIDIA-C-REPW Enclosure in white plastic
PREVIDIA-C-REPR Enclosure in red plastic

PREVIDIA-C-REPE provides, in addition, indication relating to the extinguishing channel.

PREVIDIA-C-REPEW Enclosure in white plastic
PREVIDIA-C-REPER Enclosure in red plastic

TECHNICAL SPECIFICATIONS

Power supply voltage:	19 / 30 V	**Version dimensions (S):**	210 x 132 x 32 mm
Stand-by current draw:	110mA	**Weight:**	330 g
Current draw during mains failure:	80mA		
Maximum current draw:	130mA		
Operating temperature:	-5° ... +40° C		

Accessory items for mounting

Accessory items for PREVIDIA-C-REP

C-REP-DEEPBOXW Deep base for C-REPW repeater installation, RAL9016 white colour

C-REP-DEEPBOXR Deep base for C-REPR repeater installation, RAL3001 red colour

C-REP-FLUSHBOXW Flush-mount base for C-REPW repeater installation, RAL9016 white colour. In combination with C-REP-DEEPBOXW

C-REP-FLUSHBOXR Flush-mount base for C-REPR repeater installation, RAL3001 red colour. In combination with C-REP-DEEPBOXR

C-REP-FRAMEW Flush-mount frame for C-REP-FLUSHBOXW. Enclosure in white plastic

C-REP-FRAMER Flush-mount frame for C-REP-FLUSHBOXR. Enclosure in red plastic

Document cabinet

INDOCBOXCSG INDOCBOXCSG Document holder, for PREVIDIA-C SMALL and PREVIDIA-M SMALL, grey colour, durable rugged paint finish

INDOCBOXCLG INDOCBOXCSG Document holder, for PREVIDIA-C LARGE and PREVIDIA-M LARGE, grey colour, durable rugged paint finish

Previdia Max

Analogue addressable modular control panel for the realization of fire detection and extinction systems

Previdia Max control panels can comprise a single cabinet or multiple cabinets (max. 4) hooked together.
Can be used individually or interconnected in a network, the network connection can be achieved through an RS485 BUS, via a TCP-IP connection or by means of a combination of both.

TECHNICAL SPECIFICATIONS

Power supply voltage:	230 V ~ (+10% - 15%); 115 V ~ (+10% - 15%) 50/60 Hz	Dimensions:	563 x 432 x 196 mm
Maximum absorption from the 230V line:	1.1 A @ 230 V 2 A @ 115 V	Weight (without batteries):	10 Kg
Nominal output voltage:	27.6 V	Package dimensions:	500 x 620 x 250 mm
Maximum output current:	4A		
Current for battery charger:	1.2A		
Battery specifications:	2 x 12 V 24 Ah o 2 x 12 V 17 Ah		
Operating temperature:	-5° ... 40° C		
Enclosure protection grade:	IP30		

See the data sheet online

EN54 certified

Previdia Max has obtained all the applicable EN54 certifications:

- EN54-2 : Control panel and signalling devices;
- EN54-4 : Power supply units;
- EN54-21 : Alarm transmission and remote fault signalling and warning equipment;
- EN12094-1 : Gas extinguishing system components. Automatic electrical command and shutdown and delay management devices;
- EN54-13 : Compatibility of system components.

Simple installation

Thanks to its graphic colour touchscreen, Previdia Max simplifies configuration, management and maintenance of the system and makes almost effortless what was until today time consuming and complicated.

Intuitive

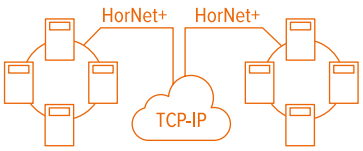
Thanks to on-screen graphic maps and video verification via IP cameras for the immediate location of the specific point of alarm detection, Previdia Max drastically reduces intervention time in the event of real danger and reduces the false alarm rate.

Flexible

Thanks to its modular architecture, Previdia Max offers a system that is suitable for all types of installations, from small business premises to large airports, hotels and shopping malls. Each control panel can be made up of a maximum of four cabinets and is capable of managing up to 32 IFM modules.

Flexible

Thanks to its structure of distributed intelligence with a microprocessor inside each module and redundant in the main unit and the possibility of having a main backup unit, Previdia Max guarantees unparalleled reliability. The security of the system is no longer entrusted to a single processing unit but to a group of interconnected CPUs which operate in synergy to provide the fastest and most effective response.



Networkable

Thanks to its powerful network architecture, Previdia Max allows the realization of hybrid systems based on connections using bights, fiber optics and TCP-IP networks capable of overcoming all barriers and of reaching unprecedented cover. Each cluster of control panels interconnected through a Hornet+ network can support up to 48 control panels, and up to 20 clusters can be connected through a TCP/IP network.

Robust

Thanks to HOT SWAP technology, modules can be added or replaced without shutting down the system, thus providing Previdia Max with a fast, safe method of intervention without any services interruptions.

Reliable

Thanks to loop control modules equipped with “power up boosters”, Previdia Max allows you to set the operating temperature of each separate cable thus ensuring reliability and wiring simplicity.

Always connected

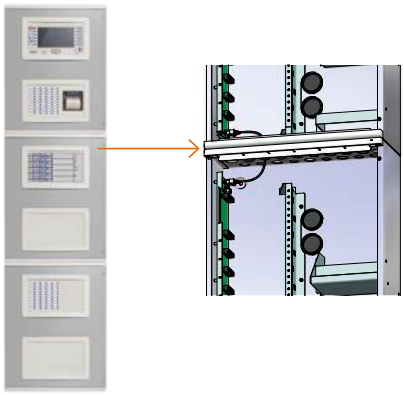
Thanks to the intensive use of new technologies such as the Web Server, electronic mail, TCP-IP connections, Cloud, Apps for SmartPhones and GSM communications, Previdia Max provides a system that is always under control and in reach. Both for the end-user and control and maintenance personnel.

Installation modes

Single cabinet systems

If the Previdia Max control panel is configured in a single cabinet, it will be possible to house a second FPM module on the front plate, in addition to the primary CPU unit essential for operation.

The CAN DRIVE interconnection bar is located inside the cabinet for the housing of a maximum of 8 IFM modules in accordance with system requirements.

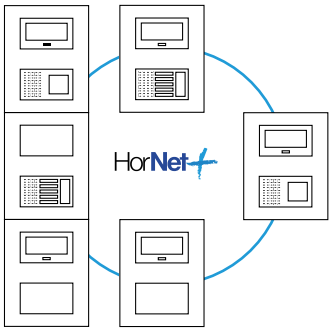


Multi-cabinet control panels

In order to expand the capacity of each control panel, several cabinets (maximum 4) can be assembled together to form a cabinet of increased dimensions.

The cabinets can be assembled together by means of the mounting screws (supplied), once assembled the CAN DRIVE bars can be connected together using the wire (supplied).

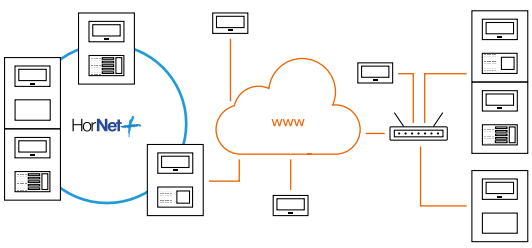
The assembled cabinets provide the respective number of housings for the front plate and CAN DRIVE bar modules. An IFM24160 power supply module can be installed in each cabinet, the different power supplies will automatically share the load current between them.



Control panels in a Hornet+ network

The system can be expanded by simply connecting other control panels (maximum 48) in such a way as to constitute a system with increased capacity (Hornet+ network).

In order to connect two or more control panels in a Hornet+ network, an IFMNET module must be installed inside each control panel which, via the two RS485 ports, will allow the ring connection to be made.



Control Panels in an IP network

Several control panels or Hornet+ networks of control panels can be connected together by means of a TCP-IP connection.

Each node of such a connection type is identified as a “Cluster”; each “Cluster” can be made up of a single control panel, a Hornet+ network of control panels or a Repeater.

Networkable

Up to 48 control panels in a HORNET+ network using the IFMNET network board and Up to 20 clusters connectable via TCP/IP.

Intelligent

Control equations for activations with logical operators (And, Or, Not, Xor, etc.), 1000 software zones, 1000 logic groups, 500 trigger activations, 100 programmable actions.

Multimedia

Clear and simple indications through graphic maps and alarm video verification via IP cameras.

Intuitive

7” touchscreen display 65,000 colours with second emergency CPU.

Modular

2 loops expandable to 16 (3840 points), multi-processor hardware architecture

Powerful

Up to 4 internal power supplies (IFM24160) and 4 battery packs (in the multiple cabinet configuration) and a maximum of 24 extinguishing channels (via IFMEXT modules).

Expandable

Possibility of interconnecting up to a maximum of 4 cabinets, up to 32 IFM internal modules and 8 FPM frontal modules.

Advanced

Management of MODBUS RTU, MODBUS-IP protocols and, via IFMLAN module, BACNET IP, ESPA 444, SIA-IP.

Certified

- Certification LPCB / IMQ / UL-EU
- Certification EN54 pt2 / 4 / 21 / 13
- Certification EN12094-1 (fire extinguishing systems) up to 24 channels

ORDER CODES	Loop CAPACITY	MODULAR AND NETWORKABLE	CABINET COLOUR	
	2 Loops expandable to 6		Grey	Red
Previdia216	✓	✓	✓	
Previdia216R	✓	✓		✓

Each installation must start from a basic Previdia216 control panel to which, when necessary, can be added function modules, cabinets and accessory devices. The basic configuration consists of a cabinet and the following accessories:

FPMCPU

Control unit with display

IFM24160

4A power-supply modules with built-in battery charger

IFM2L

Module for the management of 2 loops

Control panel diagram Previdia Max

PREVIDIA MAX
Fire detection control panel

PRCAB
Add-on cabinet

UP TO 3 PER CONTROL PANEL

FPMLED
LED module

FPMLEDPRN
LED module and thermal printer

FPMEXT
LED signalling module for 5 fire-extinguishing channels

FPMCPU
Add-on CPU module for backup

IFMNET
Module for the connection in HorNet+ network

HorNet+

PREVIDIA ULTRAVOX
Fire detection control panel with integrated EVAC functions

IFM2L
Module for the management of 2 loops

UP TO 8 PER CONTROL PANEL

IFMEXT
Module for the management of an extinguishing channel

UP TO 24 PER CONTROL PANEL

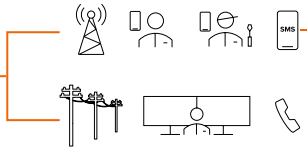
IFM16IO
16 low-power input/outputs module

UP TO 4 PER CONTROL PANEL

IFM4R
4 configurable relays module

UP TO 16 PER CONTROL PANEL

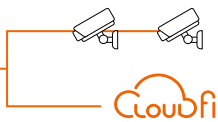
IFMDIAL4G
PSTN & GSM remote communicator module



IFM4IO
4 power input/output module

UP TO 16 PER CONTROL PANEL

IFMLAN
Advanced TCP-IP service management module



IFAMPSU
160W SWITCHING POWER SUPPLY MODULE

UP TO 4 PER CONTROL PANEL (1 PER CABINET)

PREVIDIA MAX
Fire detection control panel

PREVIDIA COMPACT
Compact fire detection control panel

PREVIDIA MICRO
Conventional fire detection control panel

PREVIDIA C-REP
Remote keypad

ED100
Smoke detector

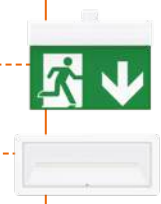
ED200
Heat detector

ED300
Smoke and heat detector

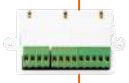
EBS1xxx
Mounting bases with visual and audible signalling capacity

IL0010
Remote indicator

230 VAC

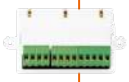


SIGNALLING DEVICES AND EMERGENCY LIGHTING



EM312SR
Input/Output module

EM110
Input module



EM411R
Conventional zone interface module

24 VDC

INE7xx
ATEX certified GAS detectors

EU311x
Input/output micromodules

24 VDC

ING7xx
GAS detectors

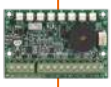
EM322AC
Module with 2 inputs and 2 relay outputs @ 230V

BDH260
Optical beam smoke detector

EM3xx
Multi input/output modules with conventional line interface

24 VDC

FA100
Aspirating smoke detector



EM500xxx
Module for the creation of synoptic panels

EC0020
Manual call point

EC012E
Manual call point for outdoor use

SPS24xxx
Power supply stations

EWT100
Translator from loop to wireless devices

ES10xx
Visual/Audible alarm indicators, ceiling mount

ES20xx
Visual/Audible alarm indicators, wall mount

EM600
Home mute button

Accessories

These allow you to expand the control panel (additional cabinets) or to make installations according to cabling requirements.

PRCAB
ADD-ON CABINET

Complete with front plate (door), CAN DRIVE bar for the connection of function modules (max. 8), battery shelves. There are two openings on the front plate (door) in which two FPM modules can be located (if no particular functions are required, two blind modules FPMNUL can be added).

PRCABR Red cabinet

TECHNICAL SPECIFICATIONS			
Protection grade:	IP30	**Dimensions:**	433 x 563 x 187 mm
Housed batteries:	2 x 12 V 24 Ah o 2 x 12 V 17 Ah	**Weight (without batteries):**	10 Kg
		Package dimensions:	500 x 620 x 250 mm

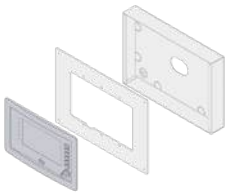
PRCABSP
KIT FOR DISTANCING THE CABINET FROM THE WALL

Pair of brackets for mounting the cabinet 5 cm from the wall, to be used for cable routing.

PRCABRK
KIT FOR MOUNTING CABINET TO 19” RACK

Bracket for fixing the cabinet inside a 19” rack.

PRREP
ENCLOSURE FOR MOUNTING FPMCPU MODULE AS REMOTE REPEATER



Comprises a brushed aluminium plate and a metal backbox, can be wall or surface mounted.

PRCABR Red cabinet

TECHNICAL SPECIFICATIONS	
Dimensions of Front plate (door):	368 x 256 x 2.5 mm
Dimension of Flush-mount backbox:	356 x 244 x 56 mm
Weight:	250 g

CASE-PRAEDEMO#1
DEMO CASE FOR THE PREVIDIA SYSTEM

Demo Case for Previdia Max system, practical case containing Previdia Max control panel and several already-connected Loop devices. Useful for technical trainings.

INDOCBOXPM
METAL DOCUMENT CASE

PRCABLCK200
EXTENDED CABLE KIT (2M) FOR CONNECTING TWO CABINETS SIDE BY SIDE

PREVIDIA-C-REP / PREVIDIA-C-REPE
REMOTE CONTROL KEYPAD (REPEATER)

EN54-2

PREVIDIA-C-REP with customizable 4.3" touchscreen LCD, buttons for basic functions and status LEDs Connects to the HORNET+ network (dual RS485 connection) or via ETHERNET TCP-IP network It provides detailed information about the entire network. Internal buzzer. Level 2 via key or code.

PREVIDIA-C-REPW Enclosure in white plastic
PREVIDIA-C-REPR Enclosure in red plastic

PREVIDIA-C-REPE provides, in addition, indication relating to the extinguishing channel.

PREVIDIA-C-REPEW Enclosure in white plastic
PREVIDIA-C-REPER Enclosure in red plastic

TECHNICAL SPECIFICATIONS

Power supply voltage:	19 / 30 V	**Version dimensions (S):**	210 x 132 x 32 mm
Stand-by current draw:	110mA	**Weight:**	330 g
Current draw during mains failure:	80mA		
Maximum current draw:	130mA		
Operating temperature:	-5° ... +40° C		

Accessory items for PREVIDIA-C-REP

C-REP-DEEPBOXW Deep base for C-REPW repeater installation, RAL9016 white colour

C-REP-DEEPBOXR Deep base for C-REPR repeater installation, RAL3001 red colour

C-REP-FLUSHBOXW Flush-mount base for C-REPW repeater installation, RAL9016 white colour. In combination with C-REP-DEEPBOXW

C-REP-FLUSHBOXR Flush-mount base for C-REPR repeater installation, RAL3001 red colour. In combination with C-REP-DEEPBOXR

C-REP-FRAMEW Flush-mount frame for C-REP-FLUSHBOXW. Enclosure in white plastic

C-REP-FRAMER Flush-mount frame for C-REP-FLUSHBOXR. Enclosure in red plastic

FPM modules
(Front Panel Module)

Compatible with the Previdia Max and Previdia UltraVoxm control panels, to be housed on the front plate (door) of the cabinets, a maximum of two for each cabinet.

FPMCPU
FRONT PANEL CPU MODULE AND REPEATER



Main control panel equipped with a 7" graphic 65000 colour touchscreen. This device manages the control panel and co-ordinates the various function modules. The module can also be used as a Remote keypad (Repeater) connected to the RS485 line of the Control panel (max 14 Repeaters in series) or via TCP-IP network. If used as a remote keypad the module must be combined with the PRREP enclosure.

- Ethernet connection for networking and remote control
- RS485 channel for repeaters (FPMCPU used as remote keypads - max. 14)
- RS485 port for interfacing with BMS, MODBUS RTU protocol management
- Mini USB Port for configuration via PC
- RS232 Port for configuration via PC
- Dual CPU, a main and a emergency backup that will take over in the event of fault
- Housing for the SD-card
- Customization of user interface, icons, buttons etc.

FPMCPU-L Light-grey plastic
FPMCPU-G Dark-grey plastic

TECHNICAL SPECIFICATIONS

Power supply voltage:	19 ÷ 30 V DC	**Dimensions:**	185 x 288 x 82 mm
Consumption @ 27.6 V:	stand-by 120 mA; max. 140 mA	**Weight (without batteries):**	900 g
Maximum output current:	@ 27.6 V 1 A	**Package dimensions:**	325 x 620 x 250 mm
Operating temperature:	-5° ... +40° C		

FPMLED
LED MODULE


Module equipped with 50 configurable tri-colour LED (green, yellow and red), it provides instant visual signals relating to the status of the various system elements (zones, points, etc.).

FPMLED-L Light-grey plastic
FPMLED-G Dark-grey plastic

TECHNICAL SPECIFICATIONS

Power supply voltage:	19 ÷ 30 V DC	**Dimensions:**	185 x 288 x 52 mm
Consumption @ 27.6 V:	stand-by 12 mA; max. 35 mA	**Weight (without batteries):**	690 g
Operating temperature:	-5° ... +40° C	**Package dimensions:**	325 x 620 x 250 mm

FPMLEDPRN
LED MODULE AND THERMAL PRINTER


Module equipped with 50 tri-colour LEDs as per the FPMLED module and an 56mm thermal printer. It provides real-time printouts of all system events.

FPMLEDPRN-L Light-grey plastic
FPMLEDPRN-G Dark-grey plastic

TECHNICAL SPECIFICATIONS

Power supply voltage:	19 ÷ 30 V DC	**Dimensions:**	185 x 288 x 52 mm
Consumption @ 27.6 V:	stand-by 45 mA; max. 45 mA	**Weight (without batteries):**	690 g
Operating temperature:	-5° ... +40° C	**Package dimensions:**	325 x 620 x 250 mm

FPMEXT

LED SIGNALLING MODULE FOR FIRE-EXTINGUISHING CHANNELS

If IFMEXT function modules are housed inside the control panel, it is mandatory to use one or more FPMEXT modules to visualize the status as indications separate from the display. Each FPMEXT module provides the signals from 5 IFMEXT extinction modules.

FPMEXT-L Light-grey plastic
FPMEXT-G Dark-grey plastic

TECHNICAL SPECIFICATIONS

Power supply voltage:	19 ÷ 30 V DC	**Dimensions:**	185 x 288 x 52 mm
Consumption @ 27.6 V:	stand-by 12 mA; max. 35 mA	**Weight (without batteries):**	690 g
Operating temperature:	-5° ... +40° C	**Package dimensions:**	325 x 620 x 250 mm

FPMNUL

BLIND MODULE

To be used to seal the apertures on the doors of the metal cabinet when specific functions are not required.

FPMNUL-L Light-grey plastic
FPMNUL-G Dark-grey plastic

TECHNICAL SPECIFICATIONS

Dimensions:	185 x 288 x 52 mm
Weight (without batteries):	690 g
Package dimensions:	325 x 620 x 250 mm

IFM Modules
(Internal Fire Module)

Compatible with the Previdia Max and Previdia UltraVox control panels, the IFM series modules must be inserted on the CAN DRIVE bar inside the cabinets (max. 8 IFM modules for each cabinet) in accordance the required functions.

IFM24160
SWITCHING POWER-SUPPLY MODULE

Connects to the mains power supply and supplies a maximum 4 A current to the system. Houses a 1.2 A battery charger capable of maintaining under charge two 17 Ah or 24 Ah batteries. Houses 2 supervised outputs and a relay output, both configurable (factory configured as alarm output, AUX output and fault signaling relay). Only one power supply module can be housed inside each metal cabinet. CPU dedicated to the control of the module and communication with the control-panel FPMCPU module.

TECHNICAL SPECIFICATIONS

Power supply voltage:	230 / 115 V~ (+10% -15%) 50/60 Hz	**Package dimensions:**	90 x 110 x 185 mm
Maximum current draw from mains:	1.1 A @ 230 V, 2 A @ 115 V	**Weight with packaging:**	1000g
Output voltage:	27.6 V		
Maximum available current:	5.2A		
Current for battery charger:	1.2A		
Batteries:	2x 12 V 24 Ah o 2x 12 V 17 Ah		
Consumption @ 27.6 V:	stand-by 20 mA, maximum 40 mA		
Maximum output current OUT1 and OUT2:	1.5 A @ 27.6 V		
Maximum current on relay:	5 A @ 30 V		
Operating temperature:	-5° ... +40° C		

IFM2L
MODULE FOR THE MANAGEMENT OF TWO LOOPS

Capable of managing up to 240 devices per Loop. The module contains a step-up switching power-supply module for each Loop, capable of maintaining the operating voltage (during alarm and stand-by conditions) at the set values. Each control panel manages up to 8 IFM2L modules

- CPU dedicated to the control of the module and communication with the control-panel FPMCPU module
- “Power up boosters” technology, possibility to set the operating voltage during stand-by and alarm status for each individual loop
- Communication protocol: Inim, ARGUS, APOLLO

TECHNICAL SPECIFICATIONS

Power supply voltage:	19 ÷ 30 V DC	**Dimensions:**	175 x 110 x 40 mm
Consumption @ 27.6 V:	stand-by 35 mA, max. 50 mA	**Package dimensions:**	180 x 125 x 50 mm
Maximum voltage on Loop:	0.5A	**Weight with packaging:**	280 g
Operating temperature:	-5° ... +40° C		

IFM4R

CONFIGURABLE 4 RELAY MODULE

Each relay supports a maximum load of 5 A @ MAX. 30 V. Each control panel can manage a maximum of 16 IFM4R modules.

- CPU dedicated to the control of the module and communication with the control-panel FPMCPU module
- 4 relays (NC / C / NO)

TECHNICAL SPECIFICATIONS

Power supply voltage:	19 ÷ 30 V DC	**Dimensions:**	175 x 110 x 40 mm
Consumption @ 27.6 V:	stand-by 10 mA, max. 80 mA	**Package dimensions:**	180 x 125 x 50 mm
Maximum current on relay:	5 A @ 30 V	**Weight with packaging:**	280 g
Operating temperature:	-5° ... +40° C		

IFM4IO

4 POWER INPUT/OUTPUT MODULE

Each control panel can manage a maximum of 16 IFM4IO modules. Each of the 4 channels can be configured as:

- supervised output capable of supplying a maximum current of 1 A @ 27.6 V, configurable
- supervised input capable of activating warning, pre-alarm and alarm signals, configurable
- conventional zone capable of managing a line of conventional detectors, maximum 32 detectors, configurable
- 4-20 mA input capable of reading 4-20 mA detector signals; settable intervention thresholds, configurable
- CPU dedicated to the control of the module and communication with the control-panel FPMCPU module
- 4 fully-programmable I/O terminals

TECHNICAL SPECIFICATIONS

Power supply voltage:	19 ÷ 30 V DC	**Dimensions:**	175 x 110 x 40 mm
Consumption @ 27.6 V:	stand-by 22 mA, max. 170 mA	**Package dimensions:**	180 x 125 x 50 mm
Maximum voltage on I/O:	1 A @ 27.6 V	**Weight with packaging:**	280 g
Operating temperature:	-5° ... +40° C		

IFMDIAL4G

PSTN AND GSM REMOTE COMMUNICATOR MODULE

It is capable of sending voice calls resulting from on-board recorded messages and digital calls via the most widely used protocols (SIA, Contact ID, etc.). This module is also capable of sending SMS messages with detailed texts relating to the saved events. Each control panel manages one IFMDIAL module only.
Note - GSM antenna not supplied. Available as an accessory: LTE-ANT100B.

- CPU dedicated to the control of the module and communication with the control-panel FPMCPU module
- GSM antenna connector (requires GSMANT200N antenna)
- Housing for the SIM-card
- Frequency bands for IFMDIAL4G: 850, 900, 1800 e 1900 Mhz; Frequency bands for IFMDIAL4G:
- 1 terminal for the connection of the internal telephone line
- 1 terminal for the connection of the external telephone line (PSTN)
- 100 voice messages on-board (up to 15 min.) recordable via software with text-to-speech or wav file
- Up to 100 telephone actions
- 100 customizable SMS text messages
- Automated SMS text
- Integrated automatic digital communicator (Contact ID, ADEMCO etc.)
- 15 telephone numbers for dialler functions (voice, digital, SMS)

LTE-ANT100B High performance GSM antenna, white.

TECHNICAL SPECIFICATIONS

Power supply voltage:	19 ÷ 30 V DC	**Dimensions:**	175 x 110 x 40 mm
Consumption @ 27.6 V:	stand-by 30 mA, max. 250 mA	**Package dimensions:**	180 x 125 x 50 mm
Operating temperature:	-5° ... +40° C	**Weight with packaging:**	280 g
Band frequency	LTE-FDD: B1/B3/B5#/B7/B8/B20/B28# GSM: GSM/GPRS/EDGE 900/1800 MHz		

IFM16IO

16 LOW-POWER INPUT/OUTPUTS MODULE

Each control panel is capable of managing up to 4 IFM16IO modules. This module also provides terminals for the ancillary power @ 27V. Each channel can be configured as:

- Digital input (non supervised) activated with voltage present
- Digital output (non supervised) capable of supporting a maximum load of 100 mA @ 30 V DC
- CPU dedicated to the control of the module and communication with the control-panel FPMCPU module
- 16 input/output connection terminals
- 2 terminals for power supplying to external loads

TECHNICAL SPECIFICATIONS

Power supply voltage:	19 ÷ 30 V DC	**Dimensions:**	175 x 110 x 40 mm
Consumption @ 27.6 V:	stand-by 12 mA, max. 25 mA	**Package dimensions:**	180 x 125 x 50 mm
Operating temperature:	-5°C ... +40°C	**Weight with packaging:**	280g

IFMNET

MODULE FOR THE CONNECTION OF MORE CONTROL PANELS IN A HORNET+ NETWORK (UP TO 48)

Provides two RS485 ports for connection with other control panels; the wiring must be completed in a closed loop. RS485 speed settable from 9600 to 512k baud, a 12 V output is provided for the power supply to eventual RS485 optic fiber converters. Each control panel manages one IFMNET module only. All the interconnected control panels in the network must be equipped with an IFMNET module.

- CPU dedicated to the control of the module and communication with the control-panel FPMCPU module

TECHNICAL SPECIFICATIONS

Power supply voltage:	19 ÷ 30 V DC	**Dimensions:**	175 x 110 x 40 mm
Consumption @ 27.6 V:	60mA	**Package dimensions:**	180 x 125 x 50 mm
Maximum output current 12 V:	0.8A	**Weight with packaging:**	280 g
Operating temperature:	-5° ... +40° C		

IFMLAN

ADVANCED TCP-IP SERVICE MANAGEMENT MODULE

Each control panel manages one IFMLAN module only. Allows a second control panel connection to the Ethernet network and provides the following services:

- Connection to Inim Fire Cloud
- Web-server for control, management and maintenance of the system accessible via PC/ smartphone
- Sends emails in response to each system event
- Up to 32 email addresses and/or IP addresses for notifications
- Dual CPU, one dedicated to control of the module and communication with the control-panel FPMCPU module, the other with LINUX operating system dedicated to the control of the IP connection
- Ethernet port for a second TCP-IP connection
- RS485 and RS232 port
- Housing for the SD-card (max. 32Gb)
- Up to 100 actions
- Videoverification of alarms, with eventual sending of emails with photoshot attachments
- Manages up to 100 IP cameras (ONVIF, profile S)
- Manages SIA-IP, IP BACNet (requires PRBAC-IP license), ESPA 4.4.4, NTP, UPnP, SSL protocol
- Manages voice evacuation systems through IP interface or RS232

TECHNICAL SPECIFICATIONS

Power supply voltage:	19 ÷ 30 V DC	**Dimensions:**	175 x 110 x 40 mm
Consumption @ 27.6 V:	45mA	**Package dimensions:**	180 x 125 x 50 mm
Operating temperature:	-5° ... +40° C	**Weight with packaging:**	280 g

IFMEXT

MODULE FOR THE MANAGEMENT OF A GAS EXTINCTION CHANNEL.

Provides terminals for the management of devices which are commonly requested in this type of installation together with the adequate activation logic. The various functions available on the terminals can be replicated on devices connected to the loop (with the exception of control of the electrovalve). Each control panel manages up to 24 IFMEXT modules. The modules must be associated with the FPMEXT signalling panel. Each FPMEXT module reports the visual signals of a maximum of 5 IFMEXT modules.

- CPU dedicated to the control of the module and communication with the control-panel

FPMCPU module

- 1 input terminal for PRESSOSTATE SWITCH control with programmable functions
- 1 input terminal for STOP EXTINCTION with programmable functions
- 1 input terminal for MANUAL EXTINCTION
- 1 output terminal for VALVE command
- 1 output terminal for HOLD extinction signal
- 1 output terminal for PRE-EXTINCTION signal
- 1 output terminal for gas RELEASED signal

TECHNICAL SPECIFICATIONS

Power supply voltage:	19 ÷ 30 V DC	**Dimensions:**	175 x 110 x 40 mm
Consumption @ 27.6 V:	stand-by 30 mA, max. 80 mA	**Package dimensions:**	180 x 125 x 50 mm
Maximum current on VALVE output:	2 A @ 27.6 V	**Weight with packaging:**	280 g
Maximum current on output:	1 A @ 27.6 V		
Operating temperature:	-5° ... +40° C		

Previdia UltraVox

Analogue-addressable fire control panel with integrated fire detection and EVAC functions

Previdia UltraVox control panels add Voice Evacuation and Public Address functions to the functions shared by the other two models in the range. Previdia UltraVox models house the CANDRIVE+ connection bar inside their cabinets and are compatible not only with the function modules described below, but also with the FPM (Front Panel Module) and IFM modules (Internal Fire Module) of the Previdia Max model.

TECHNICAL SPECIFICATIONS

Power supply voltage:	90 ~ 264 V AC / 47 ~ 63 Hz	**Dimensions:**	677 x 432 x 266 mm
Maximum current draw:	8.5 A @ 115 V AC / 5A @ 230 V AC	**Weight without batteries:**	23 Kg
Output voltage:	26 V DC nominal / 20 - 27.6 V	**Cabinet colour:**	grey RAL7042 / red RAL3001
Output voltage on speaker lines:	100 Vrms	**IP protection grade:**	IP30
Max output current from the power supply module:	38A	**Maximum power manageable:**	1000 W for each power-supply module
Current available for the system:	35A		
Maximum battery-charge current:	3A		
Batteries:	2 x 12 V 17 Ah / 2 x 12 V 24 Ah / 2 x 12 V 38 Ah		
Operating temperature:	-5° C .. 40° C		

See the data sheet online

EN54 certified

It has obtained all the certifications applicable to control systems for fire detection and alarm systems, control equipment for extinguishing systems and control systems for EVAC voice evacuation systems.

EN54-2, EN54-4, EN54-16 EN54-21, EN12094-1, EN54-13.

Integrated system

Combines the functions of fire detection and alarm signalling, extinguishing control, gas detection, emergency lighting with PA functions (Public addressing - audio entertainment) and VA (Voice Alarm or EVAC) functions.

Digital audio

Thanks to the DSP inside its audio matrix, it is capable of processing a multitude of external analogue audio sources and audio files saved to its memory.

Shared audio

Network shared digital audio, up to 50 digital audio tracks can be shared amongst the various nodes of the IDANET network.

Class D amplifiers

Up to 30 Class D amplifier modules per control panel characterized by high efficiency and a maximum power of 250W each.

Easy

A single control panel capable of controlling all the security functions of the building. Configuring evacuation procedures with control interfaces becomes very easy.

Reliable

Loop management modules equipped with “power up booster” to set the operating voltage of each individual circuit, ensuring reliability and cabling simplicity.

Flexible

Thanks to its modular architecture, it adapts to any type of installation, from small business premises to airports, large hotels and shopping malls. Each control panel can be made up of a maximum of four cabinets and is capable of managing up to 32 IFM or IFAM modules.

Intelligent

Based on a distributed intelligence architecture with a microprocessor inside each module.
Redundant microprocessor in main unit, DSP for audio processing in audio matrix module.

Structured

The architecture allows the creation of hybrid networks based on connection via twisted pair cable, optical fiber and TCP-IP in order to share all the information and audio tracks (audio shared only within the IDANET network) among the various nodes. Each Hornet+ or IDANET network cluster can connect up to 48 control panels, up to 20 clusters can be interconnected via TCP-IP network.

Robust

HOT SWAP technology allows the “hot” replacement or addition of modules (without shutting down the system) for quick, safe intervention and without interrupting service. Manages Backup Amplifier without any additional wiring.

Intuitive

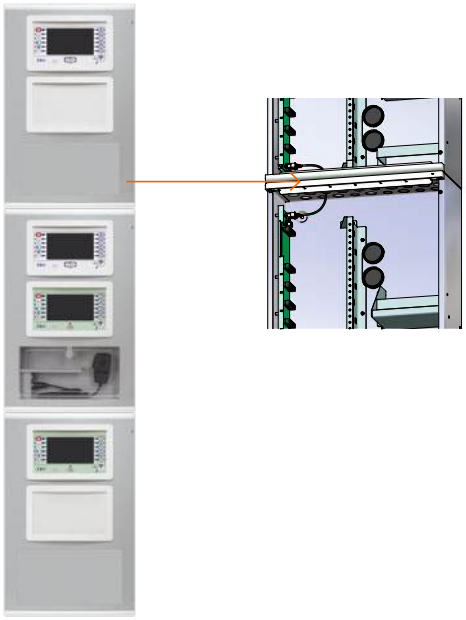
Thanks to the dual LCD, graphic maps, video verification, it drastically reduces response and intervention times. The EVAC section user interface can be configured to increase ease-of-use or flexibility, depending on the technical preparation of the personnel in charge.

Multimedia

Web-server, e-mail, TCP-IP connections, Cloud, APP for SmartPhones, telephone and GSM communications, allow system control on hand at all times. Both for the end-user and control and maintenance personnel.

Single cabinet systems

The control panel can house the FPM or FPAM modules on the front plate. In the single cabinet configuration the UltraVox version is supplied with two control modules: FPMCPU for fire functions and FPAMIAS for PA-VA functions. The CANDRIVE+ interconnection bar is located Inside the cabinet and provides placements for up to 8 IFM or IFAM modules.



Multi-cabinet control panels

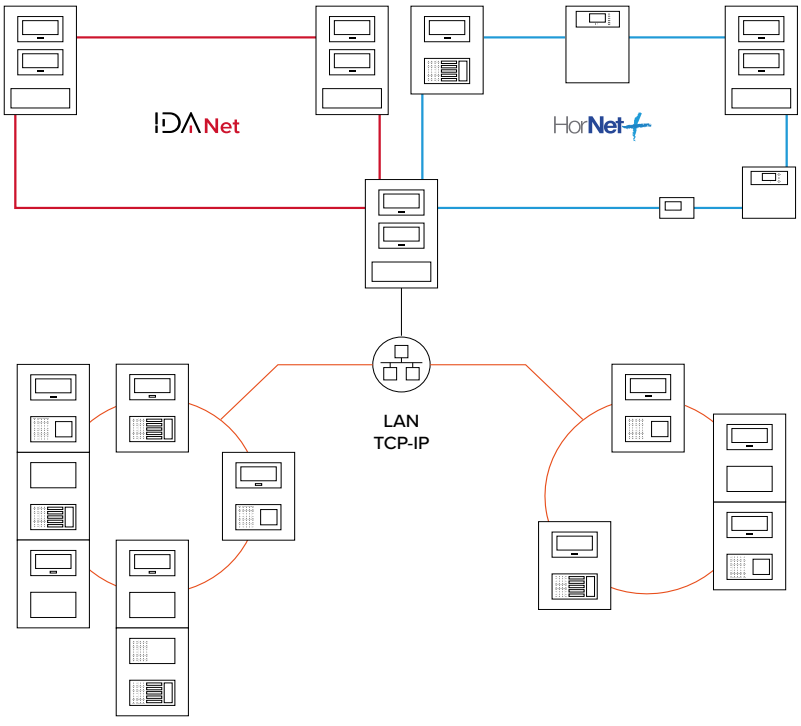
In order to expand the capacity of each control panel, several cabinets (maximum 4) can be assembled together to form a cabinet of increased dimensions.

The cabinets must be joined using the screws provided and, once mechanically joined, the CANDRIVE+ bars must be connected to each other via the supplied cables.

Once several cabinets have been joined together there will be multiple placements for FPM or FPAM front panel modules or IFM or IFAM modules. Each cabinet can house an IFAMPSU power-supply module.

Control panels in a HORNET+ network

HORNET+ technology allows network connection between Previdia UltraVox, Previdia Max and Previdia Compact control panels. Based on token ring architecture, each section is based on RS485 and must be made using a shielded twisted pair (Ethernet cable) up to a distance of 500m. This allows the sharing of all the system information but not the audio tracks.



Control Panels in an IDANET network

IDANET technology, based on ring architecture in which each section can be made using CAT5 Ethernet cable (up to 100m) or via optical fiber (by inserting an appropriate SFP module depending on the type of fiber used), as well as sharing all information between the various control panels and effectively making them a single system, it is also capable of sharing up to 50 audio tracks, allowing sound sources to be conveyed from one node of the system to another.

Control Panels in an IP network

Each “cluster” created using IDANET or HORNET+ technology (or single control panel) can be connected via TCP-IP with up to a maximum of 20 other clusters. This type of networking makes it possible to take advantage of existing LAN networks in order to interconnect control panels with each other.

Colour display

Dual 7” 65,000 colour touchscreen for integrated management of fire detection and alarm functions, GAS extinguishing, EVAC (Vocal Evacuation), Public Address (Sound broadcasting and audio entertainment).

Audio management

Manages 8 local digital audio tracks and 8 digital audio tracks coming from the network, up to 30 class D 250W amplifiers.

1000 zones

Up to 1000 audio zones, causes and effects subordinate to the fire detection system, advanced management of audio entertainment (via IASS server and IAC APP).

Self-powered

1000 W power supply included expandable up to 4000 W (by adding PRCAB+ cabinet).

Internal memory

Internal Audio Memory for emergency and customizable messages, SD Card for additional audio, 2 Music inputs, 2 AUX inputs with priority acquisition via contact or on signal level.

Safe

Impedance control of the speaker lines by pilot tone, management of A/B lines, ring with optional isolators and reserve amplifier.

Expandable

Possibility of interconnecting up to a maximum of 4 cabinets, up to 32 IFM or IFAM internal modules and 8 FPM or FPAM frontal modules.

Certified

- Certification CPR / IMQ
- Certification EN54 pt2 / 4 /16 / 21 / 13
- Certification EN12094-1 (fire extinguishing systems) up to 24 channels

Previdia UltraVox

Basic control panel with fire detection and voice evacuation functions, to which the FPM, FPAM, IFM and IFAM function modules can be added. The cabinet, model PRCAB+, is complete with plastic front plate (door) and housing for the PTT microphone and optional emergency telephone.

FPMCPU

Control panel with display for fire detection and alarm functions

FPAMIAS

Control panel with display for EVAC voice functions and public address

IFAMPSU

1000 W power-supply module with battery charger

IFAMEVAC

Audio matrix module for signals processing

IFAMAMP

Amplifier module 250 W

IFM2L

2 loop module

Previdia Ultra

Basic control panel with fire detection functions only to which the FPM, FPAM, IFM and IFAM function modules can be added. The cabinet, model PRCAB+, has no plastic front plate (door) or housing for the PTT microphone and emergency optional telephone.

FPMCPU

Control panel with display for fire detection and alarm functions

IFAMPSU

1000 W power-supply module with battery charger

IFM2L

2 loop module

Previdia Vox

Basic control panel with only voice evacuation functions to which the FPM, FPAM, IFM and IFAM function modules can be added. The cabinet, model PRCAB+, is complete with plastic front plate (door) and housing for the PTT microphone and optional emergency telephone.

FPAMIAS

Control panel with display for EVAC voice functions and public address

IFAMPSU

1000 W power-supply module with battery charger

IFAMEVAC

Audio matrix module for signals processing

IFAMAMP

Amplifier module 250 W

ORDER CODES	FIRE DETECTION	VOICE EVACUATION AND PUBLIC ADDRESSING	CABINET COLOUR		POWER SUPPLY RATING
			GREY	RED	
Previdia-ULTRA216	✓		✓		1000 W
Previdia-ULTRA216R	✓			✓	1000 W
Previdia-VOX		✓	✓		1000 W
Previdia-VOXR		✓		✓	1000 W
Previdia-UltraVox	✓	✓	✓		1000 W
Previdia-UltraVoxR	✓	✓		✓	1000 W
Previdia-Ultra216LP	✓		✓		160 W
Previdia-Ultra216LPR	✓			✓	160 W

Control panel diagram Previdia UltraVox

PREVIDIA ULTRAVOX
Fire detection control panel with integrated EVAC functions

PRCAB+
Add-on cabinet
UP TO 3 PER CONTROL PANEL

FPMLED
LED module

FPMLEDPRN
LED module and thermal printer

FPMEXT
LED signalling module for 5 fire-extinguishing channels

FPMCPU
Add-on CPU module for backup

IFMNET
Module for the connection in HorNet+ network

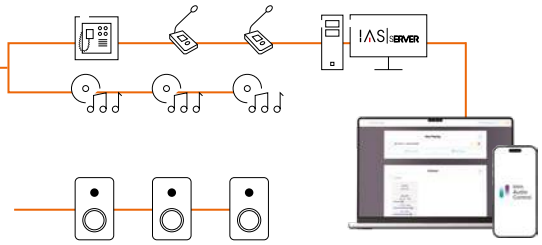
HorNet+

PREVIDIA ULTRAVOX
Fire detection control panel with integrated EVAC functions

IFAMIDANET
Module for the connection in IDANet network

IDA Net

IFAMEVAC
Audio matrix module



IFAMAMP
250W audio amplifier module
UP TO 30 PER CONTROL PANEL

IFM2L
Module for the management of 2 loops
UP TO 8 PER CONTROL PANEL

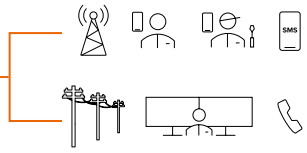
IFAMFFT
Module for the management of emergency telephones
UP TO 4 PER CONTROL PANEL

IFMEXT
Module for the management of an extinguishing channel
UP TO 24 PER CONTROL PANEL

IFM16IO
16 low-power input/outputs module
UP TO 4 PER CONTROL PANEL

IFM4R
4 configurable relays module
UP TO 16 PER CONTROL PANEL

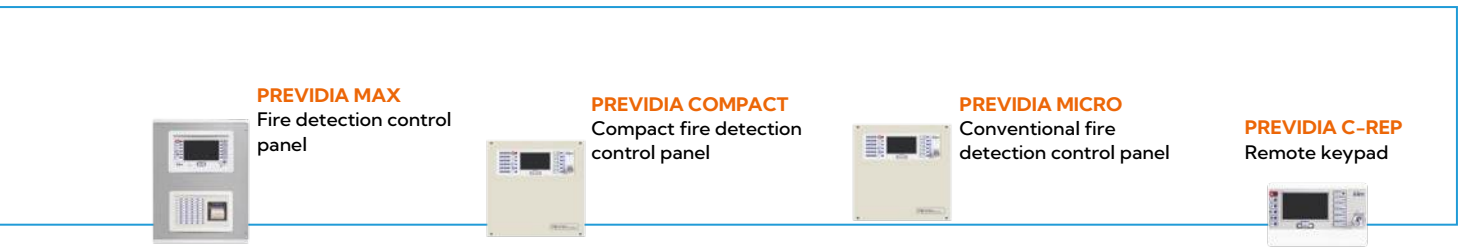
IFMDIAL4G
PSTN & GSM remote communicator module



IFM4IO
4 power input/output module
UP TO 16 PER CONTROL PANEL

IFMLAN
Advanced TCP-IP service management module

IFAMPSU
1000W SWITCHING POWER SUPPLY MODULE



PREVIDIA MAX
Fire detection control panel

PREVIDIA COMPACT
Compact fire detection control panel

PREVIDIA MICRO
Conventional fire detection control panel

PREVIDIA C-REP
Remote keypad

ED100
Smoke detector

ED200
Heat detector

ED300
Smoke and heat detector

EBS1xxx
Mounting bases with visual and audible signalling capacity

IL0010
Remote indicator

230 V_{AC}

SIGNALLING DEVICES AND EMERGENCY LIGHTING

EM312SR
Input/Output module

EM110
Input module

EM411R
Conventional zone interface module

24 V_{DC}

INE7xx
ATEX certified GAS detectors

EU311x
Input/output micromodules

24 V_{DC}

ING7xx
GAS detectors

EM322AC
Module with 2 inputs and 2 relay outputs @ 230V

BDH260
Optical beam smoke detector

EM3xx
Multi input/output modules with conventional line interface

EM500xxx
Module for the creation of synoptic panels

24 V_{DC}

FA100
Aspirating smoke detector

EC0020
Manual call point

EC012E
Manual call point for outdoor use

230 V_{AC}

EM600
Home mute button

SPS24xxx
Power supply stations

EWT100
Translator from loop to wireless devices

ES10xx
Visual/Audible alarm indicators, ceiling mount

ES20xx
Visual/Audible alarm indicators, wall mount

Accessories

These allow you to expand the control panel (additional cabinets) or to make installations according to cabling requirements.

PRCAB+
ADD-ON CABINET

Complete with door, CAN DRIVE+ bar for the connection of function modules, battery shelves. The door provides two apertures for two FPM modules (if certain functions are not required, two FPMNUL modules can be used to seal the apertures). The cabinet is supplied without the housing for the PTT microphone.

PRCAB+R Red cabinet

PRCAB+ Grey cabinet

TECHNICAL SPECIFICATIONS			
Supported battery:	2 x 12 V 17 Ah 2 x 12 V 24 Ah 2 x 12 V 38 Ah	**Dimensions:**	675 x 430 x 260 mm
Protection grade:	IP30	**Weight (without batteries):**	10 Kg
		Cabinet colour:	Grey RAL7042 Red RAL3001

PRCABRK+
KIT FOR MOUNTING CABINET TO 19” RACK

Bracket for fitting the PRCAB+ cabinet and Previdia-UltraVox control panels inside a 19” rack.

PRCABRK+ Grey color

FPAM modules
(Front Panel Audio Module)

Control panels from the Previdia UltraVox series, in addition to managing the FPM series front panel modules illustrated in the Previdia Max section, can also house the FPAM front panel modules with audio functions listed below. The modules from the FPM and FPAM series are housed on the cabinet front plate, maximum two per cabinet.

FPAMIAS
MAIN CONTROL UNIT FOR EVAC FUNCTIONS

Main control panel for voice EVAC functions. Mounts to the front plate and, if housed in the upper opening, connects to the CANDRIVE+ bar. If housed in the lower opening, it connects to the FPM module in the upper opening. Equipped with a graphic colour touch screen. It deals with the management and coordination of the various function modules assigned to it. A single Previdia UltraVox control panel can house only one of these modules.

- Ethernet connection for remote control
- Mini USB Port for configuration via PC
- Housing for the MicroSD-card
- Customization of user interface, icons, buttons etc.
- Connection with push-to-talk microphone and emergency telephone (optional) on the front panel
- Monitor speaker for listening to audio sources
- Status LEDs and function keys for evacuation management.

TECHNICAL SPECIFICATIONS			
Power supply voltage:	19÷30 V DC	**Dimensions:**	185 x 288 x 82 mm
Consumption @ 27.6 V:	stand-by 110 mA	**Weight:**	900 g
Current draw in the event of main failure:	stand-by 60 mA	**Package dimensions:**	32.5 x 62 x 25 cm
Operating temperature:	-5° ... +40° C		

PREVIDIA-C-REP / PREVIDIA-C-REPE
REMOTE CONTROL KEYPAD (REPEATER)

PREVIDIA-C-REP with customizable 4.3” touchscreen LCD, buttons for basic functions and status LEDs Connects to the HORNET+ network (dual RS485 connection) or via ETHERNET TCP-IP network It provides detailed information about the entire network. Internal buzzer. Level 2 via key or code.

PREVIDIA-C-REPW Enclosure in white plastic
PREVIDIA-C-REPR Enclosure in red plastic

PREVIDIA-C-REPE provides, in addition, indication relating to the extinguishing channel.

PREVIDIA-C-REPEW Enclosure in white plastic
PREVIDIA-C-REPER Enclosure in red plastic

TECHNICAL SPECIFICATIONS

Power supply voltage:	19 / 30 V	**Version dimensions (S):**	210 x 132 x 32 mm
Stand-by current draw:	110mA	**Weight:**	330 g
Current draw during mains failure:	80mA		
Maximum current draw:	130mA		
Operating temperature:	-5° ... +40° C		

Accessory items for PREVIDIA-C-REP

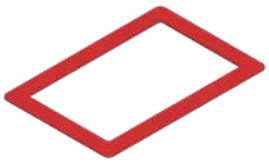
C-REP-DEEPBOXW Deep base for C-REPW repeater installation, RAL9016 white colour

C-REP-DEEPBOXR Deep base for C-REPR repeater installation, RAL3001 red colour

C-REP-FLUSHBOXW Flush-mount base for C-REPW repeater installation, RAL9016 white colour. In combination with C-REP-DEEPBOXW

C-REP-FLUSHBOXR Flush-mount base for C-REPR repeater installation, RAL3001 red colour. In combination with C-REP-DEEPBOXR

C-REP-FRAMEW Flush-mount frame for C-REP-FLUSHBOXW. Enclosure in white plastic



C-REP-FRAMER Flush-mount frame for C-REP-FLUSHBOXR. Enclosure in red plastic

IFAM function modules

(Internal Fire Audio Module)

Previdia UltraVox control panels, in addition to housing the IFM internal modules described in the Previdia Max section, can house the IFAM internal modules with the audio functions listed below. IFM or IFAM series modules connect to the CANDRIVE+ bar on the inside of the cabinets (max. 8 IFM modules per cabinet) depending on the required functions.

IFAMPSU

1000W SWITCHING POWER SUPPLY MODULE

It connects to the mains power supply and supplies a maximum 38 Ah current to the system. Houses a 3 A battery charger capable of maintaining under charge two 17 Ah, 24 Ah or 38 Ah batteries. It has two supervised outputs and a configurable relay output (at factory default configured as Alarm output, AUX output and fault signalling relay). Only one power supply module can be housed inside each metal cabinet. Each control panel manages a maximum of 4 power supply modules (one for each eventual cabinet).

- CPU dedicated to the control of the module and communication with the control-panel

FPMCPU module

- Control and monitoring of batteries
- Efficiency up to 94%

TECHNICAL SPECIFICATIONS	
Power supply voltage:	90 ~ 264 V AC / 47 ~ 63 Hz
Maximum current draw:	8.5 A @ 115 V AC / 5A @ 230 V AC
Output voltage:	26 V DC nominal / +/- 10%
Ripple max:	200m Vp-p
Power factor:	0.95 @ 230 V AC / 0.99 @ 115 V AC at full load
Overvoltage protection:	105 ~ 135% of the declared potential
Overvoltage protection:	29 ~ 33 V
Overheating protection:	output voltage suspension, reactivation to reset temperature
Max. total current Imax b:	38A
Max. current for battery charger:	3A
Max. current destined for the Imax a system:	35A
Max. current on each output (out 1 and out 2):	1.5 A @ 27.6 V DC
Maximum current on relay:	5 A, 30 V DC
Consumption of batteries in the event of mains network failure:	30mA

IFAMIDANET

MODULE FOR THE CONNECTION IN IDANET NETWORK

Provides two RJ45 sockets for the connection via CAT5 Ethernet cable (for distances up to 100m) and two sockets for housing SFP modules for the fiber optic connection. **Attention: the SFP modules must be of the type SFP - 100 BASE - FX.** It allows the connection of up to 48 control panels and can share, along with all the system information, up to a maximum of 20 audio tracks.

- Ring connection (Token Ring)
- Automatic network configuration
- Complete sharing of information with control panels
- Automatic priority management of shared audio tracks
- Hot arming/disarming (HOT SWAP)
- Max. one IFAMIDANET module per control panel

TECHNICAL SPECIFICATIONS	
Power supply voltage:	20 - 30 V DC (powered by the CANDRIVE+ bar)
Maximum current draw:	80mA
Max current draw with fiber connections:	80 mA + consumption SFP modules (@ 3.3 V) divided by 7 (typically about 15 mA x each converter)

IFAMAMP

250W AUDIO AMPLIFIER MODULE

It provides two lines for connecting speakers configurable in A/B mode or in loop mode, each line is protected separately against short circuit. The impedance of the speaker line is supervised by a high frequency tone. Includes an analogue input for an audio source with adjustable priority for the amplifier line only. Automatic management of any backup amplifier included in the cabinet. Each control panel manages a maximum of 30 IFAMAMP modules (maximum 8 for each cabinet).

- Class D amplifier
- Can be configured as a backup power-supply
- Local audio input with configurable priority for audio sources intended for the amplifier speaker line only
- Hot arming/disarming on the CANDRIVE+ bar
- Volume and 3-band equalization separately adjustable for sources such as music, voice announcements, emergency

TECHNICAL SPECIFICATIONS

Power supply voltage:	20-30 V DC (powered by the CANDRIVE+ bar)
Maximum current draw:	530 mA (14 W)
Absorption in the event of mains power failure:	100 mA (2.5 W) max.
Max. current draw:	3 A (250 W + 14 W)
Speaker output voltage (Line A / Line B):	100 Vrms max.
Maximum load on speaker lines (Line A / Line B):	250 W max. total - minimum load 40 Ω total
Vin local audio input:	Max. 1 Vrms (UNBALANCED – BETWEEN + and GND or BEETWEEN – and GND)
Local audio input impendance:	10 kΩ
Frequency response:	60 - 20000 Hz
Separate volume adjustment for sources: Music / voice announcements / emergency:	+10 / -40 dB
Separate 3-band equalization for sources: Music / voice announcements / emergency:	+6 / -40 dB

IFAMEVAC

AUDIO MATRIX MODULE

Manages the digital processing of all audio sources, and has:

- 2 analog inputs for external sound sources (MUSIC1 and MUSIC 2)
- 2 analogue inputs for external sound sources (AUX1 and AUX2) with priority enrollment via the “pr” input or via signal level
- Internal flash memory with 4 minutes of audio. Pre-configured with emergency messages in different languages, customizable via configuration software
- SD card slot for user-defined audio files
- 2 lines for standard or emergency microphone bases (max 64 per line), connection to the Ethernet network for interaction with IASS and IAS-APP servers
- Hot arming/disarming (HOT SWAP)
- Ethernet/TCP-IP input for up/downloading of audio messages and connection with the IASS server
- RJ45 connector for connection with PTT microphone and emergency telephone, housed on the front panel of the control panel
- Volume adjustment and 3-band equalization of external audio sources

TECHNICAL SPECIFICATIONS

Power supply voltage:	20 - 30 V DC
Maximum current draw:	100mA
MUSIC1, MUSIC2, AUX1, AUX2 Vin audio input:	Max. 1 Vrms (UNBALANCED – BETWEEN + and GND or BEETWEEN – and GND)
MUSIC1, MUSIC2, AUX1, AUX2 audio input impedance:	10 kΩ
PR AUX 1 AND AUX 2 inputs:	clean contact to GND
PAGER A / PAGER B line:	Max. 64 bases per line / max 1A per line / Max. 500m total per line

IFAMFFT

MODULE FOR THE MANAGEMENT OF EMERGENCY TELEPHONES

Provides N°4 lines for the connection of emergency telephones (max 64 for each Line), lifting one of the telephones connected to the lines signals a chat request on the front panel, the chat request can be accepted via the display, it is possible to carry out a chat session with a maximum of 4 incoming calls. Each control panel manages up to 4 IFAMFFT modules.

- It can be plugged into the CANDRIVE+ bar of Previdia UltraVox cabinets
- Up to 64 emergency telephones in parallel for each line
- Max. 4 IFAMFFT module per control panel for a maximum of 16 emergency telephone lines
- Line connection via twisted pair cable

TECHNICAL SPECIFICATIONS	
Power supply voltage:	20-30 V DC (powered by the CANDRIVE+ bar)
Maximum current draw:	80mA

EDS-205A

5-PORT ETHERNET SWITCH

Industrial 5-port Ethernet switch hooks onto the DIN rail inside the Previdia Ultra control panel. Starting from a single Ethernet cable redistributes the connection to all the control panel modules.

TECHNICAL SPECIFICATIONS	
Power supply voltage:	9.6 - 60 V DC
Maximum current draw:	0.09 A @ 24 V DC
No. Ports:	5

Microphone bases

They can be connected to the IFAMEVAC module via FTP CAT6 cable on the two dedicated lines. Available in standard or emergency models. Powered by the line (max 1 A) or by local power supply (IPS24024DT for standard bases or IPS24060 for emergency bases). Configurable buttons for selection of zone groups or recorded messages, with voice filter option.

IPG12

NON EMERGENCY BASE WITH 12 SELECTION BUTTONS

- 12 configurable buttons for selecting zones or groups of zones or recalling pre-recorded messages
- Gooseneck microphone (not supplied);
- Button to open audio with disengagement on release
- Button to open audio with hold until the next press
- Local power input (optional)
- Can be fitted into worktops

IPG24

NON EMERGENCY BASE WITH 24 SELECTION BUTTONS

- 24 configurable buttons for selecting zones or groups of zones or recalling pre-recorded messages
- Gooseneck microphone (not supplied);
- Button to open audio with disengagement on release
- Button to open audio with hold until the next press
- Local power input (optional)
- Can be fitted into worktops

IPGE06

EMERGENCY BASE WITH 6 SELECTION BUTTONS

- 6 configurable buttons for selecting zones or groups of zones or recalling pre-recorded messages
- Alert, fault and bypass indicators for each zone
- Protected button for manual emergency activation
- Buttons and indicators for the activation of the staff-alert phase, warning and evacuation by zone
- Button for total arming or arming by single zone
- Button to mute messages
- Button to mute local signalling
- Local alert buzzer
- Can be housed in the IPGECAB cabinet;
- Can be used with Gooseneck microphone (not supplied) for desktop solutions or with PTT MICROPHONE (not supplied) for appilication in the IPGECAB cabinet. Button to open audio with disengagement on release
- Button to open audio with hold until the next press
- Local power input (optional)
- Can be fitted into worktops

IPGE18

EMERGENCY BASE WITH 18 SELECTION BUTTONS

- 18 configurable buttons for selecting zones or groups of zones or recalling pre-recorded messages
- Alert, fault and bypass indicators for each zone
- Protected button for manual emergency activation
- Buttons and indicators for the activation of the staff-alert phase, warning and evacuation by zone
- Button for total arming or arming by single zone
- Button to mute messages
- Button to mute local signalling
- Local alert buzzer
- Can be housed in the IPGECAB cabinet;
- Can be used with Gooseneck microphone (not supplied) for desktop solutions or with PTT MICROPHONE (not supplied) for appilication in the IPGECAB cabinet. Button to open audio with disengagement on release
- Button to open audio with hold until the next press
- Local power input (optional)
- Can be fitted into worktops

IPGEXP24

24 BUTTONS EXPANSION FOR NON-EMEGENCY MICROPHONE BASES

- To be connected to the line of microphone bases and configured as an extension of the zone selection buttons of a non-emergency base
- A maximum of 63 expansions can be associated with each microphone base bringing the maximum number of manageable zones to over a thousand zones
- Each button can be configured for the selection of zones or groups of zones that will be addressed by opening the sound on the reference microphone base.

IPGEEXP24

24 BUTTONS EXPANSION FOR EMEGENCY MICROPHONE BASES

- To be connected to the line of microphone bases and configured as an expansion of the zone selection buttons of an emergency base
- A maximum of 63 expansions can be associated with each microphone base bringing the maximum number of manageable zones to over a thousand zones
- Each button can be configured for the selection of zones that will be addressed by opening the sound on the reference microphone base
- They can be housed inside a metal cabinet for emergency microphone bases (IPGECAB-D or IPGECAB-DR models), to be installed below the one containing the reference microphone base

Accessories

SFP15502KM

SFP CONVERTERS FOR MULTI-MODE FIBER OPTIC CONNECTION – 2 KM

SFP module for IDANET fiber optic multimode connection, 100 Mb/S FX+ 1310 nm LC DDM MMF. Maximum point-to-point link distance: 2 km.

SFP15520KM

SFP CONVERTERS FOR SINGLE-MODE FIBER OPTIC CONNECTION – 20 KM

SFP module for IDANET fiber optic single-mode connection, 100 Mb/S FX+ 1310 nm LC DDM MMF. Maximum point-to-point link distance: 20 km.

IPG-GOOSENECK

FLEXIBLE GOOSENECK MICROPHONE STAND

For use with the microphone bases, with XLR connector.

IPG-PTT

PTT MICROPHONE

PTT microphone for use on the front panel or with microphone bases. 90° XLR connector

IPGECAB

METAL CABINET FOR EMERGENCY MICROPHONE BASES

With lock for the housing of emergency microphone stands models IPGE06 and IPGE18. Also provides housing for an optional IPS24060G model power supply.
Provides housing for IPG-PTT microphone (not supplied).

IPGECAB - S Cabinet for IPGE06 emergency microphone stand, in grey
IPGECAB - D Cabinet for IPGE18 emergency microphone stand, in grey
IPGECAB - SR Cabinet for IPGE06 emergency microphone stand, in red
IPGECAB - DR Cabinet for IPGE18 emergency microphone stand, in red

IPS24024DT

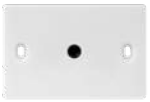
24 V LOCAL POWER-SUPPLY FOR NON EMERGENCY MICROPHONE BASES

24 V local power-supply for NON emergency microphone bases. Necessary only when the connection line results particularly long or when a large number of microphone bases are required.

IFFT-PHONE

EMERGENCY TELEPHONE HANDSET

With 6.3 mm JACK connector Compatible with the front panel of Previdia UltraVox control panels or with the jack FFT-SOCKET.



IFFT-SOCKET
JACK SOCKET FOR EMERGENCY TELEPHONE CONNECTION

Jack socket for emergency telephone connection.

IFFT-SOCKET Jack socket, in white
IFFT-SOCKETR Jack socket, in red

EVCSTAR
EMERGENCY TELEPHONE DEVICE

Telephone device for emergency lines, connected to the control panel via IFAMFFT module. It is housed in a red IP30 metal enclosure.

IAS-EOL1000
SPEAKER EOL

EOL for speaker line, necessary only for speaker lines with total power below 20W. To be housed in the last speaker on the line.

IAS-ADAPT1000

Module for adaptating and decoupling audio signals input into the Previdia UltraVox control panel (on analog inputs of the IFAMEVAC or IFAMAMP module). Input for 1 VRMS, 70 VRMS, 100 VRMS signals. Filter for the 20 KHZ included.

PRCABPLUSLCK

Cable kit for interconnecting PRCAB+ Cabinets, extended length: 3 m. This kit allows PRCAB+ cabinets to be installed side by side rather than stacked.

PRCAB-BOOSTFAN

Booster cooling fan for cabinets. Recommended for use in cabinets with more than three amplifiers (IFAMAMP) or in cabinets without a power supply unit (IFAMPSU). For PREVIDIA ULTRA only.

IFAMAMP-FAN

Replacement fan for IFAMAMP module.

IPG-FILTER100

The filter is to be connected in series to the cable coming from the microphone bases and is to be used when superimposed noise caused by electromagnetic coupling is heard over the audio during message broadcasts.
A Filter is already included with Previdia UltraVox and Previdia Vox models.

Inim Cloud Fire

See the data sheet online

A universe of functions at your service

The WEB space accessible from any device that allows remote control of Fire Detection and Alarm Systems made up of Previdia series control panels (Previdia UltraVox, Previdia Max, Previdia Compact).

Via a browser or directly through the App it is possible to supervise and have total control of security systems at any time and from any place, so as to immediately verify the signalling of any emergencies or anomalies.

The customer management system organized in the Cloud platform facilitates the planning of maintenance sessions, so as to guarantee a highly professional and efficient service.

The digitized events and tests register of the fire control panels provides faster and more reliable verification of the operational capacity of the systems in compliance with the provisions of the norm. Inim Fire Cloud also updates the system and maintenance registers automatically thus ensuring that the systems operate in compliance with the provisions of current regulations.

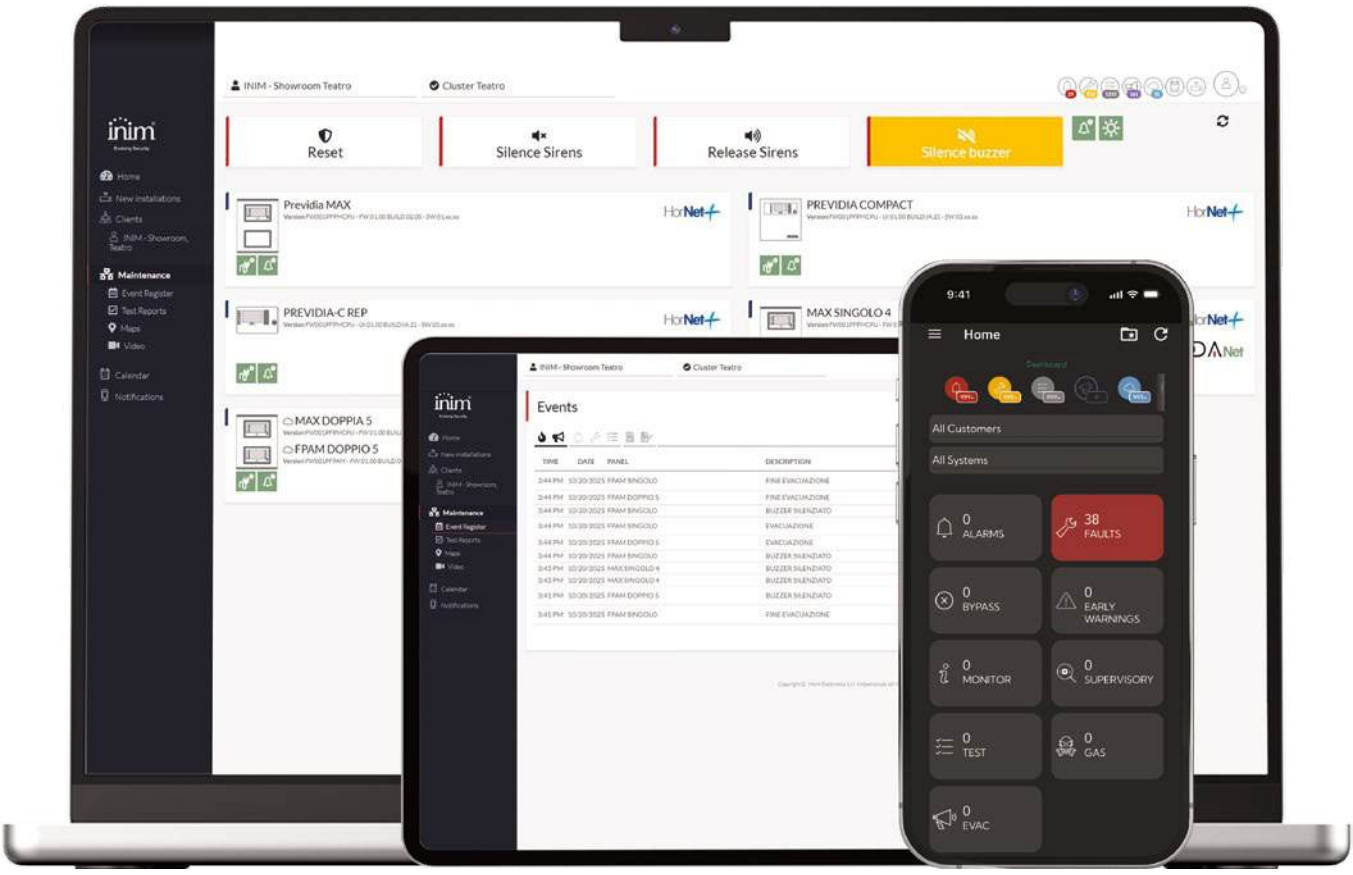
Remote monitoring and control

Installation registry and maintenance

System diagnostics

Interactive graphic maps

Integrated video verification



ADVANTAGES FOR THE INSTALLER

Provides the installer/maintenance technician with a tool to monitor their park of installations in an efficient and capillary way, makes available a customer management system to manage contacts, plan maintenance interventions and provide a professional and efficient service.

- Customer data registry
- Synoptic view of the events active on all the installed systems
- Assisted and guided system test
- Maintenance log with details of the tests performed on each point
- Diagnostic report with date of commissioning and last test, contamination values, anomalies for each point

- Interactive system log where it is possible to comment on each event or add reports
- Compilation of online maintenance reports as per current legislation
- Interactive graphic maps
- Video verification via any ONVIF camera on the site
- Calendar for planning technical interventions with interactive geolocation of the installation sites

ADVANTAGES FOR THE SAFETY MANAGER

Allows the security manager, via any browser or through the APP, to monitor and manage their systems and have total control at all times and from any location, as well as to note emergencies and anomalies immediately and thus take immediate action.

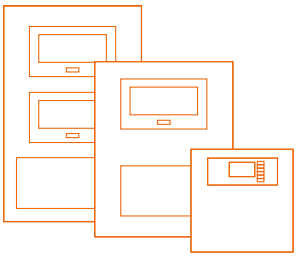
- Synoptic view of active events on all pertinent systems
- Interactive graphic maps for immediate location of the event
- Video verification via any ONVIF camera on the site
- Interactive system log where it is possible to comment on each event or add reports
- Verification of maintenance reports
- Diagnostic report on the operating and maintenance status of the system

ADVANTAGES FOR THE PURCHASER

Provides the operator with a means of verifying the detailed maintenance status, the correct management of alarm and fault events and the efficiency of the system. An indispensable means of ensuring that sites for which a person is legally responsible, in regard to the safety of occupants, are managed in a professional and competent way.

- Interactive system log where it is possible to comment on each event or add reports
- Verification of maintenance reports
- Diagnostic report on the operating and maintenance status of the system

HOW TO REGISTER YOUR OWN PREVIDIA CONTROL PANEL ON THE CLOUD



The procedure is identical for each version of Previdia control panel (Compact, Max, UltraVox)

1a. Install the IFMLAN module (for Previdia Max and Previdia Ultra only)
1b. Connect the control panel to the Ethernet network
2. Register on inimcloud.com
3. Create your account and receive a unique code (installer ID).
5. Enter the code on a system keypad.
6. The control panel is connected to the Cloud.
7. Manage the system functions.
8. Store and view the documents on the system registers online.

Inim Fire App

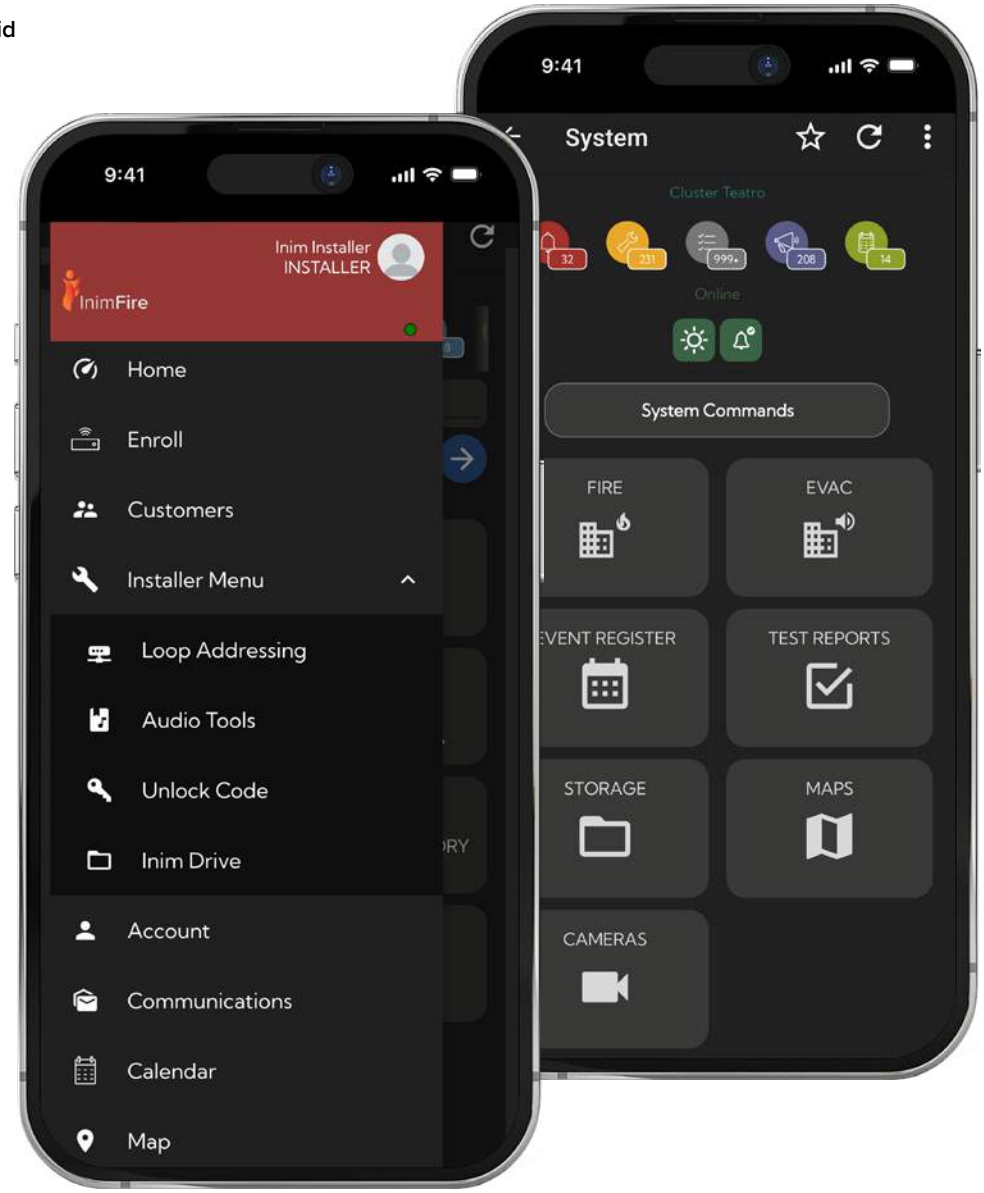
The entire system managed via Smartphone

Free App, intended for professionals (installers and maintenance technicians) and end users (installation managers, security supervisors, etc.), allows management of all the Previdia series control panels connected to the Inim Fire Cloud.

Thanks to a simple and intuitive interface, provides a clear and immediate overview of the system, the tailor-made functions for each type of user make the Inim Fire App indispensable for safe, fast and professional management.

The App allows you to navigate amongst the various installations associated with your account and access the details of each individual control panel to the point of being able to supervise and manage every single zone, detector or device.

Download it from Android store



Download it from iOS store

NAVIGABLE TOPOGRAPHIC MAPS

Visualization is based on navigable multiple-level topographic maps that show interactive, customizable icons to provide instant awareness of the status of each zone, detector or element of the system. Possibility to select an icon and issue commands to the associated element as well as set up function keys for fast actions definable during the installation phase.

CAPTURING IMAGES FROM CAMERAS

Capable of showing on smartphones images captured by any IP camera installed on the site. Thanks to the management of the Onvif protocol, the control panels are able to communicate with any type of IP camera and, if necessary, pan, tilt and zoom it based on the location of the danger, returning a visual image for verification in real time of the extent and exactness of the danger reported.

AUTOMATED INSTALLATION REGISTER

The Inim Fire App allows viewing of both the events log and the “installations register” in which converge all the most significant automatically-recorded events (alarms, faults, bypass operations, etc.) and any events entered manually (maintenance operations, tests, fire drills, personnel training sessions, faults, etc.).

Each element in the ‘Installations registry’ can be commented on by a series of notes and closed with a virtual signature that permanently archives the event. The register can be printed out on paper and countersigned, allowing both the professional and the end user to promptly comply with the current obligations determined by law without any particular effort.

THE REVOLUTIONARY WALK TEST SYSTEM

Thanks to a revolutionary “walk test” function, once the zones to be tested have been selected, the Inim Fire App will show a list of the devices associated with them, with the possibility of turning on the location LEDs, testing detectors, inputs and outputs and automatically ticking the tested devices. An ingenious function that allows the professional to carry out periodic test operations quickly and without risk of forgetting even a single element.

EVAC SYSTEM ACOUSTIC MEASUREMENT

The Inim FIRE App includes a number of tools for audio measurements, intended for use by both the project manager (for ambient audio measurement before designing the system) and the installer/technician (for checking the PA-VA system created with Previdia Ultravox or Vox), able to transform a smartphone into a tool capable of carrying out all the measurements required by reference legislation:

- Measurement of reverberation time in the 500 Hz, 1000 Hz and 2000 Hz octave bands
- Measurement of the ambient noise level for octave bands from 125 Hz to 8 KHz measured over a period of not less than 10 seconds
- Level of the acoustic pressure of A weighted alarm messages, Time weighting F (Fast) in over a period of 60 seconds
- STIPA measurement (Speech Transmission Index Public Addressing): Index between 0 and 1 that represents intelligibility of audio messages

REAL-TIME MAINTENANCE REPORT

At the end of each periodic test or maintenance session, the professional can compile and save the respective report to the Cloud in accordance with the provisions of the norm of reference. By downloading and filling in the forms available on the App, by loading any other compiled file or simple photo of the paper document, any document will be completed by Cloud adding the automatic registration of all the devices tested and entered in the installation register in compliance with legal obligations.

Inim Audio System Server (IASS)

A universe of functions of audio entertainment

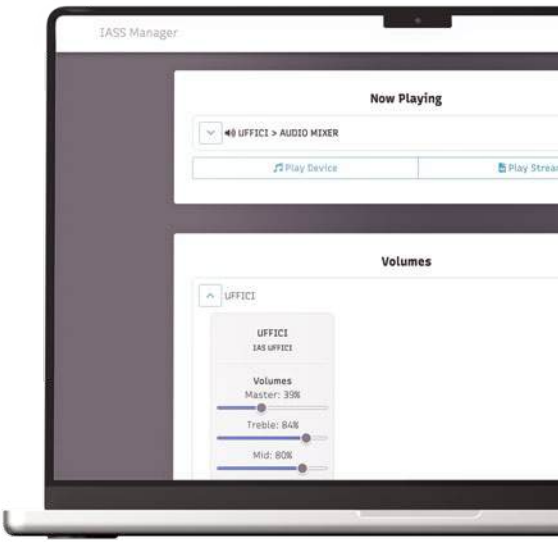
The IASS server must be installed on a PC inside the same TCP-IP network of a Previdia UltraVox control panel and adds highly advanced “entertainment” audio functions to the system.

The server maintains a TCP-IP connection with on or more Previdia UltraVox control panels and, through access via web or APPs by an unlimited number of users, each with their own access rights, allows reproduction on the various audio zones of: an unlimited number of playlists consisting of audio files, TCP audio stream sources (such as web radio, etc.), audio tracks triggered by timers, voice announcements via smartphone... and much more.

A practical plug-in included in the packet which allows you to capture the audio output of any PC inside the network and transform it into a source for the users, in this way making it possible to use audio content coming from numerous sources (Spotify, YouTube, etc.).

All the functions made available by the revolutionary IASS server are obviously stopped when an emergency condition activates, in order to free up the system for the voice evacuation functions.

The IASS server is subject to license, the purchase code is **IASS_SERVER**



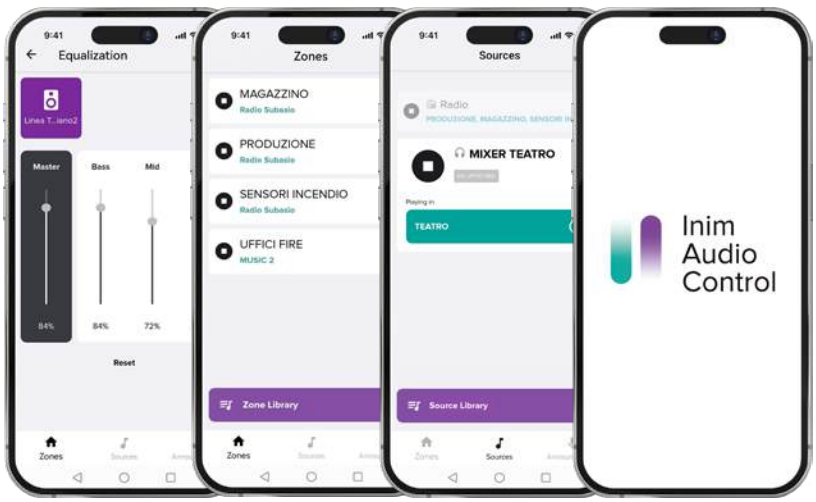
Inim Audio Control (IAC) App

Total Audio Control

IAC APP, in combination with the IASS server, allows operating activities on the audio zones pertaining to each user in order to: adjust volumes and equalizations, select and adjust the various physical sources available to the system, reproduce existing playlists or create new ones, reproduce TCP-IP streaming audio (web radio), send voice announcements from a Smartphone, activate pre-recorded messages, etc. The simple, intuitive user interface can be customized for each user thanks to the very convenient widgets that allow instant recall of the most frequently used functions.

The application can be downloaded free.

Download it from Android store



Download it from iOS store

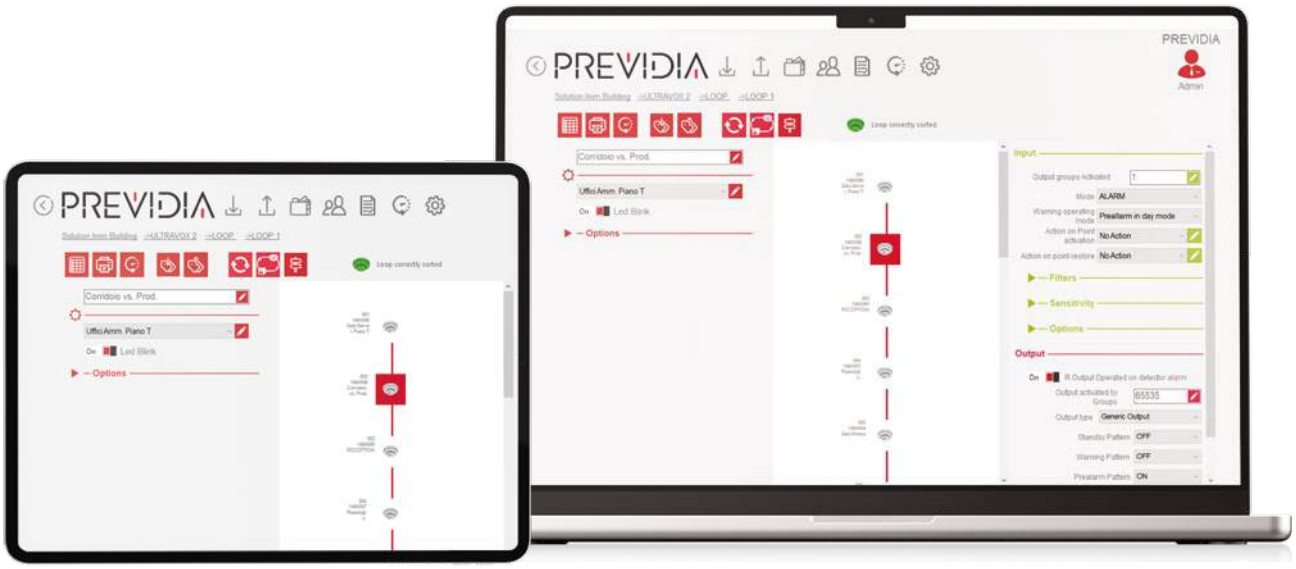
Previdia/STUDIO

Configuration and management software for Previdia control panels

A simple and intuitive tool essential for the commissioning and maintenance of the control panels, it allows quick and effective adjustment of the operating parameters of each single element of the system, the definition of the activation logics and the configuration of the various components.

Capable of operating both at individual control panel and network level, it makes use of a graphic interface designed to be used also on touch-screen devices. The software is completed with effective diagnostic functions that allow accurate fault searches and the adjustment of the various intervention thresholds.

Equally as effective are the reporting functions which allow, starting from the data automatically collected by the control panel, the creation of complete reports in compliance with current legislation. The software also manages a database that can collect and store the data of each completed installation including, for each customer, reports of all maintenance and tests carried out on the system. The Previdia/STUDIO software is capable of connecting to the system via RS232, USB, TCP/IP or Cloud connection, runs in Windows operating systems and can be downloaded free of charge by logging in and registering on website www.inim.it.



BACnet

BACnet is a building-automation-network communication protocol developed by ASHRAE (American Society of Heating, Refrigeration and Air-Conditioning Engineers). BACnet, as a result of its versatility and flexibility, is now extensively used as a standard communication protocol between devices and building-automation systems made by various manufacturers. The BACnet protocol is implemented on the IFMLAN module for the Previdia Max control panels, its use is subject to licensing. Each license allows management of a specific number of points, by “point” we mean all those objects that can be supervised via the BACnet protocol: Loop Devices, Zones, Inputs, Outputs, etc.
The licenses are not cumulative.

PRALICBAC500	Licence for the management of 500 points
PRALICBAC1000	Licence for the management of 1000 points
PRALICBAC1500	Licence for the management of 1500 points
PRALICBAC2000	Licence for the management of 2000 points

Fire Designer

Software for configuring and sizing Fire and Safety systems with Inim Electronics devices

Watch video

The FireDesigner software is the professional tool for configuring and sizing Fire and Safety systems with Inim Electronics devices. Thanks to a simple, guided interface it allows you to design complete systems, checking in real time the congruity of the components used and reporting any inadequacies or errors. On configuration completion, the FireDesigner software automatically generates a complete technical file with detailed reports on cable sizing, battery life calculations, device datasheets and certificates, user manuals and AutoCAD drawings perfectly congruent with the system created.

*The software can be downloaded free of charge from the inim.biz website.

FireDesigner

Fire Designer features

• Sizing a system based on PREVIDIA control panels, a system that can consist of a single control panel or multiple networked control panels

• Identify the function modules and accessories required for each control panel in the system
• Formulate and size each loop, speaker line and I/O line

SIZE Cluster
Cluster

IDENTIFY Modules
Modules

FORMULATE Loop
Loop

SmartLine

Conventional control panel for fire detection and alarm systems

The SmartLine conventional fire-detection control panel series offers a 2 zone non-expandable model, a 4 zone model expandable to 20 zones and a 4 zone model expandable to 36 zones. The extreme compactness, the simplicity of use and programming make it the ideal choice for all small and medium-sized installations, however the countless functions (timers, logic equations, etc.), enormous flexibility (self-adapting output balancing, multifunction inputs, customizable outputs, integration of gas functions, etc.) and innovative connectivity (RS485 bus for power stations, internet connection, etc.) make it an instrument suitable for satisfying any requirement in any installation.

SmartLine control panels have supervised outputs (one on the motherboard and one on each added expansion) for the activation of audio-visual signalling devices, a customizable relay output, fault signaling outputs and two 24 V outputs (one constant and one interruptible by installer-defined conditions). Additionally, each detection zone provides a terminal which can be configured as: open-collector output (activated by programmable conditions), supervised input, or Gas 4-20mA detector interface. The user interface provides an intuitive graphic display and a series of signalling LEDs located on the front of the control panel, moreover it is possible to connect up to 4 remote control panels (SmartLetUSee/LCD-Lite) to the 485 BUS (supplied) which replicate the information and functions available on the front panel, the BUS also supports two power-supply stations.

Programming via the front panel is surprisingly simple and intuitive thanks to the graphic display, to operate more easily it is possible to configure the control panel using the SmartLeague configuration software. The SmartLAN/485 board allows the control panel to connect to an Ethernet network for remote access via the Internet.

TECHNICAL SPECIFICATIONS			
Power supply voltage:	230 V~ (-15% / +10%) 50/60 Hz	**020** dimensions:	322 x 324 x 86 mm
Maximum internal power current:	4 A (**036**); 1.5 A (**020**)	**020** weight without battery:	3.3 Kg
Maximum external load current:	4 A (**036**); 1.5 A (**020**)	**036** dimensions:	497 x 380 x 97 mm
Battery specifications:	2 x 12 V @ 17 Ah (**036**) 2 x 12 V @ 7 Ah (**020**)	**036** weight without battery:	6.1 Kg
Operating temperature:	-5° ... +40° C		

See the data sheet online

EN54 certified

SmartLine has obtained all applicable EN54 certifications:

- EN54-2: Control panel and signalling devices;
- EN54-4: Power supply units;
- EN54-21: Remote signalling and transmission equipment for events of Alarm and fault
- EN12094-1: Automatic electrical command and shutdown and delay management devices
- EN54-13: Compatibility of system components.

Flexible

Conventional fire-detection control panel, available in a 2 zone model, 4 zone model expandable to 20 zones, 4 zone model expandable to 36 zones. Backlit graphic display for intuitive management of the installer and user interface, navigation keys and keys for quick access to the main functions (mute, reset, evacuate, investigate)

Internal power supply

Switching power supply/battery charger 1.4 A @ 27.6 V DC (for SmartLine020) or 4A @ 27.6 V DC (for SmartLine036-4); Battery housing for two 7 Ah – 12 V batteries (for SmartLine020) or two 17 Ah – 12 V batteries (for SmartLine036-4). Battery efficiency test and battery charge voltage in accordance with temperature, battery shutdown in the event of deep discharge conditions. Metal enclosure

Complete

- 1 supervised alarm output (NAC)
- 1 output for communicator/dialler activation
- 1 dry-contact alarm output
- 1 dry-contact fault signalling output
- 1 power supply output for ancillary devices
- 1 interruptible power supply output for ancillary devices
- 1 additional terminal per zone configurable as: open-collector output, supervised input, Gas detector input with 4-20 mA interface
- 8 timers, 8 logical equations, automatic balancing of individual detector lines

Certified for fire extinguishing systems

Management of an extinguishing channel by adding the optional SmartLetLoose/One (EN12094-1 approved) fire extinction module

Easy to configure

Intuitive programming from the front panel; RS232 connector for programming via PC, SmartLeague programming software available free of charge

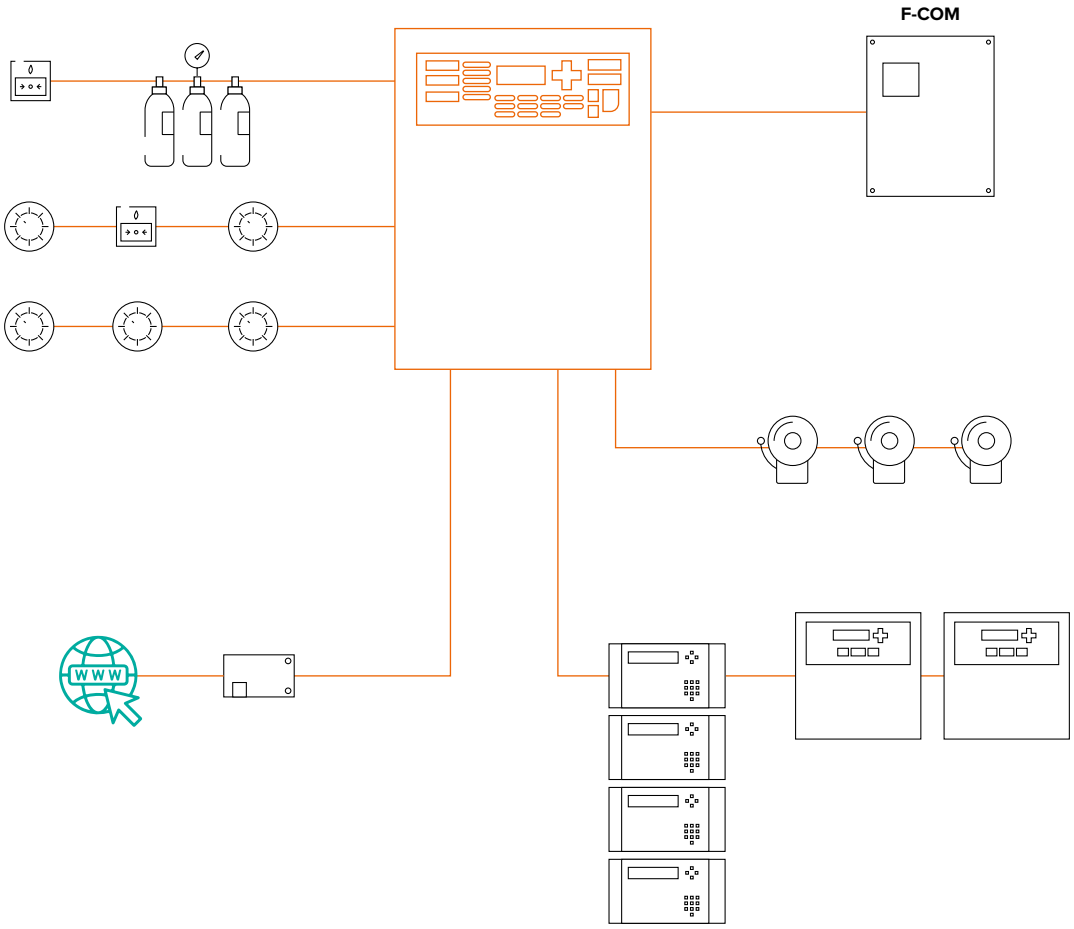
Remote keypads

RS485 BUS for repeater panel and power-supply station (SmartLevel) connections

TCP-IP connection

Optional board for connections to Ethernet networks, remote programming and supervision via BMS software Remote communicator via SIA-IP protocol

SmartLine control panel diagram



ORDER CODES	ON-BOARD ZONES		EXPANDABLE		POWER-SUPPLY
	2	4	20	36	
SmartLine020-2	✓				1.5A
SmartLine020-4		✓	✓		1.5A
SmartLine036-4		✓		✓	4 A

SmartLeague software

SOFTWARE FOR THE CONFIGURATION OF SMARTLINE CONTROL PANELS

The completely-overhauled SmartLeague management and programming software is an indispensable tool for all those professionals who require full control of fire detection systems.

In addition to allowing fast configuration of the control panel parameters, it offers an overview of the system and provides wiring diagrams of the various terminals in function of the set options.

Accessory devices for SmartLine

SMARTLETUSEE/LCD-LITE
REMOTE CONTROL AND VISUALIZATION PANEL WITH LCD

Remote repeater panel equipped with LCD display and user-interface keypad (up to 4 for each control panel).

SMARTLINE/8Z
8 ZONE EXPANSION BOARD

8 zone expansion board equipped with an additional supervised output.

SMARTLAN/485
BOARD FOR ETHERNET NETWORK CONNECTION

Board for connection to Ethernet networks, allows remote programming and monitoring via software based on SmartLook and Hevoluto graphic maps. The board implements the SIA-IP communication protocol.

SMARTLINE/LOGEXP
EVENT MEMORY BOARD

Log event capacity expansion board for the storage of the last 2,000 events that occurred in the system. SmartLine/LOGEXP provides a non-volatile memory of the events log that retains stored data even when the control panel is turned off.

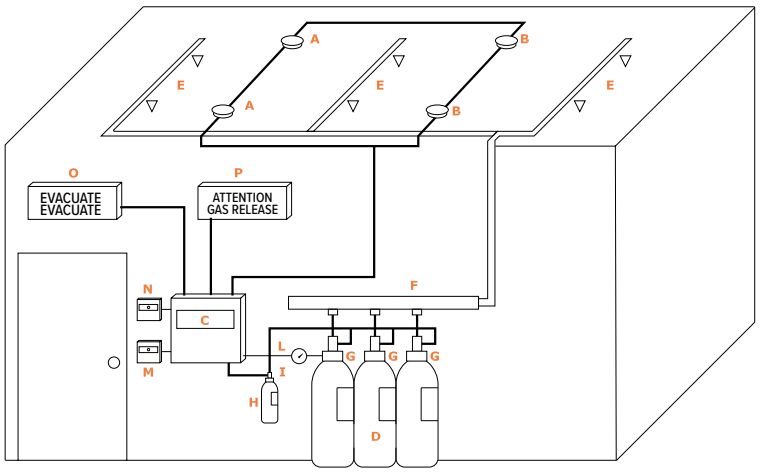
SMARTLETLOOSE/ONE
FIRE EXTINCTION BOARD

Equipping the control panel with this board provides a GAS extinguishing channel certified according to the EN12094-1 standard.

SmartLetLoose/ONE enhanced control panels provide all the functions required by the applicable normative and are capable of managing all devices required for fire extinction system management. (refer to “Accessory items for fire extinction systems”).

DIAGRAM KEY

A	Loop (zone A)
B	Loop (zone B)
C	SmartLight fire extinction control panel.
D	Extinguishing gas cylinders.
E	Gas release nozzles
F	Gas collectors
G	Pneumatic release valve
H	Pilot cylinder for gas release
I	Pilot cylinder electrovalve.
L	Pressure switch
M	Manual activation button
N	Stop extinction button
O	Audio/Visual signaller of imminent gas release
P	Audio/Visual signaller of gas present



SmartLight

Single loop analogue-addressable fire control panel

The compactness, simple end-user operation, trouble-free installation and uncomplicated programming procedures make this highly competitive control panel ideal for small applications that require first rate performance. It is exactly this market segment that the SmartLight control panel finds its niche. It is perfect for those applications which require a limited number of detectors yet call for the reliability and performance that only analogue-addressable systems can provide.

With this application typology in mind, SmartLight is a valid alternative to conventional systems. The SmartLight control panel is based on OpenLoop technology. Thanks to the many protocols supported by its detection Loop, SmartLight is capable of managing a wide range of detectors and accessory devices and thus offers maximum flexibility and ease-of-use.

TECHNICAL SPECIFICATIONS			
Power supply voltage:	230 V~ (-15% / +10%) 50/60 Hz	Dimensions:	322 x 323 x 83 mm
Maximum internal power current:	1.5A	Weight without battery:	3 Kg
Maximum external load current:	1.5A		
Battery specifications:	2 x 12 V, 7 Ah		
Operating temperature:	-5° ... +40° C		

See the data sheet online

EN54 certified

Certified according to the standards:

EN54-2: Control panel and signalling devices
EN54-4: Power supply units
EN12094-1: Gas extinguishment-system

Simple installation

Alphanumeric display and keypad for the complete configuration via the frontal panel.

Intuitive

Alphanumeric display, keypad, key to pass to level level 2, signalling LEDs and integrated buzzer.

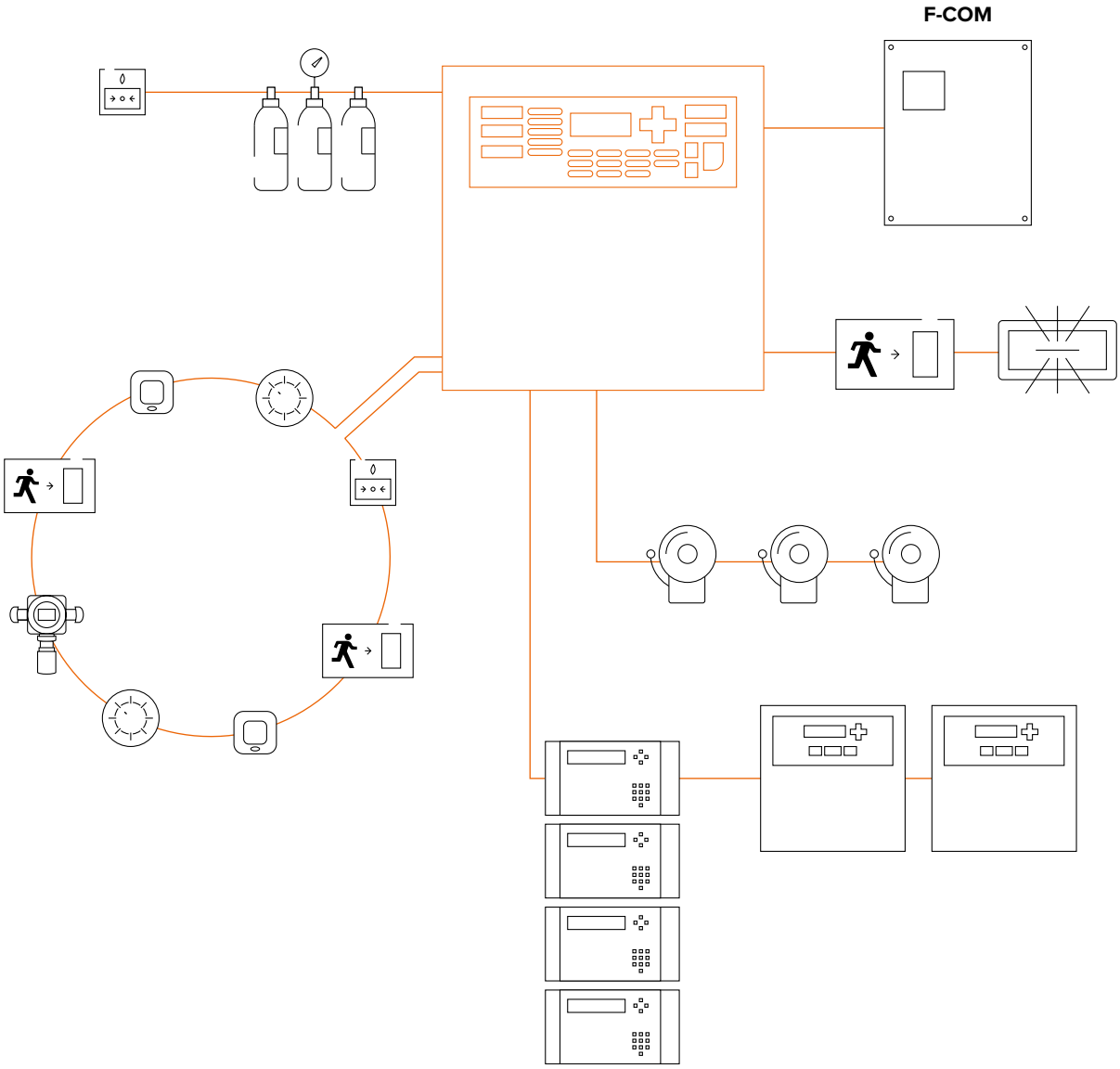
Manages extinguishing systems

Through the optional SmartLetLoose/ONE board it can manage a gas extinguishing channel, certified EN12094-1.

Compact

Its simplicity and its price-quality ratio make it unique in its market segment.

SmartLight control panel diagram



ORDER CODES	Loop CAPACITY	DEVICES	ZONES
SmartLight/S	✓	64	16
SmartLight/G	✓	240	30

Accessories for SmartLight

SMARTLETUSEE/LCD-LITE

REMOTE CONTROL AND VISUALIZATION PANEL WITH LCD

Remote repeater panel equipped with LCD display and user-interface keypad (up to 4 for each control panel).

SMARTLETLOOSE/ONE

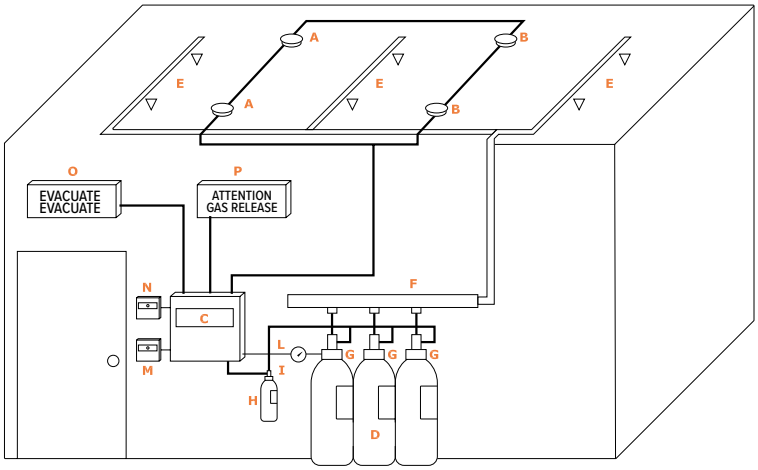
FIRE EXTINCTION BOARD

Equipping the control panel with this board provides a GAS extinguishing channel certified according to the EN12094-1 standard.

The control panel provides all the functions required by law and allows for the connection of the various accessories necessary for the management of an extinguishing system as shown below. (refer to “Accessory items for fire extinction systems”).

DIAGRAM KEY

A	Loop (zone A)
B	Loop (zone B)
C	SmartLight fire extinction control panel.
D	Extinguishing gas cylinders.
E	Gas release nozzles
F	Gas collectors
G	Pneumatic release valve
H	Pilot cylinder for gas release
I	Pilot cylinder electrovalve.
L	Pressure switch
M	Manual activation button
N	Stop extinction button
O	Audio/Visual signaller of imminent gas release
P	Audio/Visual signaller of gas present



SmartLeague software

SOFTWARE FOR THE CONFIGURATION OF SMARTLOOP AND SMARTLIGHT CONTROL PANELS

The completely-overhauled SmartLeague management and programming software is an indispensable tool for all those professionals who require full control of fire detection systems.

In addition to allowing fast configuration of the control panel parameters, it offers an overview of the system and provides wiring diagrams of the various terminals in function of the set options.

SmartLoop

Analogue addressable fire alarm control panel with 1 loop expandable to 8

The SmartLoop platform includes control panels with 1 to 8 loops which can be connected in a network of up to 30 control panels. Considering that each control panel can manage up to 8 loops and that each loop can manage up to 240 devices, the enormity of installation solutions offered by the SmartLoop system is not difficult to imagine. The SmartLoop series has been designed to provide performance to the level of excellence coordinated by a 32-bit processor.

TECHNICAL SPECIFICATIONS

Power supply voltage:	230 V~ (-15% / +10%) 50/60 Hz	Dimensions:	470 x 460 x 136 mm
Maximum internal power current:	4A	Weight without battery:	8 Kg
Maximum external load current:	4A		
Battery specifications:	2 x 12 V, 7 Ah ; 2 x 12 V, 17 Ah		
Operating temperature:	-5° ... +40° C		

See the data sheet online

EN54 certified

Certified according to the standards:

- EN54-2: Control panel and signalling devices
- EN54-4: Power supply units
- EN54-21: Remote communicators
- EN54-13: Compatibility of system components

Simple installation

By operating on the alphanumeric display and on the frontal keypad, system commissioning and diagnostic functions can be carried out with ease.

Intuitive

The simple and essential structure makes it intuitive and effective for the end user.

Emergency 54

Thanks to EMERGENCY 54 technology, the control panel is able to guarantee essential safety functions even in the event of main CPU failure, making it compliant with regulations even when more than 500 devices are connected to the control panel.

Connectable in Hornet network

As many as 30 SmartLoop control panels can be connected in a network thanks to the HORNET system (network different from the Hornet+ used in the Previdia system).

OpenLoop

Each control panel manages up to a maximum of 8 Loops of 240 devices each. Thanks to Open Loop technology, on each of them it is possible to choose Inim protocol, Argus or Apollo.

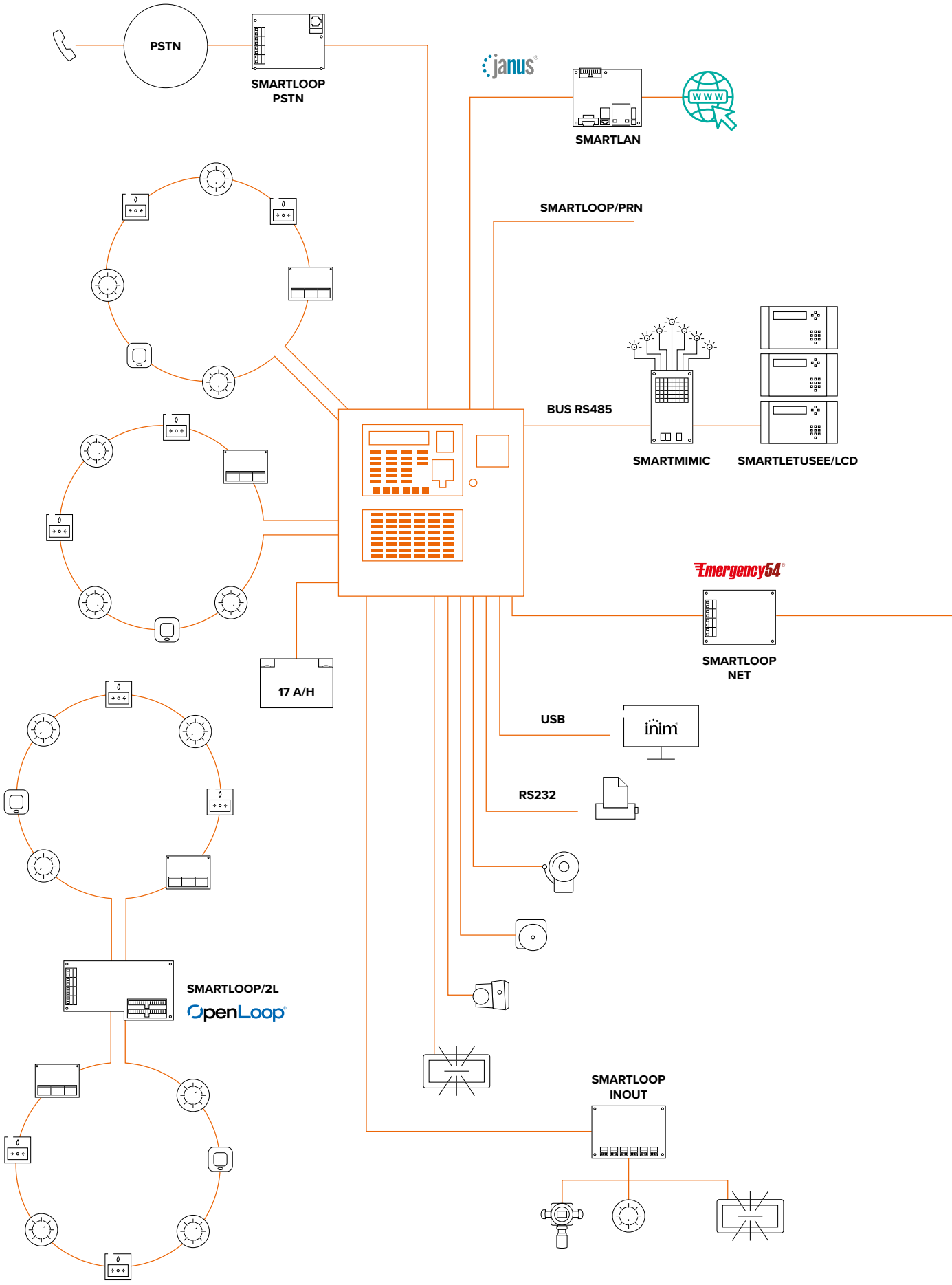
Janus

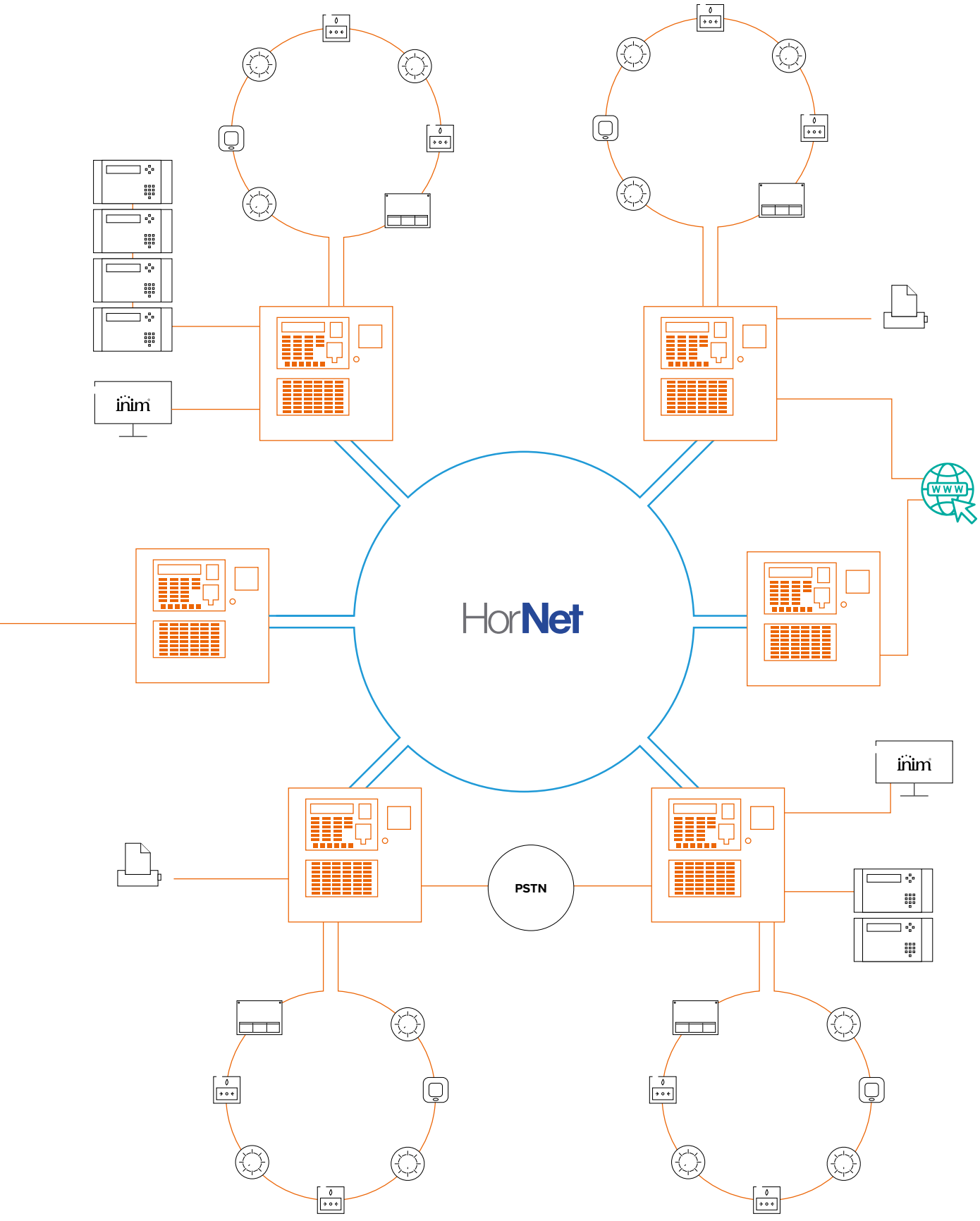
Janus technology (available on the SmartLAN module) allows the connection of the control panel to a TCP/IP network. In addition to the extended global reach of the system, Janus technology also allow you to send e-mails and UDP and TCP/IP protocol packets as well as allowing you to program all the control panels connected in the network from remote locations.

Flexible

A wide selection of accessory devices such as repeaters, on-panel printers, remote communicators, etc., makes it suitable for all applications.

SmartLoop control panel diagram




HorNet
PSTN
inim
inim
WWW

Intuitive

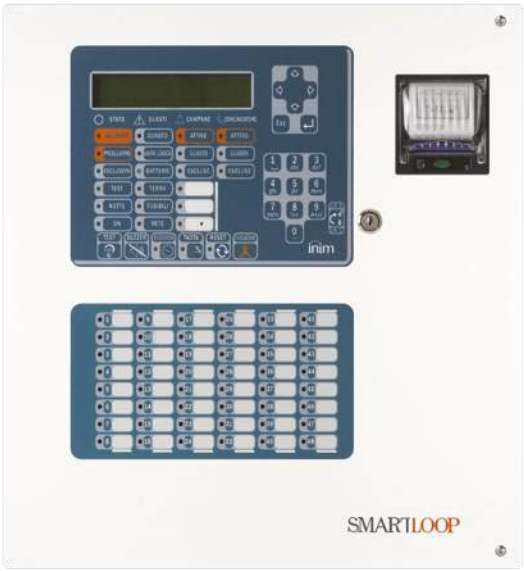
- Navigation keys for easy access to menu functions
- Fast access keys (test, buzzer, recognition, silence, reset, evacuate)
- Signalling buzzer
- Programming software runs in Windows environment
- Programming from the control panel

Expandable

Analog-addressable control panel, 2 loops expandable to 8 for 2080 expandable models, 1 loop on non-expandable 1010 models, up to 240 devices per loop.

Flexible

- RS485 BUS for the connection of remote control panels (SmartLetUSee/LCD and SmartLetUSee/LED)
- Manages via RS485 BUS of the extinction control panel (SmartLine020-4EXT and SmartLine036-4EXT);
- Management over RS485 BUS of power-supply stations.



Smart

Logic equations, activation triggers and structured cause-and-effect configuration.

Events log

- Memory of the last 2000 events
- Self-enrolling of loop devices
- Self-addressing of loop devices

Certified power-supply

- Metal enclosure
- Mains power supply 230 V AC ± 10%
- Integrated power supply with switching-technology battery charger 4 A @ 27.6 V DC
- Battery housing for two 17 Ah, 12 V batteries

Always connected

Up to 30 control panels in the network using the SmartLoop/NET network board and easy remote access through SmartLAN board (accessory item)

Emergency 54

Emergency CPU for compliance with EN54-2 requirements in the case of more than 500 connected devices.

Inputs/Outputs

- 24V auxiliary power-supply output for external devices and 24V resettable ancillary power output
- RS232 and USB connectors for the connection of a PC
- 4 supervised outputs expandable to 10
- Alarm and fault relay

ORDER CODES	Loop CAPACITY		DISPLAY		PRINTER
	1 non-expandable Loop	2 loops expandable to 8	LCD command panel	LED visualization panel	Allocation for housing
SmartLoop1010/P	✓		✓	✓	✓
SmartLoop2080/P		✓	✓	✓	✓
SmartLoop1010/G	✓		✓		
SmartLoop2080/G		✓	✓		
SmartLoop1010/S	✓				
SmartLoop2080/S		✓			

Accessories connectable to RS485 BUS

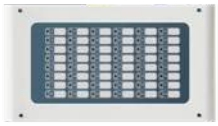
SMARTLETUSEE/LCD

REMOTE CONTROL AND VISUALIZATION PANEL WITH LCD

Optional keypad equipped with LEDs, keys and display that replicates all the functions available via the control panel front plate. To be installed in places where it is necessary to view and check the status of the system. Each SmartLoop control panel manages up to 14 repeaters that can be connected up to a distance of 1000 m from the control panel. The connection with the control panel is established via the RS485 BUS present on the motherboard of the control panel.

SMARTLETUSEE/LED

REMOTE VIISUALIZATION PANEL WITH LEDS



VISUALIZATION PANEL WITH LEDS The panel provides 48 freely-programmable LEDs capable of signalling conditions generated by the loop points, control panel zones or the system as a whole (alarms, pre-alarms, trouble, etc.). A label can be inserted for each LED. It connects to the remote SmartLetUSee/LCD control panel by means of a flat cable (included) and together they provide maximum system control and visualization capabilities.

SMARTMIMIC

SYNOPTIC PANEL BOARD

This board allows you to create a synoptic panel. All you need to do is attach a map (layout) of the protected premises to the front of any ordinary enclosure, perforate the map (layout) in the places where the zones are located, then wire up the LEDs using the wires supplied with the board. The board connects to the RS485 BUS port of the SmartLoop control panel and provides 48 connections for the LED wires.

SMARTLOOP/REL

12 RELAYS EXPANSION MODULE

It connects to the RS485 BUS of SmartLoop control panels to provide 12 configurable relays. Relays from 1 to 10 are capable of switching a maximum load of 30 V DC, 1A. Relays from 11 to 12 are capable of switching a maximum load of 240 V AC, 5 A.

SMARTLETUSEE/IP

IP REMOTE CONTROL SOFTWARE FOR SMARTLOOP PANELS

The SmartLetUSee IP software is an application that replicates the front plate of the SmartLoop control panel on the PC screen. Communication between the application and the control panel is achieved via TCP-IP protocol, therefore, the SmartLoop control panel must be equipped with a SmartLAN or SMartLAN/SF board and connected to an Ethernet network. The application replicates all the functions available on the front plate of the control panel, thus providing a repeater panel directly on a PC or Tablet.

Accessories connectable to the SmartLoop motherboard

SMARTLOOP/2L

OPENLOOP EXPANSION BOARD

Each expansion board adds 2 OpenLoop loops to the control panel thus offering the possibility to expand each control panel up to a maximum of 8 loops. Up to 3 loop expansion boards can be configured for each control panel. Being OpenLoop technology, each loop can be configured to work independently with one of the types of devices available. These boards can only be added to expandable models (2080 models).

TECHNICAL SPECIFICATIONS	
Power supply voltage	19 / 30 V
Current draw	Stand-by: 20 mA MAX. 70mA

SMARTLOOP/INOUT

INPUT AND OUTPUT EXPANSION BOARD

The SmartLoop/INOUT expansion board adds a further 6 terminals to the control panel. Each terminal can be set up to operate as either a supervised output NAC (1A max.); supervised input or input line (zone) for conventional detectors. The output trigger signals and the actions generated by the activation of the inputs are fully programmable.

TECHNICAL SPECIFICATIONS	
Power supply voltage	19 / 30 V
Current draw	Stand-by: 40 mA Max. 300mA

SMARTLOOP/NET

BOARD FOR THE CONNECTION OF SMARTLOOP CONTROL PANELS IN A HORNET NETWORK

The network can be made using 3-pole cable ring wiring. Each section (from control panel to control panel) can have a maximum length of 1000 m. The network created in this way provides a highly fault-tolerant network. Using a supplementary 2 pole cable (5 poles in all), it is possible to create a protection ring which can pass alarm conditions coming from a fire control panel with a microprocessor fault, through the ring thus ensuring maximum reliability (Emergency54 technology).

TECHNICAL SPECIFICATIONS	
Power supply voltage	19 / 30 V
Current draw	Stand-by: 40 mA Max. 300mA

SMARTLOOP/PSTN

LAND LINE DIGITAL AND VOICE DIALLER BOARD

It allows the fire control panel to communicate over the land line (PSTN). It manages (and monitors) 2 lines and uses the most widely used reporting protocols (SIA, Contact ID, etc.). The board has an 8 slot audio memory for up to 8 voice-call messages. The two phone lines are monitored and guarantee signalling in the event of line down faults. Completely managed by its own microcontroller, it guarantees an emergency call in the event of a control panel microprocessor fault. The emergency call is also guaranteed if an alarm occurs when the control panel microcontroller is faulty (Emergency54 technology).

TECHNICAL SPECIFICATIONS	
Power supply voltage	19 / 30 V
Current draw	Stand-by: 20 mA Max. 60mA

SMARTLAN

WEB SERVER AND ETHERNET INTERFACE FOR REMOTE PROGRAMMING AND CONTROL

The SmartLoop/LAN board connects to any Ethernet network and allows remote access (via Internet) to the fire control system (allows connection to all the fire control panels in the token-ring network). The board is capable of sending detailed e-mails for each event and real-time event reports via TCP/IP. The board also provides the possibility to carry out remote programming (up-downloading) of data, of managing the system via the SmartLook control software, as well as providing a web server which allows access to the control panel via the Web.

TECHNICAL SPECIFICATIONS	
Power supply voltage	19 / 30 V
Current draw	Stand-by: 200 mA Max. 300mA

SMARTLAN/SF

ETHERNET INTERFACE FOR REMOTE PROGRAMMING

The SmartLAN/SF board connects to any Ethernet network and allows remote access (via Internet) to the control panel and to all control panels present in the HorNet network. The board provides the possibility to carry out remote programming (up-downloading) of data and of managing the system via the SmartLook control software. Supports Modus over TCP/IP

TECHNICAL SPECIFICATIONS	
Power supply voltage	19 / 30 V
Current draw	Stand-by: 40 mA Max. 40mA

SMARTLOOP/PRN

ON-PANEL PRINTER MODULE

The SmartLoop/PRN thermal printer module mounts to the front of the control panel and connects directly to the motherboard by means of a connection cable (included). It uses 56mm thermal roll paper. The SmartLoop/PRN allows real-time printing of events or on-demand printing of portions of the control panel event log. It can also printout complete loop reports containing information about dust accumulation and detector functionality. The SmartLoop/PRN can be mounted to SmartLoop1010P and SmartLoop2080P models only.

TECHNICAL SPECIFICATIONS	
Power supply voltage	19 / 30 V
Current draw	Stand-by: 0 mA Max. 1mA

CONTROL PANEL MODELS	BY DESIGN		OPTIONAL ATTACHMENT BOARDS					
	LCD panel	48 Status LED board	SmartLoop 2L	SmartLoop PRN	SmartLoop INOUT	SmartLoop NET	SmartLoop PSTN	SmartLAN SmartLAN/SF
SmartLoop/1010 - P	✓	✓		✓	✓	✓	✓	✓
SmartLoop/2080 - P	✓	✓	✓ **(Max. 3)**	✓	✓	✓	✓	✓
SmartLoop/1010 - G	✓				✓	✓	✓	✓
SmartLoop/2080 - G	✓		✓ **(Max. 3)**		✓	✓	✓	✓
SmartLoop/1010 - S					✓	✓	✓	✓
SmartLoop/2080 - S			✓ **(Max. 3)**		✓	✓	✓	✓


ED200
ED300
EC0020W

Analogue-addressable devices

Advanced systems for Loops

These connect to the control panels via a bipolar cable on which, in addition to the transfer of the supply voltage, two-way communication takes place permitting each device to transfer details regarding its status or on any detected measurements.

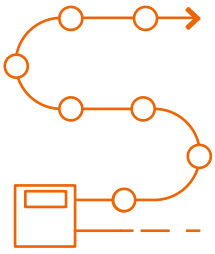
A speed dial system (interrupt) allows the devices to draw the attention of the control panel at the address thus minimizing response times.

The connection with the control panel is a ring connection (hence the name Loop) which guarantees tolerance to any wiring faults thanks to the short-circuit insulators contained inside each device.

Considerable savings on cables for loop connections

Creation of simple systems easily manageable locally

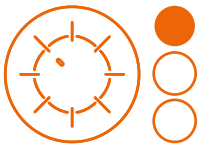
Two-way communication with the control panel



LoopMap technology

Once the loop is connected to the control panel or to the piloting device (EITK2000), the enrolling procedure starts on the PC and the interactive map of the loop and all its details are obtained.

The map includes any secondary branches, in the exact sequence in which the wiring was carried out, in order to simplify and speed up troubleshooting and system maintenance.



VERSA++

By means of the unique technology of Inim detectors it is possible to configure each detector according to the conditions of the specific ambient in which it will be placed.

By connecting to a line of detectors it is possible to perform for each of them a complete diagnosis, test functionality, check the real-time value reading, view the contamination value of the optical chamber, modify the sensitivity and operating mode.

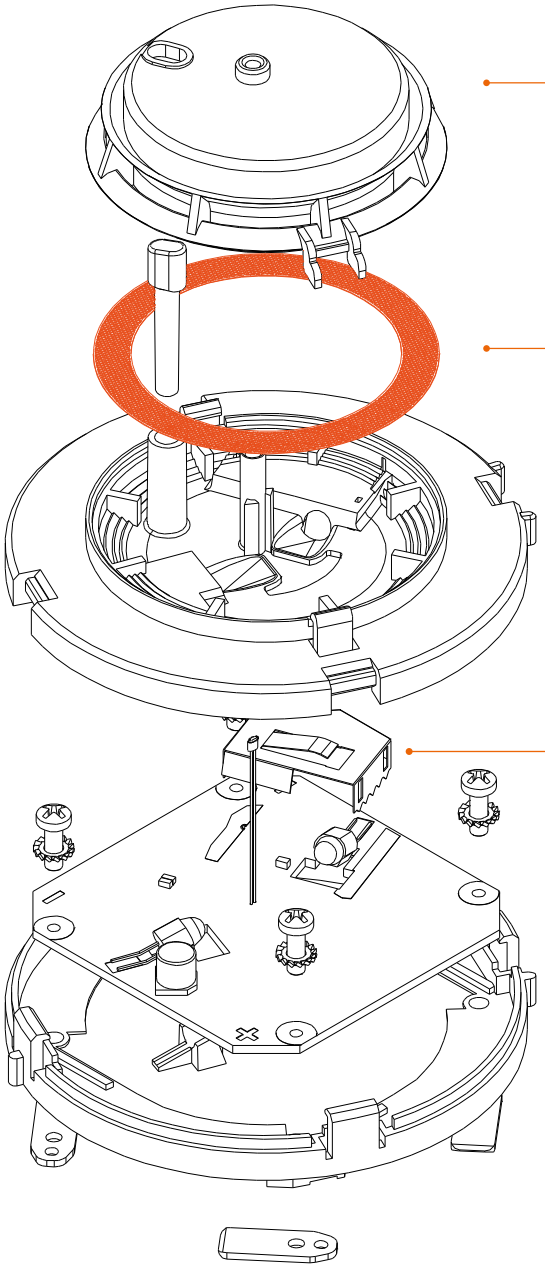
Each detector has a non-volatile memory which allows you to view the smoke and temperature levels measured in the period prior to the last alarm detected.

Enea series detectors

Point fire detectors with advanced technology

Enea series detectors, as a result of advanced technologies based on new-generation microprocessors, represent the most advanced technology that fire detection equipment can offer today. They provide a vast spectrum of options and flexible functions, all configurable from the control panel (VERSA++ technology). Enea series detectors are capable of implementing a sophisticated set of algorithms, custom created by Inim's R&D professionals, which ensure unequalled reliability and the highest immunity to false alarms.

The detectors have brilliantly passed all the tests at the prestigious English institute LPCB and at the UL laboratories, obtaining both the certification which gives the right to use this mark and the CPR certification, a mandatory requiremlent for the commercialization of fire detectors.



Labyrinth entrance to the sampling chamber

This allows air to enter but not contaminants and light.

Protection against dust and insects

500 µm protective metal mesh.

Innovative sampling chamber

Design especially studied to obtain the maximum sampling volume.

RF shield

Circuits shielded against electromagnetic interference.

Conformal coating

Fully coated boards to protect against contaminants.

AND **AND mode**

OR **OR mode**

PLUS **PLUS mode**

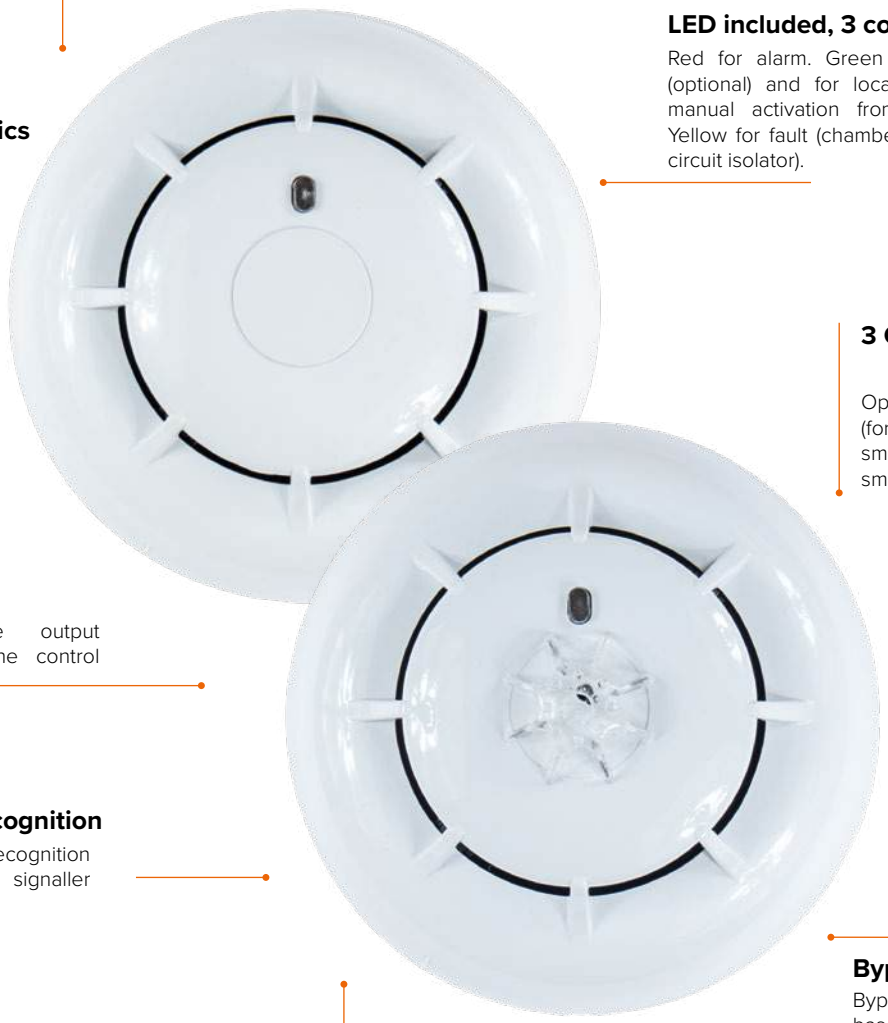
See the data sheet online

Built-in isolator
Integrated short-circuit isolator.

Innovative optical chamber
Upper-part of detector sealed, 500 µm metal mesh protection against entry of insects.

LED included, 3 colours
Red for alarm. Green for stand-by flashing (optional) and for localization by means of manual activation from the control panel. Yellow for fault (chamber contamination, short circuit isolator).

Complete diagnostics
Complete diagnostics: view the contamination level in the optical chamber and verify real-time values.



3 Operating mode
Operating mode selection (for ED300 version): only smoke, only temperature or smoke and temperature.

Supervised output
Supervised remote output configurable from the control panel.

Automatic recognition
Automatic recognition of remote signaller connection.

Bypass plate
Bypass plate on the base to give continuity to the line in the event of removal of a detector, possibility to test loop wiring continuity.

Auto-compensation
Drift compensation for sensor drift caused by dust in the chamber

Adjustable sensitivity
Settable smoke and heat detection sensitivity.

ED100
OPTIC SMOKE DETECTOR

CE-CPR EN54-7 EN54-17 UL-EU LPCB

The ID100 optical smoke detector is based on the Tyndall effect (diffusion of light) and provides first-rate early warning in the event of fire. It offers wide-spectrum detection of smoke particles generated by combustion. The newly designed optical chamber with sealed upper-part and 500 µm holes diameter mesh insect screen ensure high immunity to false alarms. Sensitivity can be modified to adapt the detector to different conditions of use (sensitivity that can be set: 0.08 dB/m - 0.10 dB/m - 0.12 dB/m - 0.15dB/m).

ED100/B Black version

ED200
HEAT DETECTOR

CE-CPR EN54-5 EN54-17 UL-EU LPCB

The detector can be set in the following modes: A1R (fixed threshold at 58°C with thermovelocimetric detection), B (fixed threshold at 72°C), A2S (fixed threshold at 58°C), BR (fixed threshold at 72°C with thermovelocimetric detection). As a result of its high flexibility, this detector is suitable for installation in dusty or smoky environments where the risk of false alarms is high.

ED200/B Black version

ED300
SMOKE AND HEAT DETECTOR

CE-CPR EN54-5 EN54-7 EN54-17 UL-EU LPCB

Combines the two systems to achieve increased sensitivity capable of detecting all types of fire (such as flammable liquid fires with low smoke output) and offers a very high false alarm rejection rate. The operating modes settable from the control panel are:

“PLUS” mode: The detector will trigger an alarm when the measured values exceed the set smoke threshold, or when the measured values exceed the set heat threshold. Furthermore, in the event of a rise in temperature, the smoke detection sensitivity will be taken to maximum value.

“OR” mode: The detector will trigger an alarm when the measured values exceed the set smoke threshold, or when the measured values exceed the set heat threshold. This operating mode, characterized by discrete sensitivity analysis, allows the detector to sense fires with a high emission of smoke and low heat output (for example, smouldering fires) and also fires with low emission of smoke and high heat output (for example, burning chemicals).

“AND” mode: The detector will trigger an alarm only when the set smoke and heat thresholds are exceeded at the same time. This operating mode, characterized by low sensitivity, greatly reduces the risk of false alarms. Given the low reactivity of this operating mode, before using it, conditions must be carefully assessed.

“SMOKE” mode: The detector will operate as per the ED100.

“HEAT” mode: The detector will operate as per the ED200.

ED300/B Black version

TECHNICAL SPECIFICATIONS	
Power supply voltage:	19 - 30 V DC
Standby current consumption	200 µA
Alarm current consumption	Max 10 mA
Settable sensitivity:	A1R (58°C + RoR) - B (72°C) - BR (72°C + RoR) - A2S (58°C)
Operating temperature:	-5° ... +40° C
Height (base included):	54 mm
Diameter:	110 mm
Weight (base included):	160 g
Weight (without base):	90 g

Accessories for smoke and heat detectors

EB0010

Detector base for Iris and Enea series detectors, equipped with short-circuit plate which ensures continuity in the event of removal of the detector from the line.

EB0010/B Black version

EB0020

Detector base for Iris and Enea series detectors equipped with a relay activated by the detector.

EB0020/B Black version

EB0030

Mounting base for Enea and Iris detectors with pipes entry, 4 knock out for 16 mm pipes.
To be installed under the detector base, h 34mm.

EB0040

Base protected against dripping water when tilted up to 15 degrees max.

EB0040H

2 W heater for EB0040 base

EB0050

EB0010 base spacer, to be installed under the base to create a 10mm gap for the entry of exposed cables.

EB0050/B Black version

EB0060

Base for Iris and Enea detectors with integrated buzzer piloted by the ‘R’ output of the detector.
Not compliant with EN54-3 standard.

DD001

This is a cover for unused detectors: it attaches to Inim detector bases, restores line continuity and provides a discrete aesthetic semblance.
Ideal for those applications where bases are installed for the future addition of detectors.

IL0010

Remote alarm signalling LED, directly connectable to the “R” output of addressable or analogue detectors.

EB0010SC

Cable shield connection for EB0010 bases (100 pieces)

Modules for addressable Loops

The interaction of the fire detection and alarm system with all the other building systems is essential for it to be effective in fighting a fire. For this reason, Inim offers a wide range of input/output modules for connection to the Loops of analogue addressable control panels which allow control and activation of external devices, monitoring of the status of appliances and the driving of signaling devices, etc.

EM312SR

INPUT AND OUTPUT MODULE

CE-CPR EN54-17 EN54-18 LPCB

Connects to the Loop and has a supervised input (capable of controlling the status of an external device), a supervised output (capable of driving one or more audible or visual/audible signaling devices) and a free switching output (capable of driving all types of external devices, for example, electromagnets, etc).

- Built-in short-circuit isolator
- 3 multicolour LEDs for input/output/isolator status signalling
- Automatic addressing (each device is identified by an assigned serial number)

TECHNICAL SPECIFICATIONS

Power supply voltage:	19 - 30 V DC	**Relay output:**	Max. 1 A / 30 V
Current draw during standby:	80 µA	**Supervised output:**	Max. 1 A / 30 V
Current draw during alarm:	20mA	**Temperature:**	-5 ... +40°C
Resistance for input balancing:	22 KOhm	**Dimensions:**	53 x 100 x 29 mm
Resistance for alarm input:	2.2 KOhm	**Weight:**	66 g
Resistance for end-of-line supervised output:	22 KOhm		

EM312NAC

INPUT AND OUTPUT MODULE

CE-CPR EN54-17 EN54-18

Allows interfacing of a series of external equipment and devices to an analogue-addressable control panel by means of a supervised input and outputs.

EM312NAC is a variant of EM312SR, suitable for supervising loads connected at a distance greater than one metre from the module.

TECHNICAL SPECIFICATIONS

Power supply voltage:	19 - 30 V DC	**Relay output:**	Max. 1 A / 30 V
Current draw during standby:	80 µA	**Supervised output:**	Max. 1 A / 30 V
Current draw during alarm:	20mA	**Temperature:**	-5 ... + 40 °C
Resistance for input balancing:	22 KOhm	**Dimensions:**	53 x 100 x 29 mm
Resistance for alarm input:	2.2 KOhm	**Weight:**	66 g
Resistance for end-of-line supervised output:	22 KOhm		

EM110

INPUT MODULE

CE-CPR EN54-17 EN54-18

Connects directly to the loop and is equipped with a supervised input (capable of controlling the status of external devices).

- Built-in short-circuit isolator
- Tri-colour LED for input/isolator status signalling
- Automatic addressing (each device is identified by an assigned serial number)

TECHNICAL SPECIFICATIONS

Power supply voltage:	19 - 30 V DC	**Relay output:**	Max. 1 A / 30 V
Current draw during standby:	80 µA	**Supervised output:**	Max. 1 A / 30 V
Current draw during alarm:	20mA	**Temperature:**	-5 ... + 40 °C
Resistance for input balancing:	22 KOhm	**Dimensions:**	53 x 100 x 29 mm
Resistance for alarm input:	2.2 KOhm	**Weight:**	66 g
Resistance for end-of-line supervised output:	22 KOhm		

EM411R
CONVENTIONAL ZONE INTERFACE MODULE

CE-CPR EN54-17

It connects to the Loop and allows a conventional line (max 32 devices) to be interfaced with Inim addressable analogue control panels.

- 1 conventional line input
- 1 relay output (2 voltage-free contacts)
- Built-in short-circuit isolator
- 3 multicolour LEDs for input/output/isolator status signalling
- Automatic addressing (each device is identified by an assigned serial number)

TECHNICAL SPECIFICATIONS

Power supply voltage:	19 - 30 V DC	**Alarm threshold:**	12mA
Current draw during standby:	1.2mA	**Sort-circuit threshold:**	50 Ohm
Current draw during alarm:	60mA	**Relay features:**	Max. 1 A / 30 V
Conventional EOL: Condenser	22 µF 35 V	**Temperature:**	-10° ... +55° C
Tamper threshold without load:	220 nF	**Dimensions:**	53 x 100 x 29 mm
Tamper threshold with load:	220 nF	**Weight:**	66 g

EU311
MICROMODULE

CE-CPR EN54-17 EN54-18 LPCB

Thanks to its reduced-size it can be housed directly inside the enclosure of the device it controls (call point, sounder/flasher, beam detector, etc.), it connects to the loop and has a supervised input (to control the status of a device) and an output powered directly by the Loop (to drive a signalling or audible/visual signalling device).

EU311 Input/Output micromodule

EU311C Input only micromodule non-supervised for control of buttons for alarms, identifies on the Loop as a call point

EU311CV Supervised input only micromodule for control of buttons for allarms, identifies on the Loop as a call point

EU311S Output only micromodule for control of alarm signalling devices, identifies on the Loop as a sounder

TECHNICAL SPECIFICATIONS

Power supply voltage:	19 - 30 V DC	**Temperature:**	-5° ... +40° C
Current draw during standby:	80 µA	**Dimensions:**	53 x 100 x 29 mm
Current draw during alarm:	20mA	**Weight:**	66 g
Resistance for input balancing:	22 KOhm		
Resistance for alarm input:	2.2 KOhm		
Resistance for end-of-line supervised output:	22 KOhm		

EM322AC
MODULE WITH 2 INPUTS AND 2 RELAY OUTPUTS @ 230 V AC

CE-CPR EN54-17 EN54-18 IMQ

It connects to the loop and has two supervised inputs (capable of controlling the status of an external device) and two relays capable of driving mains voltage loads at 230V AC. For each of the two output relays it is possible to enable a supervisory function that allows you to check whether there is voltage across the contact when the relay is in stand-by status.

- Built-in short-circuit isolator
- LEDs to indicate the status of inputs, outputs and communication with the control panel
- Automatic addressing (each device is identified by an assigned serial number)
- DIN rail mounting compatibility

TECHNICAL SPECIFICATIONS

Power supply voltage:	19 - 30 V DC	**Temperature:**	-5° ... +40° C
Current draw during standby:	80 µA	**Dimensions:**	113 x 71 x 43 mm
Current draw during alarm:	10mA	**Weight:**	130 g
Resistance for input balancing:	22 KOhm		
Resistance for alarm input:	2.2 KOhm		
Relay features:	Max. 5A/30 V DC Max. 5A/230 V AC (with resistive load)		

EM3XX

MULTI INPUT/OUTPUT MODULE AND CONVENTIONAL LINE INTERFACE

CE-CPR EN54-17 EN54-18 LPCB

The module connects to the loop and provides different inputs and outputs depending on the model (see table). In the versions equipped with 4 inputs, 2 of these can be configured as conventional zones or 4-20mA inputs, powered by the Loop or by a local power source. The 4 outputs are, depending on the model, supervised for the management of audible/visual signallers or dry contacts.

- Built-in short-circuit isolator
- Automatic addressing (each device is identified by an assigned serial number)
- Terminals for optional local power-supply

MODEL	INPUTS (SELECTABLE AS CONVENTIONAL ZONE)	OUTPUTS
EM344S	4 (2)	4 (supervised)
EM344R	4 (2)	4 (voltage free)
EM340	4 (2)	//
EM304S	//	4 (supervised)
EM304R	//	4 (voltage free)

TECHNICAL SPECIFICATIONS

Power supply voltage:	19 - 30 V DC	Resistance for supervised output:	22 KOhm
Current draw during standby:	80 µA	Output characteristics: Single Total on 4 outputs	 Max. 1 A / 30 V Max. 2 A / 30 V
Current draw during alarm:	20mA	Temperature:	-5° ... +40° C
Resistance for input balancing:	22 KOhm	Dimensions:	106 x 113 x 29 mm
Resistance for alarm input:	2.2 KOhm	Weight:	140 g

EM500

MODULE FOR THE CREATION OF SYNOPTIC PANELS

CE-CPR EN54-17 EN54-18

Thearticle consists of two separate units (both supplied):

EM500 Module: Connects and is powered directly from the loop, provides 8 LED driver connectors (supplied) and 5 input terminals. Each of the 8 LEDs can be configured to activate in response to any condition, and each input can be used for any function.

EM500-EXP Module: connects to the EM500 module via a cable (supplied) and adds a further 24 configurable LEDs, requires an auxiliary supply voltage (24V DC).

- Configurable buzzer
- LED with wire and connector included
- Built-in short-circuit isolator
- Automatic addressing (each device is identified by an assigned serial number)
- Compatible only with Previdia series control panels

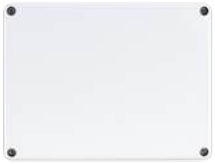
TECHNICAL SPECIFICATIONS

Power supply voltage:	19 - 30 V DC	Temperature:	-5° ... +40° C
Current draw during standby:	200 µA	Dimensions:	83 x 53 mm
Current consumption with LEDs ON:	5mA	Weight:	100g
EXP module stand-by current consumption:	22 KOhm		
EXP module max. current consumption:	2.5mA		

FBOX100

PLASTIC ENCLOSURE

IP65



For housing the EM312SR, EM110, EM411R, EM3xx, EM322AC model Loop modules.
Dimensions: 160 x 120 x 50 mm

FBOX100T Enclosure with transparent lid for modules

Addressable call points

A fire detection and alarm system must be equipped with devices for manual alarm activation to be installed along the escape routes. Following is a series of addressable call points, connectable directly to the Loop.

EC0020
MANUAL CALL POINT

EN54-17 EN54-11 LPCB

Resettable call point, can be connected to the loop and managed by analogue-addressable fire control panels. The device trigger element and red status LED are located in the front of the device casing. After activation the call point can be reset by means of the reset key included in the package.

•Loop short circuit isolator included
- Transparent cover available for protection against accidental activation (WCP0020 item)
- Deep box available for exposed conduit entry (accessory DBCP0020y)
- Flange available for flush mounting on single gang boxes (accessory FCP0020)

TECHNICAL SPECIFICATIONS

Power supply voltage:	19 - 30 V DC	**Temperature:**	-10° ... +55° C
Current draw during standby:	80 µA	**Dimensions:**	84 x 84 x 45 mm
Current draw during alarm:	5mA	**Dimensions deep base:**	33 mm
		Weight:	126 g

KCP0020 Reset key (pack of 10)

EC0020X
COLOURED MANUAL CALL POINT

Call point for various fire signalling applications

EC0030Y Addressable call point in yellow for manual activation of fire extinction systems.
EC0030B Addressable call point in blue without retention for emergency stop release **FOR EXTINGUISHMENT SYSTEMS.**

EC0020G Addressable call point in green
EC0020W Addressable call point in white

EC0012E
MANUAL CALL POINT FOR OUTDOOR USE

CE-CPR EN54-11 EN54-17 EN54-18 IP67

Manual call point for alarm activation for outdoor installations, includes a pre-assembled micromodule for loop connection, it is managed by Inim analogue-addressable fire control panels. After activation the call point can be reset by means of the reset key included in the package

KEY300 Reset key (pack of 10)
SFT304 Transparent protective plate

EM600 - SILENCE BUTTON
HOME MUTE BUTTON

EM601 – INPUT MODULE BUTTON
GENERIC ACTIVATION BUTTON

IMQ

It finds its ideal placement in residential installations and in applications where a control panel is installed for the protection of an entire apartment block with detectors inside each separate apartment.
By installing a call point inside each apartment, in the event of a smoke alarm a voice message will warn the occupants of only the apartment in danger. In the event of a false alarm, generated for instance by cooking, the occupants will have the possibility to silence the alarm, remove the cause and open a window for several minutes to ventilate the room. It is possible to silence an alarm three consecutive times after which the warning will be broadcast to the entire building. Clear and intuitive voice messages guide the building occupants throughout the various phases.

- Loop short circuit isolator included
- Messages in 8 different languages

TECHNICAL SPECIFICATIONS			
Power supply voltage:	19 - 30 V DC	Temperature:	-10° ... +55° C
Current draw during standby:	100 µA	Dimensions:	120 x 95 x 31 mm
Current draw during alarm:	5mA	Weight:	96 g

Addressable alarm indicators

A selection of audible, visual/audible signalling devices also with voice alarm functions connectable and manageable directly via the Loop of Inim control panels.

ES2000
VISUAL/AUDIBLE ALARM INDICATOR, WALL MOUNT

CE-CPR EN54-17 EN54-3

Volume, flash intensity and audio sequences selectable via the control panel (and diversified according to circumstances) selectable from the 14 tones (and 16 messages in 8 different languages for the versions with voice functions) available on board the device. For models with the voice alarm function, it is also possible to customize tones/voice messages by means of the EDRV2000. The device is powered via the loop but is equipped with terminals for an optional separate power input, built-in short-circuit isolator

ES2011RE Wall mount audible alarm signaller, in red
ES2011WE Wall mount audible alarm signaller, in white

ES2021RE Wall mount visual/audible alarm signaller, in red
ES2021WE Wall mount visual/audible alarm signaller, in white

ES2030RE Wall mount audible alarm signaller with voice messages, in red
ES2030WE Wall mount audible alarm signaller with voice messages, in white

ES2050RE Wall mount visual/audible alarm signaller with voice messages, in red
ES2050WE Wall mount visual/audible alarm signaller with voice messages, in white

TECHNICAL SPECIFICATIONS		ES2011 - ES2021	ES2030 - ES2050
Tone:		14 tones selectable via dip switch	14 tones + 16 voice messages selectable via EDRV2000
Sound output @ 1 m:		Max. 101 dB	
Visual range (EN54-23)	High power:	W 3.5-7 - 0-3.5-8-7	W 3.5-10.2 - 0-3.5-10.5-10.0
	Low power:	W 3-6.5 - 0-3-8-6.5	W 2.8-7 - 0-2.8-7.5-7
IP protection grade:		IP65 (certificated for indoor use)	
Operating voltage		18 - 30 V DC	
Current draw:		From 1.4 a 40mA (depending on the selected tone)	
Operating temperature:		-10° ... +55° C	
Weight:		150 g	
Dimensions:		121 x 121 x 57 mm	

ESS021
ADDRESSABLE AUDIBLE-VISUAL WARNING SIGN

EN54-3 EN54-23

ESS022
VISUAL/AUDIBLE WARNING SIGN WITH VISUAL INDICATOR

Red alarm sign complete with EN54-3 certified audible signalling. The ESS021 version is classified as a VID (Visual Indication Device) and is NOT certified for the visual part according to the EN54-23 standard. The ESS022 version is classified as a VAD (Visual Alarm Device) and includes an EN54-23 certified high power visual signaller. Comes with “Fire alarm” written on it, available with different indications on request.

TECHNICAL SPECIFICATIONS	ESS021	ESS022
Sound output @ 1 m:	92 dB (A)	
Light output (ENT4-23):		W 4.6 - 9.1
Flash frequency:		1 Hz
Operating voltage	18 - 30 V DC	
Current draw:	21mA	50mA
Operating temperature:	-10° ... +55° C	
Dimensions:	293 x 130 x 55 mm	

ISS021 - ITA Visual/Audible sign indicating “allarme incendio”
ISS022- ITA Visual/Audible sign with flasher indicating “allarme incendio”
ISS021 - ENG Visual/Audible sign indicating “fire alarm”
ISS022- ENG Visual/Audible sign with flasher indicating “fire alarm”

PICTOGRAMS (PACK OF 10 PIECES)

FOP45 Fire alarm
FOP46 Door alarm
FOP47 Spegnimento in corso
FOP48 Evacuare il locale
FOP49 Allarme gas
FOP36 Fire do not enter
FOP37 Extincion disparada
FOP38 Gas discharge
FOP39 Fuego
FOP34 Presenza acetilene
FOP35 Carenza ossigeno

PLEXI_ES2000

FRAMED PLEXIGLASS PLATE WITH EMERGENCY INDICATION

To be combined with ES2000 indicators, with the wording “FIRE ALARM” (written in white on a red background) and the Inim logo. The panel is supplied with assembling kit and template. Dimensions: 430 x 130 x 4mm

PLEXI_ES2000#1DX	“ALLARME INCENDIO” warning sign with indicating RIGHT
PLEXI_ES2000#1SX	“ALLARME INCENDIO” warning sign with indicating LEFT
PLEXI_ES2000#2DX	“FIRE ALARM” warning sign with indicating RIGHT
PLEXI_ES2000#2SX	“FIRE ALARM” warning sign with indicating LEFT
PLEXI_ES2000#3DX	“EVACUARE IL LOCALE” warning sign with indicating RIGHT
PLEXI_ES2000#3SX	“EVACUARE IL LOCALE” warning sign with indicating LEFT
PLEXI_ES2000#4DX	“SPEGNIMENTO IN CORSO” warning sign with indicating RIGHT
PLEXI_ES2000#4SX	“SPEGNIMENTO IN CORSO” warning sign with indicating LEFT
PLEXI_ES2000#5DX	“ALLARME GAS” warning sign with indicating RIGHT
PLEXI_ES2000#5SX	“ALLARME GAS” warning sign with indicating LEFT

ESB1000

DETECTOR MOUNTING BASE WITH ALARM SIGNALLER

CE-CPR EN54-17 EN54-3 EN54-23 IMQ

Base for Enea series detectors available in Audible, Visual/Audible versions, with or without voice alarm functions. Depending on the model, it is possible to select the alarm tone from the 14 available as well as adjust volume and flasher intensity (in models with flasher components). For models with the voice alarm function, besides the 14 tones, it is also possible to choose from the 16 voice messages available in 8 different languages and, via the EDRV2000, customize tones and voice messages. Loop-powered base.

NON-ADDRESSABLE VERSION

Activated by the “R” output of the detector, it does not occupy any address and cannot differentiate the tone/message in the event of a pre-alarm/alarm.

ISB1011	Non-addressable base with audible signalling
ISB1011B	Non-addressable base with audible signalling, in black
ISB1021	Non-addressable base with audible/visual signalling
ISB1021B	Non-addressable base with audible/visual signalling, in black
ISB1030	Non-addressable base with audible signalling and voice functions
ISB1030B	Non-addressable base with audible signalling and voice functions, in black
ISB1050	Non-addressable base with audible/visual signalling and voice functions
ISB1050B	Non-addressable base with audible/visual signalling and voice functions, in black

ADDRESSABLE VERSION

Occupies its own address and can be activated with different tones in the event of a Warning, Pre-alarm and Alarm, short-circuit isolator included.

ESB1011	Addressable base with audible signalling
ESB1011B	Addressable base with audible signalling, in black
ESB1021	Addressable base with audible/visual signalling
ESB1021B	Addressable base with audible/visual signalling, in black
ESB1020	Addressable base with audible/visual signalling with terminals for local power-supply
ESB1020B	Addressable base with audible/visual signalling with terminals for local power-supply, in black
ESB1030	Addressable base with audible signalling and voice functions
ESB1030B	Addressable base with audible signalling and voice functions, in black
ESB1050	Addressable base with audible/visual signalling and voice functions
ESB1050B	Addressable base with audible/visual signalling and voice functions, in black

TECHNICAL SPECIFICATIONS		ESB1011 - ESB1021 - ISB1011 - ISB1021	ESB1030 - ESB1050 - ISB1030 - ISB1050
Tone:		14 tones selectable via dip switch	14 tones + 16 voice messages selectable via EDRV2000
Sound output @ 1 m:		Max. 98 dB	
Visual range (EN54-23)	High power:	C 3-8 - 0-3,3-8	C 3-10 - 0-4-10
	Low power:	C 3-7 - 0-3-7	C 3-9 - 0-3,5-9
IP protection grade:		IP21	
Operating voltage		18 - 30 V DC	
Current draw:		From 1.4 a 40mA (depending on the selected tone)	
Optional separate power supply:			✓
Operating temperature:		-10° ... +55° C	
Weight:		220 g	
Dimensions:		112 x 112 x 53 mm	

ES1000
CEILING MOUNT ALARM SIGNALLER

CE-CPR EN54-17 EN54-3 EN54-23 IMQ

Addressable visual/audible-alarm indicator for ceiling mounting. Volume, flash intensity and audio sequences selectable via the control panel (and diversified according to circumstances) selectable from the 14 tones (and 16 messages in 8 different languages for the versions with voice functions) available on board the device. For models with the voice alarm function, it is also possible to customize tones/voice messages by means of the EDRV2000. Loop powered but equipped with terminals for optional separate power input in ES1030 and ES1050 versions.

- Available in Audible, Visual/Audilble versions, with or without voice alarm functions
- Built-in short-circuit isolator
- Terminals for local power-supply optional for versions ES1020, ES1030, ES1050
- 14 tones selectable from the control panel (one for pre-alarm and one for alarm)
- 16 messages in 8 different languages for the versions with voice functions
- vocal messages and customizable tones via EDRV2000 programmer

ES1011 Ceiling mount addressable audible signaller
ES1021 Ceiling mount addressable visual/audible alarm signaller
ES1020 Ceiling mount addressable visual/audible alarm signaller with terminals for power-supply
ES1030 Ceiling mount addressable alarm signaller with voice functions
ES1050 Ceiling mount addressable visual/audible alarm signaller with voice functions

TECHNICAL FEATURES		ES1011 - ES1021	ES1030 - ES1050
Tone:		14 tones selectable via dip switch	14 - 16 voice messages selectable via EDRV2000
Sound output @ 1 m:		Max. 98 dB	
Visual range (EN54-23)	High power:	C 3-8 - 0-3,3-8	C 3-10 - 0-4-10
	Low power:	C 3-7 - 0-3-7	C 3-9 - 0-3,5-9
IP protection grade:		IP21	
Operating voltage		18 - 30 V DC	
Current draw:		From 1.4 a 40mA (depending on the selected tone)	
Operating temperature:		-10° ... +55° C	
Weight:		175 g	
Dimensions:		112 x 112 x 53 mm	

ES1000SP
SPACER FOR BASES WITH INTEGRATED SIGNALLER AND CEILING SIGNALLERS

1 cm spacer for ES1000 series ceiling-mount signallers and ESB1000 series bases with integrated signallers. For cable entry in installations where cabling is done using exposed cables. Packs of 10, also available in black.

ES1000SP/B Spacer in black.

EITK2000–ToolKit

See the data sheet online

Kit for manual addressing, configuration, maintenance and diagnostics of systems based on Iris and Enea series devices

EITK2000 is a kit containing:

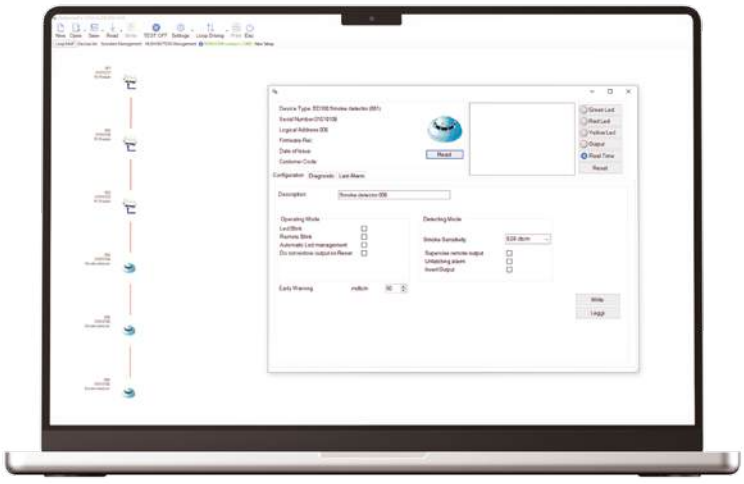
- **EDRV2000 driver**
- **FireGenius-PRO software**
- **Accessories for the connection and power supply**

The EDRV2000 driver allows fast manual addressing of Enea series addressable-analogue devices in cases where the automatic addressing function provided by Inim control panels is not desired.

The driver is equipped with an “ICP” communication port through which it is possible to connect to fire alarm signalers from the Iris and Enea series and configure their operating parameters (select alarm tones/messages, volume, flasher power, etc.).

Through the driver and the FireGenius-PRO software, it is also possible to customize the tones/messages of the signalers by choosing from the large library available and composing tones to your liking or by starting from audio files.

The kit allows full advantage to be taken of the LoopMap and Versa++ technologies integrated in Enea series addressable analogue detectors. By connecting the EDRV2000 driver to the loop and interfacing it with the FireGenius-PRO software, it is possible to reconstruct the loop wiring map. The various devices connected to the loop are identified by their distinct serial numbers and types. The FireGenius-PRO software is capable of reconstructing the wiring order along the cable and to recognize and trace any ‘T’ junctions that are present. By clicking on the system elements, you will be able to establish the status (smoke level, contamination, etc.) and interact in real-time, for example, by activating LEDs or outputs.



ILPS100
LOOP SIMULATOR

Connects to the Loop terminals of Inim control panels and simulates up to 240 devices, allows testing of loop functioning, verification of configuration and the cause/effect activation logics without having to physically connect the devices. Connects to a PC via the USB port (electrically decoupled so as not to interfere with the control panel and generate earth faults) and thanks to the "ILP Simulator" software it is possible to:

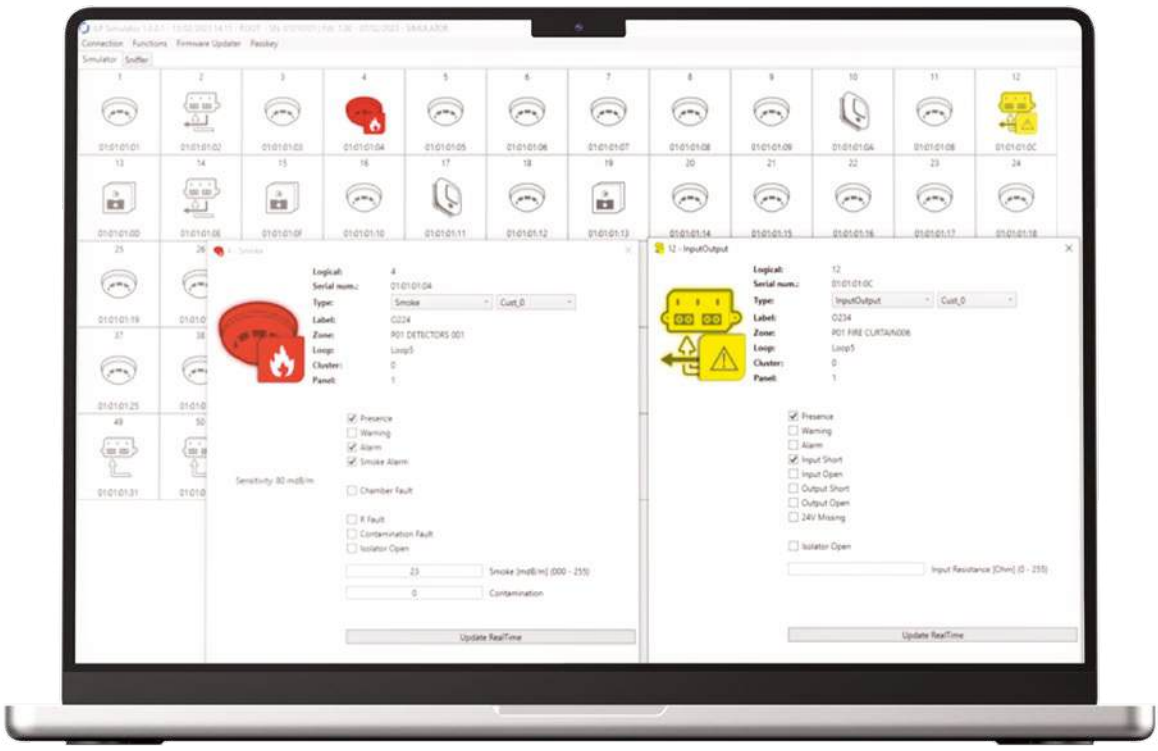
- Transfer to the ILPS100 device the configuration of a specific Loop extrapolated from a solution saved with the Previdia Studio software (simply export a solution to a file and open the file with the ILP Simulator software)
- View the loop activity, the software will show in real time how the control panel queries the various simulated devices
- Check the activation status of the simulated devices (the software will show the status of the outputs, LEDs and sounder-flashers in real time)
- Simulate a specific status on each of the devices (through the software it is possible, for each device, to activate the status of alarm, fault, warning, etc. or modify the analogue value)

The ILPS100 device, once configured, can be disconnected from the PC and left connected to the control panel to continue simulating the devices in the set mode.

To simulate several loops at the same time it is possible to use diverse ILPS100s managed by several instances of the ILP Simulator software running on the same PC.

ILP Simulator Software

The ILP Simulator software combines with the ILPS100 simulator



Argus Security devices

Third-party addressable analogue devices recognized by Inim control panels

Thanks to the OpenLoop technology, Inim addressable analogue control panels are compatible with third-party equipment as well as with Inim devices. This unique feature offers the professional a wide choice suitable for any installation.

Argus devices must be connected on dedicated Loops on which the Argus protocol must be set (software selection), devices with different protocols cannot coexist on the same loop.

A1000
ALTAIR SERIES ADDRESSABLE FIRE DETECTORS

CE-CPR EN54-17 EN54-5 EN54-7

Point smoke, heat and combined detector. The use of these devices requires an unlock code paired with each control panel supplied by Inim on request. Only Ax000 series devices can be addressed from the control panel (self-addressing) or by using the ALPU1000 hand-held programmer.

A1000	Optical smoke detector
A3500	Heat detector
A2000	Smoke and Heat detector

TECHNICAL SPECIFICATIONS

Power supply voltage:	18 - 40 V DC	**Height:**	54 mm
Standby current consumption	70 µA	**Diameter:**	110 mm
Alarm current consumption	Max 20 mA	**Weight:**	130 g
Operating temperature:	-30° ... +70° C		

LAB1000
MOUNTING BASES FOR ALTAIR SERIES DETECTORS

The LAB1000 mounting base is compatible with all types of Altair Series analogue addressable Fire detectors. The device has connection terminals for the loop wiring and for the connection of the remote signaller. In the absence of an installed fire detector, the automatic spring connection maintains loop continuity thus allowing the wiring test. As soon as the detector is reassembled, proper operation with the loop isolators will be restored.

VMMI100
ADDRESSABLE INPUT/OUTPUT MODULES

CE-CPR EN54-18 EN54-17

Argus series modules allow status monitoring of external devices (input modules) or control of external devices or actuators (output modules). The modules include a short-circuit isolator and are available in Mini (96 x 52mm) or Wall (86 x 86mm) version

MINI-MODELS:

VMMI100	Mini Module single supervised input
VMMC100	Mini Module single supervised output
VMMIC100	Mini Module supervised input/output
VMMIC120	Mini Module voltage free input/output
VMMC120	Mini Module unsupervised output

WALL-MOUNT MODELS:

VMI100	Wall mount single supervised input module
VMC100	Wall mount single supervised output module
VMIC100	Wall mount supervised input/output module
VMIC120	Wall mount voltage free input/output module
VMC120	Wall mount unsupervised output module
VMCZ100	Conventional zone interface module

TECHNICAL SPECIFICATIONS

Power supply voltage:	18 - 40 V DC	Mini-version dimensions:	75 x 52 x 28 mm
Standby current consumption	120 µA	Wall-mount version dimensions:	87 x 87 x 32 mm
Alarm current consumption	Max 6 mA	Weight:	200 gr
Operating temperature:	-30°C ... +70°C	Maximum wire section:	2.5 mm²

ALCP100
ADDRESSABLE CALL POINT

CE-CPR EN54-11 EN54-17

The devices can be addressed from the control panel (self-addressing) or by using the ALPU1000 hand-held programmer.

ALCP100	Addressable manual call point for indoor use
AI-CPW-R-01	Addressable manual call point for outdoor use
ALCI	Transparent plexiglass protection against accidental activations

TECHNICAL SPECIFICATIONS

Power supply voltage:	18 - 40 V DC
Standby current consumption	35 µA
Alarm current consumption	Max 20 mA
Operating temperature:	-30° ... +70° C

AI-BS-01
BASES FOR ALTAIR SERIES DETECTORS WITH ALARM SIGNALLERS

CE-CPR EN54-3 EN54-23

Bases with visual or visual/audible alarm signaller The signaller is activated by the remote output of the detector itself, the activation condition of which can be programmed in the control panel.

AI-BS-01	Base with audible signaller
AI-BSB-23W-01	Base with white light visual/audible signaller
AI-BSB-23R-01	Base with red light visual/audible signaller

TECHNICAL SPECIFICATIONS

Power supply voltage:	18 - 40 V DC
Standby current consumption	120 µA
Operating temperature:	-10° ... +55° C

CWS100

VISUAL OR VISUAL-AUDIBLE WALL-MOUNT ALARM SIGNALLERS

CE-CPR EN54-17 EN54-3 EN54-23

Conventional wall-mount alarm signallers, with the addition of the ALWS-MOD module installed inside the signaller it is possible to connect and power the device directly via the loop.

CWS100	Conventional alarm signaller, in red
CWS100(W)	Conventional alarm signaller, in white
CWS100-AV	Visual-audible conventional alarm signaller, in red
CWS100-AV(W)	Visual-audible conventional alarm signaller, in white
ALWS-MOD	Module for the connection of signallers to Argus loops

TECHNICAL SPECIFICATIONS	
Power supply voltage:	18 - 40 V DC
Standby current consumption	120 µA
Operating temperature:	-10° ... +55° C

ALPU1000

ARGUS HAND-HELD PROGRAMMER

Configures the addresses of Argus series devices.

Apollo devices

Third-party addressable analogue devices recognized by Inim control panels

Thanks to the OpenLoop technology, the Inim addressable analogue control panels are compatible with third-party equipment as well as with the Inim devices. This unique feature offers the professional a wide choice suitable for every installation. Apollo devices must be connected on dedicated Loops on which the Apollo protocol must be set (software selection), devices with different protocols cannot coexist on the same loop.

XP95 SERIES ADDRESSABLE FIRE DETECTORS

CE-CPR EN54-5 EN54-7 EN54-17

Compatible with Inim control panels by setting the Apollo protocol on the loop they are connected to. Various classes of smoke, heat and combined smoke and heat detectors are available. The detectors DO NOT include the short-circuit insulator which has a separate code.

55000-620APO	XP95 addressable smoke detector
55000-420APO	XP95 addressable heat detector (class A2S)
55000-401APO	XP95 addressable heat detector (class CS)
55000-885APO	XP95 addressable smoke and heat detector
55000-660APO	XP95 addressable smoke detector, in black

DISCOVERY SERIES ADDRESSABLE FIRE DETECTORS

CE-CPR EN54-5 EN54-7 EN54-17

Compatible with Inim control panels by setting the Apollo protocol on the loop they are connected to. Smoke, heat, carbon monoxide or combined detectors are available, the sensitivities of which can be set from the control panel.
The detectors DO NOT include the short-circuit insulator which has a separate code.

58000-600APO	DISCOVERY addressable smoke detector
58000-400APO	DISCOVERY addressable heat detector
58000-300APO	DISCOVERY addressable CO detector
58000-700APO	DISCOVERY addressable smoke and heat detector
58000-305APO	DISCOVERY addressable CO and heat detector

MOUNTING BASES FOR XP95 AND DISCOVERY SERIES DETECTORS

Compatible with both XP95 and DISCOVERY series detectors, available both in the standard version (with XPERT-CARD address selection included) and with isolator, deep version and black version.

45681-210APO	Mounting base for Apollo detectors
45681-361APO	Mounting base for Apollo detectors, in black
45681-284APO	Mounting base for Apollo detectors with short-circuit isolator
45681-209APO	Mounting base for Apollo detectors, deep (24 mm)
45681-211APO	Mounting base with short-circuit isolator (55000-720APO)

LOOP SHORT-CIRCUIT ISOLATOR

CE-CPR EN54-17

The Loop short-circuit isolator is capable of interrupting the continuity of the loop in the event of a short-circuit and of isolating the short-circuited section.

55000-720APO	APOLLO loop short-circuit isolator

APOLLO ADDRESSABLE CALL POINT

CE-CPR EN54-11 EN54-17

58100-910APO	DISCOVERY call point
58100-908APO	DISCOVERY call point with isolator
58200-950APO	DISCOVERY call point for outdoor use
58200-951APO	DISCOVERY call point with isolator for outdoor use
58100-927APO	DISCOVERY call point, in yellow
58100-953APO	DISCOVERY call point with isolator for outdoor use, in yellow
55100-905APO	XP95 call point
55100-908APO	XP95 call point with isolator
SA5900-908APO	Intelligent series call point, in red
SA5900-905APO	Intelligent series call point, in blue
SA5900-906APO	Intelligent series call point, in green
SA5900-907APO	Intelligent series call point, in orange
SA5900-903APO	Intelligent series call point, in white
SA5900-904APO	Intelligent series call point, in yellow

SURFACE MOUNT INPUT/OUTPUT MODULES

CE-CPR EN54-18 EN54-17

These allow checks on the status of external devices. Loop short-circuit isolator included.

SA4700-102APO	Input/Output module
SA4700-103APO	Input/Output module for loads of 230 V AC
SA4700-104APO	Two inputs/two outputs module
SA4700-100APO	Input module
SA6700-100APO	Two inputs module
55000-852APO	Output module for conventional sounders
55000-588APO	Three inputs/outputs module
55000-845APO	Conventional zone interface module

DIN RAIL MOUNT INPUT/OUTPUT MODULES

CE-CPR EN54-18 EN54-17

These allow checks on the status of external devices. Loop short-circuit isolator included.

SA4700-302APO	Input/Output module
SA4700-300APO	Input module
55000-182APO	Output module for conventional sounders
55000-797APO	Output module for loads of 230 V AC
55000-802APO	Isolator module (two channels)
55000-760APO	Mini Input module
55000-812APO	Conventional zone interface module

VISUAL ALARM SIGNALLERS

CE-CPR EN54-17 EN54-23

Certified visual alarm signallers arev to be considered Visual Alarm Devices (VAD).

55000-742APO	Ceiling mount visual signaller (C-3-8) Red plastic, white light
55000-745APO	Ceiling mount visual signaller (C-3-8) White plastic, white light
55000-741APO	Wall mount visual signaller (W-2.4-6) Red plastic, white light
55000-744APO	Wall mount visual signaller (W-2.4-6) White plastic, white light

VID WALL MOUNT VISUAL/AUDIBLE ALARM SIGNALLERS

CE-CPR EN54-17 EN54-3

Alarm signallers with only the audible part certified, the visual part, for those models that forsee it, is not certified and thus to be considered a Visual Indication Device (VID).

58000-005APO	DISCOVERY Sounder with flasher Red plastic - Red flasher
58000-007APO	DISCOVERY Sounder with flasher White plastic - Red flasher
55000-001APO	XP95 sounder Red plastic - With isolator
55000-002APO	XP95 sounder White plastic- With isolator
55000-005APO	XP95 Sounder with flasher Red plastic - Red flasher
55000-274APO	XP95 Open area sounder for outdoor installation Red plastic
55000-291APO	XP95 Open area sounder with flasher Red plastic - Red flasher
55000-293APO	XP95 Open area sounder with flasher Red plastic - Red flasher - With isolator
55000-294APO	XP95 Open area sounder with flasher White plastic - Red flasher - With isolator
55000-296APO	XP95 Open area sounder with flasher for outdoor installation Red plastic - Red flasher
55000-298APO	XP95 Open area sounder with flasher Red plastic - Red flasher - With isolator
55000-299APO	XP95 Open area sounder with flasher for outdoor installation White plastic - Red flasher - With isolator

MOUNTING BASE FOR APOLLO DETECTORS WITH ALARM SIGNALLERS

CE-CPR EN54-23 EN54-3

Alarm signallers integrated into the detector mounting bases. Signallers, depending on the models, are available with the visual part certified (VAD) or non-certified (VID), in the audible-only or visual-audible version, with or without short-circuit isolator.

45681-278APO	XP95 sounder base with own address
45681-276APO	XP95 sounder base activated by remote detector output
45681-277APO	XP95 sounder base with own address and short-circuit loop isolator
45681-702APO	DISCOVERY sounder base with own address and isolator
45681-300APO	DISCOVERY sounder base with own address and short-circuit isolator Loop - DIN tone
45681-290APO	DISCOVERY sounder base with own address and short-circuit isolator Loop, Slow Whoop tone
45681-331APO	XP95 sounder base with own address Red VID flasher
45681-330APO	XP95 sounder base with own address Red VID flasher, with short-circuit loop isolator
45681-332APO	XP95 sounder base with own address Red VID flasher, with short-circuit loop isolator, DIN tone
45681-393APO	DISCOVERY sounder base with own address Red VID flasher, with short-circuit loop isolator
45681-705APO	XP95 sounder base with own address Red VAD flasher (cat. O), with short-circuit loop isolator
45681-707APO	XP95 sounder base with own address Red VAD flasher (cat. O), with short-circuit loop isolator, DIN tone
45681-700APO	DISCOVERY sounder base with own address Red VAD flasher (cat. O), with short-circuit loop isolator


WD100

Wireless devices

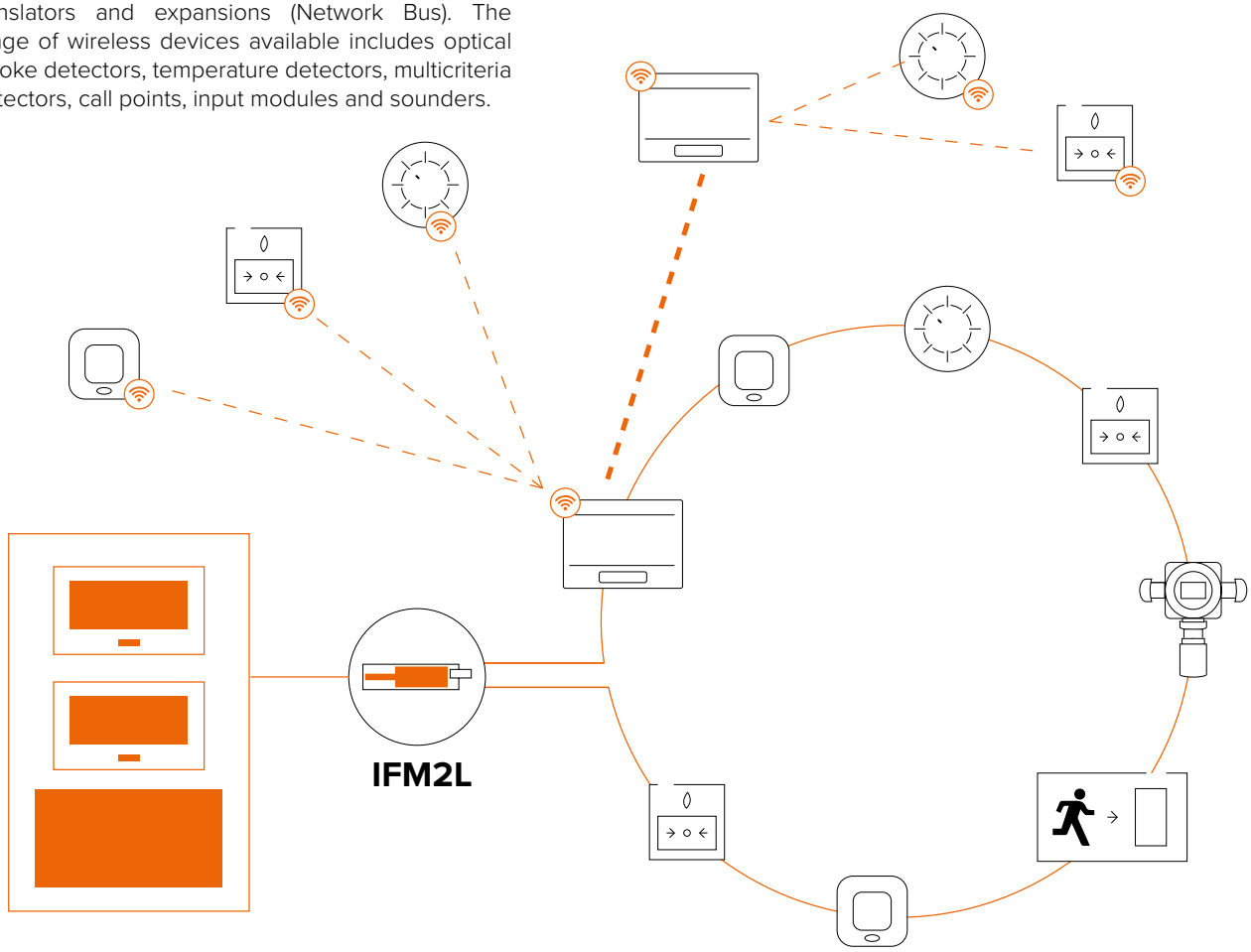
See the data sheet online

The revolutionary FireVibes system

The FireVibes, compatible only with Previdia series control panels, represents an excellent solution for those installations where the laying of cables for the connection of detectors would result difficult or excessively expensive (museums, churches, etc.).

The protocol translator, which connects and is powered directly via the loop, allows the control panel to communicate with up to 128 wireless devices. The communication between translator and devices can be either direct or through repeater modules which allow range extension and the creation of a redundant network which offers alternative routes in the event of the loss of a node.

Wireless communication is based on two-way dual channel technology capable of guaranteeing a distance of up to 200 meters between translators and devices (Field Bus) and up to 1000 meters between translators and expansions (Network Bus). The range of wireless devices available includes optical smoke detectors, temperature detectors, multicriteria detectors, call points, input modules and sounders.



EWT100

TRANSLATOR FROM INIM LOOP TO WIRELESS DEVICES

CE-CPR EN54-17 EN54-18 EN54-25

It is recognized on the loop as an Inim addressable device and occupies, in addition to its own, an address for each wireless device associated with it. The translator can manage directly up to a maximum of 32 wireless devices or, by adding XWT100 expansion modules, up to a maximum of 128 devices. It is powered via the Loop or via a local power source by connecting a 24 V power supply.

- Built-in short-circuit isolator
- Mesh network with redundant route to expansion modules
- Two-way wireless communication
- Internal antenna
- Communication range up to 1Km towards translators and expansion modules, up to 200m between translator/expansion modules and wireless devices

EWT100/B Translator, in black

TECHNICAL SPECIFICATIONS

Power supply voltage:	18 - 33 V DC	**Protection grade:**	IP30
Frequency:	868 - 870 Mhz	**Maximum humidity:**	90% RH
Maximum radiated power:	14 dBm (25 mW)	**Dimensions:**	235 x 160 x 70 mm
Operating temperature:	-10° ... +55° C	**Weight:**	700 g

IWT100

WIRELESS TRANSLATOR FOR CONVENTIONAL CONTROL PANELS

CE-CPR EN54-18 EN54-25

Allows integration of a FireVibes wireless network into a conventional fire detection system. To be connected to the zone line and the sounder line of a conventional control panel. In this way, the control panel will be able to:

- Detect fire alarms coming from the area protected by the wireless system.
- Activate or mute the sounders of the FireVibes system.

For operation, the translator requires an external EN 54-4 certified power source (from the control panel if available).

- Internal antenna
- Wireless communication range up to 1Km toward translators and expansion modules, up to 200 m between translator/expansion modules and wireless devices

TECHNICAL SPECIFICATIONS

Power supply voltage:	9 - 30 V DC	**Protection grade:**	IP30
Frequency:	868 - 870 Mhz	**Maximum humidity:**	90% RH
Maximum radiated power:	14 dBm (25 mW)	**Dimensions:**	235 x 160 x 70 mm
Operating temperature:	-10° ... +55° C	**Weight:**	700 g

XWT100
WIRELESS EXPANSION

CE-CPR EN54-18 EN54-25

Compatible with EWT100 and IWT100 translators, allows increase of range and extension of the FireVibes wireless system. Each expansion can manage a maximum of 32 devices, each FireVibes system manages up to 15 XWT100 expansions.
The expansions automatically manage redundant routes, in such a way that if one expansion in the chain fails the communication will find an alternate route. Redundant routes are identified and tested during system commissioning. All expansions are fully monitored to ensure that the highest levels of safety are maintained. The module is powered by a voltage of 24 V.

- Built-in short-circuit isolator
- Mesh network with redundant route to expansion modules
- Two-way wireless communication
- Internal antenna
- Wireless communication range up to 1Km toward translators and expansion modules, up to 200 m between translator/expansion modules and wireless devices
- Up to 32 manageable wireless devices
- Wireless links based on dual channel
- Wireless devices completely managed individually via control panel
- Configuration of wireless devices from keypad and local display screen or via FireVibes Studio software

XWT100/B Expansion, in black

TECHNICAL SPECIFICATIONS

Power supply voltage:	9 - 30 V DC	**Protection grade:**	IP30
Frequency:	868 - 870 Mhz	**Maximum humidity:**	90% RH
Maximum radiated power:	14 dBm (25 mW)	**Dimensions:**	235 x 160 x 70 mm
Operating temperature:	-10° ... +55° C	**Weight:**	700 g

WD100
WIRELESS FIRE DETECTORS

CE-CPR EN54-25 EN54-5 EN54-7

WD100 SMOKE DETECTOR
WD100B SMOKE DETECTOR BLACK COLOUR

Based on a dual infrared detection optics (double reflection angle), guarantees rapid smoke detection and high rejection of false alarms. The detector is completely managed by the control panel (if combined with addressed control panels) and the individual details relating to its status are shown on the same.

WD200 HEAT DETECTOR
WD200B HEAT DETECTOR BLACK COLOUR

Capable of signalling the presence of a fire hazard based on the temperature detected in the environment. The detector is completely managed by the control panel (if combined with addressed control panels) and the individual details relating to its status are shown on the same. It can be set from the control panel as rate-of-rise (A1R) or fixed high temperature (BS).

WD300 SMOKE AND HEAT DETECTOR
WD300B SMOKE AND HEAT DETECTOR BLACK COLOUR

The WD300 detector combines the features of the WD100 wireless smoke detectors and the WD200 temperature detectors in a single detector. The detector is completely managed by the control panel (if combined with addressed control panels) and the individual details relating to its status are shown on the same.

TECHNICAL SPECIFICATIONS

Batteries:	2 x CR123 A	**Protection grade:**	IP40
Frequency:	868 - 870 Mhz	**Maximum humidity:**	95% RH
Maximum radiated power:	14 dBm (25 mW)	**Dimension:**	110 x 70 mm
Operating temperature:	-10° ... +55° C	**Weight:**	155 g

WC0010
WIRELESS CALLPOINT

CE-CPR EN54-11 EN54-25

The WC0010 call point, compatible with EWT100 addressable translators or XWT100 expansions, allows the manual signalling of a fire danger condition. Resettable after activation by means of the plastic key (supplied), replacement of parts not required.

- Wireless communication based on two redundant channels
- Wireless communication range extendable up to 200 m
- Standard lithium battery guaranteed 10 years

TECHNICAL SPECIFICATIONS

Batteries:	2 x CR123 A	**Protection grade:**	IP42
Maximum humidity:	95% RH	**Dimension:**	88 x 87 x 61 mm
Frequency:	868 - 870 Mhz	**Weight:**	160 g
Maximum radiated power:	14 dBm (25 mW)		
Operating temperature:	-10° ... +55° C		

WM202SR
WIRELESS OUTPUT MODULE

CE-CPR EN54-18 EN54-25

The WM202SR output module is equipped with a relay output (Dry contact) and a supervised output capable of supplying a voltage of 12 or 24 V DC starting from the internal battery.
The module is completely managed by the control panel (if combined with addressed control panels).

- Two-way wireless communication
- Wireless communication range extendable (up to 200 m)
- Standard lithium battery guaranteed 5 years

TECHNICAL SPECIFICATIONS

Relay output:	2 A @ 30 V DC	**Protection grade:**	IP65
Frequency:	868 - 870 Mhz	**Dimension:**	88 x 87 x 61 mm
Maximum radiated power:	14 dBm (25 mW)	**Weight:**	233 g
Operating temperature:	-10° ... +55° C	**Batteries:**	2 x CR123A
Maximum current on supervised outputs:	100 mA @ 12 V DC 50 mA @ 24 V DC		

WM110
WIRELESS INPUT MODULE

CE-CPR EN54-18 EN54-25

The WM110 input module is equipped with a supervised input and is compatible with EWT100 addressable translators or XWT100 expansions.

- Two-way wireless communication
- One supervised input
- Wireless communication range extendable (up to 200 m)
- Standard lithium battery guaranteed 10 years

TECHNICAL SPECIFICATIONS

Relay output:	2 A @ 30 V DC	**Protection grade:**	IP65
Frequency:	868 - 870 Mhz	**Dimension:**	88 x 87 x 61 mm
Maximum radiated power:	14 dBm (25 mW)	**Weight:**	233 g
Operating temperature:	-10° ... +55° C	**Batteries:**	2 x CR123A
Maximum current on supervised outputs:	100 mA @ 12 V DC 50 mA @ 24 V DC		

WSB1010
SOUNDER BASE FOR WIRELESS DETECTORS

CE-CPR EN54-3 EN54-25

Occupies its own address in order to be managed independently by the detector it is associated with. It manages 32 different tones selectable via DIP switch and can be activated with two different tones (pre-alarm and alarm activation). The sounder base is compatible with the EWT100 addressable translators or the XWT100 expansions modules. The signaller can be used as a standalone ceiling-mount signaller (without detector) using the optional white or red cap.

- Two-way wireless communication
- Wireless communication based on two redundant channels
- Wireless communication range extendable (up to 200 m)
- Standard lithium batteries guaranteed 5 years
- Uses low cost standard lithium batteries

WSB1010	Sounder base for wireless detectors
WSB1010B	Sounder base for wireless detectors, in black
LID200-AL/W	White cap for installation without detector
LID200-AL/R	Red cap for installation without detector

TECHNICAL SPECIFICATIONS

Maximum humidity:	95% RH	**Protection grade:**	IP21
Frequency:	868 - 870 Mhz	**Dimension:**	129 x 54 mm
Maximum radiated power:	14 dBm (25 mW)	**Weight:**	221 g
Operating temperature:	-10° ... +55° C	**Batteries:**	2 x CR123A
Sound output:	from 88 to 91 dB		

WSB1020
SOUNDERBEACON BASE FOR WIRELESS DETECTORS

CE-CPR EN54-3 EN54-23 EN54-25

Occupies its own address in order to be managed independently by the detector it is associated with. It manages 32 different tones selectable via DIP switch and can be activated with two different tones (pre-alarm and alarm activation). The sounder base is compatible with the EWT100 addressable translators or the XWT100 expansions modules. The signaller can be used as a standalone ceiling-mount signaller (without detector) using the optional white or red cap.

- Two-way wireless communication
- Wireless communication based on two redundant channels
- Wireless communication range extendable (up to 200 m)
- Standard lithium batteries guaranteed 5 years
- Uses low cost standard lithium batteries

WSB1020	Sounderbeacon base for wireless detectors - White LED light
WSB1020B	Sounderbeacon base for wireless detectors - White LED light
WSB1021	Sounderbeacon base for wireless detectors - Red LED light
LID200-AL/W	White cap for installation without detector
LID200-AL/R	Red cap for installation without detector

TECHNICAL SPECIFICATIONS

Maximum humidity:	95% RH	**Protection grade:**	IP21
Frequency:	868 - 870 Mhz	**Dimension:**	129 x 54 mm
Maximum radiated power:	14 dBm (25 mW)	**Weight:**	221 g
Operating temperature:	-10° ... +55° C	**Batteries:**	2 x CR123A
Sound output:	from 88 to 91 dB		

WS2010RE

WALL-MOUNT WIRELESS AUDIBLE-VISUAL SIGNALLERS

CE-CPR EN54-23 EN54-25 EN54-3

The WS20x0 series wall-mount wireless alarm signallers are compatible with the EWT100 addressable translators or the XWT100 expansions modules. In the various versions they have an audible signaller with 32 selectable tones and a white light flasher.

- Activable with two different tones (pre-alarm and alarm)
- Level adjustable via Dip Switch (4 levels)
- Adjustable flash power
- Two-way wireless communication
- Wireless communication range extendable (up to 200 m)
- Uses standard lithium batteries, guaranteed 5 years

WS2010RE	Wireless wall-mount audible signalling device, enclosure in red plastic
WS2020RE	Wireless wall-mount visual/audible signalling device, enclosure in red plastic
WS2010WE	Wireless wall-mount audible signalling device, enclosure in white plastic
WS2020WE	Wireless wall-mount visual/audible signalling device, enclosure in white plastic

TECHNICAL SPECIFICATIONS

Maximum humidity:	95% RH	**Protection grade:**	IP33
Frequency:	868 - 870 Mhz	**Dimension:**	Ø 130 x 192 mm
Maximum radiated power:	14 dBm (25 mW)	**Weight:**	380 g
Operating temperature:	-10° ... +55° C	**Batteries:**	2 x CR123A
Sound output:	100 dB	**Visual range:**	W 2,5-7

WIL0010

WIRELESS REMOTE INDICATOR

The WIL0010 wireless remote warning light provides signalling of the activation of any of the detectors installed in non-accessible environments (false ceilings, floating floors) or signalling of the activation of an outdoor alarm.

- Two-way wireless communication
- Wireless communication range extendable (up to 200 m)
- Uses standard lithium batteries, guaranteed 5 years

TECHNICAL SPECIFICATIONS

Maximum humidity:	95% RH	**Protection grade:**	IP33
Frequency:	868 - 870 Mhz	**Dimension:**	80 x 80 x 32 mm
Maximum radiated power:	14 dBm (25 mW)	**Weight:**	66 g
Operating temperature:	-10° ... +55° C	**Batteries:**	2 x CR123A
Sound output:	100 dB	**Visual range:**	W 2,5-7

EWT100-TESTER

KIT FOR WIRELESS SIGNAL TEST

The case comprises: a test transmitter, a test detector, a Bluetooth adapter and a wireless transmitter for communication with Android APP. The kit allows the installer to carry out placement tests and evaluate the wireless signal before proceeding with the installation of the system. The wireless signal value transmitted by the test detector and test transmitter can be viewed on the App for android systems (smartphone-tablet) downloadable from the store.

EWT100-TESTER	TEST KIT
EWT100-DONGLE	Bluetooth adaptor - Transceiver (already included in the KIT)
EWT100-WD2	Test detector (already included in the KIT)
EWT100-XWT1	Test transceiver (already included in the KIT)

EWT100-DONGLE
BLUETOOTH ADAPTOR - TRANSCEIVER

FireVibes wireless adapter, allows the connection of a PC to the translator for system management.

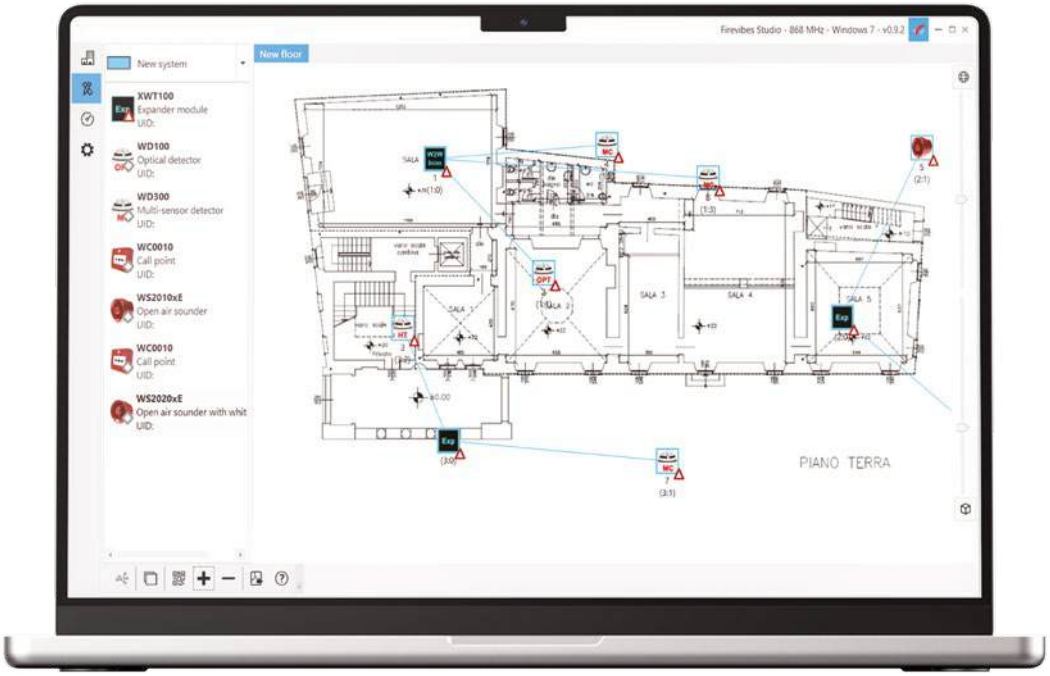
LID200-AL/X
CAPS FOR SOUNDER BASE WITHOUT DETECTOR

LID200-AL/R	Red cap
LID200-AL/W	White cap

FireVibes/STUDIO

FireVibes/STUDIO configuration software provides a complete set of advanced and easy-to-use functions for configuration, data acquisition, monitoring and reporting. The software is based on a practical and intuitive graphical interface, it allows the positioning of the devices directly on the topological map of the site for a clear representation that allows quick and safe commissioning.

- Device QR code scan with the PC camera for easy importing into the system
- Drag and drop of the devices on the site plans
- “ConfigWizard” button for automatic learning of all the devices introduced in the system
- “LiveDisplay” function provides a real-time view of the status of all system elements




ID100
ID100

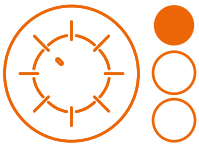
Iris series conventional devices

See the data sheet online

Easy installation and advanced technology

The IRIS series conventional point detectors and manual call points are designed for connection to conventional control panels or Loop modules for managing conventional lines.

Characterized by their low cost and ease of installation, they provide sophisticated technology that makes them unique devices capable of meeting every need, even in the most complex installations.

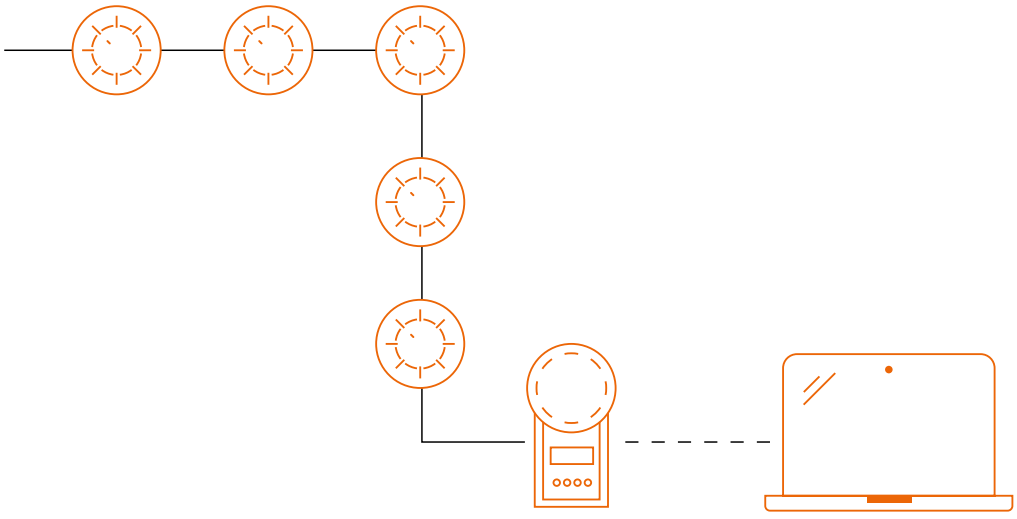


VERSA++

By means of the unique technology of Inim detectors it is possible to configure each detector according to the conditions of the specific ambient in which it will be placed.

By connecting to a line of detectors it is possible to perform for each of them a complete diagnosis, test functionality, check the real-time value reading, view the contamination value of the optical chamber, modify the sensitivity and operating mode.

Each detector has a non-volatile memory which allows you to view the smoke and temperature levels measured in the period prior to the last alarm detected.



ID100
OPTIC SMOKE DETECTOR

CE-CPR EN54-7 UL-EU LPCB

The ID100 optical smoke detector is based on the Tyndall effect (diffusion of light) and provides first-rate early warning in the event of fire. It offers wide-spectrum detection of smoke particles generated by the majority of fires. The newly designed optical chamber with sealed upper-part and 500 µm holes diameter mesh insect screen ensure high immunity to false alarms.

ID100/B Black version

ID200
HEAT DETECTOR

CE-CPR EN54-5 EN54-17 UL-EU LPCB

The detector can be set in the following modes: A1R (fixed threshold at 58°C with thermovelocimetric detection), B (fixed threshold at 72°C), A2S (fixed threshold at 58°C), BR (fixed threshold at 72°C with thermovelocimetric detection). As a result of its high flexibility, this detector is suitable for installation in dusty or smoky environments where the risk of false alarms is high.

ID200/B Black version

ID300
SMOKE AND HEAT DETECTOR

CE-CPR EN54-5 EN54-7 EN54-17 UL-EU LPCB

Combines the two systems to achieve increased sensitivity capable of detecting all types of fire (such as flammable liquid fires with low smoke output) and offers a very high false alarm rejection rate. The operating modes settable from the control panel are:

“PLUS” mode: (set at factory) The detector will trigger an alarm when the measured values exceed the set smoke threshold, or when the measured values exceed the set heat threshold. Furthermore, in the event of a rise in temperature, the smoke detection sensitivity will be taken to maximum value.

“OR” mode: The detector will trigger an alarm when the measured values exceed the set smoke threshold, or when the measured values exceed the set heat threshold. This operating mode, characterized by discrete sensitivity analysis, allows the detector to sense fires with a high emission of smoke and low heat output (for example, smouldering fires) and also fires with low emission of smoke and high heat output (for example, burning chemicals).

“AND” mode: The detector will trigger an alarm only when the set smoke and heat thresholds are exceeded at the same time. This operating mode, characterized by low sensitivity, greatly reduces the risk of false alarms. Given the reduced response, it is necessary to evaluate the risk factor before selecting this operating mode.

“SMOKE” mode: The detector will operate as per the ED100.

“HEAT” mode: The detector will operate as per the ED200.

ID300/B Black version

TECHNICAL SPECIFICATIONS	
Power supply voltage:	10 - 30 V DC
Standby current consumption	90 µA
Alarm current consumption	Max 40 mA
Settable sensitivity:	0.08 – 0.10 – 0.12 – 0.15 dBm
Operating temperature:	-5° ... +40° C
Height (base included):	54 mm
Diameter:	110 mm
Weight (base included):	160 g
Weight (without base):	90 g

Accessories for smoke and heat detectors

EB0010

Detector base for Iris and Enea series detectors, equipped with short-circuit plate which ensures continuity in the event of removal of the detector from the line.

EB0010B Black version

EB0020

Detector base for Iris and Enea series detectors equipped with a relay activated by the detector.

EB0020B Black version

EB0030

Mounting base for Enea and Iris detectors with pipes entry, 4 knock out for 16 mm pipes.
To be installed under the detector base, h 34mm.

EB0040

Base protected against dripping water when tilted up to 15 degrees max.

EB0040H

2 W heater for EB0040 base.

EB0050

EB0010 base spacer, to be installed under the base to create a 10mm gap for the entry of exposed cables.

EB0050B Black version

EB0060

Base for Iris and Enea detectors with integrated buzzer piloted by the ‘R’ output of the detector.
Not compliant with EN54-3 standard.

DD001

This is a cover for unused detectors: it attaches to Inim detector bases, restores line continuity and provides a discrete aesthetic semblance.
Ideal for those applications where bases are installed for the future addition of detectors.

IL0010

Remote alarm signalling LED, directly connectable to the “R” output of addressable or analogue detectors.

EB0010SC

Cable shield connection for EB0010 bases (package of 100 pieces)

Conventional call points

A fire detection and alarm system must be equipped with devices for manual alarm activation to be installed along the escape routes. Following is a series of conventional call points for various installation types.

IC0020
MANUAL CALL POINT

EN54-11 LPCB CE-CPR

Conventional call point for manual activation of alarms. The device trigger element and red status LED are located in the front of the device casing. After activation the call point can be reset by means of the reset key included in the package.

- Resettable call point
- Transparent cover for protection against accidental activation, available as an accessory item (WCP0020)
- Deep box for surface wiring duct entry, available as an accessory item (DBCP0020)
- Flange for flush mounting on single gang box, available as an accessory item (FCP0020)

KCP0020 Reset key (pack of 10)

TECHNICAL SPECIFICATIONS

Power supply voltage:	19 - 30 V DC	**Temperature:**	-10° ... +55° C
Current draw during standby:	0 µA	**Dimensions:**	84 x 84 x 45 mm
		Dimensions deep base:	33 mm
		Weight:	126 g

IC0020X
COLOURED MANUAL CALL POINT

Call point for various fire signalling applications

IC0030Y Call point in yellow for manual activation of fire extinction systems.
IC0030B Call point in blue without retention for emergency stop release for extinguishment systems.
IC0020G Call point in green
IC0020W Call point in white

IC0012E
MANUAL CALL POINT FOR OUTDOOR USE

CE-CPR EN54-11 IP67

Call point for activation of alarms, suitable for outdoor use. After activation the call point can be reset by means of the reset key included in the package

KEY300 Reset key (pack of 10)
SFT304 Transparent protective plate

EITK2000-ToolKit

Kit for manual addressing, configuration, maintenance and diagnostics of systems based on Iris and Enea series devices

See the data sheet online

EITK2000 is a kit containing:

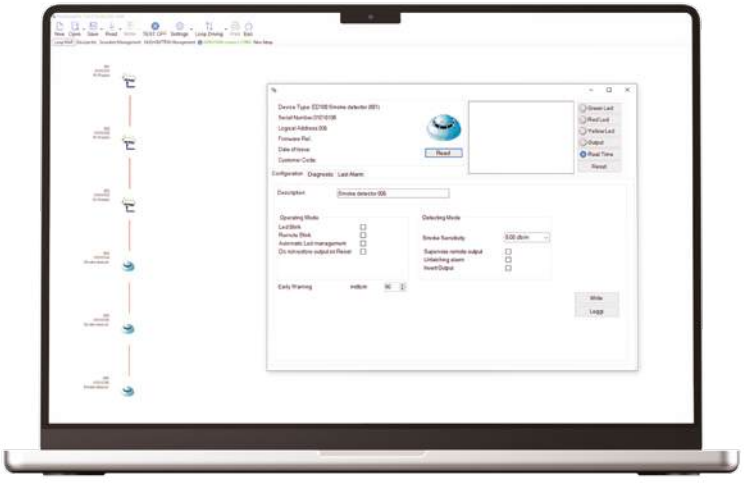
- **EDRV2000 driver**
- **FireGenius-PRO software**
- **Accessories for the connection and power supply**

The EDRV2000 driver allows fast manual addressing of Enea series addressable-analogue devices in situations where the automatic addressing function provided by Inim control panels is not desired.

The driver is equipped with an "ICP" communication port through which it is possible to connect to fire alarm signalers from the Iris and Enea series and configure their operating parameters (select alarm tones/messages, volume, flasher power, etc.).

Through the driver and the FireGenius-PRO software, it is also possible to customize the tones/messages of the signalers by choosing from the large library available and composing tones to your liking or by starting from audio files.

The kit allows full advantage to be taken of the LoopMap and Versa++ technologies integrated in Enea series addressable analogue detectors. By connecting the EDRV2000 driver to the loop and interfacing it with the FireGenius-PRO software, it is possible to reconstruct the loop wiring map. The various devices connected to the loop are identified by their distinct serial numbers and types. The FireGenius-PRO software is capable of reconstructing the wiring order along the cable and to recognize and trace any 'T' junctions that are present. By clicking on the system elements, you will be able to establish the status (smoke level, contamination, etc.) and interact in real-time, for example, by activating LEDs or outputs.




DELF 165/6 PP

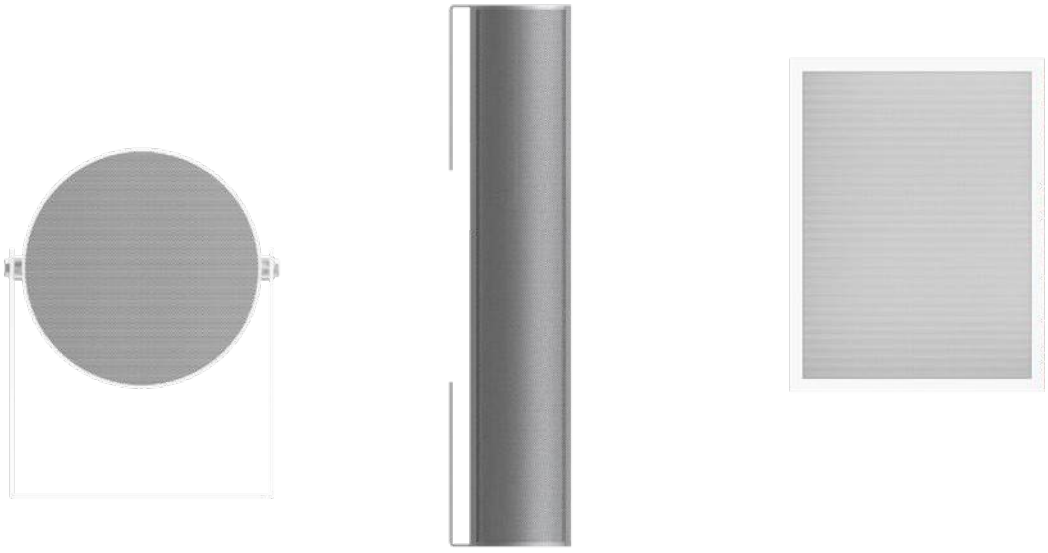
Speakers

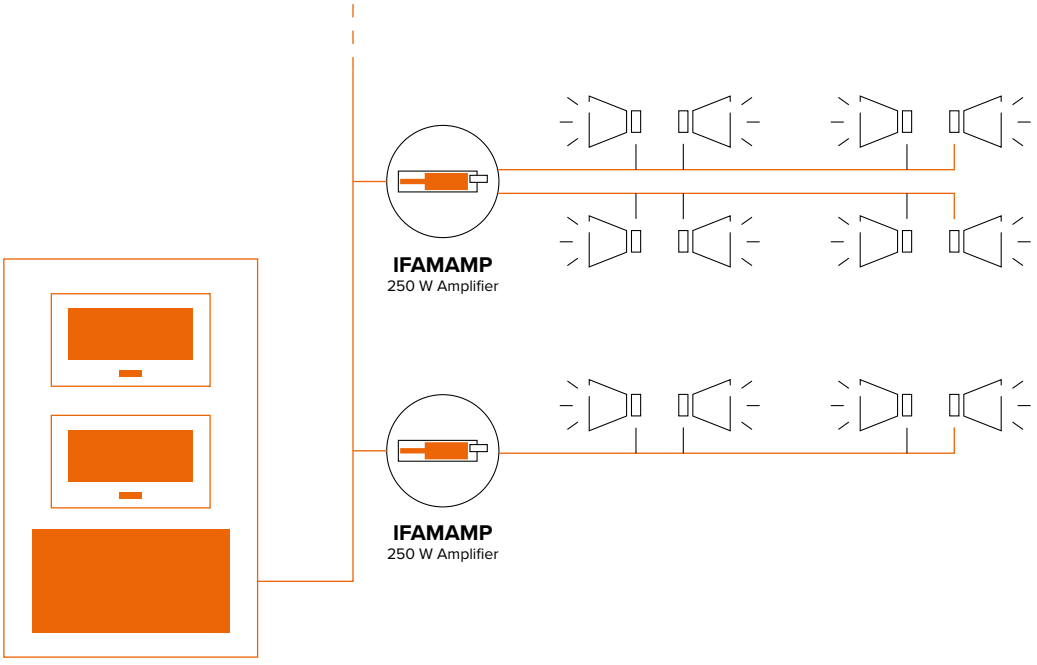
See the data sheet online

Certified diffusers for EVAC applications

The products listed in this section are characterized by high quality and fidelity in audio response. These features make them unique and capable of guaranteeing both excellent intelligibility in emergency evacuation conditions as well as quality audio for sound diffusion and public addressing.

The different models adapt to various environments by offering different solutions of assembly.





False ceiling speakers

SPI-C56100
FALSE CEILING SPEAKER FOR VOICE EVACUATION SYSTEMS

CE-CPR EN54-24

For indoor use (Type A) IP21. Adjustable power (6/ 6 / 3 / 1.5 W). Complete with ceramic terminals and thermal fuse.

TECHNICAL SPECIFICATIONS

Max. power:	6 W @ 100 V	**Material:**	Metal
Min. power:	0.75 W	**Dimension:**	Ø 200 x 105 mm
Diameter of internal speaker:	5”	**Colour:**	RAL9016 White
SPL:	88 dB (1 W @ 1 m)	**Weight:**	0.9 Kg

SPI-C66100
FALSE CEILING SPEAKER FOR VOICE EVACUATION SYSTEMS

CE-CPR EN54-24

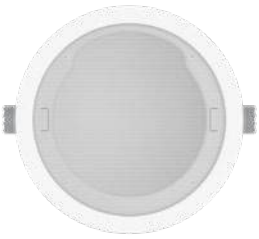
For indoor use (Type A) IP21. Adjustable power (6/ 6 / 3 / 1.5 W). Complete with ceramic terminals and thermal fuse.

TECHNICAL SPECIFICATIONS

Max. power:	6 W @ 100 V	**Material:**	Metal
Min. power:	0.75 W	**Dimension:**	Ø 200 x 65 mm
Diameter of internal speaker:	6.5”	**Colour:**	RAL9016 White
SPL:	91 dB (1 W @ 1 m)	**Weight:**	0.9 Kg

SPI-C810100
FALSE CEILING SPEAKER FOR VOICE EVACUATION SYSTEMS

CE-CPR EN54-24



For indoor use (Type A) IP21. Adjustable power (6 / 3 / 1.5 / 0.75 W). Complete with ceramic terminals and thermal fuse.

TECHNICAL SPECIFICATIONS

Max. power:	6 W @ 100 V	**Material:**	Metal
Min. power:	0.75 W	**Dimension:**	Ø 265 x 108 mm
Diameter of internal speaker:	8”	**Colour:**	RAL9016 White
SPL:	92 dB (1 W @ 1 m)	**Weight:**	1.6 Kg

DELF 165/6 PP
FALSE CEILING SPEAKER FOR VOICE EVACUATION SYSTEMS

CE-CPR EN54-24

For indoor use (Type A) IP32 Adjustable power (6 / 3 / 1.5 / 0.75 W). Complete with ceramic terminals and thermal fuse.

TECHNICAL SPECIFICATIONS

Max. power:	6 W @ 100 V	**Material:**	Metal
Min. power:	0.75 W	**Dimension:**	Ø 220 x 102 mm
Diameter of internal speaker:	6.5”	**Colour:**	RAL9016 White
SPL:	93 dB (1 W @ 1 m)		

DL-E 06-130/T-EN54 SAFE

FALSE CEILING SPEAKER FOR VOICE EVACUATION SYSTEMS

CE-CPR EN54-24

For indoor use (Type A) IP21C. Adjustable power (6 / 3 / 1.5 W).

TECHNICAL SPECIFICATIONS

Max. power:	6 W @ 100 V	**Material:**	Metal
Min. power:	1.5 W	**Dimension:**	Ø 181.5 x 66 mm
Diameter of internal speaker:	5”	**Colour:**	RAL9016 White
SPL:	87 dB (1 W @ 1 m)		

DL-E 06-165/T-EN54 SAFE

FALSE CEILING SPEAKER FOR VOICE EVACUATION SYSTEMS

CE-CPR EN54-24

For indoor use (Type A) IP21C. Adjustable power (6 / 3 / 1.5 W).

TECHNICAL SPECIFICATIONS

Max. power:	6 W @ 100 V	**Material:**	Metal
Min. power:	1.5 W	**Dimension:**	Ø 199 x 76 mm
Diameter of internal speaker:	6.5”	**Colour:**	RAL9016 White
SPL:	91.2 dB (1 W @ 1 m)		

DL-E 10-165/T-EN54 SAFE

FALSE CEILING SPEAKER FOR VOICE EVACUATION SYSTEMS

CE-CPR EN54-24

For indoor use (Type A) IP21C. Adjustable power (10 / 5 / 2.5 W).

TECHNICAL SPECIFICATIONS

Max. power:	10 W @ 100 V	**Material:**	Metal
Min. power:	2.5 W	**Dimension:**	Ø 199 x 73 mm
Diameter of internal speaker:	6.5”	**Colour:**	RAL9016 White
SPL:	87.3 dB (1 W @ 1 m)		

DAL 165/6 PP

WALL/CEILING SOUND DIFFUSER FOR SURFACE MOUNTING

CE-CPR EN54-24

For indoor use (Type A) IP21. Adjustable power (6 / 3 / 1.5 / 0.75 W). Complete with ceramic terminals and thermal fuse.

TECHNICAL SPECIFICATIONS

Max. power:	6 W @ 100 V	**Material:**	Metal
Min. power:	0.75 W	**Dimension:**	Ø 170 x 75 mm
Diameter of internal speaker:	6.5”	**Colour:**	RAL9010 White
SPL:	91 dB (1 W @ 1 m)		

DAL 165/10 PP

WALL/CEILING SOUND DIFFUSER FOR SURFACE MOUNTING

CE-CPR EN54-24

For indoor use (Type A) IP21. Adjustable power (10 / 6 / 3 / 1.5 W). Complete with ceramic terminals and thermal fuse.

TECHNICAL SPECIFICATIONS

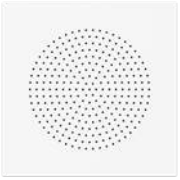
Max. power:	10 W @ 100 V	**Material:**	Metal
Min. power:	1.5 W	**Dimension:**	Ø 170 x 75 mm
Diameter of internal speaker:	6.5”	**Colour:**	RAL9010 White
SPL:	91 dB (1 W @ 1 m)		

WALL MOUNT SPEAKERS

SPI-W56100

WALL/CEILING SOUND DIFFUSER FOR SURFACE MOUNTING

CE-CPR EN54-24



For indoor use (Type A) IP21. Adjustable power (6 / 3 / 1.5 W). Complete with ceramic terminals and thermal fuse.

TECHNICAL SPECIFICATIONS

Max. power:	6 W @ 100 V	**Material:**	Metal
Min. power:	1.5 W	**Dimension:**	185 x 185 x 73 mm
Diameter of internal speaker:	5”	**Colour:**	RAL9010 White
SPL:	92 dB (1 W @ 1 m)	**Weight:**	1.4 Kg

WAL 165/6 PP

WALL MOUNT SOUND DIFFUSER FOR VOICE EVACUATION SYSTEMS

CE-CPR EN54-24

For indoor use (Type A) IP21. Adjustable power (6 / 3 / 1.5 / 0.75 W). Complete with ceramic terminals and thermal fuse.

TECHNICAL SPECIFICATIONS

Max. power:	6 W @ 100 V	**Material:**	MDF
Min. power:	0.75 W	**Dimension:**	253 x 193 x 83 mm
Diameter of internal speaker:	6.5”	**Colour:**	RAL9010 White
SPL:	98.2 dB (1 W @ 1 m)		

WAL 165/10 PP

WALL MOUNT SOUND DIFFUSER FOR VOICE EVACUATION SYSTEMS

CE-CPR EN54-24

For indoor use (Type A) IP21. Adjustable power (10 / 6 / 3 / 1.5 W). Complete with ceramic terminals and thermal fuse.

TECHNICAL SPECIFICATIONS

Max. power:	10 W @ 100 V	**Material:**	MDF
Min. power:	1.5 W	**Dimension:**	253 x 193 x 83 mm
Diameter of internal speaker:	6.5”	**Colour:**	RAL9010 White
SPL:	99.2 dB (1 W @ 1 m)		

WAQ 130/6 PP

WALL MOUNT SOUND DIFFUSER

CE-CPR EN54-24

For indoor use (Type A) IP21. Adjustable power (6 / 3 / 1.5 / 0.75 W). Complete with ceramic terminals and thermal fuse.

TECHNICAL SPECIFICATIONS

Max. power:	6 W @ 100 V	**Material:**	Metal
Min. power:	0.75 W	**Dimension:**	164 x 164 x 66 mm
Diameter of internal speaker:	5”	**Colour:**	RAL9010 White
SPL:	84 dB (1 W @ 1 m)		

WAC 165/6 PP1

WALL MOUNT BROADBAND SOUND DIFFUSER

CE-CPR EN54-24

For indoor use (Type A) IP21C. Adjustable power (6 / 3 / 1.5 / 0.75 W). Complete with ceramic terminals and thermal fuse.

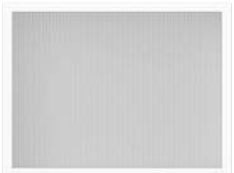
TECHNICAL SPECIFICATIONS

Max. power:	6 W @ 100 V	**Material:**	ABS
Min. power:	0.75 W	**Dimension:**	330 x 209 x 84 mm
Diameter of internal speaker:	6.5”	**Colour:**	RAL9010 White
SPL:	96 dB (1 W @ 1 m)		

WA 06-165/T METAL-EN54

WALL MOUNT BROADBAND SOUND DIFFUSER

CE-CPR EN54-24



For indoor use (Type A) IP54. Adjustable power (6 / 3 / 1.5 W). Complete with ceramic terminals and thermal fuse. Anti-vandal enclosure.

TECHNICAL SPECIFICATIONS

Max. power:	6 W @ 100 V	**Material:**	Metal
Min. power:	1.5 W	**Dimension:**	252 x 192 x 81 mm
Diameter of internal speaker:	6.5”	**Colour:**	RAL9010 White
SPL:	94 dB (1 W @ 1 m)		

WA 06-100/T-EN54

WALL MOUNT BROADBAND SOUND DIFFUSER

CE-CPR EN54-24

For indoor use (Type A) IP54. Adjustable power (6 / 3 / 1.5 W). Complete with ceramic terminals and thermal fuse.

TECHNICAL SPECIFICATIONS

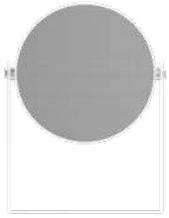
Max. power:	6 W @ 100 V	**Material:**	ABS
Min. power:	1.5 W	**Dimension:**	225 x 150 x 45 mm
Diameter of internal speaker:	4”	**Colour:**	RAL9016 White
SPL:	91 dB (1 W @ 1 m)		

Sound projectors

SPI-DP40110R

WALL OR CEILING MOUNT SOUND PROJECTOR

CE-CPR EN54-24



For indoor/outdoor use (Type A/B) IP66. Adjustable power (20 / 10 / 5 W). Complete with ceramic terminals and thermal fuse.

TECHNICAL SPECIFICATIONS

Max. power:	20 W @ 100 V	**Material:**	Aluminium
Min. power:	5 W	**Dimension:**	Ø 170 x 252 mm
Diameter of internal speaker:	2 x 6.5”	**Colour:**	RAL9010 White
SPL:	92 dB (1 W @ 1 m)	**Weight:**	2.8 Kg

DAW 130/10 PP

WALL OR CEILING MOUNT SOUND PROJECTOR

CE-CPR EN54-24

For indoor/outdoor use (Type A/B) IP33C. Adjustable power (10 / 6 / 3 / 1.5 W). Complete with ceramic terminals and thermal fuse.

TECHNICAL SPECIFICATIONS

Max. power:	10 W @ 100 V	**Material:**	Aluminium
Min. power:	1.5 W	**Dimension:**	Ø 140 x 65 mm
Diameter of internal speaker:	5”	**Colour:**	RAL9010 White
SPL:	85 dB (1 W @ 1 m)		

DAW 130/20 PP

WALL OR CEILING MOUNT SOUND PROJECTOR

CE-CPR EN54-24

For indoor/outdoor use (Type A/B) IP33C. Adjustable power (20 / 15 / 10 / 5 W). Complete with ceramic terminals and thermal fuse.

TECHNICAL SPECIFICATIONS

Max. power:	20 W @ 100 V	**Material:**	Aluminium
Min. power:	5 W	**Dimension:**	Ø 140 x 65 mm
Diameter of internal speaker:	5”	**Colour:**	RAL9010 White
SPL:	86 dB (1 W @ 1 m)		

DAW-K 130/10 PP

WALL OR CEILING MOUNT SOUND PROJECTOR

CE-CPR EN54-24

For indoor/outdoor use (Type A/B) IP33C. Adjustable power (10 / 6 / 3 / 1.5 W). Complete with ceramic terminals and thermal fuse.

TECHNICAL SPECIFICATIONS

Max. power:	10 W @ 100 V	**Material:**	ABS
Min. power:	1.5 W	**Dimension:**	Ø 140 x 200 mm
Diameter of internal speaker:	5”	**Colour:**	RAL9010 White
SPL:	93 dB (1 W @ 1 m)		

DAW-K 130/20 PP

WALL OR CEILING MOUNT SOUND PROJECTOR

CE-CPR EN54-24

For indoor/outdoor use (Type A/B) IP33C. Adjustable power (20 / 15 / 10 / 5 W). Complete with ceramic terminals and thermal fuse.

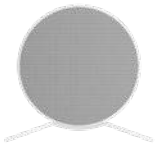
TECHNICAL SPECIFICATIONS

Max. power:	20 W @ 100 V	**Material:**	ABS
Min. power:	5 W	**Dimension:**	Ø 140 x 200 mm
Diameter of internal speaker:	5”	**Colour:**	RAL9010 White
SPL:	93 dB (1 W @ 1 m)		

DAD 260/10 PP

TWO-WAY WALL OR CEILING MOUNT SOUND PROJECTOR

CE-CPR EN54-24



For indoor use (Type A) IP21. Adjustable power (10 / 6 / 3 / 1.5 W). Enclosure in aluminium. Complete with ceramic terminals and thermal fuse.

TECHNICAL SPECIFICATIONS

Max. power:	10 W @ 100 V	**Material:**	Aluminium
Min. power:	1.5 W	**Dimension:**	Ø 140 x 165 mm
Diameter of internal speaker:	2 x 5”	**Colour:**	RAL9010 White
SPL:	85 dB (1 W @ 1 m)		

DA-P 10-260/T-EN54

TWO-WAY WALL OR CEILING MOUNT SOUND PROJECTOR

CE-CPR EN54-24

For outdoor use (Type B) IP56. Adjustable power (10 / 5 / 2.5 W). Complete with ceramic terminals.

TECHNICAL SPECIFICATIONS

Max. power:	10 W @ 100 V	**Material:**	Aluminium
Min. power:	2.5 W	**Dimension:**	202 mm Ø 146
Diameter of internal speaker:	2 x 5”	**Colour:**	RAL9016 White
SPL:	85 dB (1 W @ 1 m)		

DA-S 20-130/T-EN54

WALL OR CEILING MOUNT SOUND PROJECTOR

CE-CPR EN54-24

For outdoor use (Type B) IP56. Adjustable power (10 / 5 / 2.5 W). Complete with ceramic terminals.

TECHNICAL SPECIFICATIONS

Max. power:	20 W @ 100 V	**Material:**	Aluminium
Min. power:	5 W	**Dimension:**	202 mm Ø 146
Diameter of internal speaker:	2 x 5”	**Colour:**	RAL9016 White
SPL:	92.3 dB (1 W @ 1 m)		

SPI-P620100

WALL OR CEILING MOUNT SOUND PROJECTOR IN ABS

CE-CPR EN54-24

Projection-type sound diffuser. Assembly by means of the included metal coupling bracket, adjustable, flame-resistant ABS thermoplastic casing, metal grille for the protection of the visible section. Supports 70 V or 100 V lines, by means of a selector it can be set to provide a 5/10/20 W power supply.

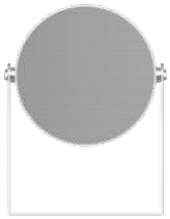
TECHNICAL SPECIFICATIONS

Power:	5 / 10 / 20 W (internal selector)	**Material:**	ABS
SPL:	89.5 dB (1 W @ 1 m)	**Dimension:**	Ø 170 x 245 mm
Diameter of internal speaker:	6.5”	**Colour:**	RAL9016 White

SPI-P620110

WALL OR CEILING MOUNT SOUND PROJECTOR IN ALUMINIUM

CE-CPR EN54-24



Projection-type sound diffuser. Assembly by means of the included metal coupling bracket, adjustable, aluminium casing, metal grille for the protection of the visible section. Supports 70 V or 100 V lines, by means of a selector it can be set to provide a 5/10/20 W power supply.

TECHNICAL SPECIFICATIONS

Power:	5 / 10 / 20 W (internal selector)	**Material:**	Aluminium
Diameter of internal speaker:	6.5”	**Dimension:**	Ø 170 x 252 mm
SPL:	90.6 dB (1 W @ 1 m)	**Colour:**	Grey RAL7035

Horn sound diffuser

DK 10/T-EN54-PG

WALL OR CEILING MOUNT HORN SOUND DIFFUSER

CE-CPR EN54-24

For outdoor use (Type B) IP66. Adjustable power (10 / 5 / 2.5 / 1.25 W). Complete with ceramic terminals.

TECHNICAL SPECIFICATIONS

Max. power:	10 W @ 100 V	**Material:**	ABS
Min. power:	1.25 W	**Dimension:**	142 x 256 mm
Diameter of internal speaker:	5”	**Colour:**	Grey RAL7035
SPL:	95 dB (1 W @ 1 m)		

DK 15/T-EN54-PG

WALL OR CEILING MOUNT HORN SOUND DIFFUSER

CE-CPR EN54-24

For outdoor use (Type B) IP66. Adjustable power (15 / 7.5 / 3.75 / 1.9 W). Complete with ceramic terminals.

TECHNICAL SPECIFICATIONS

Max. power:	15 W @ 100 V	**Material:**	ABS
Min. power:	2 W	**Dimension:**	209 x 321 mm
Diameter of internal speaker:	5”	**Colour:**	Grey RAL7035
SPL:	95 dB (1 W @ 1 m)		

DK 30/T-EN54-PG

WALL OR CEILING MOUNT HORN SOUND DIFFUSER

CE-CPR EN54-24

For outdoor use (Type B) IP66. Adjustable power (30 / 20 / 10 / 5 W). Complete with ceramic terminals.

TECHNICAL SPECIFICATIONS

Max. power:	30 W @ 100 V	**Material:**	ABS
Min. power:	5 W	**Dimension:**	235 x 351 mm
Diameter of internal speaker:	5”	**Colour:**	Grey RAL7035
SPL:	97 dB (1 W @ 1 m)		

DK 15 PP O

WALL OR CEILING MOUNT HORN SOUND DIFFUSER

CE-CPR EN54-24

For outdoor use (Type B) IP66. Adjustable power (30 / 20 / 10 / 5 W). Complete with ceramic terminals.

TECHNICAL SPECIFICATIONS

Max. power:	15 W	**Material:**	ABS
Min. power:	-	**Dimension:**	208 x 272 mm
Diameter of internal speaker:	-	**Colour:**	Grey RAL7035
SPL:	108dB (1 W @ 1 m) Max 120dB		

Column sound diffuser

TSU 300/10 PP

WALL MOUNT COLUMN SOUND DIFFUSER

CE-CPR EN54-24

For outdoor use (Type B) IP66. Adjustable power (10 / 6 / 3 / 1.5 W). Complete with ceramic terminals and thermal fuse.

TECHNICAL SPECIFICATIONS

Max. power:	10 W @ 100 V	**Material:**	Aluminium
Min. power:	1.5 W	**Dimension:**	285 x 100 x 92 mm
Diameter of internal speaker:	2 x 3”	**Colour:**	Grey RAL9006
SPL:	86 dB (1 W @ 1 m)		

TSU 500/20 PP

WALL MOUNT COLUMN SOUND DIFFUSER

CE-CPR EN54-24

For outdoor use (Type B) IP66. Adjustable power (20 / 15 / 10 / 5 W). Complete with ceramic terminals and thermal fuse.

TECHNICAL SPECIFICATIONS

Max. power:	20 W @ 100 V	**Material:**	Aluminium
Min. power:	5 W	**Dimension:**	510 x 100 x 92 mm
Diameter of internal speaker:	4 x 3”	**Colour:**	Grey RAL9006
SPL:	89 dB (1 W @ 1 m)		

TSU 700/30 PP

WALL MOUNT COLUMN SOUND DIFFUSER

CE-CPR EN54-24

For outdoor use (Type B) IP66. Adjustable power (30 / 15 / 7.5 W). Complete with ceramic terminals and thermal fuse.

TECHNICAL SPECIFICATIONS

Max. power:	30 W @ 100 V	**Material:**	Aluminium
Min. power:	7.5 W	**Dimension:**	700 x 100 x 92 mm
Diameter of internal speaker:	6 x 3”	**Colour:**	Grey RAL9006
SPL:	91 dB (1 W @ 1 m)		

TSU 1000/50 PP

WALL MOUNT COLUMN SOUND DIFFUSER

CE-CPR EN54-24

For outdoor use (Type B) IP66. Adjustable power (50 / 30 / 15 / 7.5 W). Complete with ceramic terminals and thermal fuse.

TECHNICAL SPECIFICATIONS

Max. power:	50 W @ 100 V	**Material:**	Aluminium
Min. power:	7.5 W	**Dimension:**	971 x 100 x 92 mm
Diameter of internal speaker:	8 x 3”	**Colour:**	Grey RAL9006
SPL:	93 dB (1 W @ 1 m)		

Wall mount two-way sound diffuser

SPI-W420200

WALL MOUNT TWO-WAY SPEAKER WITH BASS REFLEX

CE-CPR EN54-24

Wall mount two-way sound diffuser (4” speaker, 1” tweeter). Surface mount by means of the included metal coupling bracket, adjustable, flame-resistant ABS thermoplastic casing, metal grille for the protection of the visible section. Supports lines at 70 V or 100 V, by means of a selector it can be set to provide a 2.5/5/10 or 20W power supply.

TECHNICAL SPECIFICATIONS

Power:	2.5 / 5 / 10 / 20 W (internal selector)	**Material:**	ABS
SPL:	82.6 dB (1 W @ 1 m)	**Dimension:**	270 x 170 x 170 mm
Speaker / Tweeter:	4” - 1”	**Colour:**	Black

SPI-W520200

WALL MOUNT TWO-WAY SPEAKER WITH BASS REFLEX

CE-CPR EN54-24

Wall mount two-way sound diffuser (5” speaker, 1.5” tweeter). Surface mount by means of the included metal coupling bracket, adjustable, flame-resistant ABS thermoplastic casing, metal grille for the protection of the visible section. Supports 70 V or 100 V lines, by means of a selector it can be set to provide a 7.5/15/30W power supply.

TECHNICAL SPECIFICATIONS

Power:	7.5 / 15 / 30 W (internal selector)	**Material:**	ABS
SPL:	84.3 dB (1 W @ 1 m)	**Dimension:**	295 x 185 x 185 mm
Speaker / Tweeter:	5” - 1.5”	**Colour:**	Black

SPI-W640200

WALL MOUNT TWO-WAY SPEAKER WITH BASS REFLEX

CE-CPR EN54-24

Wall mount two-way sound diffuser (6.5” speaker 1.5” tweeter). Surface mount by means of the included metal coupling bracket, adjustable, flame-resistant ABS thermoplastic casing, metal grille for the protection of the visible section. Supports 70 V or 100 V lines, by means of a selector it can be set to provide a 5/10/20/40W power supply.

TECHNICAL SPECIFICATIONS

Power:	5 / 10 / 20 / 40 W (internal selector)	**Material:**	ABS
SPL:	85.5 dB (1 W @ 1 m)	**Dimension:**	330 x 200 x 220 mm
Speaker / Tweeter:	6.5” - 1.5”	**Colour:**	Black

MS 15-100/T-EN54

WALL-MOUNT TWO WAY SOUND DIFFUSER WITH HIGH SOUND QUALITY

CE-CPR EN54-24

For outdoor use (Type B) IP66. Adjustable power (15 / 7.5 / 3.75 / 1.8 W).

TECHNICAL SPECIFICATIONS

Max. power:	15 W @ 100 V	**Material:**	ABS
Min. power:	3.7 W	**Dimension:**	210 x 130 x 120 mm
Diameter of internal speaker:	2 x 3”	**Colour:**	Grey RAL9006
SPL:	80.2 dB (1 W @ 1 m)		

MS 30-130/T-EN54

WALL-MOUNT TWO WAY SOUND DIFFUSER WITH HIGH SOUND QUALITY

CE-CPR EN54-24

For outdoor use (Type B) IP66. Adjustable power (30 / 15 / 7.5 / 2.5 W).

TECHNICAL SPECIFICATIONS

Max. power:	30 W @ 100 V	**Material:**	ABS
Min. power:	7.5 W	**Dimension:**	260 x 160 x 152 mm
Diameter of internal speaker:	4 x 3”	**Colour:**	Grey RAL9006
SPL:	82.4 dB (1 W @ 1 m)		

MS 50-165/T-EN54

WALL-MOUNT TWO WAY SOUND DIFFUSER WITH HIGH SOUND QUALITY

CE-CPR EN54-24

For outdoor use (Type B) IP66. Adjustable power (50 / 25 / 12.5 / 6.25 W).

TECHNICAL SPECIFICATIONS

Max. power:	50 W @ 100 V	**Material:**	ABS
Min. power:	6.25 W	**Dimension:**	326 x 202 x 192 mm
Diameter of internal speaker:	6 x 3”	**Colour:**	Grey RAL9006
SPL:	84.8 dB (1 W @ 1 m)		

Pendant mount sound diffusers

SPI-CP620100

PENDANT MOUNT SOUND PROJECTOR IN ABS THERMOPLASTIC

CE-CPR EN54-24

Projection-type sound diffuser with 6.5". speaker. Pendant mount, flame resistant ABS casing, metal grille for the protection of the visible section. Supports 70V or 100V lines, by means of a selector it can be set to provide a 5/10/20W power supply.

TECHNICAL SPECIFICATIONS

Power:	5 / 10 / 20 W (internal selector)	**Material:**	ABS
Diameter of internal speaker:	6.5"	**Dimension:**	Ø 170 x 245 mm
SPL:	90.8 dB (1 W @ 1 m)	**Colour:**	RAL9016 White

DELK 130/10 PP1

CEILING MOUNT SPHERE-SHAPED SOUND DIFFUSER

CE-CPR EN54-24

For indoor use (Type A) IP32 Adjustable power (10 / 6 / 3 / 1.5 W). Complete with 5m cable with mounting box, ceramic terminals and thermal fuse.

TECHNICAL SPECIFICATIONS

Max. power:	10 W @ 100 V	**Material:**	Powder-paint coated steel enclosure
Min. power:	1.5 W	**Dimension:**	Ø 180
Diameter of internal speaker:	5"	**Colour:**	RAL9010 White
SPL:	88 dB (1 W @ 1 m)		

DELK 130/20 PP1

CEILING MOUNT SPHERE-SHAPED SOUND DIFFUSER

CE-CPR EN54-24

For indoor use (Type A) IP32 Adjustable power (20 / 15 / 105 W). Complete with 5m cable with mounting box, ceramic terminals and thermal fuse.

TECHNICAL SPECIFICATIONS

Max. power:	20 W @ 100 V	**Material:**	Powder-paint coated steel enclosure
Min. power:	5 W	**Dimension:**	Ø 180
Diameter of internal speaker:	5"	**Colour:**	RAL9016 White
SPL:	85 dB (1 W @ 1 m)		

DEL-W 165/6 PP

PENDANT LOUDSPEAKER

CE-CPR EN54-24

For indoor use (Type A) IP32C. Adjustable power (6 / 3 / 1.5 / 0.75 W). Complete with 5m cable with mounting box, ceramic terminals and thermal fuse.

TECHNICAL SPECIFICATIONS

Max. power:	6 W @ 100 V	**Material:**	Powder-paint coated steel enclosure
Min. power:	0.75 W	**Dimension:**	Ø 210 x 75 mm
Diameter of internal speaker:	6.5"	**Colour:**	RAL9016 White
SPL:	93 dB (1 W @ 1 m)		

DEL-W 165/10 PP
PENDANT LOUDSPEAKER

CE-CPR EN54-24

For indoor use (Type A) IP32C. Adjustable power (10 / 6 / 3 / 1.5 W). Complete with 5m cable with mounting box, ceramic terminals and thermal fuse.

TECHNICAL SPECIFICATIONS

Max. power:	10 W @ 100 V	**Material:**	Powder-paint coated steel enclosure
Min. power:	1.5 W	**Dimension:**	Ø 210 x 75 mm
Diameter of internal speaker:	6.5”	**Colour:**	RAL9016 White
SPL:	93 dB (1 W @ 1 m)		

DL-H 20-100/TW
CEILING MOUNT HEMISPHERIC-SHAPED SOUND DIFFUSER

CE-CPR EN54-24

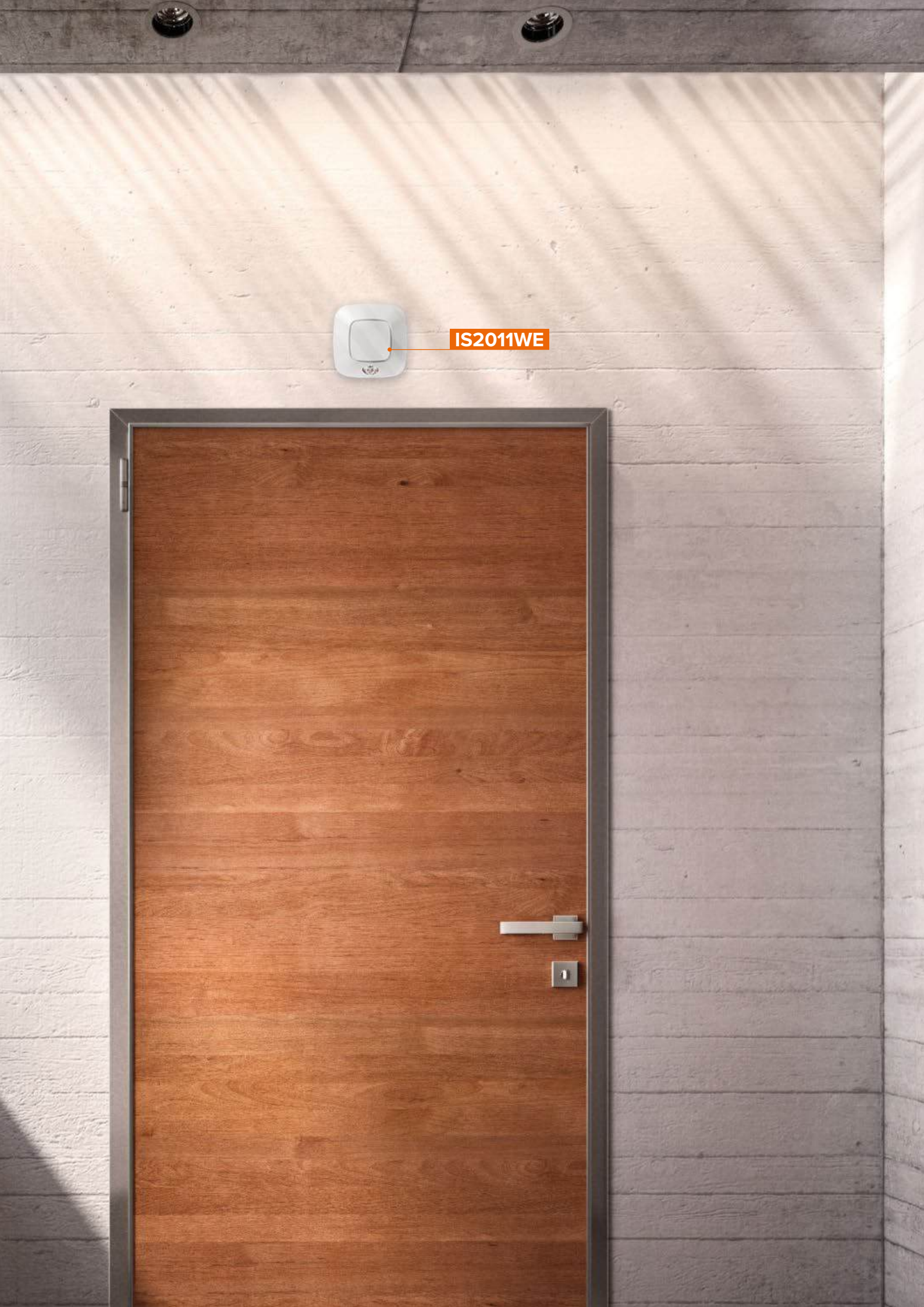
TECHNICAL SPECIFICATIONS

Max. power:	20 W @ 100 V	**Material:**	ABS
Min. power:	2.5 W	**Dimension:**	Ø 189.4 x 231 mm
Diameter of internal speaker:	-	**Colour:**	RAL9016 White
SPL:	92 dB (1 W @ 1 m)		

Multiple terminal blocks in steatite

BM 9516
FIREPROOF TERMINAL BLOCKS

BM 9516	4 mm^2 1 POLE TERMINAL BLOCK IN STEATITE
BM 9517	4 mm^2 2 POLE TERMINAL BLOCK IN STEATITE
BM 9518	4 mm^2 3 POLE TERMINAL BLOCK IN STEATITE
BM 9519	6 mm^2 1 POLE TERMINAL BLOCK IN STEATITE
BM 9520	6 mm^2 2 POLE TERMINAL BLOCK IN STEATITE
BM 9521	6 mm^2 3 POLE TERMINAL BLOCK IN STEATITE
BM 9522	16 mm^2 1 POLE TERMINAL BLOCK IN STEATITE
BM 9523	16 mm^2 2 POLE TERMINAL BLOCK IN STEATITE
BM 9524	16 mm^2 3 POLE TERMINAL BLOCK IN STEATITE


IS2011WE

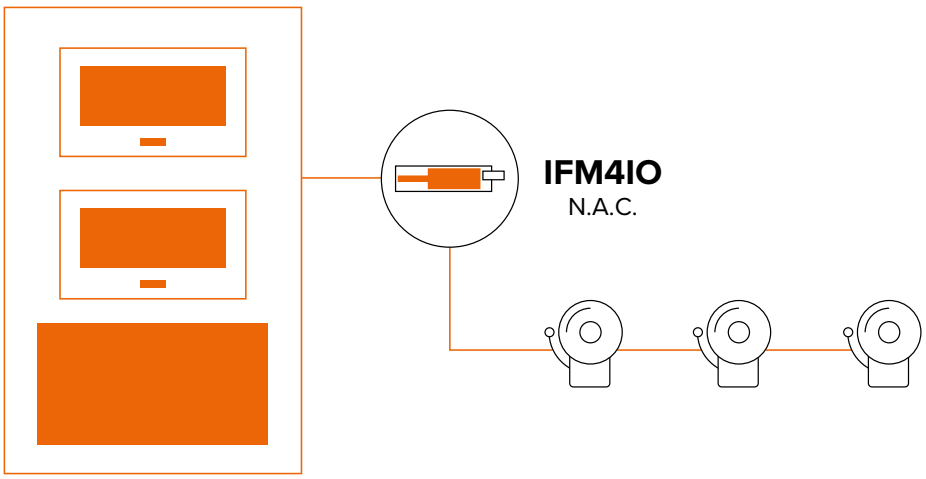
Conventional alarm indicators

See the data sheet online

Visual/Audible fire alarm devices

One of the roles of primary importance in fire detection systems is covered by audible/visual alarm signalling devices.

Sounders, bells and flashers are some of the most common means of providing warning of fire. Inim offers a wide range of these devices to suit all installation needs.



IS2011
WALL MOUNT AUDIBLE ALARM SIGNALLER

EN54-3 CE-CPR

The DIP SWITCH allows selection of the alarm tone from the 14 tones available and volume adjustment.

IS2011RE Sounder, in red
IS2011WE Sounder, in white

IS2021
WALL MOUNT VISUAL/AUDIBLE ALARM SIGNALLER

EN54-23 EN54-3 CE-CPR

Visual/Audible alarm signaller, operates at 20 to 30 V DC, IP65 protection grade. The DIP SWITCH allows selection of the alarm tone from the 14 tones available as well as volume and flasher intensity adjustment.

IS2021RE Sounder, in red
IS2021WE Sounder, in white

IS2030
WALL MOUNT AUDIBLE ALARM SIGNALLER WITH VOICE MESSAGES

EN54-3 CE-CPR

The EDRV2000 manual programmer allows selection of the alarm tone or of the voice alarm messages available on-board the device in 8 different languages, as well as volume and the tones/voice messages.

IS2030RE Sounder, in red
IS2030WE Sounder, in white

IS2050
WALL MOUNT VISUAL/AUDIBLE ALARM SIGNALLER WITH VOICE MESSAGES AND FLASHER

EN54-23 EN54-3 CE-CPR

The EDRV2000 manual programmer allows selection of the alarm tone or voice alarm messages available on-board the device in 8 different languages, as well as volume and the tones/voice messages.

IS2050RE Sounder, in red
IS2050WE Sounder, in white

TECHNICAL SPECIFICATIONS	IS2011	IS2021	IS2030	IS2050
Tone:	14	14	14	14
Voice messages:			16	16
Sound output @ 1 m:	Max. 101 dB			
Current draw:	from 1.4 to 5 mA	from 1.4 to 23 mA	from 10 to 40 mA	from 1.4 to 23 mA
Protection grade:	IP65 (IP21 certified for indoor use)			
Operating voltage	20 - 30 V DC	18 - 30 V DC	18 - 30 V DC	18 - 30 V DC
Visual range in high power:		W-3.5-7, O-3.5-8-7		W-3.5-10.2, O-3.5-10.5-10.0
Visual range in low power:		W-3-6.5, O-3-8-6.5		W-2.8-6.7, O-2.8-7.5-7
Operating temperature:	-10°C ... +55°C			
Dimensions:	121 x 121 x 57 mm			
Weight:	150 g			

PLEXI_ES2000
FRAMED PLEXIGLASS PLATE WITH EMERGENCY INDICATION

Transparent plexiglass plate with “FIRE ALARM” warning (white wording on red background) and Inim Logo. The panel is supplied with assembling kit and template. Dimensions: 430 x 130 x 4mm.

PLEXI_ES2000#1DX	ALLARME INCENDIO warning sign with indicating RIGHT
PLEXI_ES2000#1SX	ALLARME INCENDIO warning sign with indicating LEFT
PLEXI_ES2000#2DX	FIRE ALARM warning sign with indicating RIGHT
PLEXI_ES2000#2SX	FIRE ALARM warning sign with indicating LEFT
PLEXI_ES2000#3DX	EVACUARE IL LOCALE warning sign with indicating RIGHT
PLEXI_ES2000#3SX	EVACUARE IL LOCALE warning sign with indicating LEFT
PLEXI_ES2000#4DX	SPEGNIMENTO IN CORSO warning sign with indicating RIGHT
PLEXI_ES2000#4SX	SPEGNIMENTO IN CORSO warning sign with indicating LEFT
PLEXI_ES2000#5DX	ALLARME GAS warning sign with indicating RIGHT
PLEXI_ES2000#5SX	ALLARME GAS warning sign with indicating LEFT

Ceiling mount audible alarm signallers

IS1011
CEILING MOUNT AUDIBLE ALARM SIGNALLER

EN54-3 CE-CPR

The DIP SWITCH allows selection of the alarm tone from the 14 tones available and volume adjustment.

IS1021
CEILING MOUNT VISUAL/AUDIBLE ALARM SIGNALLER

EN54-23 EN54-3 CE-CPR

The DIP SWITCH allows selection of the alarm tone from the 14 tones available, adjustment of the volume and the flasher intensity.

IS1030
CEILING MOUNT AUDIBLE ALARM SIGNALLER WITH VOICE MESSAGES

EN54-3 CE-CPR

The EDRV2000 manual programmer allows selection of the alarm tone or voice alarm messages on-board the device in 8 different languages, as well as volume and the tones/ voice messages.

IS1050

CEILING MOUNT VISUAL/AUDIBLE ALARM SIGNALLER WITH VOICE MESSAGES

EN54-23 EN54-3 CE-CPR

The EDRV2000 manual programmer allows selection of the alarm tone or voice alarm messages on-board the device in 8 different languages, as well as volume, flasher intensity and the tones/ voice messages.

TECHNICAL SPECIFICATIONS	IS1011	IS1021	IS1030	IS1050
Tone:	14	14	14	14
Voice messages:		16	16	16
Sound output @ 1 m:	Max. 98 dB		Max. 101 dB	
Current draw:	from 1.4 to 5 mA	from 1.4 to 23 mA	from 10 to 25 mA	from 10 to 25 mA
Protection grade:	IP21			
Operating voltage	18 - 30 V DC		20 - 30 V DC	
Visual range in high power:	W-3.5-7, O-3.5-8-7			W-3.5-10.2, O-3.5-10.5-10.0
Visual range in low power:	W-3-6.5, O-3-8-6.5			W-2.8-6.7, O-2.8-7.5-7
Operating temperature:	-10° ... +55° C			
Dimensions:	112 x 112 x 37 mm			
Weight:	155 g			

IS0010

AUDIBLE ALARM SIGNALLER

EN54-3 CE-CPR

Tone selectable from the 32 available via Dip-Switch, volume adjusted by the internal trimmer.

TECHNICAL SPECIFICATIONS			
Tone:	32	Dimensions:	Ø 98 mm h 104 mm
Sound output @ 1 m:	106 dB adjustable up to 86 dB	Dimensions:	Ø 98 mm h 80 mm
Current draw:	from 4 to 41 mA	Weight:	250 g
Protection grade:	IP65 (IP21 low-profile version)		
Operating voltage	17 - 60 V DC		
Operating temperature:	-25°C ... +70°C		

IS0010RE Audible alarm signaller. Red
IS0010WE Audible alarm signaller. White
IS0010RES Audible alarm signaller with low-profile base. Red
IS0010WES Audible alarm signaller with low-profile base. White

IS0120
CEILING/WALL MOUNT AUDIBLE ALARM SIGNALLER

EN54-23 EN54-3 CE-CPR

Optic section approved according new EN54-23 standard, complete with mounting base. Tone selectable from the 32 available by means of DIP switch, flash frequency 0.5Hz / 1Hz (selectable by means of DIP SWITCH), volume selectable from 2 levels.

TECHNICAL SPECIFICATIONS

Tone:	32
Sound output @ 1 m:	97 dB
Current draw:	from 20 to 45 mA
Protection grade:	IP65 (IP21 low-profile version)
Coverage range:	W-3.1-11.3; C-3-15
Operating voltage	17 - 60 V DC

IS0120RE	Red, deep base, wall-mount installation
IS0120RS	Red, low-profile base, wall-mount installation
IS0120REC	Red, deep base, ceiling-mount installation
IS0120RSC	Red, low-profile base, ceiling-mount installation
IS0120WE	White, deep base, wall-mount installation
IS0120WEC	White, deep base, ceiling-mount installation

IS0130
HIGH POWER AUDIBLE ALARM SIGNALLER

EN54-3 CE-CPR

Provides 64 tones configurable via DIP SWITCH. The volume is easily adjusted using the internal trimmer.

TECHNICAL SPECIFICATIONS

Tone:	64 tones selectable by means of a DIP Switch	**Dimensions:**	166 x 150 mm
Sound output @ 1 m:	IS0130: 120 dB(A) configurable IS0131: 110 dB(A) configurable IS0132: 105 dB(A) configurable	**Weight:**	1.8 Kg
Current consumption – audible section:	IS0130 Up to 550 mA IS0131 Up to 50 mA IS0132 Up to 40 mA (depending on the selected tone)		
Protection grade:	IP66		
Operating voltage	10 - 60 V DC		
Operating temperature:	-25° C + 70° C		

IS0130	120 dB high power audible alarm signaller
IS0131	110 dB high power audible alarm signaller
IS0132	105 dB high power audible alarm signaller

IS0160
HIGH POWER AUDIBLE/VISUAL ALARM SIGNALLER

EN54-23 EN54-3 CE-CPR

Provides 64 tones configurable via DIP SWITCH. The volume is easily adjusted using the internal trimmer. LED visual signaller, in red The devices are classified as either VAD (Visual Alarm Device) or VID (Visual Indication Device) depending on the model.

TECHNICAL SPECIFICATIONS

Tone:	64	**Dimensions:**	166 x 150 mm
Sound output @ 1 m:	105 / 110 / 120 dB	**Weight:**	1.8 Kg
Current consumption – audible section:	IS0160 Up to 550 mA IS0161/IS0164/IS0166 Up to 50 mA IS0162/ IS0163/ IS0165 Up to 40 mA (depending on the selected tone)		
Current consumption – optical section:	- 18mA in blinking mode - 65 mA in static mode		
Protection grade:	IP66		
Coverage range:	W-3.1-11.3; C-3-15		
Operating voltage	10 - 60 V DC		
Operating temperature:	-25° ... +70° C		

IS0160 120 dB high power visual/audible alarm signaller
Optic section not certified EN 54-23 (VID)

IS0161 110 dB high power visual/audible alarm signaller
Optic section not certified EN 54-23 (VID)

IS0162 105 dB high power visual/audible alarm signaller
Optic section not certified EN 54-23 (VID)

IS0163 105 dB high power visual/audible alarm signaller
Optic section certified EN54-23 White Flash light

IS0164 110 dB high power visual/audible alarm signaller
Optic section certified EN54-23 White Flash light

IS0165 105 dB high power visual/audible alarm signaller
Optic section certified EN54-23 Red Flash light

IS0166 110 dB high power visual/audible alarm signaller
Optic section certified EN54-23 Red Flash light

ISC010 / ISC010E
6” BELL

EN54-3

CE-CPR

ISC010 Motorized bell operates at 19 to 28 V DC, low current consumption.
ISC010E Motorized bell operates at 19 to 28 V DC, low current consumption, for outdoor installation.

TECHNICAL SPECIFICATIONS

Sound output @ 1 m:	95 dB	**Dimensions:**	160 x 64 mm
Current draw:	from 20 mA	**Weight:**	920 g
Protection grade:	IP21 (indoor installation) IP33 (outdoor installation)		
Operating temperature:	-10° ... +55° C		

SMARTY-GFR

VISUAL AUDIBLE ALARM SIGNALLER. RED

Equipped with piezoelectric sounder and super bright LED technology flasher.

TECHNICAL SPECIFICATIONS			
Sound output @ 1 m:	105 dB	**Dimensions:**	75 x 112 x 30 mm
Current draw:	Max 50 mA	**Weight:**	110 gr
Protection grade:	IP31		
Light intensity:	25 lux		
Power supply voltage:	24 V DC		
Operating temperature:	-0°C ... +50°C		

ISS021 - ISS022

VISUAL/AUDIBLE ALARM SIGN

EN54-23 EN54-3 CE-CPR

Red alarm sign complete with EN54-3 certified audible signalling. The ISS021 version is classified as a VID (Visual Indication Device) and is NOT certified for the visual part according to the EN54-23 standard. The ISS022 version is classified as a VAD (Visual Alarm Device) and includes an EN54-23 certified high power visual signaller. Comes with “Fire alarm” written on it, available with different indications on request.

TECHNICAL SPECIFICATIONS	IS2011	IS2021
Sound output @ 1 m:	92 dB(A)	
Light output	EN54-23 W 4,6 - 9,1	
Flash frequency	1 Hz	
Operating voltage	11 - 30 V DC	18 - 30 V DC
Current draw	50mA	21mA (media)
Operating temperature:	-10° ... +55° C	

ISS021 - ITA Visual/Audible sign indicating “allarme incendio”
ISS022- ITA Visual/Audible sign with flasher indicating “allarme incendio”
ISS021 - ENG Visual/Audible sign indicating “fire alarm”
ISS022- ENG Visual/Audible sign with flasher indicating “fire alarm”

PICTOGRAMS (PACK OF 10 PIECES)

FOP45 Fire alarm
FOP46 Door alarm
FOP47 Spegnimento in corso
FOP48 Evacuare il locale
FOP49 Allarme gas
FOP36 Fire do not enter
FOP37 Extincion disparada
FOP38 Gas discharge
FOP39 Fuego
FOP34 Presenza acetilene
FOP35 Carenza ossigeno

IVY-R

SELF-POWERED SOUNDER/FLASHER FOR OUTDOOR INSTALLATION

If combined with fire-fighting systems operating at 24V, it requires voltage reducer model STD241201. Houses 12 V 2 Ah battery (not supplied).

TECHNICAL SPECIFICATIONS			
Sound output @ 3 m:	103 dB	**Dimensions:**	288 x 207 x 107 mm
Power supply voltage:	12 V DC	**Weight:**	2.7 Kg
Protection grade:	IP34		

F-COM

EN54-4 EN54-21 CE-CPR

Universal telephone communicator for fire detection systems

As required by the reference legislation, all unmanned fire detection and alarm systems (IRAI) must be equipped with a remote communicator CERTIFIED EN54-21.

The F-COM universal communicator, thanks to its flexibility and configuration simplicity, is capable of sending voice calls in response to the activation of its input lines (it includes a memory for voice messages configurable via audio recorder or text-to-speech converter), as well as digital calls via the most widely used communication protocols and SMS texts.

Thanks to the graphic display and the intuitive user interface, the F-COM communicator is simple to use, effective and adapts to any control panel of any brand and model. F-COM is capable of remotely transmitting any type of alarm condition, fault and is freely configurable via hardwired Telephone line, GSM Line or 3G data line. The communicator has its own internal EN54-4 certified power supply, houses two 12 V 1.2 Ah batteries (not supplied).

TECHNICAL SPECIFICATIONS

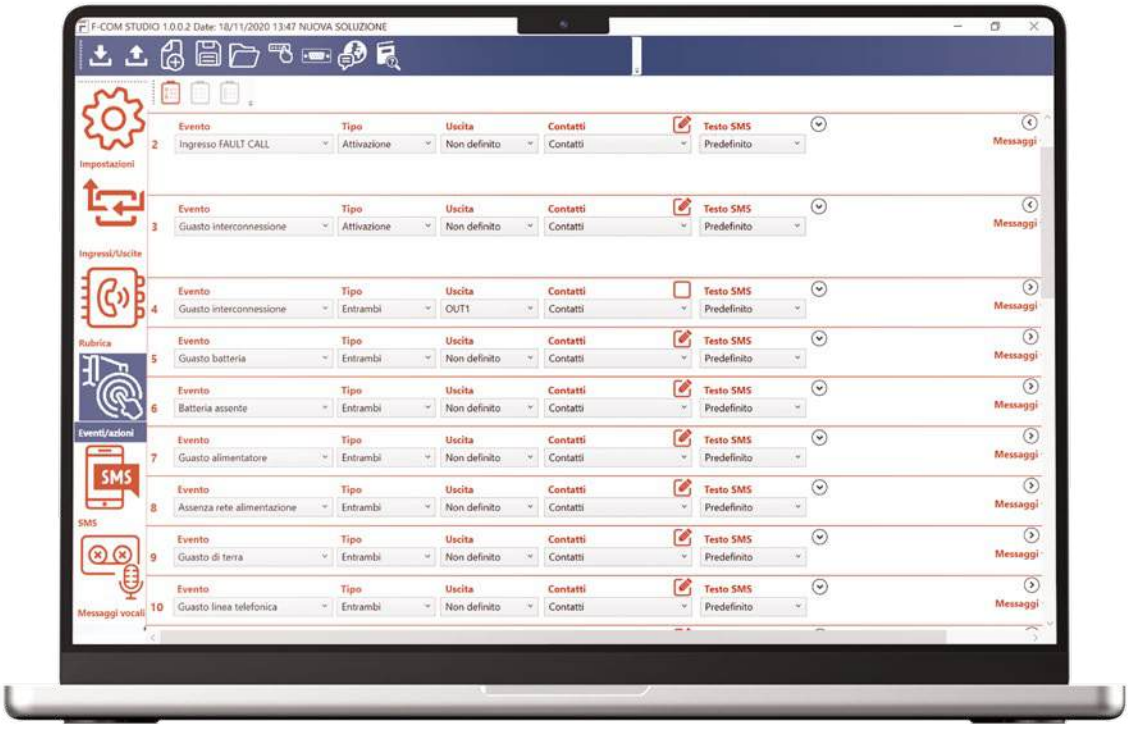
Power supply voltage:	230 V AC	**Dimensions:**	260 x 200 x 55 mm
Current draw:	Max 0.5 A	**Weight:**	1500 gr
Protection grade:	IP30		
Output current:	27.6 V DC		
Batteries:	2 x 12 V, 1.3 Ah		
Operating temperature:	-5° C ... +40° C		
Classification in accordance with EN 54-21:	Type 2		

F-COM/STUDIO

Configuration and diagnostics software for F-COM universal communicator

See the data sheet online

Via the F-COM Studio software, it is possible to easily and completely configure the universal communicators for fire detection and alarm systems of the F-COM series. Made available to the operator is a section in which to configure voice messages using audio files or the text to speech converter, a database for customer management and a diagnostic section where it is possible check the status of the communicator in detail.

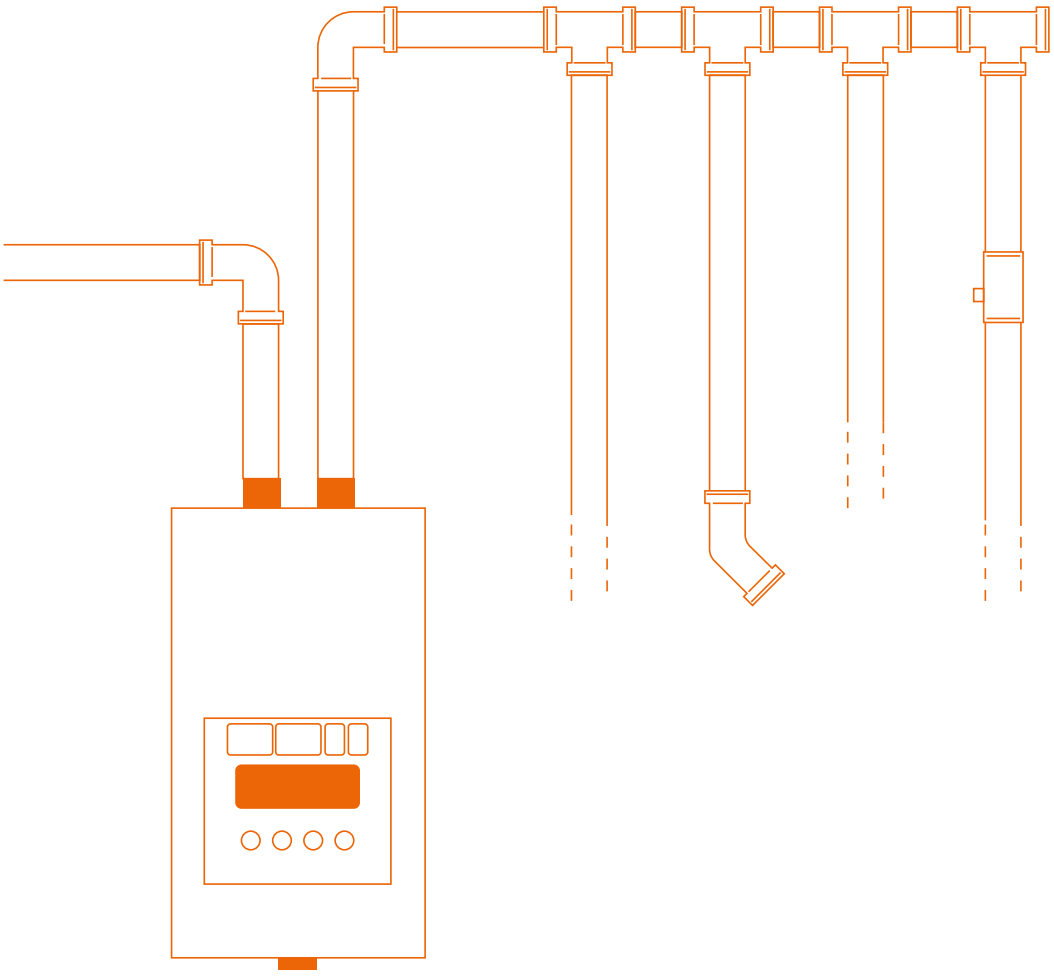


Aspirating smoke detectors

See the data sheet online

Advanced systems based on the continuous sampling of air from the protected ambient

Aspirating smoke detection systems, thanks to their sensitivity and the possibility of installing them outside the sampling zone and of adding filters and condensate traps, they are suitable for a series of applications where detectors with dissimilar technologies could hardly be installed. Inim offers a range of detectors with unique characteristics that can be connected directly to addressable control panels for fully centralized control.



FA100

Aspirating smoke detector

The two channels are completely independent except for the aspirating fan which they share. Each of the two sampling pipes (channels) can be configured independently in class A, B or C, can reach a maximum distance of 100m and can support a number of sampling holes equal to 8 in class A, 18 in class B, 51 in class C.

The sampling modules are based on dual light technology that uses two distinct light sources (infrared and blue) capable of evaluating the size of the detected particles and of providing a prompt response in the event of an outbreak of fire whilst offering a high rejection of false alarms caused by dust or mist. Each of the detector modules is capable of measuring the flow rate of the aspirated air and of signalling a fault if this deviates from the value set when activating the system (clogged sampling holes or breaks in the sampling duct).

The detector can be connected to Inim addressable fire control panels by connecting it directly to the loop (the power supply voltage must be supplied separately) thus transferring all the signals and control to the control panel, or it can be connected to any control panel, even conventional, thanks to its relay outputs (6) and its I/O terminals (4).

FA100 ASPIRATING SMOKE DETECTION SYSTEM

Expandable channels
Aspirating smoke detection systems with one or two channels.

Instant
Immediate response to the start of fire and high false alarm rejection.

Configurable detector
Each detector configurable in class A, B or C as per EN54-20 standard.

Independent channels
Independent channels with shared suction fan

Flexible
Interchangeable internal detectors.

Advanced technology
Technology of dual light detectors for the identification of the particle dimensions.

Accessories for FA100 detectors

FAD100

Detection module for dual-channel expansion

FA100-WIFI

Wi-Fi Interface module, can be configured as hotspot or can be connected to the existing Wi-Fi system. Allows connection to the Cloud and remote management via the FA/STUDIO software.

FA100-LAN

Ethernet interface module, allows connection to the Cloud and remote management via the FA/STUDIO software. Includes a MODBUS TCP-IP server.

FA100FILTER

Replacement mesh filter for FAD100 detectors, 10 pack.

FA/STUDIO

Sizing and configuration software for FA100

The FA/STUDIO software, downloadable from the Inim website, allows both the design and sizing of the network of aspirating pipes of the FA-100 system as well as the configuration and putting in service of the installed devices.

The design section, based on a 3D CAD system, allows the importation of Autocad files on which it is possible to draw the aspirating pipe network. The software assists the designer by indicating the areas of coverage of each hole and of any limits and constraints.

Once the sampling network has been designed, the software performs the fluid dynamics calculations specifying the diameter of each hole, the parameters to be set on the device and indicating the sensitivity and transport time of each sampling point.

A practical customizable list of materials is generated in order to allow the forwarding of the order.

The FA-STUDIO software includes the configuration functions of the FA-100 devices which allow adjustment and customization of all the system parameters.

Finally, a series of essential diagnostic functions allows the verification of the system parameters in real time and access to the detector memory containing all the values (Smoke, flow, temperature, etc.) sampled every few seconds over the last 3 months of operation, all the events (alarms, faults, etc.) detected are highlighted on these diagrams.

Project design mode

Thanks to Ortho Mode, provides greater flexibility in the realization of systems withcomplex geometries. Possibility to draw rigid pipes and flexible bends for a more realistic layout.

Noise indication in the fan adjustment.

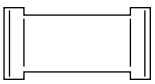
Functionality PER (Performance Evaluation/Reporting) visualization of the estimated level of the machine noise, which also depends on the set speed.

Air temperature management

Possibility to accurately estimate the temperature of the air entering the machine and calculate the length of the pipe required to bring it back into the correct temperature range. Ideal for systems in places with strong temperature variations.

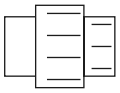
Sampling pipes for aspirating systems

EN61386 -1



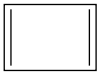
TUBOABS0250M

25 mm external Ø pipe
3 m bar
25 bars package



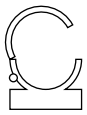
SAUN800250RS

Openable joint sleeve
external Ø 25 mm
10 pcs package



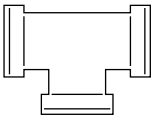
SASO100250RS

Coupling sleeve
external Ø 25 mm
10 pcs package



STS25REDK

Hose clip
external Ø 25 mm
50 pcs package

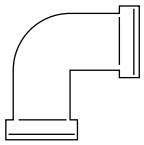


SATE400250RS

T-derivation
external Ø 25 mm
10 pcs package

SGLUEN0250

Sealing glue
250 ml pack

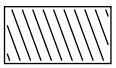


SABE300250RS

90° bend
external Ø 25mm (large radius), 10 pcs package

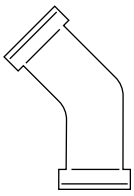
GC025

Telescope add-on with 200mm extension Ø 25mm



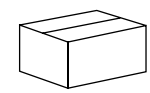
17250019050

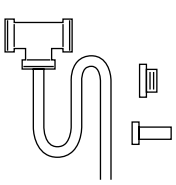
Flexible transparent spiral pipe, 10m roll (Requires SASO100250RS)
external Ø 25 mm
10 m roll



SAEY500250RS

45° Elbow
external Ø 25 mm
10 pcs package





CAPKIT2510SR

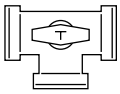
Kit for the creation of a sampling capillary comprising:
- “T” branch for pipes with external Ø 25 mm with branch for pipes with external Ø 10 mm
- 1 d.3/8” x 28 - L.35 mm bulkhead internal Ø 10 mm
- 1 d.3/8”G gasket

SACA700250RS

Pipe end cap
external Ø 25 mm
10 pcs package

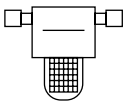
MPE1008025M-R

Red Flexible pipe
external Ø 10 mm
for sampling capillaries
25 m roll



2510025

3-way ball valve
pvc/epdm for pipes
external Ø 25 mm



504F075ABS

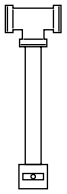
Medium F0.75 filter holder, 3/4”
threaded connections, complete with
fittings and RL5 cartridge.

AAD12025CRS

Male/Female fitting
from 3/4”G to 25 m
Necessary to adapt the 504F075ABS
filter to 25 mm external Ø pipes

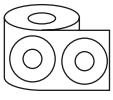
ASO15025CRS

Sleeve for 3/4” pipe fitting with 25 mm
external Ø pipes.



WT025

Condensate trap for applications in
which the sampled environment is
particularly cold compared to the
environment where the detector is
installed. Includes the “T”-derivation,
valve and collection tube.



LABEL23X10

Roll of 200 sampling point labels with
written: ASPIRATING POINT

MS025

ABS sliding sleeve, internal diameter
suitable for 25mm pipes, complete with
two O-ring seals. Total length 93mm,
67mm distance between the two
gaskets.

4136ABS

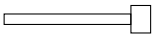
5” cartridge filter for 504F075ABS filter
holder, In wound wire, 10 µm filtration.

4134ABS

5” cartridge filter for 504F075ABS filter
holder, In wound wire, 25 µm filtration.

4084ABS

5” cartridge filter for 504F075ABS filter
holder, In wound wire, 50 µm filtration.



KIT ASO

3/4 F to 25mm F adapter kit

TP025C

Test Point Cap in ABS Ø25mm.

Special detection

See the data sheet online

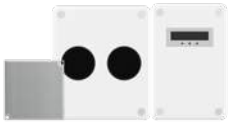
Optical linear smoke detectors

Linear smoke detectors are a widely used solution in applications characterized by large open places (sheds, large commercial premises, hangars, etc.). The use of trans-reflective detectors such as those proposed, which require wiring only from one end of the protected area, are further advantageous as they make it possible to reduce installation and maintenance costs without detracting from their reliability and effectiveness.

BDH160

SELF-ALIGNING OPTICAL BEAM SMOKE DETECTOR

CE - CPR EN54-12



Equipped with transreflective technology and a motorized head capable of aligning itself automatically during the commissioning phase and also of re-aligning itself during service. The system comprises a motorized head unit containing an infra-red transmitter and receiver, a ground level controller and prism reflector. The system includes a motorized head containing an infrared transceiver, a ground level controller and reflectors. The presence of smoke is revealed by the analysis of the infrared beam transmitted by the head and reflected by the reflector. The standard system covers a distance from 5 to 70m. Kits (additional reflectors) are available in order to increase the range to a maximum of 160m.

- Detector with integrated TX and RX and reflector
- Motorized for self-alignment
- Connectable to Inim Loop via EU311 module
- Powered independently or from Loop
- Max. 20 detectors powered by a single Loop (to be verified with Loop calculation software)
- Controller for surveillance and maintenance operations

TECHNICAL SPECIFICATIONS

Stand-by current draw:	3mA	**Protection grade:**	IP65
Current draw during alarm status:	3mA	**Dimension:**	155 x 180 x 125 mm
Operating temperature:	-15° ... +55° C	**Weight:**	1 Kg
Operating voltage	10.2 / 30 V		

BDH260

SELF-ALIGNING OPTICAL BEAM SMOKE DETECTOR WITH BLUETOOTH AND MANAGEMENT APP

CE - CPR EN54-12

Functions and features identical to the BDH160, this model includes a Bluetooth interface and an App for managing and controllimg the detector.

- Detector with integrated TX and RX and reflector
- Motorized for self-alignment
- Connectable to Inim Loop via EU311 module
- Powered independently or from Loop
- Max. 20 detectors powered by a single Loop (to be verified with Loop calculation software)
- Bluetooth interface for connection with SmartPhone
- Free App for detector control

TECHNICAL SPECIFICATIONS

Stand-by current draw:	5.5mA	**Protection grade:**	IP65
Current draw during alarm status:	5.5mA	**Dimension:**	155 x 180 x 137 mm
Operating temperature:	-10° ...+55°C	**Weight:**	1.1 Kg
Operating voltage	12 / 30 V		

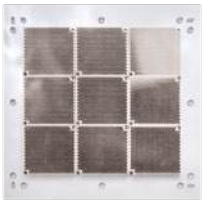
Download the App from the Play Store

Download the App from the App store

Accessories for BDH linear smoke detectors

70KIT140
70 TO 140M EXTENSION KIT

Includes a mounting plate for BDH-ADAPT reflectors and 3 additional reflectors.



140KIT160
70 TO 160M EXTENSION KIT

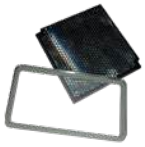
Includes a mounting plate for BDH-ADAPT reflectors and 8 additional reflectors.

BDHADAPT
PLATE FOR ASSEMBLING THE DETECTOR OR REFLECTORS

Already supplied with the range extension kit, facilitates detector mounting in situations where a suitable wall is not available (metal mesh, uneven surface, etc.).

FB-BRACKET
SWIVEL PLATE FOR PRISM REFLECTOR

Allows the correct alignment of the reflector and the transmitter in the event the two objects are not installed facing each other.



FOGKIT
ANTI-FOGGING KIT FOR APPLICATIONS IN PARTICULARLY HUMID AMBIENTS

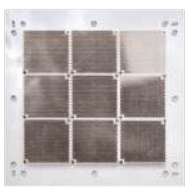
The Kit includes a screen in anti-fogging material to be applied on the transceiver and a single reflector (FOGREF) in anti-fogging material.

FOGREF
REFLECTOR IN ANTI-FOGGING MATERIAL

To be combined with FOGKIT for applications with ranges exceeding 70m.

70KIT140-AC
ANTI-FOGGING RANGE EXTENSION KIT FROM 70 TO 140M

Includes a BDH-ADAPT reflector mounting plate and 3 additional reflectors with anti-fogging coating



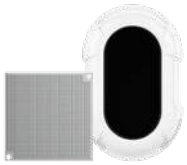
140KIT160-AC
ANTI-FOGGING RANGE EXTENSION KIT FROM 70 TO 160 M

Includes a BDH-ADAPT reflector mounting plate and 8 additional reflectors with anti-fogging coating

EDB01

MANUAL ALIGNING OPTICAL LINEAR SMOKE DETECTOR WITH BLUETOOTH AND APP

CE - CPR EN54-12



Characterized by low cost and ease of installation. The detector covers a distance from 10m to 100m (up to 50m with a single reflector, up to 100m with 4 reflectors, supplied in the package), thanks to its alarm and fault relays it can be connected to any control panel or directly to the Inim Loop via an EU311 module. In the case of connection to the loop, it is possible to take power from the cables themselves for up to a maximum of 5 detectors (to be verified with sizing software). Alignment is facilitated by the laser included in the device which allows adjustment of the deflection mechanism and verification of the exact point where the beam is pointing.
Using the internal DIP SWITCH it is possible to set the sensitivity of the detector and select between the self-resetting or alarm latching mode.
A free App is available in the stores for Android and iOS SmartPhones which, thanks to the Bluetooth interface included in the device, allows real-time remote control of the detector.

- Manual alignment via laser pointer
- Connectable to Inim Loop via EU311 module
- Powered independently or from Loop
- Max. 5 detectors powered by a single Loop (to be verified with Loop calculation software)
- Bluetooth interface for connection with SmartPhone
- Free App for detector control

TECHNICAL SPECIFICATIONS	
Power supply voltage	12 - 30 Vdc
Current draw during standby | Current draw during alarm status	20 mA | 20 - 40 mA
Coverage range with 1 reflector	10 - 50 m
Coverage with 4 reflectors	50 - 100 m
Tolerance angle: Detector | Reflector	±0.5° | ±5.0°
Operating temperature	from -10°C to +55°C
Humidity	from 10 to 95%, RH without condensation
Material	ABS
Dimensions: Detector | Reflector	172 x 110 x 81 mm | 100 x 100 x 9.5 mm
Weight	350 g

ARK

ARDEA TREK, TX-RX OPTICAL BEAM SMOKE DETECTOR

CE - CPR EN54-12

The detector is entirely designed, developed and manufactured in Italy, with particular attention to environmental sustainability and very low ecological impact.
It is a linear smoke and fire detector based on a Tx-Rx configuration, which uses the modulation of the signal generated by the onset of fire to detect anomalies in different ambient conditions. Thanks to its flexibility, it is particularly suitable for fire protection in large civil and industrial ambients, regardless of their shape or architectural configuration.

TECHNICAL SPECIFICATIONS	
Operating distance	From 10 to 200 m
Cover range in width	Maximum 15 m (according to UNI 9795)
Angular misalignment	± 1° maximum on Tx and Rx units
Power supply voltage	24V DC ± 20%
Current draw	In stand-by: 65 mA – Maximum: 93 mA
Operating temperature | Storage	From -20°C to +65°C | From -20°C to +70°C
Protection grade	IP44
Material	ABS
Weight	Tx + Rx Unit: 1.6 kg – With brackets: 1.8 kg

Adaptors for duct applications

The detection of the presence of smoke inside ventilation ducts, as recognized by international standards, is essential to avoid the transfer of fumes and toxic gases from one part of the building to another which would greatly increase the risk for the occupants.
The items shown in this section allow point smoke detectors to be adapted for this purpose, detection that would not be possible by installing the detector directly inside the duct due to the excessive speed of the air flow inside it.

EBDDHN
UNIVERSAL ADAPTER FOR DUCT INSTALLATION

Houses all types of detector (analogue or conventional). The detector base (not included) fits inside and is secured firmly in place by means of two screws (included). A practical terminal board makes wiring easy. It provides early warning of smoke by continually sampling air movement within heating and ventilation ducts in industrial and commercial buildings. Based on the Venturi principle, this device has been designed to operate with an optical smoke detector and adequate length airsampling tube. It operates at an air velocity of between 0.5m/s to 20m/s.

TECHNICAL SPECIFICATIONS

Sampling tube length:	0.6-1.5-2.8 m	**Dimension:**	180 x 183 x 235 mm
Air velocity:	0.5/20 ms	**Weight:**	700 g

TV06N
0.6 M SAMPLING PIPE

The sampling pipe should be chosen in accordance with the width of the duct concerned. The sampling pipe must pass through at least 90% of the duct. If the duct is wider than 60cm, the sampling pipe must pass through the entire duct.
Installation: the aluminium sampling tube can be easily shortened to adapt to the duct. The diameter of the hole for the air-sampling tube is 38mm.
The adaptor is fitted with a red plastic tongue which indicates the air flow to the detector and thus confirms that air flow from the duct is passing through properly.

TV06N-EXT
1 M EXTENSION FOR TV06N SAMPLING PIPES

1m extension for TV06N sampling pipes, multiple extensions can be assembled in cascade. Requires DDH204 gasket.

DDHBRKTN
MOUNTING BRACKET

This device fits to circular ducts and provides a flat mounting surface for the EBDDHN.

DDHCOVERN
WEATHERPROOF COVER

Watertight cover for item EBDDHN in the case of outdoor installation.

DDH204
GASKET FOR SAMPLING PIPE

DDH F1/10 N
ANTI-DUST FILTER

SENSEWARE SERIES FLAME DETECTORS

FLAME DETECTORS

CE - CPR EN54-10

Detectors suitable for detecting flames from light and heavy hydrocarbons (wood, paper, oil, natural gas) and flames generated by hydrogen (for UV and UV/IR models). 90° vision cone, good immunity to false stimuli. 10-28V DC power supply, IP65 Protection Grade, all models have the following certificates: EN54-10, ATEX/IECEX cat. 3 for use in 2/22 zones, FM. Class 3260 and cFMus class 3611.

IR3-109/1

IR³ FLAME DETECTOR

Flame detector with three IR detectors. For indoor and outdoor use.
Suitable for type 2 ATEX zones. Case in GRP (fiberglass)
Swivel bracket not supplied (SM21)

UV-185/5

UV FLAME DETECTOR

Ultraviolet flame detector. For indoor and outdoor use.
Suitable for type 2 ATEX zones. Case in GRP (fiberglass)
Swivel bracket not supplied (SM21)

UV/IR-210/1

UV/IR FLAME DETECTOR

Ultraviolet and infrared flame detector. For indoor and outdoor use.
Suitable for type 2 ATEX zones. Case in GRP (fiberglass)
Swivel bracket not supplied (SM21)

TECHNICAL SPECIFICATIONS	IR3	UV	UV/IR
Power supply voltage:		from 10 - 28 V DC	
Current draw:		from 25 to 40 mA	
IP class:		IP 65	
Range of View:	0.09m² n-heptane at 35 m	0.09m² n-heptane at 23 m	
Sensitivity:	Class 1 (EN54-10)	Class 2 (EN54-10)	
Coverage angle:		90° cone	
Response spectrum:	2.7 to 5 µm	185 - 260 µm	185 - 260 nm / IR: 2.7 µm
Operating temperature:		-25° ... + 70° C	

Accessories for Senseware series flame detectors

SM21

ARTICULATED SUPPORT IN PA66 POLYAMIDE

TC-169/1

NON-EX CERTIFIED TEST LAMP WITH RECHARGEABLE BATTERIES, INCLUDING BATTERY CHARGER AND CASE

TC-940/1Z

INTRINSICALLY SAFE TEST LAMP, IECEX/ATEX CERTIFIED

IP66 Heat detectors

Heat detectors with IP66 Protection Grade for applications in particularly hazardous ambients.

Enclosure type
J = ATEX: Enclosure 1 Fixture 1/2
T = ATEX: Enclosure 2 1/2" T-fixture
JO = ATEX: Enclosure 1 Fixture with
TO = ATEX: Enclosure 2 Fixtures with
D = IP66 Aluminium Enclosure

Functions
R = Static + Rate-of-rise
S = Static

Functions
M = Manual reset
A = Automatic reset

TMP2 XX XX XX X X X

Temperature class
A1 = Alarm 54 - 65° C
A2 = Alarm 54 - 73° C
B = Alarm 69 - 85° C
C = Alarm 84 - 100° C
D = Alarm 99 - 115° C

NN = Tripping temperature

1 = OFF in normal condition
ON in Alarm condition
2 = PULSE in normal condition
OFF in Fault condition
ON in Alarm condition

TMP2-D
HEAT DETECTORS

CE - CPR EN54-5

Absorption temperature sensor (for conventional control panels) TMP2-D series, aluminum enclosure with IP66 Protection Grade. 2 top cable entries, 2 M20 cable glands included. Automatic reset.

TECHNICAL SPECIFICATIONS

Power supply voltage:	12 - 24 V DC	**IP class:**	IP66
Stand-by current draw:	30 µA	**Dimensions:**	203 x 95 x 60 mm
Current draw during alarm status:	11 mA @ 13.7 V / 12 mA @ 24 V	**Weight:**	400 g
Operating temperature:	-20° ... 135° C		

TMP2-J
IP66 ATEX TEMPERATURE DETECTORS

CE - CPR EN54-5 ATEX

Absorption temperature detector (for conventional control panels) TMP2-JO and TMP2-TO series, ATEX certified explosion-proof enclosure. Automatic reset.
ATEX II 2G Ex d IIC T6 certification

TECHNICAL SPECIFICATIONS

Power supply voltage:	12 - 24 V DC	**IP class:**	IP66
Stand-by current draw:	30 µA	**Dimensions:**	160 x 8 x 75 mm
Current draw during alarm status:	11 mA @ 13.7 V / 12 mA @ 24 V	**Weight:**	410 g
Operating temperature:	-20° ... 135° C		

GDA-M/B-KF4A MOUNTING BRACKET FOR TMP2-J/T/JO/TO
GDA-CH12 ATEX EXD 1/2" NPT CABLE GLANDS FOR ARMOURED CABLES
GDA-CH12-NA ATEX EXD 1/2" NPT CABLE GLANDS FOR GDA-CH12-NA NON-ARMOURED CABLES
P3932 CONNECTION CABLE AND USB/RS485 ADAPTER FOR PC CONNECTION – HEAT DETECTORS OF THE TMP2 SERIES
P3933 SOFTWARE FOR THE MANAGEMENT, ADJUSTMENT OF SETTINGS, AND MAINTENANCE OF TMP2 SERIES HEAT DETECTORS.
COMPLETE WITH CONNECTION CABLE AND USB/RS485 ADAPTER.

Linear heat detectors (thermosensitive cables)

Minimum order quantity for reels of 100, 200 and 500m

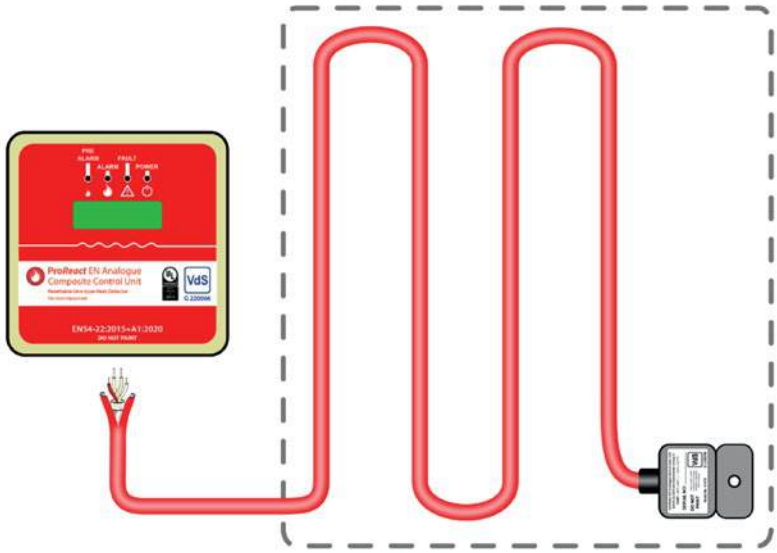
On account of their reliability, performance, ease-of-use and reduced-cost, linear heat detectors are appropriate for all types of installations with a provision for detection by way of temperature control. Heat-sensitive cables are classified according to their technology (resettable and non-resettable) and according to the type of external jacket and the intervention temperature.

RESETTABLE ANALOGUE CABLE – EN54-22 CERTIFIED

The ProReact EN Analogue LHD system uses heat-sensitive cable to monitor specific areas or specific equipment in order detect conditions of overheating or fire.
The ProReact EN analogue control unit constantly monitors the resistance of the thermal polymers in the cable. This resistance decreases as the surrounding temperature increases. When an abnormal variation in resistance occurs, caused by overheating along the cable, the control unit activates a pre-alarm or an alarm.
The control unit can be connected to both conventional and addressable fire alarm systems. To ensure a stable alarm threshold in the presence of changes in ambient temperature, the control unit measures the average temperature along the entire cable and dynamically adapts the activation threshold. It is therefore essential that the control unit is configured correctly and that the resistance and average temperature values displayed comply with the required specifications.
The system is designed to activate an alarm when the temperature in a section of the cable equal to at least 3% of its total length reaches the set alarm threshold. However, the actual temperature required for activation may vary:

- Below the nominal threshold if a larger portion of the cable is exposed to heat.
- Higher than the nominal threshold if only a small part of the cable is involved.

In warmer environments a greater temperature rise may be required to generate an alarm than in colder environments. In such cases, the control unit automatically adjusts the threshold to minimize false alarms. Thermovelocimetric activation. For Class A1l/A2l (54°C and 64°C) alarm settings, the alarm may also be activated if approximately 2% of the cable is heated to more than 15°C per minute for more than 3 minutes.



PROREACT EN ANALOGUE SENSOR CABLE

EN54-22

Thermocable's ProReact EN analogue composite control unit detects temperature changes that cause changes in resistance along the ProReact EN analogue detector cable. This cable is a multi-core linear heat detector, available in three versions: PVC Coated, Nylon Coated and PVC Coated with Stainless Steel Braid.
Each variant has specific features that ensure reliable and long-lasting operation in a wide range of applications. Up to 500 meters of cable can be installed in a single zone.
The ProReact EN Analogue detector cable is intended for use in conjunction with the ProReact EN analogue composite controller and the ProReact EN Analogue EOL unit.

PROREACT EN ANALOGUE COMPOSITE CONTROL UNIT

EN54-22

Thermocable's ProReact EN Analogue LHD system offers a wide range of programmable alarm temperatures, ideal for adapting to different ambients. These settings can be configured directly via the LCD screen of the ProReact EN analogue composite controller or by connecting to a laptop.
Installers can also set pre-alarm temperatures, which allow them to receive an early warning in the event of an abnormal temperature increase, before the selected alarm threshold is reached.
Each control unit is equipped with a Modbus RS-485 output and includes a built-in self-test function as standard.

PROREACT EN ANALOGUE END OF LINE UNIT

EN54-22

The ProReact EN Analogue End-of-Line Unit is a mandatory component in all ProReact EN Analogue LHD systems, as it plays a critical role in the proper functioning of the technology. It allows the control unit to detect any short circuits or breaks in the detector cable.
Compact in size, the unit is designed to be easily installed on flat surfaces, thus ensuring simplicity and convenience during assembly.

HEAT-SENSITIVE CABLE CODE:	F3050	F3051	F3052
Description:	Resettable Analogue Heat Sensitive Cable (Linear Heat Detector)	Resettable Analogue Heat Sensitive Cable (Linear Heat Detector)	Resettable Analogue Heat Sensitive Cable (Linear Heat Detector)
Coating type:	PVC	NYLON	STEEL
Environmental Group EN54-22:	II	II	II
Minimum Activation Temp:	66°C	66°C	66°C
Maximum Activation Temp:	100°C	100°C	100°C
Maximum Ambient Temp.:	125°C	125°C	125°C
Humidity:	From 0% to 99% relative humidity (for ambient temperatures between -40°C and +40°C) From 0% to 75% relative humidity (for ambient temperatures above +40°C)	From 0% to 99% relative humidity (for ambient temperatures between -40°C and +40°C) From 0% to 75% relative humidity (for ambient temperatures above +40°C)	From 0% to 99% relative humidity (for ambient temperatures between -40°C and +40°C) From 0% to 75% relative humidity (for ambient temperatures above +40°C)
Colour:	Red	Black	Silver
Diameter:	4.83 mm	6.00 mm	5.33 mm
Minimum curve radius:	60 mm	100 mm	75 mm
Features:	Rigid PVC outer coating, suitable for indoor and outdoor use. Not suitable for exposure to direct sunlight and/or environments with aggressive chemicals.	External coating in rigid Nylon, stable to UV rays, suitable for indoor and outdoor use even in the presence of direct sunlight. Offers excellent resistance to hydrocarbons.	Stainless steel braid for greater mechanical resistance and protection against abrasion. Suitable for indoor and outdoor use, with limited exposure to direct sunlight and not suitable for environments with aggressive chemicals.

A1388

EN54-22

CONTROL UNIT AND END-OF-LINE KIT FOR RESETTABLE ANALOGUE HEAT-SENSITIVE CABLES

Control unit and end-of-line kit for EN54-28 certified Resettable Analogue linear temperature detectors (Thermosensitive Cable). The control unit manages a single line and provides a fault, alarm and pre-alarm output. Intervention temperatures can be set between 66 and 100°C.

A1389

CONTROL UNIT FOR RESETTABLE ANALOGUE HEAT-SENSITIVE CABLES

EN54-22

Control unit for EN54-22 certified Resettable Analogue linear temperature detectors (Heat-sensitive Cable). The control unit manages a single line and provides a fault, alarm and pre-alarm output. Intervention temperatures can be set between 66 and 100°C.

A1470

END OF LINE UNIT FOR RESETTABLE ANALOGUE HEAT-SENSITIVE CABLES.

EN54-22

End-of-line unit for Resettable Analogue linear temperature detectors (Heat-sensitive Cable).

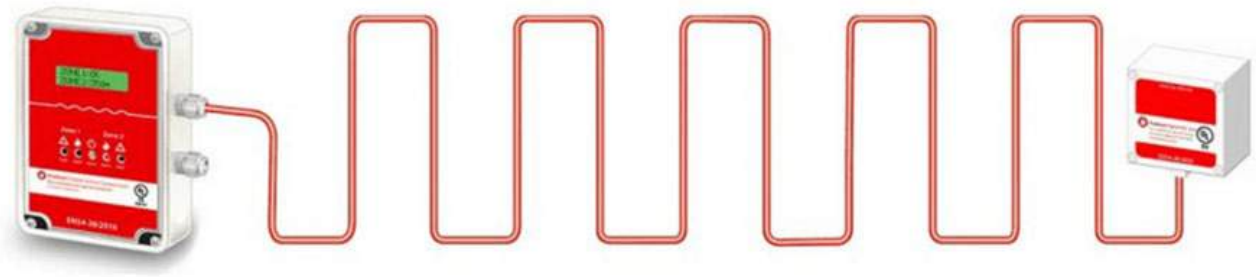
A1471

JUNCTION BOX FOR RESETTABLE ANALOGUE HEAT-SENSITIVE CABLES.

EN54-22

Junction box for Resettable Analogue linear temperature detectors (Heat-sensitive cable).

NON-RESETTABLE DIGITAL CABLES – EN 54-28 CERTIFIED



PROREACT EN DIGITAL

EN54-28

Thermocable's ProReact EN Digital Linear Heat Detection (LHD) cable uses fixed-temperature technology to easily and effectively detect temperature changes. This system represents a valid alternative for overheating protection in numerous contexts and places, such as tunnels, cable ducts, warehouses, escalators and other applications where potential fire risks can be hidden from view.
The ProReact EN Digital LHD is a non-resettable linear heat detector. Inside, two twisted conductors are separated by a heat-sensitive polymer. When a predefined temperature is reached, established during cable production, the polymer softens, allowing contact between the conductors. This event is irreversible: once triggered, the section of cable concerned must be removed and replaced, without the need to replace the entire cable.
Available activation temperatures: 68 °C, 78 °C and 88 °C
Maximum zone length: 1,000m (when used with DSCU-EN)

PROREACT DIGITAL SENSOR CONTROL UNIT

EN54-28

The ProReact EN Digital LHD cable is certified according to EN54-28:2016, in combination with the ProReact DSCU-EN digital control unit. The latter is capable of monitoring up to two zones of the Digital LHD cable, providing separate fault and alarm outputs for each zone.
Connecting the DSCU-EN to a conventional fire control panel or addressable system is simple and can be done via an I/O monitoring module. The unit features a built-in display that shows the status of each zone, including the distance to the alarm point in metres and feet, if triggered.
Additionally, an RS-485 Modbus RTU/ASCII output is included as standard, allowing direct integration with PLC or SCADA systems.

PROREACT DIGITAL END-OF-LINE UNIT

EN54-28

The ProReact digital end-of-line unit (EOLU-EN)) is designed to safely and effectively terminate up to two zones of ProReact EN Digital LHD cable, inside a weatherproof enclosure.
Moreover, it is equipped with integrated switches that allow the simulation of fault and alarm conditions, for functional tests directly on site. This makes it easier to verify system integrity and ensures complete and reliable maintenance.

HEAT-SENSITIVE CABLE CODE:	F1182	F1192	F1180	F1190	F1181	F1191
Description:	LHD Digital cable – 68°C	LHD digital cable – 68°C with stainless steel braid	LHD Digital cable – 78°C	LHD digital cable – 78°C with stainless steel braid	LHD Digital cable – 88°C	LHD digital cable – 88°C with stainless steel braid
Performance Type: EN54-28	T068-V10-A045	T068-V10-A045	T078-V10-A045	T078-V10-A045	T088-V10-A065	T088-V10-A065
Environmental Group EN54-28:	II	III	II	III	II	III
Nominal Activation Temp.:	68°C	68°C	78°C	78°C	88°C	88°C
Maximum Ambient Temp.:	45°C	45°C	45°C	45°C	65°C	65°C
Minimum Ambient Temp.:	-40°C	-40°C	-40°C	-40°C	-40°C	-40°C
Humidity:	0% – 98% RH	0% – 98% RH	0% – 98% RH	0% – 98% RH	0% – 98% RH	0% – 98% RH
Colour:	Red	Silver braid on red	Red	Silver braid on red	Red	Silver braid on red
Diameter:	5.72 mm ± 0.12 mm	6.3 mm ± 0.12 mm	5.72 mm ± 0.12 mm	6.3 mm ± 0.12 mm	5.72 mm ± 0.12 mm	6.3 mm ± 0.12 mm
Minimum bend radius:	100 mm	125 mm	100 mm	125 mm	100 mm	125 mm
Features:	LSZH, UV-resistant, oil-resistant, flame-retardant	LSZH, UV, oil, flame + mechanical and abrasion resistance	LSZH, UV-resistant, oil-resistant, flame-retardant	LSZH, UV, oil, flame + mechanical and abrasion resistance	LSZH, UV-resistant, oil-resistant, flame-retardant	LSZH, UV, oil, flame + mechanical and abrasion resistance

A1397

EN54-28 NON-RESETTABLE HEAT-SENSITIVE CABLE CONTROL UNITS

EN54-28

Control unit for non-resettable digital linear detectors (heat-sensitive cables), manages up to 2 zones, maximum length for each line 1000m. Fault and alarm relay for each zone and RS485 port with MODBUS RTU protocol. The distance at which the fire was detected is indicated on the display or on the MODBUS registers. Certified EN54-28

A1398

TERMINATION UNIT FOR EN54-28 NON-RESETTABLE HEAT-SENSITIVE CABLES

EN54-28

Termination unit for non-resettable digital linear detectors (heat-sensitive cables), manages up to 2 zones. Waterproof enclosure, includes fault test and alarm switches for each line. EN54-28 certified

DIGITAL CABLES – UL-FM CERTIFIED

The Thermocable ProReact EN Digital Linear Heat Detection (LHD) cable uses fixed-temperature sensing technology to provide a simple method for detecting temperature changes. The cable offers alternative protection against overheating in a wide range of applications and environments, from tunnels, cable ducts, and warehouses to detecting temperature changes inside escalators and other applications where many fire risks are hidden from view.
The ProReact EN Digital LHD cable is a non-resettable linear heat detector. The two intertwined cores are separated by advanced, temperature-sensitive polymer. At a temperature set by the cable manufacturing processes, the temperature-sensitive polymer surrounding the two cores softens thus allowing the cores to make contact. This is an irreversible process and, once the cable has been activated, the section that caused the activation must be cut and replaced (but not the entire cable).
The system is UL-FM Certified, guaranteeing its compliance with international fire safety standards.

PROREACT EN DIGITAL

UL-FM

Thermocable's ProReact EN Digital Linear Heat Detection (LHD) cable uses fixed-temperature technology to easily and effectively detect temperature changes. This system represents a valid alternative for overheating protection in numerous contexts and places, such as tunnels, cable ducts, warehouses, escalators and other applications where potential fire risks can be hidden from view.
The ProReact EN Digital LHD is a non-resettable linear heat detector. Inside, two twisted conductors are separated by a heat-sensitive polymer. When a predefined temperature is reached, established during cable production, the polymer softens, allowing contact between the conductors. This event is irreversible: once triggered, the section of cable concerned must be removed and replaced, without the need to replace the entire cable.
Available activation temperatures: 68 °C, 78 °C and 88 °C
Maximum zone length: 1,000m (when used with DSCU-EN)

PROREACT DIGITAL SENSOR CONTROL UNIT

UL-FM

The ProReact EN Digital LHD cable is certified according to EN54-28:2016, in combination with the ProReact DSCU-EN digital control unit. The latter is capable of monitoring up to two zones of the Digital LHD cable, providing separate fault and alarm outputs for each zone.
Connecting the DSCU-EN to a conventional fire control panel or addressable system is simple and can be done via an I/O monitoring module. The unit features a built-in display that shows the status of each zone, including the distance to the alarm point in metres and feet, if triggered.
Additionally, an RS-485 Modbus RTU/ASCII output is included as standard, allowing direct integration with PLC or SCADA systems.

PROREACT DIGITAL END-OF-LINE UNIT

UL-FM

The ProReact digital end-of-line unit (EOLU-EN)) is designed to safely and effectively terminate up to two zones of ProReact EN Digital LHD cable, inside a weatherproof enclosure.
Moreover, it is equipped with integrated switches that allow the simulation of fault and alarm conditions, for functional tests directly on site. This makes it easier to verify system integrity and ensures complete and reliable maintenance.

HEAT-SENSITIVE CABLE CODE:	F1065	F1070	F1066	F1071	F1067	F1072	F1068	F1073	F1069	F1124
Description:	Resettable Digital Heat Sensitive Cable (Linear Heat Detector)									
Coating type:	PVC	NYLON	PVC	NYLON	PVC	NYLON	PVC	NYLON	NYLON	Halogen-free with low smoke emission (LSZH)
Alarm temperature:	68°C / 45°C	68°C / 45°C	78°C / 45°C	78°C / 45°C	88°C / 65°C	88°C / 65°C	105°C / 65°C	105°C / 65°C	185°C / 125°C	65°C / 47°C

A1349

UL-FM

UL-FM NON-RESETTABLE HEAT-SENSITIVE CABLE CONTROL UNITS

Control unit for non-resettable digital linear detectors (heat-sensitive cables), manages up to 2 zones, maximum length for each line 1000m. Fault and alarm relay for each zone and RS485 port with MODBUS RTU protocol. The distance at which the fire was detected is indicated on the display or on the MODBUS registers. UL-FM Certified.

A1385

UL-FM

TERMINATION UNIT FOR UL-FM NON-RESETTABLE HEAT-SENSITIVE CABLES

Termination unit for non-resettable digital linear detectors (heat-sensitive cables), manages up to 2 zones. Waterproof enclosure, includes fault test and alarm switches for each line. UL-FM Certified.

A1561

IP68 CONNECTOR FOR SPLICING DIGITAL LHD CABLES

Connector for splicing DIGITAL LHD series cables. UL-FM Certified. IP68 protection rating, eliminates the need for junction boxes.

Accessory items for mounting heat-sensitive cables

A1149-100
J CLIP 50MM IN STEEL

J clip for fastening heat-sensitive cables to walls/ceilings. 50mm length, in steel. Distance between two fastening points 0.5 - 1m, silicone bushing included.

A1541-100
J-TYPE STEEL CLIP WITH SELF-CLAMPING MECHANISM FOR CABLES

J-style clip with integrated clamping mechanism. Tool-free installation: simply press the cable into place, no cable ties required. Silicone bushing included.

A1362-100
P CLIP FOR SURFACE MOUNTING, IN ALUMINUM

A1329-100
P CLIP FOR SURFACE MOUNTING, IN STEEL

P clip for fastening heat-sensitive cables to surfaces, in steel or aluminium. Distance between two fastening points 0.5 - 1m, silicone bushing included.

A1174-100
V CLIP (CABLE TRAYS), IN STEEL

V clip for fastening heat-sensitive cables on cable trays, in steel. Distance between two fastening points 0.5 - 1m, silicone bushing included.

A1344-100
I-PROFILE CLIP (2-3 MM), IN STEEL

A1178-100
I-PROFILE CLIP (3-8 MM), IN STEEL

A1328-100
I-PROFILE CLIP (8-14 MM), IN STEEL

A1179-100
I-PROFILE CLIP (14-20 MM), IN STEEL

I-profile clip (2 - 3 mm; 3 - 8 mm; 8 - 14 mm; 14 - 20 mm) for heat-sensitive cables, in steel. Distance between two fastening points 0.5 - 1m, silicone bushing NOT included.

A1326-100
FIXING CLIP FOR METAL PIPES, IN GALVANIZED SHEET METAL

A1327-100
FIXING CLIP FOR PIPES, IN STEEL

Clip for fastening heat-sensitive cables on pipes, made of galvanized sheet metal or steel. Distance between two fastening points 0.5 - 1m, silicone bushing included.

A1172-100
BRACKET CLIP FOR DUCTS, IN GALVANIZED SHEET METAL

A1173-100
BRACKET CLIP FOR DUCTS, IN STEEL

C-brackets for fastening heat-sensitive cables inside ducts, made of galvanized sheet metal or steel. Distance between two fastening points 0.5 - 1m, silicone bushing included.

A1164-100
L-BRACKET FOR CEILING/WALL (100MM), GALVANIZED SHEET METAL

A1165-100
L-BRACKET (100MM) FOR CEILING/WALL (100MM), STEEL

A1168-100
L-BRACKET FOR CEILING/WALL (200MM), GALVANIZED SHEET METAL

A1169-100
L-BRACKET FOR CEILING/WALL (200MM), IN STEEL

L-bracket for fastening heat-sensitive cables to ceiling/wall with double fastening (100mm o 200mm)), in galvanized sheet metal or steel. Distance between two fastening points 0.5 - 1m, silicone bushing included.

A1170-100
SPACER BRACKET (200MM), GALVANIZED SHEET METAL

Spacer bracket (200mm) for fastening heat-sensitive cables, in galvanized sheet metal. Distance between two fastening points 0.5 - 1m, silicone bushing included.

A1171-100
SPACER BRACKET (200MM), STEEL

Spacer bracket (200mm) for fastening heat-sensitive cables, in galvanized sheet metal. Distance between two fastening points 0.5 - 1m, silicone bushing included.

A1175-100
NYLON TIES FOR FASTENING HEAT-SENSITIVE CABLES

Nylon cable ties for fastening heat-sensitive cables, maximum temperature 110°C, suitable for indoor installations.

A1176-100
HIGH TEMPERATURE RESISTANT ETFEE TIES HEAT-CABLE FASTENER

ETFEE (Ethylene Tetrafluoroethylene) cable ties for fastening heat-sensitive cables, maximum temperature 170°C, suitable for indoor/outdoor installations.

A1177-100
STEEL TIES FOR FASTENING HEAT-SENSITIVE CABLES

Steel cable ties for fastening heat-sensitive cables, maximum temperature 815°C, suitable for industrial installations.

A1342
TOOL FOR FASTENING STEEL CABLE TIES FOR HEAT-SENSITIVE CABLES

Tool for fastening steel cable ties for heat-sensitive cables

C1283-100
SILICONE BUSHING FOR HEAT-SENSITIVE CABLES

Silicone bushing for heat-sensitive cables.

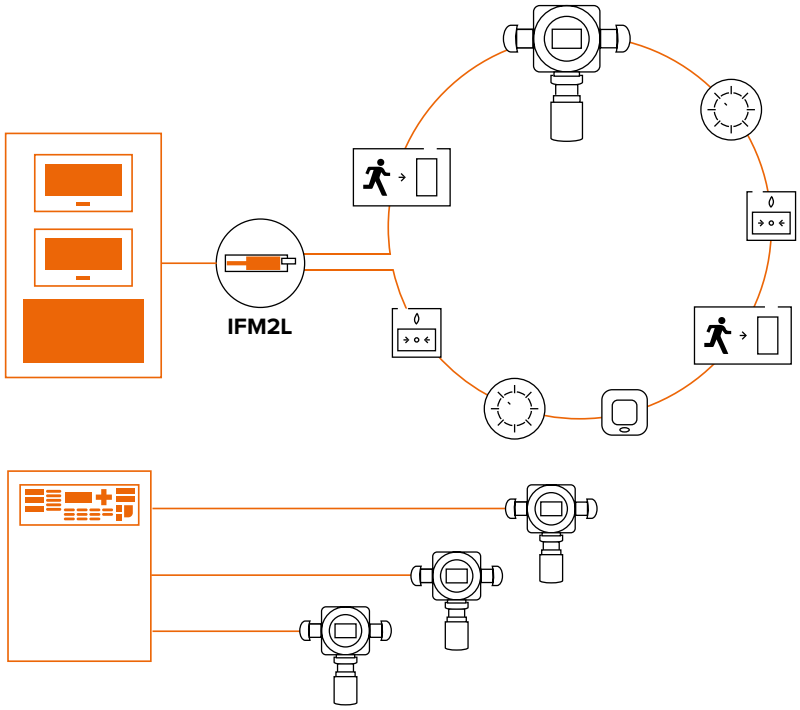
Gas detection

See the data sheet online

Products for monitoring technical environments and areas at risk of gas release

Fire detection very often goes hand in hand with GAS detection: detection of CO in car parks, detection of explosive gases in technical or battery charging rooms, detection of toxic gases or carbon dioxide in companies with specific processes, etc., are just a few examples.

The detectors proposed in this section, based on sensors of different technologies (Semiconductor, Catalytic, Electrochemical, infrared) and available in different enclosures (IP55, ATEX, ATEX with display and touchscreen) allow detection of a wide range of gases (depending on models): flammable, toxic or asphyxiant.



Industrial series gas detectors

The detectors from the Industrial series use the latest generation of microprocessor technology to deliver fast response and ensure accuracy and reliability. The sensitive element is connected to an interchangeable part, this solution allows the replacement of the head (the perishable part of the device) also by the installer, without the need for recalibration by the manufacturer. The complete product line includes a wide array gas leak detectors, all available in explosion-proof or dust-proof

enclosures to satisfy even the most exacting requirements. During the installation phase or maintenance sessions it is possible to connect the detectors of the Industrial series to a PC or to an Android smartphone (using the INA55-701 adapter) to configure the parameters, modify the tripping thresholds, check the gas level reading or simulate alarm, pre-alarm and fault conditions.

Thresholds configurable in L.E.L. or P.P.M percentage (%) or percentage of the volume (for oxygen detector only) depending on the gas to be detected

- Selectable delays from 0 to 240 seconds for each individual threshold
- Reading compensation system in accordance with ambient temperature
- Replacement of sensor cap directly on-site without need of titrated gas canisters
- Connection to PC or Android SmartPhone (via INA55-700 interface) for threshold, filter and delay settings; real-time value readings, and simulation of alarm, pre-alarm and fault conditions

ING7

DETECTOR IN IP55 ENCLOSURE

Detector housed in an IP55 protection rated dust-proof metal enclosure. The sensitive element is located on the underside of the enclosure and is protected by a stainless steel mesh. The sensor cap can be easily and cost-efficiently replaced at the end of its functional life (3 years in favourable environments with no polluting agents) without any need of dismantling the detector.

INE7

DETECTOR IN EXPLOSION-PROOF ENCLOSURE

II 2G Ex d IIC T6 ATEX certified detector in explosion-proof enclosure; the electronic circuitry housing is made from diecast aluminium suitable for installation in classified areas. The sensitive element is located on the lower part of the aluminium enclosure and is housed inside a stainless steel AISI 303 cylinder with a resined, chrome-plated brass protection. The sensitive element is protected by a synthesized steel powder disc. The sensor cap can be easily and cost-efficiently replaced at the end of its functional life (3 years in favourable environments with no polluting agents) without any need of dismantling the detector.

INE7T

DETECTOR IN EXPLOSION-PROOF HOUSING WITH LCD TOUCH SCREEN

Detector in explosion-proof enclosure like the INE7 series detectors with the addition of a touchscreen LCD, thanks to which calibration, verification and maintenance operations can be performed without opening the enclosure. Thanks to this feature, it is possible to operate in environments classified as safe.

Orders for Detectors must specify not only the type of enclosure, but also the type of gas, the technology of the sensitive element and the type of output interface. Following is a schematic representation of the order codes.

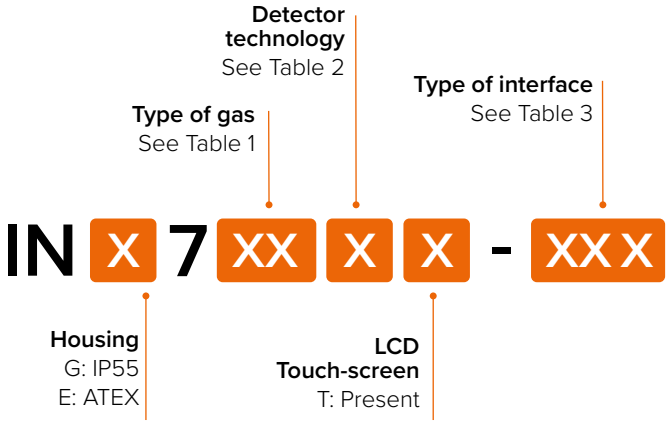


TABLE 1

Code	Gas detected	Pre-set Pre-alarm/Alarm thresholds	Range
00	Methane (CH4)	15/30 % L.E.L.	0 - 100% L.E.L.
01C/01P	Hazard gases (see Order Code Table)	15/30 % L.E.L.	0 - 100% L.E.L.
01D	Refrigerant gases	15/30 % L.E.L.	0 - 100% L.E.L.
01HNO2	Nitrogen dioxide (NO2)	5 / 10 ppm	0 - 20 ppm
01HH2S	Hydrogen Sulphide (H2S)	5 / 10 ppm	0 - 20 ppm
01IR	Carbon dioxide (CO2) / Butane (C4H10)	1000 / 2000 ppm, 4000 / 8000 ppm 10000 / 20000 ppm	0 - 10000 ppm 0 - 30000 ppm
02	Petrol fumes	15/30 % L.E.L.	0 - 100% L.E.L.
03	Carbon monoxide (CO)	100 / 200 ppm	0 - 500 ppm
04	Hydrogen (H2)	15/30 % L.E.L.	0 - 100% L.E.L.
05	LPG (Liquid Petroleum Gas)	15/30 % L.E.L.	0 - 100% L.E.L.
06	Propane	15/30 % L.E.L.	0 - 100% L.E.L.
07	Ammonia (NH3)	100 / 200 ppm	0 - 500 ppm
08	Ammonia (NH3)	1000 / 2000 PPM	0 - 2000 ppm
09	Acetylene	15/30 % L.E.L.	0 - 100% L.E.L.
10	Oxygen (Excess)	24% / 27%	21 - 42% volume
11	Oxygen (Defect)	18% / 15%	21 - 0% volume

TABLE 2

Code	Technology of sensitive element of detector
S	Semiconductor
C	catalytic
P	Pellistor
H	Electrochemical cell
IR	infrared

TABLE 3

Code	Type of interface
RL	3 relays (Alarm, Pre-alarm and Fault)
AS-C	Connection with conventional line (provides Pre-alarm, Alarm and Fault signalling. One detector only per line)
AS-M	Connection for Inim supervised input modules
42	4-20 mA module
LE	Direct connection to Inim Loop
MB	MODBUS

TECHNICAL SPECIFICATIONS

Power supply voltage:		11 – 30 V DC
Standby current consumption	Semiconductor sensors	50mA
	Catalytic sensors	70mA
	Electrochemical sensors	30mA
Alarm current consumption	Semiconductor sensors	80mA
	Catalytic sensors	100mA
	Electrochemical sensors	60mA
Operating temperature:		0 ... + 40 °C
Weight:	IP55 enclosure	370 g
	ATEX enclosure	1000g
Dimensions:	IP55 enclosure	141 x 100 x 60 mm
	ATEX enclosure	165 x 90 x 80 mm
Maximum ambient air speed in the protected ambient:		10 m/S

DETECTOR WITH SEMICONDUCTOR SENSITIVE ELEMENT

SUITABLE FOR ENVIRONMENTS WITH CLEAN AND DRY AIR

In IP55 enclosure

	42	RL	AS-M	AS-C	LE	MB	Replacement sensor
	4-20 mA	Relay	For connection to Inim addressable modules	For connection to SmartLine conventional control panels	Direct connection to Inim Loops	For MODBUS connection	
Methane	ING700S-42	ING700S-RL	ING700S-AS-M	ING700S-AS-C	ING700S-LE	ING700S-MB	INRG-700S
Refrigerant gases *	ING701D-42	ING701D-RL	ING701D-AS-M	ING701D-AS-C	ING701D-LE	ING701D-MB	INRG-701D
Ammonia (500 ppm)	ING707S-42	ING707S-RL	ING707S-AS-M	ING707S-AS-C	ING707S-LE	ING707S-MB	INRG-707S
Ammonia (2000 ppm)	ING708S-42	ING708S-RL	ING708S-AS-M	ING708S-AS-C	ING708S-LE	ING708S-MB	INRG-708S

In ATEX enclosure

	42	RL	AS-M	AS-C	LE	MB	Replacement sensor
	4-20 mA	Relay	For connection to Inim addressable modules	For connection to SmartLine conventional control panels	Direct connection to Inim Loops	For MODBUS connection	
Methane	INE700S-42	INE700S-RL	INE700S-AS-M	INE700S-AS-C	INE700S-LE	INE700S-MB	INRE-700S
Refrigerant gases *	INE701D-42	INE701D-RL	INE701D-AS-M	INE701D-AS-C	INE701D-LE	INE701D-MB	INRE-701D
Ammonia (500 ppm)	INE707S-42	INE707S-RL	INE707S-AS-M	INE707S-AS-C	INE707S-LE	INE707S-MB	INRE-707S
Ammonia (2000 ppm)	INE708S-42	INE708S-RL	INE708S-AS-M	INE708S-AS-C	INE708S-LE	INE708S-MB	INRE-708S

* List of refrigerant gases: R32, R410a, R404a, R134a, R1234yf

DETECTOR WITH CATALYTIC SENSITIVE ELEMENT

SUITABLE FOR ENVIRONMENTS WITH LIGHT POLLUTION

In IP55 enclosure

	42	RL	AS-M	AS-C	LE	MB	Replacement sensor
	4-20 mA	Relay	For connection to Inim addressable modules	For connection to SmartLine conventional control panels	Direct connection to Inim Loops	For MODBUS connection	
Methane	ING700C-42	ING700C-RL	ING700C-AS-M	ING700C-AS-C	ING700C-LE	ING700C-MB	INRG-700C
Hazard gases**	ING701C-42	ING701C-RL	ING701C-AS-M	ING701C-AS-C	ING701C-LE	ING701C-MB	INRG-701C
Petrol fumes	ING702C-42	ING702C-RL	ING702C-AS-M	ING702C-AS-C	ING702C-LE	ING702C-MB	INRG-702C
Hydrogen	ING704C-42	ING704C-RL	ING704C-AS-M	ING704C-AS-C	ING704C-LE	ING704C-MB	INRG-704C
LPG	ING705C-42	ING705C-RL	ING705C-AS-M	ING705C-AS-C	ING705C-LE	ING705C-MB	INRG-705C
Propane	ING706C-42	ING706C-RL	ING706C-AS-M	ING706C-AS-C	ING706C-LE	ING706C-MB	INRG-706C
Acetylene	ING709C-42	ING709C-RL	ING709C-AS-M	ING709C-AS-C	ING709C-LE	ING709C-MB	INRG-709C

In ATEX enclosure

	42	RL	AS-M	AS-C	LE	MB	Replacement sensor
	4-20 mA	Relay	For connection to Inim addressable modules	For connection to SmartLine conventional control panels	Direct connection to Inim Loops	For MODBUS connection	
Methane	INE700C-42	INE700C-RL	INE700C-AS-M	INE700C-AS-C	INE700C-LE	INE700C-MB	INRE-700C
Hazard gases**	INE701C-42	INE701C-RL	INE701C-AS-M	INE701C-AS-C	INE701C-LE	INE701C-MB	INRE-701C
Petrol fumes	INE702C-42	INE702C-RL	INE702C-AS-M	INE702C-AS-C	INE702C-LE	INE702C-MB	INRE-702C
Hydrogen	INE704C-42	INE704C-RL	INE704C-AS-M	INE704C-AS-C	INE704C-LE	INE704C-MB	INRE-704C
LPG	INE705C-42	INE705C-RL	INE705C-AS-M	INE705C-AS-C	INE705C-LE	INE705C-MB	INRE-705C
Propane	INE706C-42	INE706C-RL	INE706C-AS-M	INE706C-AS-C	INE706C-LE	INE706C-MB	INRE-706C
Acetylene	INE709C-42	INE709C-RL	INE709C-AS-M	INE709C-AS-C	INE709C-LE	INE709C-MB	INRE-709C

** Hazard gases list (verify if available). Methanol (methyl alcohol), Pentane, Heptane, Ethyl acetate, Ethylene, Ethanol (Ethyl alcohol), Butane, Exane, iso-Butane.

DETECTOR WITH PELLISTOR SENSITIVE ELEMENT

SUITABLE FOR POLLUTED ENVIRONMENTS

In IP55 enclosure

	42	RL	AS-M	AS-C	LE	MB	Replacement sensor
	4-20 mA	Relay	For connection to Inim addressable modules	For connection to SmartLine conventional control panels	Direct connection to Inim Loops	For MODBUS connection	
Methane	ING700P-42	ING700P-RL	ING700P-AS-M	ING700P-AS-C	ING700P-LE	ING700P-MB	INRG-700P
Hazard gases*	ING701P-42	ING701P-RL	ING701P-AS-M	ING701P-AS-C	ING701P-LE	ING701P-MB	INRG-701P
Petrol fumes	ING702P-42	ING702P-RL	ING702P-AS-M	ING702P-AS-C	ING702P-LE	ING702P-MB	INRG-702P
Hydrogen	ING704P-42	ING704P-RL	ING704P-AS-M	ING704P-AS-C	ING704P-LE	ING704P-MB	INRG-704P
LPG	ING705P-42	ING705P-RL	ING705P-AS-M	ING705P-AS-C	ING705P-LE	ING705P-MB	INRG-705P
Propane	ING706P-42	ING706P-RL	ING706P-AS-M	ING706P-AS-C	ING706P-LE	ING706P-MB	INRG-706P
Acetylene	ING709P-42	ING709P-RL	ING709P-AS-M	ING709P-AS-C	ING709P-LE	ING709P-MB	INRG-709P

In ATEX enclosure

	42	RL	AS-M	AS-C	LE	MB	Replacement sensor
	4-20 mA	Relay	For connection to Inim addressable modules	For connection to SmartLine conventional control panel terminals	Direct connection to Inim Loops	For MODBUS connection	
Methane	INE700P-42**	INE700P-RL**	INE700P-AS-M	INE700P-AS-C	INE700P-LE	INE700P-MB	INRE-700P
Hazard gases*	INE701P-42	INE701P-RL	INE701P-AS-M	INE701P-AS-C	INE701P-LE	INE701P-MB	INRE-701P
Petrol fumes	INE702P-42	INE702P-RL	INE702P-AS-M	INE702P-AS-C	INE702P-LE	INE702P-MB	INRE-702P
Hydrogen	INE704P-42	INE704P-RL	INE704P-AS-M	INE704P-AS-C	INE704P-LE	INE704P-MB	INRE-704P
LPG	INE705P-42	INE705P-RL	INE705P-AS-M	INE705P-AS-C	INE705P-LE	INE705P-MB	INRE-705P
Propane	INE706P-42	INE706P-RL	INE706P-AS-M	INE706P-AS-C	INE706P-LE	INE706P-MB	INRE-706P

In ATEX enclosure with LCD touch screen display

	42	RL	AS-M	AS-C	LE	MB	Sensor sensor
	4-20 mA	Relay	For connection to addressable modules Inim	For connection to SmartLine conventional control panel terminals	Direct connection to Inim Loops	For MODBUS connection	
Methane	INE700PT-42**	INE700PT-RL**	INE700PT-AS-M	INE700PT-AS-C	INE700PT-LE	INE700PT-MB	INRE-700P
Hazard gases*	INE701PT-42	INE701PT-RL	INE701PT-AS-M	INE701PT-AS-C	INE701PT-LE	INE701PT-MB	INRE-701P
Petrol fumes	INE702PT-42	INE702PT-RL	INE702PT-AS-M	INE702PT-AS-C	INE702PT-LE	INE702PT-MB	INRE-702P
Hydrogen	INE704PT-42	INE704PT-RL	INE704PT-AS-M	INE704PT-AS-C	INE704PT-LE	INE704PT-MB	INRE-704P
LPG	INE705PT-42	INE705PT-RL	INE705PT-AS-M	INE705PT-AS-C	INE705PT-LE	INE705PT-MB	INRE-705P
Propane	INE706PT-42	INE706PT-RL	INE706PT-AS-M	INE706PT-AS-C	INE706PT-LE	INE706PT-MB	INRE-706P
Acetylene	INE709PT-42	INE709PT-RL	INE709PT-AS-M	INE709PT-AS-C	INE709PT-LE	INE709PT-MB	INRE-709P

* Hazard gases list (verify if available).
Methanol (methyl alcohol), Pentane, Heptane, Ethyl acetate, Ethylene, Ethanol (Ethyl alcohol), Butane, Exane, iso-Butane.

** EN60079-29-1 version available.

DETECTORS WITH ELECTROCHEMICAL CELL TYPE SENSITIVE ELEMENT

SUITABLE FOR TOXIC GAS DETECTION (MEASURING IN PPM)

In IP55 enclosure

	42	RL	AS-M	AS-C	LE	MB	Replacement sensor
	4-20 mA	Relay	For connection to Inim addressable modules	For connection to SmartLine conventional control panels	Direct connection to Inim Loops	For MODBUS connection	
Nitrogen dioxide	ING701HNO2-42	ING701HNO2-RL	ING701HNO2-AS-M	ING701HNO2-AS-C	ING701HNO2-LE	ING701HNO2-MB	INRG-701HNO2
Hydrogen Sulphide	ING701HH2S-42	ING701HH2S-RL	ING701HH2S-AS-M	ING701HH2S-AS-C	ING701HH2S-LE	ING701HH2S-MB	INRG-701HH2S
Carbon monoxide	ING703H-42	ING703H-RL	ING703H-AS-M	ING703H-AS-C	ING703H-LE	ING703H-MB	INRG-703H
Carbon monoxide EN50545	ING703HPK-42	ING703HPK-RL4	/	/	ING703HPK-LE	ING703HPK-MB	INRG-703HPK
Ammonia (500 ppm)	ING707H-42	ING707H-RL	ING707H-AS-M	ING707H-AS-C	ING707H-LE	ING707H-MB	INRG-707H
Ammonia (2000 ppm)	ING708H-42	ING708H-RL	ING708H-AS-M	ING708H-AS-C	ING708H-LE	ING708H-MB	INRG-708H
Oxygen (Excess)	ING710H-42	ING710H-RL	ING710H-AS-M	ING710H-AS-C	ING710H-LE	ING710H-MB	INRG-710H
Oxygen (Defect)	ING711H-42	ING711H-RL	ING711H-AS-M	ING711H-AS-C	ING711H-LE	ING711H-MB	INRG-711H
Oxygen for medical applications (excess)	ING710HMD-42	ING710HMD-RL	ING710HMD-AS-M	ING710HMD-AS-C	ING710HMD-LE	ING710HMD-MB	INRG-710HMD
Oxygen for medical applications (defect)	ING711HMD-42	ING711HMD-RL	ING711HMD-AS-M	ING711HMD-AS-C	ING711HMD-LE	ING711HMD-MB	INRG-711HMD

In ATEX enclosure

	42	RL	AS-M	AS-C	LE	MB	Replace-ment sensor
	4-20 mA	Relay	For connection to Inim addressable modules	For connection to SmartLine conventional control panels	Direct connection to Inim Loops	For MODBUS connection	
Nitrogen dioxide	INE701HNO2-42	INE701HNO2-RL	INE701HNO2-AS-M	INE701HNO2-AS-C	INE701HNO2-LE	INRE-701HNO2-MB	INRE-701HNO2
Hydrogen Sulphide	INE701HH2S-42	INE701HH2S-RL	INE701HH2S-AS-M	INE701HH2S-AS-C	INE701HH2S-LE	INRE-701HH2S-MB	INRE-701HH2S
Carbon monoxide	INE703H-42	INE703H-RL	INE703H-AS-M	INE703H-AS-C	INE703H-LE	INRE-703H-MB	INRE-703H
Ammonia (500 ppm)	INE707H-42	INE707H-RL	INE707H-AS-M	INE707H-AS-C	INE707H-LE	INRE-707H-MB	INRE-707H
Ammonia (2000 ppm)	INE708H-42	INE708H-RL	INE708H-AS-M	INE708H-AS-C	INE708H-LE	INRE-708H-MB	INRE-708H
Oxygen (Excess)	INE710H-42	INE710H-RL	INE710H-AS-M	INE710H-AS-C	INE710H-LE	INRE-710H-MB	INRE-710H
Oxygen (Defect)	INE711H-42	INE711H-RL	INE711H-AS-M	INE711H-AS-C	INE711H-LE	INRE-711H-MB	INRE-711H

In ATEX enclosure with LCD touch screen display

	42	RL	AS-M	AS-C	LE	MB	Replacement sensor
	4-20 mA	Relay	For connection to addressable modules Inim	For connection to SmartLine conventional control panel terminals	Direct connection to Inim Loops	For MODBUS connection	
Nitrogen dioxide	INE701HTNO2-42	INE701HTNO2-RL	INE701HTNO2-AS-M	INE701HTNO2-AS-C	INE701HTNO2-LE	INE701HTNO2-MB	INRE-701HNO2
Hydrogen Sulphide	INE701HTH2S-42	INE701HTH2S-RL	INE701HTH2S-AS-M	INE701HTH2S-AS-C	INE701HTH2S-LE	INE701HTH2S-MB	INRE-701HH2S
Carbon monoxide	INE703HT-42	INE703HT-RL	INE703HT-AS-M	INE703HT-AS-C	INE703HT-LE	INE703HT-MB	INRE-703H
Ammonia (500 ppm)	INE707HT-42	INE707HT-RL	INE707HT-AS-M	INE707HT-AS-C	INE707HT-LE	INE707HT-MB	INRE-707H
Ammonia (2000 ppm)	INE708HT-42	INE708HT-RL	INE708HT-AS-M	INE708HT-AS-C	INE708HT-LE	INE708HT-MB	INRE-708H
Oxygen (Excess)	INE710HT-42	INE710HT-RL	INE710HT-AS-M	INE710HT-AS-C	INE710HT-LE	INE710HT-MB	INRE-710H
Oxygen (Defect)	INE711HT-42	INE711HT-RL	INE711HT-AS-M	INE711HT-AS-C	INE711HT-LE	INE711HT-MB	INRE-711H

DETECTORS WITH INFRARED SENSITIVE ELEMENT

SUITABLE FOR SELECTIVE MEASURE OF SPECIFIC GASES

In IP55 enclosure

	42	RL	AS-M	AS-C	LE	MB	Replacement sensor
	4-20 mA	Relay	For connection to Inim addressable modules	For connection to SmartLine conventional control panels	Direct connection to Inim Loops	For MODBUS connection	
Methane	ING700IR-42	ING700IR-RL	ING700IR-AS-M	ING700IR-AS-C	ING700IR-LE	ING700IR-MB	INRG-700IR
Carbon Dioxide / Butane ***	ING701IR-42	ING701IR-RL	ING701IR-AS-M	ING701IR-AS-C	ING701IR-LE	ING701IR-MB	INRG-701IR
LPG	ING705IR-42	ING705IR-RL	ING705IR-AS-M	ING705IR-AS-C	ING705IR-LE	ING705IR-MB	INRG-705IR
Propane	ING706IR-42	ING706IR-RL	ING706IR-AS-M	ING706IR-AS-C	ING706IR-LE	ING706IR-MB	INRG-706IR

In ATEX enclosure

	42	RL	AS-M	AS-C	LE	MB	Replacement sensor
	4-20 mA	Relay	For connection to Inim addressable modules	For connection to SmartLine conventional control panels	Direct connection to Inim Loops	For MODBUS connection	
Methane	INE700IR-42	INE700IR-RL	INE700IR-AS-M	INE700IR-AS-C	INE700IR-LE	INE700IR-MB	INRE-700IR
Carbon Dioxide/Butane***	INE701IR-42	INE701IR-RL	INE701IR-AS-M	INE701IR-AS-C	INE701IR-LE	INE701IR-MB	INRE-701IR
LPG	INE705IR-42	INE705IR-RL	INE705IR-AS-M	INE705IR-AS-C	INE705IR-LE	INE705IR-MB	INRE-705IR
Propane	INE706IR-42	INE706IR-RL	INE706IR-AS-M	INE706IR-AS-C	INE706IR-LE	INE706IR-MB	INRE-706IR

Detectors with INFRARED sensitive element in ATEX enclosure with LCD touch-screen display — Suitable for selective measure of specific gases

	42	RL	AS-M	AS-C	LE	MB	Replacement sensor
	4-20 mA	Relay	For connection to Inim addressable modules	For connection to SmartLine conventional control panels	Direct connection to Inim Loops	For MODBUS connection	
Methane	INE700IRT-42	INE700IRT-RL	INE700IRT-AS-M	INE700IRT-AS-C	INE700IRT-LE	INE700IRT-MB	INRE-700IR
Carbon Dioxide / Butane ***	INE701IRT-42	INE701IRT-RL	INE701IRT-AS-M	INE701IRT-AS-C	INE701IRT-LE	INE701IRT-MB	INRE-701IR
LPG	INE705IRT-42	INE705IRT-RL	INE705IRT-AS-M	INE705IRT-AS-C	INE705IRT-LE	INE705IRT-MB	INRE-705IR
Propane	INE706IRT-42	INE706IRT-RL	INE706IRT-AS-M	INE706IRT-AS-C	INE706IRT-LE	INE706IRT-MB	INRE-706IR

*** To be specified in the order:
- Detectable gas type (Carbon Dioxide or Butane)
- Threshold for Carbon Dioxide (1000/2000 ppm, 4000/8000 ppm or 10000/20000 ppm)
- Measuring range for Carbon Dioxide (0 - 10000 ppm or 0 - 30000 ppm)

Accessories

INA55-701 - PC OR ANDROID SMARTPHONE INTERFACE FOR GAS DETECTORS

It allows interfacing the detector with a PC or smartphone with an Android operating system, as well as reading and modifying the detector parameters, simulating the pre-alarm, alarm and fault status. Complete with CD containing the required App.

INA55-104 - VALVE FOR 1L CYLINDERS

INA55-108 - CUP FOR TEST AEROSOL DELIVERY

INA55-109 - STAINLESS STEEL MOUNTING BRACKET FOR ATEX STANDARD DETECTORS (WITHOUT DISPLAY)

INA55-110 - FLOWMETER WITH VALVE FOR THE 1L CYLINDERS

INA55-111 - FLOWMETER WITH VALVE FOR THE 3L AND 5L CYLINDERS

Test Cylinders

INB12 - 1 LITRE TESTER CANISTER FOR GAS DETECTORS

Functionality tester for gas detectors, to be used by qualified persons only, sufficient for approximately 8 tests.

INB34 - 3 LITERS TESTER CANISTER FOR GAS DETECTORS

Functionality tester for gas detectors, to be used by qualified persons only, sufficient for approximately 24 tests.

INB54 - 5 LITERS TESTER CANISTER FOR GAS DETECTORS

Functionality tester for gas detectors, to be used by qualified persons only, sufficient for approximately 40 tests.

Gas	1l disposable cylinder	3l disposable cylinder	5l disposable cylinder
Propane 20% L.E.L., suitable for LPG detectors also	INB12-100	INB34-100	INB58-100
Propane 40% L.E.L., suitable for LPG detectors also	INB12-101	INB34-101	INB58-101
Methane 20% L.E.L.	INB12-102	INB34-102	INB58-102
Methane 40% L.E.L.	INB12-103	INB34-103	INB58-103
Hydrogen 20% L.E.L.	INB12-104	INB34-104	INB58-104
Hydrogen 40% L.E.L.	INB12-105	INB34-105	INB58-105
Acetylene 20% L.E.L.	INB12-106	INB34-106	INB58-106
Acetylene 40% L.E.L.	INB12-107	INB34-107	INB58-107
Carbon monoxide, 150 ppm	INB12-108	INB34-108	INB58-108
Carbon monoxide, 300 ppm	INB12-109	INB34-109	INB58-109
Oxygen 25% Volume	INB12-110	INB34-110	INB58-110
Isobutane 20% L.E.L., suitable for petrol fumes detectors also	INB12-111	INB34-111	INB58-111
Isobutane 50% L.E.L., suitable for petrol fumes detectors also	INB12-112	INB34-112	INB58-112
Oxygen 15% Volume	INB12-113	INB34-113	INB58-113
25 ppm Ammonia in air	/	INB34-114	INB58-114
100 ppm Ammonia in air	/	INB34-115	INB58-115
500 ppm Ammonia in air	/	INB34-116	INB58-116
1000 ppm Ammonia in air	/	INB34-117	INB58-117
Carbon dioxide, 500 ppm, rest in air	INB12-118	INB34-118	INB58-118
Carbon dioxide, 1000 ppm, rest in air	INB12-119	INB34-119	INB58-119
Carbon dioxide, 5000 ppm, rest in air	INB12-120	INB34-120	INB58-120
Carbon dioxide, 10000 ppm, rest in air	INB12-121	INB34-121	INB58-121
Carbon dioxide, 20000 ppm, rest in air	INB12-122	INB34-122	INB58-122
Carbon dioxide, 30000 ppm, rest in air	INB12-123	INB34-123	INB58-123
Pentane 20% L.E.L.	INB12-124	INB34-124	INB58-124
Pentane 40% L.E.L.	INB12-125	INB34-125	INB58-125
Refrigerant gas	INB12-126	INB34-126	INB58-126
Benzene 20% L.E.L.	INB12-127	INB34-127	INB58-127
Nitrogen dioxide 5 ppm in air	/	INB34-129	INB58-129
Nitrogen dioxide 20 ppm in air	/	INB34-130	INB58-130

Elite gas detector series

The detectors from the ELITE series represent excellence in the field of gas detection, the multiple technologies available (catalytic, pellistor, electrochemical or infrared sensitive elements), the wide range of detectable gases, the ease-of-use and trouble-free maintenance combined with the quality and reliability that distinguish these devices makes the ELITE series a unique product range of its kind. Two buttons on-board each detector (F1 and F2) allow you to carry out tool-free calibration and maintenance operations. Trouble-free maintenance allows you to directly replace the cartridge with the sensitive element without need of calibration. The detectors are available in either IP55 or explosion-proof enclosures for use in potentially explosive areas (II 2 G Ex d IIC T6 Gb).

Gas detected	Sensitive element technology	3 relay Output + fault and 4-20mA		4-20 mA module		Measuring range	Replacement cartridge		Calibration canister	Years*
		IP55	ATEX	IP55	ATEX		IP55	ATEX		
Methane	Catalytic	SE237KM	SE138KM	TS282KM	TS293KM	0 - 20% LEL	ZSK02	ZSK02/EX	BO200	5
	Pellistor	SE237PM	SE138PM	TS282PM	TS293PM	0 - 100% LEL	ZSP05	ZSP05/EX	BO200	5
	Infrared				TS293IM	0 - 100% LEL			BO200	
LPG	Catalytic	SE237KG	SE138KG	TS282KG	TS293KG	0 - 20% LEL	ZSK02	ZSK02/EX	BO200	5
	Pellistor	SE237PG	SE138PG	TS282PG	TS293PG	0 - 100% LEL	ZSP05	ZSP05/EX	BO200	5
	Infrared				TS293IG	0 - 100% LEL			BO200	
Hydrogen	Catalytic	SE237KI	SE138KI	TS282KI	TS293KI	0 - 20% LEL	ZSK02	ZSK02/EX	BO200	5
	Pellistor	SE237PI	SE138PI	TS282PI	TS293PI	0 - 100% LEL	ZSP05	ZSP05/EX	BO200	5
Petrol	Catalytic	SE237KB	SE138KB	TS282KB	TS293KB	0 - 20% LIE	ZSK04	ZSK04/EX	BO200	5
	Pellistor	SE237PB	SE138PB	TS282PB	TS293PB	0 - 100% LEL	ZSP05	ZSP05/EX	BO200	5
Ammonia	Electrochemical	SE237EA	SE138EA	TS282EA	TS293EA	0 - 300 ppm	ZSEA1	ZSEA1/EX	BO501	3
	Electrochemical	SE237EA-H	SE138EA-H	TS282EA-H	TS293EA-H	0 - 300 ppm			BO501	
Carbon monoxide	Electrochemical	SE237EC-S	SE138EC-S	TS282EC-S	TS293EC-S	0 - 300 ppm	ZSEC1	ZSEC1/EX	BO210	3
	Electrochemical	SE237EC-H	SE138EC-H	TS282EC-H	TS293EC-H	0 - 300 ppm		ZSEC2/EX	BO210	2
Hydrogen Sulphide	Electrochemical	SE237EH	SE138EH	TS282EH	TS293EH	0 - 100 ppm	ZSEH1	ZSEH1/EX	BO470	2
Nitrogen Oxide	Electrochemical	SE237EN	SE138EN	TS282EN	TS293EN	0 - 300 ppm	ZSEN1	ZSEN1/EX	BO472	2
Nitrogen dioxide	Electrochemical	SE237EN2	SE138EN2	TS282EN2	TS293EN2	0 - 30 ppm	ZSEN2	ZSEN2/EX	BO018	2
Oxygen**	Electrochemical	SE237EO	SE138E0			0 - 25 % Volume	ZSEO1	ZSEO1/EX	BO015	2
Sulfur Dioxide	Electrochemical	SE237ES	SE138ES	TS282ES	TS293ES	0 - 20 ppm	ZSES1	ZSES1/EX	BO418	2
Acetylene	Pellistor		SE138PE		TS293PE	0 - 100% LEL		ZSP02/EX	BO200	5
Styrene	Pellistor		SE138PS		TS293PS	0 - 100% LEL		ZSP03/EX	BO200	5
Hydrocyanic Acid	Electrochemical	SE237EHCN	SE138EHCN	TS282EHCN		0 - 10 ppm	ZSEHCN		B0479	2
Hydrochloric Acid	ELECTROCHEMICAL	SE237EHCL	SE138EHCL	TS282EHCL	TS293EHCL	0 - 30 ppm	ZSEHCL	ZSEHCL/EX	WR000	2
Hazard gases (by request)	Catalytic***	SE237KX	SE138KX			0 - 20% LEL			BO200	5
	Pellistor***	SE237PX	SE138PX	TS282PX	TS293PX	0 - 100% LEL	ZSP05	ZSP05/EX	BO200	5
	Pellistor****		SE138PX-H		TS293PX-H	0 - 100% LEL			BO200	5
	Infrared****				TS293IX	0 - 100% LEL				
Carbon dioxide	Infrared			TS282IC2	TS293IC2	0 – 5% Vol.				
				TS282IC2-H	TS293IC2-H	0 – 5000 ppm				
CO + Petrol Fumes (for parking areas)	Catalytic			TS255CB			ZSEC1 - ZSK04		BO200 / BO210	
CO + Nitrogen Dioxide	Electrochemical			TS255CN2			ZSEC1 - ZSEN2		BO008 / BO018	

*Average life in clean air (years).
** Cannot be connected as 4-20 mA to the I/O terminals of the SmartLine or the loop modules.
*** Ethyl acetate, Acetone, Isopropolic alcohol, Ammonia, Heptane, Hexane, Ethanol (Ethyl alcohol).
**** Acetone, Tertiary Butyl alcohol, Butyl alcohol-n, Isobutyl alcohol, Isopropolic alcohol (2-Propanol), Prolipic alcohol (1-Propanol), Ammonia, Petrol (green), Butane, Butene-2-trans, Butene-1, Butene-2cis (Butene-2), Cyclohexane, Decan, Heptane, Hexane, Ethane, Ethanol (Ethyl alcohol), Ethylene, Hydrogen, Iso-butane, Iso-pentane, Methane, Methyl ethyl ketone (Butanone), Nitromethane, Nonane, Carbon monoxide, Octane-n.

Detectors from the gas Value Line series

The detectors from the GAS VALUE Line series are characterized by an extremely reasonable price, housed in an IP44 or IP65 plastic enclosure, depending on the model or in an ATEX certified metal enclosure, 4-20 mA interface, they represent an excellent solution in gas alarm systems in car parks, thermal power plants, and environments to be protected from possible gas leaks such as methane, LPG, etc.

SE192

VALUE LINE SERIES GAS DETECTOR

They are equipped with a 4-20 mA interface with full scale equal to 20% L.E.L. for explosive gas detectors and 300ppm for the CO detectors. The IP44 protection grade plastic enclosure is aesthetically pleasing and well-finished. The detector allows practical testing, calibration and electrical test operations using the two buttons on the circuit, the titrated gas from the test cylinders can be applied to the sensitive element using the TC011 or TC014 adapters.
It is NOT possible to replace the sensing element once it has reached the end of its operational life cycle.

TECHNICAL SPECIFICATIONS	SE192KM	SE192KG	SE192KB	SE192KI	SE192EC
Gas	Methane	LPG	PETROL	HYDROGEN	C0
Bottom of scale	20% LEL	20% LEL	20% LEL	20% LEL	300 PPM
Test cylinder	BO200	BO200	BO200	BO200	BO210

SE182

VALUE LINE SERIES GAS DETECTOR

Equipped with a 4-20 mA interface with full scale equal to 20% L.E.L. (K Version) or full scale equal to 100% L.E.L. (P version) for explosive gas detectors and 300ppm for the CO detector. The plastic enclosure guarantees IP65 protection grade. The detector allows practical testing, calibration and electrical test operations using the two buttons on the circuit, the titrated gas from the test cylinders can be applied to the sensitive element using the TC011 or TC014 adapters.
It is NOT possible to replace the sensing element once it has reached the end of its operational life cycle.

TECHNICAL SPECIFICATIONS	SE182KM	SE182KG	SE182KB	SE182KI	SE182PM	SE182PG	SE182PB	SE182PI	SE182EC
Gas	Methane	LPG	Petrol	Hydrogen	Methane	LPG	Petrol	Hydrogen	C0
Range	20% LEL	20% LEL	20% LEL	20% LEL	100% LEL	100% LEL	100% LEL	100% LEL	300 PPM
Test cylinder	BO200	BO200	BO200	BO200	BO200	BO200	BO200	BO200	BO210

SE183

VALUE LINE SERIES GAS DETECTOR SERIES IN CERTIFIED EXPLOSION PROOF ENCLOSURE

Equipped with a 4-20 mA interface with full scale equal to 20% L.E.L. (K Version) or full scale equal to 100% L.E.L. (P version) for explosive gas detectors and 300ppm for the CO detector.
The detector allows practical testing, calibration and electrical test operations using the two buttons on the circuit, the titrated gas from the test cylinders can be applied to the sensitive element using the TC011 or TC014 adapters.
It is NOT possible to replace the sensing element once it has reached the end of its operational life cycle.
ATEX Ex II 2G Ex db IIC T5 Gb certified

TECHNICAL SPECIFICATIONS	SE183KM	SE183KG	SE183KB	SE183KI	SE183PM	SE183PG	SE183PB	SE183PI	SE183EC
Gas	Methane	LPG	Petrol	Hydrogen	Methane	LPG	Petrol	Hydrogen	C0
Range	20% LEL	20% LEL	20% LEL	20% LEL	100% LEL	100% LEL	100% LEL	100% LEL	300 PPM
Test cylinder	BO200	BO200	BO200	BO200	BO200	BO200	BO200	BO200	BO210

Accessories for Elite and Value Line series gas detectors

TC011

Calibration kit for ELITE and VALUE LINE gas detectors comprising calibration cap and flow meter.

TC014

Calibration kit for ELITE and VALUE LINE gas detectors comprising calibration cap and flow meter in stainless steel for highly reactive gases.

BO303

S-Flow valve for 34 – 58 – 110ltr canisters. Inert gases, Hydrogen Sulphide, Sulfur Dioxide, Ammonia. With flow meter and manometer.

BO305

HPC valve in stainless steel for 34 – 58 – 110ltr canisters. Reactive and highly reactive gases. With manometer.

BO311

MiniFlow valve for 12ltr canisters. Inert gases, Hydrogen Sulphide, Sulfur Dioxide, Ammonia. With flow meter and manometer.

TR530

Aluminium bracket for wall or ceiling mount of SE and TS series detectors.

AR015

Stainless steel cover for TR530 bracket for SE and TS series detectors.

TR533

Mechanical protection against accident impacts.

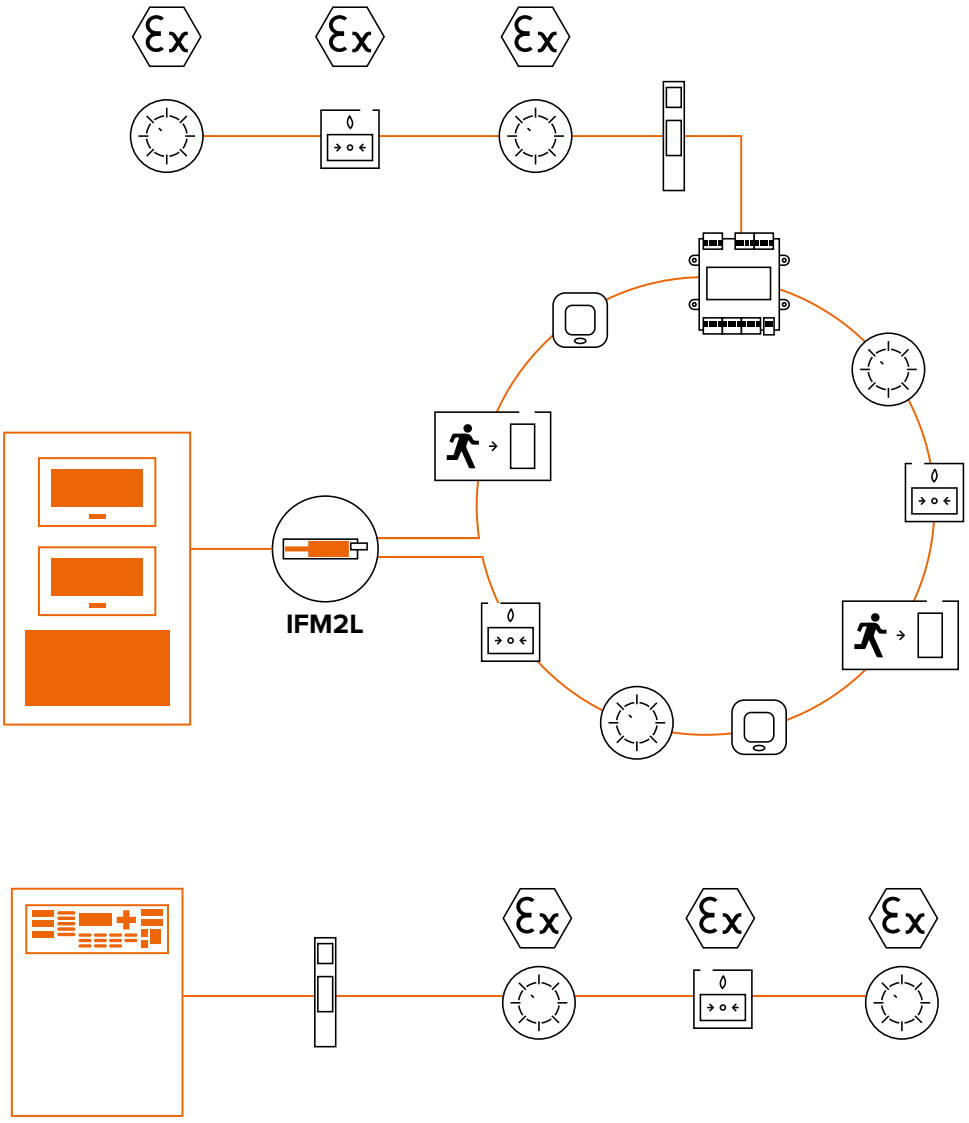
ATEX devices

See the data sheet online

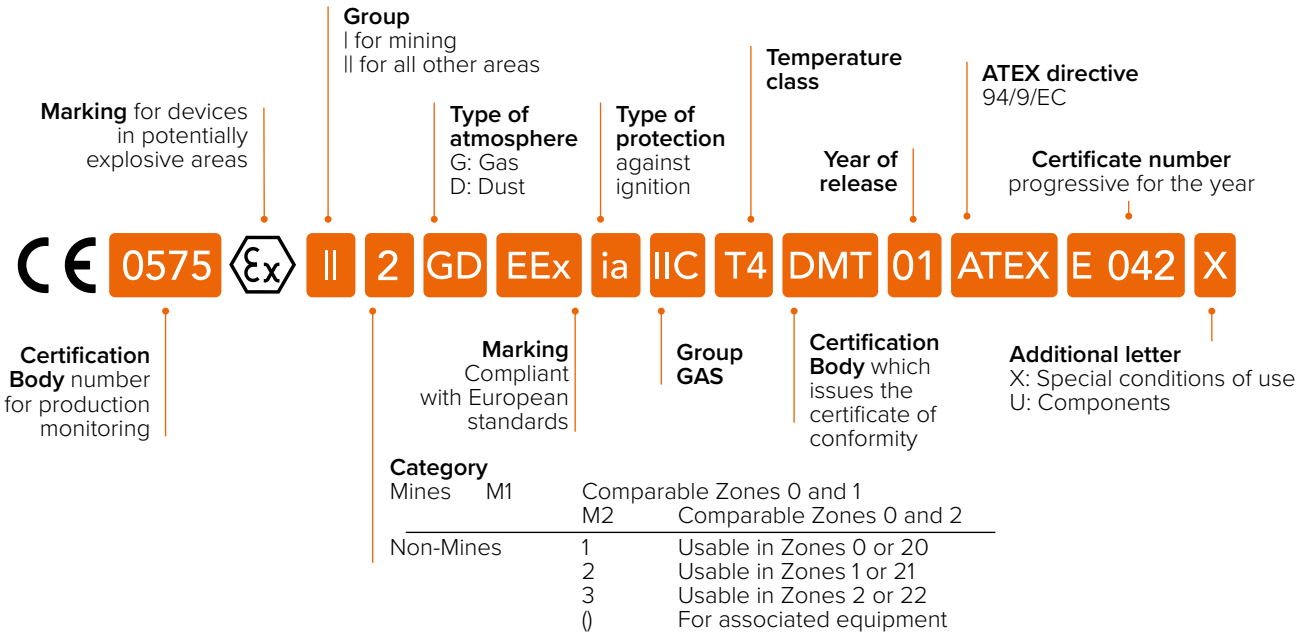
Certified products for applications with explosive atmosphere risk

Equipment suitable for environments where an explosive mixture of air and gas or vapour can be present continuously, intermittently or as a result of an accident, defined as hazardous areas by directive 2014/34/EU.

Electrical equipment for use in such areas must be designed so that it does not constitute an explosion ignition source, not only under normal operating conditions but also under fault conditions.



The ATEX marking



Orbis conventional detectors

ORB-HT-51145-APO
I.S. CONVENTIONAL DETECTORS, CATEGORY II 1G EX IA IIC T5

ATEX

The conventional equipment of the Apollo Orbis I.S. proposed herein reaches the ATEX safety level by means of the “Intrinsically safe” technique. Intrinsically safe equipment operates at such low power and with such small amounts of stored energy that it does not constitute an ignition source under any operating conditions:

- In normal conditions
- With one fault only (for ib classification)
- With any combination of two faults (for ia classification)

HEAT DETECTOR

ORB-HT-51145-APO	Class A1R Orbis I.S. 1G Ex ia IIC T4 Ga (-50°C ≤ Ta ≤ +60°C) / T5 (-50°C ≤ Ta ≤ +40°C)
ORB-HT-51157-APO	Class A1S Orbis I.S. 1G Ex ia IIC T4 Ga (-50°C ≤ Ta ≤ +60°C) / T5 (-50°C ≤ Ta ≤ +40°C)
ORB-HT-51147-APO	Class A2S Orbis I.S. 1G Ex ia IIC T4 Ga (-50°C ≤ Ta ≤ +60°C) / T5 (-50°C ≤ Ta ≤ +40°C)
ORB-HT-51149-APO	Class BR Orbis I.S. 1G Ex ia IIC T4 Ga (-50°C ≤ Ta ≤ +60°C) / T5 (-50°C ≤ Ta ≤ +40°C)
ORB-HT-51151-APO	Class BS Orbis I.S. 1G Ex ia IIC T4 Ga (-50°C ≤ Ta ≤ +60°C) / T5 (-50°C ≤ Ta ≤ +40°C)
ORB-HT-51153-APO	Class CR Orbis I.S. 1G Ex ia IIC T4 Ga (-50°C ≤ Ta ≤ +60°C) / T5 (-50°C ≤ Ta ≤ +40°C)
ORB-HT-51155-APO	Class CS Orbis I.S. 1G Ex ia IIC T4 Ga (-50°C ≤ Ta ≤ +60°C) / T5 (-50°C ≤ Ta ≤ +40°C)

SMOKE AND HEAT DETECTOR

ORB-OH-53027-APO	1G Ex ia IIC T4 Ga (-50°C ≤ Ta ≤ +60°C) / T5 (-50°C ≤ Ta ≤ +40°C)

SMOKE DETECTOR

ORB-OP-52027-APO	1G Ex ia IIC T4 Ga (-50°C ≤ Ta ≤ +60°C) / T5 (-50°C ≤ Ta ≤ +40°C)
ORB-MB-50018-APO	Mounting base for Orbis I.S. detectors

55100-031APO
ATEX CALL POINT IN I.S. TECHNOLOGIES OR EXPLOSION-PROOF

ATEX

Buttons for manual activation of fire alarms for installation in ATEX classified areas

55100-031APO	I.S. conventional
55100-033APO	I.S. conventional for outdoor use
29600-508	Conventional in explosion-proof enclosure (II 2 G Ex and d IIC T6 Gb Ta = -40°C to +55°C ; II 2 D Ex t IIIC T60°C Db)

29600-378
GALVANIC BARRIERS FOR I.S. DETECTORS

ATEX

29600-378 (P+F KFD0-SD2-Ex1.1045)
Galvanic barrier for I.S. signallers - Max. 45 mA Allows supervision of the connection ONLY up to the entrance of the barrier, not in the ATEX zone

TCC-0001 - IS
INTRINSECALLY SAFE CONVENTIONAL AUDIBLE AND VISUAL INDICATORS

ATEX

The following Intrinsically Safe alarm devices are certified for use in ATEX classified environments for group I (mine) and group II (surface).
These signallers are to be used in combination with a certified Zener or Galvanic barrier. The characteristics of the barrier must not exceed Uo: 28V, Io: 93 mA, Po: 660 mW, Ci: 0, Li 0. The minimum Uo value should not fall below 23.6V and the minimum Io value should not fall below 50mA.

- Approved by ATEX, IECEx
- Group I MI Ex ia I Ma
- Group II IGD Ex ia IIC T6 Ga, Ex ia IIIC T85˚C Da
- Zones 0, 1, 2, 20, 21 & 22;
- EN 60079-0:2012 + All:2013 (IEC 60079-0:2011) EN-60079-11:2012 + (IEC 60079-11:2011).
- Dustproof & Weatherproof

TCC-0001 - IS	Sonos sounder – Red with deep base
TCC-0007 - IS	Sonos sounder with flasher – Red with deep base, **AMBER LENS**
TCC-0008 - IS	Sonos sounder with flasher – Red with deep base, **RED LENS**

TECHNICAL SPECIFICATIONS

Current draw:	33mA	**Protection grade:**	IP66
Sound output:	105 dB @ 1 m	**No. of Tones:**	32 (internal DIP Switch)
Wire entry:	3x M20		
Operating temperature:	-40°C ... +55°C		

KCD0-SD3-EX1.1045

GALVANIC BARRIERS FOR I.S. SOUNDERS

ATEX

DIN-rail mount galvanic barrier for I.S. signalling devices, max. 45 mA

TCB-0017

ATEX EXPLOSION PROOF ALARM SIGNALLERS

ATEX

The EXPLOSION PROOF alarm signallers listed below are certified for use in ATEX classified environments.

TCB-0017	ATEX explosion proof alarm signaller
TCB-0033	ATEX explosion proof visual/audible alarm signaller 5W Red LED flasher
TCB-021	ATEX explosion proof visual/audible alarm signaller Xenon 5j Red flasher
TCB-025	ATEX explosion proof visual/audible alarm signaller Xenon 10j Red flasher

- ATEX: II 2G Exd IIC T4 - T6 (incorporating IIA & IIB)
- Certified for zone 1 & 2
- Conforms to EN (IEC) 60079-0 EN (IEC) 60079-1 and EN54
- Adjustable volume
- Certified IP66

TECHNICAL SPECIFICATIONS	TCB-017	TCB-0033	TCB-021	TCB-025
Flash absorption:	/	5	10	15
Tones absorption:	20 W Max.*	Protection grade:	IP66	
Sound output:	115 dB @ 1 m	No. of Tones:	63 (internal DIP Switch)	
Wire entry:	4x M20, M25			
Operating temperature:	-40° ... +70° C			

*Absorption from 5 to 20W depending on the selected tone.

ILIA ATEX

ATEX LINEAR SMOKE DETECTOR

ATEX

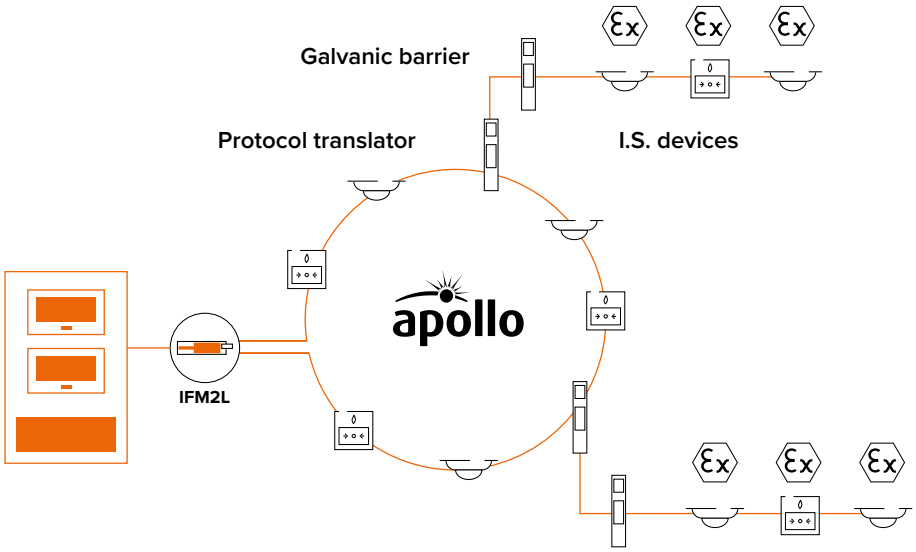
Linear detector based on infrared modulation. It is constructed in an ATEX enclosure usable in Z1-2-21-22 classified areas and is composed of the following components:

- Transmitter Unit (Tx) and Receiver Unit (Rx) complete with aluminium pointing mechanism“Avional”
- Adjustment key
- Pair of EXD cable glands
- Pair of die-cast aluminium brackets
- Controller (CSRLS-ATEX)

TECHNICAL SPECIFICATIONS			
Current draw:	320mA	Protection grade:	IP66
Nominal voltage:	24 V DC	Operating distance:	from 10 a 120 m
Operating temperature:	-30° ... +65° C	Sound output:	105 dB @ 1 m
Installation class:	II C - 25° + 85° / 110° C - Z1-2-21-22		

Addressable detectors and Apollo XP95 accessory items ATEX Certified

The devices of the XP95 I.S.series (Intrinsically Safe) are designed and certified for use in areas with inflammable atmospheres. These products are certified BASEEFA (British Approval Service for Electrical Equipment in Flammable Atmospheres) in compliance with EN50014 and EN50020 and approved E Ex ia IIC T5 (T4 to Ta < 60°C). The diagram illustrates the wiring method required for I.S. addressable detectors and the accessories to utilize.



55000-440APO

XP95 I.S. ADDRESSABLE DETECTORS

ATEX

I.S. addressable detectors, category II 1G Ex ia IIC T5

55000-440APO	I.S. addressable heat detector (A2S) Approved E Ex ia IIC T5 (T4 a Ta < 60° C).
55000-640APO	I.S. addressable optical smoke detector Approved E Ex ia IIC T5 (T4 a Ta < 60° C).
45681-215APO	I.S. mounting base for addressable detectors
55200-940	I.S. addressable call point Approved E Ex ia IIC T5 (T4 a Ta < 60° C).

Marine devices

This section contains a selection of detectors and accessories, both analogue addressable using Apollo protocol as well as conventional, certified for MARINE applications.
The detectors shown here operate like the corresponding part number standard (see Apollo Devices section) and share the same certifications, moreover they have been subjected to a series of specific additional tests for installations in the naval sector.

58000-400MAR

DISCOVERY SERIES ADDRESSABLE DEVICES, MARINE CERTIFIED

58000-400MAR	Heat detector
58000-700MAR	Combined smoke and heat detector
58000-600MAR	Smoke detector
45681-210MAR	Mounting base for detectors
45681-286MAR	Base with isolator for detectors
45681-394MAR	Sounder base with flasher (VID) and isolator for detectors

58100-970MAR

DISCOVERY SERIES ADDRESSABLE CALL POINTS, MARINE CERTIFIED

58100-970MAR	Discovery call point, Marine certified
58100-971MAR	Discovery call point with isolator, Marine certified
58200-975MAR	Discovery call point for outdoor use, Marine certified
58200-976MAR	Discovery call point with isolator for outdoor use, Marine certified
58100-976MAR	Discovery call point with isolator for outdoor use, Marine SIL2 certified

55000-773MAR

LOOP MODULES, MARINE CERTIFIED

55000-773MAR	Conventional zone module for DIN rail mounting, Marine certified
55000-181MAR	DIN rail mount output module for alarm signallers, Marine certified
55000-774MAR	DIN rail mount Input/output module, Marine certified
55000-770MAR	DIN rail mount dual channel short-circuit isolator, Marine certified
55000-775MAR	Mini input module, Marine certified
55000-772MAR	DIN rail mount Input module, Marine certified

ORB-HT-41001-MAR

ORBIS SERIES CONVENTIONAL DEVICES, MARINE CERTIFIED

ORB-HT-41001-MAR	A1R heat detector
ORB-HT-41013-MAR	A1R heat detector with LED flasher
ORB-HT-41002-MAR	A2S heat detector
ORB-HT-41014-MAR	A2S heat detector with LED flasher
ORB-HT-41003-MAR	BR heat detector
ORB-HT-41015-MAR	BR heat detector with LED flasher
ORB-HT-41004-MAR	BS heat detector
ORB-HT-41016-MAR	BS heat detector with LED flasher
ORB-HT-41005-MAR	CR heat detector
ORB-HT-41017-MAR	CR heat detector with LED flasher
ORB-HT-41006-MAR	CS heat detector
ORB-HT-41018-MAR	CS heat detector with LED flasher
ORB-OH-43001-MAR	Smoke and Heat detector
ORB-OH-43003-MAR	Smoke and heat detector with LED flasher
ORB-OP-42001-MAR	Smoke detector
ORB-OP-42003-MAR	Smoke detector with LED flasher
ORB-MB-00001-MAR	Mounting base for Orbis conventional detectors

55100-021MAR

CONVENTIONAL CALL POINTS, MARINE CERTIFIED

55100-021MAR	Conventional call point, Marine certified
55100-022MAR	Conventional call point for outdoor use, Marine certified

Accessories for completion and system test

The following section describes a selection of accessories for the completion and system test, such as power supplies, electromagnetic stops for fire doors, etc., and a series of tools for carrying out commissioning or periodic tests of fire detection and alarm systems.

Accessory devices for fire extinguishment systems

IC0020
CALL POINTS IN VARIOUS COLOURS

The call points, both from the conventional and addressable series, can be supplied in different colours for applications other than fire alarm.

IC0020Y	Conventional call point in yellow
IC0020G	Conventional call point in green
IC0020B	Conventional call point in blue
IC0020W	Conventional call point in white
EC0020Y	Addressable call point in yellow
EC0020G	Addressable call point in green
EC0020B	Addressable call point in blue
EC0020W	Addressable call point in white

IC0012E
CONVENTIONAL CALL POINTS IN VARIOUS COLOURS FOR OUTDOOR USE

Conventional outdoor call-points come in different colours for applications other than fire alarm installations.

IC0012EY	Conventional call point in yellow
IC0012EG	Conventional call point in green
IC0012EB	Conventional call point in blue
IC0012EW	Conventional call point in white

ICB010
CALL POINTS WITHOUT RETENTION MECHANISM IN VARIOUS COLOURS

The following call points are without retention mechanism, when pressure on the button ceases the contact resets.

ICB010Y	Call point in yellow
ICB010G	Call point in green
ICB010B	Call point in blue
ICB010W	Call point in white

ICK010
KEY SWITCHES IN VARIOUS COLOURS

The following key switches are electrical contacts that can be activated and reset with a key. Useful for selecting different system operating modes.

ICK010Y	Key switch in yellow
ICK010G	Key switch in green
ICK010B	Key switch in blue
ICK010W	Key switch in white

ISS021

ADDRESSABLE AUDIBLE-VISUAL WARNING SIGN

Red alarm plate complete with EN54-3 certified audible signal. The ISS021 version is classified as a VID (Visual Indication Device) and is NOT certified for the visual part according to the EN54-23 standard. The ISS022 version is classified as a VAD (Visual Alarm Device) and includes an EN54-23 certified high power visual signaller. Comes with “Fire alarm” written on it, available with different indications on request.

ISS021 - ITA VISUAL/AUDIBLE WARNING SIGN - “ALLARME INCENDIO”
ISS022- ITA VISUAL/AUDIBLE WARNING SIGN WITH FLASHER - “ALLARME INCENDIO”
ISS021 - ENG VISUAL/AUDIBLE WARNING SIGN WITH “FIRE ALARM” INDICATION
ISS022- ENG VISUAL/AUDIBLE WARNING SIGN WITH FLASHER - “FIRE ALARM”

PICTOGRAMS (box with 10 pieces)

FOP45 “FIRE ALARM”
FOP46 “DOOR ALARM”
FOP47 “SPEGNIMENTO IN CORSO”
FOP48 “EVACUARE IL LOCALE”
FOP49 “ALLARME GAS”
FOP36 “FIRE DO NOT ENTER”
FOP37 “EXTINCION DISPARADA”
FOP38 “GAS DISCHARGE”
FOP39 “FUEGO”
FOP34 “PRESENZA ACETILENE”
FOP35 “CARENZA OSSIGENO”

TECHNICAL SPECIFICATIONS	ISS022	ISSO21
Sound output @ 1 m:	92 dB (A)	
Light output:	EN54-23 W 4,6 - 9,1	/
Flash frequency:	1 Hz	/
Operating voltage:	11 - 30 V DC	18 - 30 V DC
Current draw:	50mA	21mA (media)
Dimensions (w x h x d):	293 x 130 x 75 mm	
Operating temperature:	-10° ... +55° C	

Power supply stations

The power supply stations of the SmartLevel family are certified according to the EN54 standard, they meet all the supervision, redundancy and heavy duty requirements imposed. They are equipped internally with the new switching module with resonant technology and internal CPU for reliable, efficient and secure power management.

The power stations have an independent battery-charging circuit capable of charging the batteries without affecting the output current to the load, and a thermal probe that adapts the battery charge in accordance with their operating temperature. The battery efficiency is assessed by accurately measuring the internal resistance (with 0.1 Ohm resolution) of the batteries in such a way as to signal any decrease in efficiency that might jeopardize the system functionality in the event of mains failure.

The CPU contained in the innovative Switching module is the core of the apparatus and is capable of supervising all of its parameters (internal temperature, current supplied, output voltage, battery parameters, dispersion to earth) and guarantees a product of the highest quality.

SPS24060G / SPS24160G

STAND-ALONE POWER-SUPPLY STATIONS

CE - CPR EN54-4 EN12101-10

SPS24060G and SPS24160G (respectively 1.5A and 4A) with LCD command screen for viewing the events log or fault details (low battery, mains failure, dispersion to earth, etc.) and the current draw of each output; provides 3 individually protected outputs with 4A current limit.

SPS24060S / SPS24160S

POWER-SUPPLY STATIONS CONNECTABLE TO THE LOOP

CE - CPR EN54-4 EN12101-10

SPS24060S and SPS24160S power-supply stations (respectively 1.5A and 4A) with status LEDs, fault output, mains fault output, single power output. Can be used as a stand-alone device or connected directly to the loop of an addressable control panel (Inim protocol). Thanks to its loop interface, it is recognized by the control panel as being a power station and therefore becomes completely and automatically supervised thus reporting all signals to the control panel.
The SPS24060x versions are capable of supplying up to 1.5 A @ 27.6 V and provide housing for two 12 V – 7 Ah batteries; the SPS24160x versions are capable of supplying up to 4 A @ 27.6 V and provide housing for two 12 V – 17 Ah batteries.

TECHNICAL SPECIFICATIONS	SPS24060G	SPS24160G	SPS24060S	SPS24160S
Internal switching power-supply module:	1.5 A @ 27.6 V	4 A @ 27.6 V	1.5 A @ 27.6 V	4 A @ 27.6 V
Input voltage:	230 V~ -15% +10%, 50-60 Hz			
Maximum current draw 230V~:	0.5A	1.1A	0.5 A	1.1A
Output voltage:	27.6 V DC nominal - range from 18 a 27.6 V DC			
Stability:	higher than 1%			
LCD screen	Yes		No	
Ancillary power outputs, each short-circuit protected and 4 A current limited:	3		1	
Tamper/Fault signalling relay output:	1		2	
Built-in battery charger with battery supervision:	Yes			
Battery housing:	2 x 7 Ah 12 V	2 x 17 Ah 12 V	2 x 7 Ah 12 V	2 x 17 Ah 12 V
Dimensions (HxWxD):	322 x 324 x 86	497 x 380 x 97	322 x 324 x 86	497 x 380 x 97
Weight (without battery):	2.8 Kg	6 Kg	2.8 Kg	6 Kg
Loop connection capability:	No	No	Yes	Yes
RS485 BUS connection capability:	Yes (SmartLoop, SmartLine and Smart-Light control panels)		No	

IPS24060G - IPS24160G
SWITCHING MODULES

CE - CPR EN54-4

The IPS24060G and IPS24160G switching modules, included in the power supply stations described above and in various models of Inim control panels, are also supplied separately as spare parts or for those applications where a complete power supply station is not required. The modules include an independent battery-charge circuit.
NOTE: To achieve compliance with the EN54-4 standard, only the switching modules need to be integrated with a device capable of providing visual indications in the event of a fault, normally the control panel or power supply station

TECHNICAL SPECIFICATIONS		SPS24060G	SPS24160G
Input voltage:		230 V~ -15% +10%, 50-60 Hz	
Maximum current draw 230V~:		0.5A	1.1A
Output voltage:		from 18 to 27.6 V DC	
Maximum output current ripple:		1%	
Battery shutdown tension:		19 V	
Maximum output current	total:	2.1A	5.2A
	for external load:	1.5A	4 A
	for battery load:	0.6A	1,2 A
Battery housing:		2 x 7 Ah 12 V YUASA NP-12FR	2 x 17 Ah 12 V YUASA NP-12FR
Unreplaceble protection fuse (F1):		T 3, 15 A 250 V	
Maximum internal resistance of battery:		2.7 Ohm	1 Ohm
Operating temperature:		-5° ... +40° C	
Dimensions (HxWxD):		132 x 42 x 87 mm	200 x 51 x 99 mm
Weight (without battery):		450 g	800 g

BPS24060G - BPS24160G
SWITCHING MODULES HOUSED IN METAL ENCLOSURE

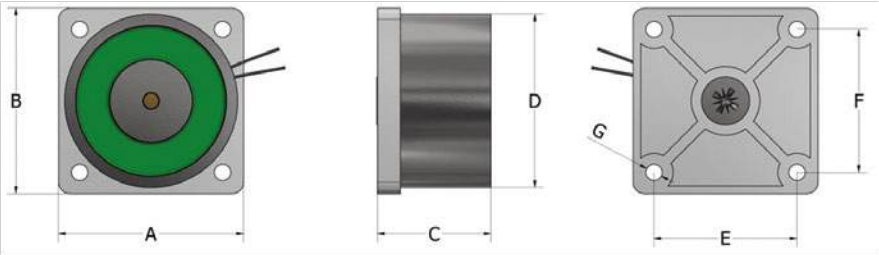
The BPS24060G and BPS24160G “IN BOX” versions consist of the IPS24060 and IPS24160 switching modules housed in a metal box without external indications. The Box is capable of containing the backup batteries that the switching modules are able to recharge and monitor.
NOTE: To achieve compliance with the EN54-4 standard, only the switching modules need to be integrated with a device capable of providing visual indications in the event of a fault, normally the control panel or power supply station.

Hold open fire door electromagnets

Besides signalling the outbreak of fire, one of the main functions of automatic fire-detection systems is to restrict the fire by releasing fire doors normally held open by electromagnetic holders. This section describes a series of electromagnetic locks for holding fire doors open and releasing them in the event of fire, the different models adapt to various types of doors.

S1 SERIES

ELECTROMAGNETIC DOOR HOLDERS WITHOUT RELEASE BUTTON



Electromagnetic door holders for applications where a release button and IP protection are not required. The 24 V powered door holders of the S1 series are available in different models with various holding forces (50, 100, 150 Kg). Connection on free wires or terminals, supplied with adjustable counterplate for door-leaf opening or with fixed counterplate for sliding doors, in plastic or steel.

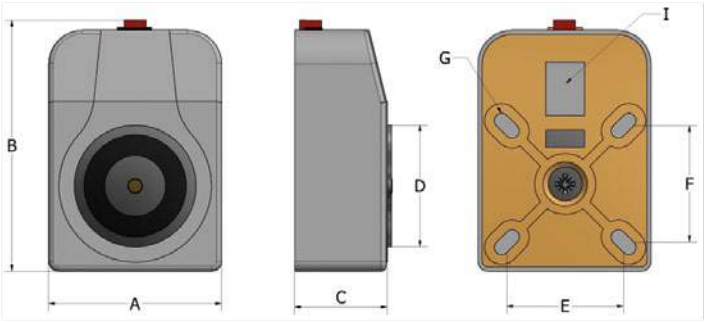
							DIMENSIONS (MM)							
MODEL	HOLDING FORCE	MA	V	FIXTURE	MATERIAL	SENSOR	A	B	C	D	E	F	G	#
S10060_01	500 n / 50 Kg	60	24 V DC	Wire	Plastic	No	68	68	30	50	52	52	6 ø	**S01060**
S10060_02	500v n / 50 Kg	60	24 V DC	Wire	Plastic	No	68	68	30	50	52	52	6 ø	**S02060**
S10110_01	1000 n / 100 Kg	100	24 V DC	Wire	Plastic	No	68	68	40	60	52	52	6 ø	**S01110**
S10110_02	1000 n / 100 Kg	100	24 V DC	Wire	Plastic	No	68	68	40	60	52	52	6 ø	**S02110**
S10140_02	1500 n / 150 Kg	100	24 V DC	Wire	Steel	No	75	75	40	70	60	60	6 ø	**S02160**
S10140_H2	1500 n / 150 Kg	100	24 V DC	Wire	Steel	No	75	75	40	70	60	60	6 ø	**SH2160**
S13060_01	500 n / 50 Kg	60	24 V DC	Terminal	Plastic	No	68	68	30	50	52	52	6 ø	**S01060**
S13060_02	500 n / 50 Kg	60	24 V DC	Terminal	Plastic	No	68	68	30	50	52	52	6 ø	**S02060**
S13110_05	1000 n / 100 Kg	100	24 V DC	Terminal	Steel	No	68	68	40	60	52	52	6 ø	**S05110**
S13140_02	1500 n / 150 Kg	100	24 V DC	Fast on	Steel	No	75	75	40	70	60	60	6 ø	**S02160**
S13140_H2	1500 n / 150 Kg	100	24 V DC	Fast on	Steel	No	75	75	40	70	60	60	6 ø	**SH2160**

 # FEATURES OF SUPPLIED COUNTERPLATES

MODEL	ADJUSTABLE	SHOCK DAMPER	MATERIAL
S01060	YES	YES	PLASTIC
S02060	NO	YES	PLASTIC
S01110	YES	YES	PLASTIC
S02110	NO	YES	PLASTIC
S02160	NO	YES	STEEL
SH2160	NO	YES	STEEL
S01060	YES	YES	PLASTIC
S02060	NO	YES	PLASTIC
S05110	NO	YES	STEEL
S02160	NO	YES	STEEL
SH2160	NO	YES	STEEL

S2 SERIES

ELECTROMAGNETIC DOOR HOLDERS WITH RELEASE BUTTON, PROTECTION CIRCUIT AND ABS COVER



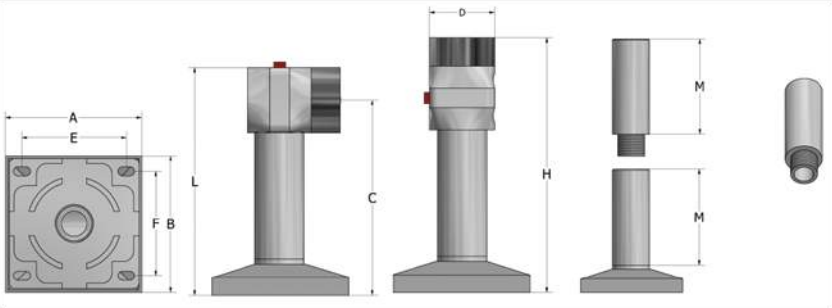
Electromagnetic door holders for applications where the release button and a stylish look are required. The 24 V powered S2 series door holders include a protection circuit (diode in-series to polarize the coil and energy recovery counter-diode), and are available in different models with various holding forces (50, 100 Kg). Connection via terminals, supplied with adjustable counterplate, in black or white plastic, with or without door status sensor. Floor-mount brackets, wall-mount extensions and telescopic extensions are available as accessory items.

							DIMENSIONS (MM)								
MODEL	HOLDING FORCE	MA	V	FIXTURE	COLOUR	SENSOR	A	B	C	D	E	F	G	I	#
S20050B01	500 N / 50 Kg	60	24 V DC	Terminal	White	No	72	105	40	50	52	52	6,5x12	16x22	S01060
S20050N01	500 N / 50 Kg	60	24 V DC	Terminal	Black	No	72	105	40	50	52	52	6,5x12	16x22	S01060
S20110B01	1000 N / 100 Kg	100	24 V DC	Terminal	White	No	72	105	52	60	52	52	6,5x12	16x22	S01110
S20110N01	1000 N / 100 Kg	100	24 V DC	Terminal	Black	No	72	105	52	60	52	52	6,5x12	16x22	S01110
S29050B01	500 N / 50 Kg	60	24 V DC	Terminal	White	Yes	72	105	40	50	52	52	6,5x12	16x22	S01060
S29050N01	500 N / 50 Kg	60	24 V DC	Terminal	Black	Yes	72	105	40	50	52	52	6,5x12	16x22	S01060

 # = COUNTERPLATE SUPPLIED - ADJUSTABLE SWIVEL, SHOCK DAMPER, IN PLASTIC

S3 SERIES

ELECTROMAGNETIC DOOR HOLDER WITH EXTENSION AND ROTATING HEAD



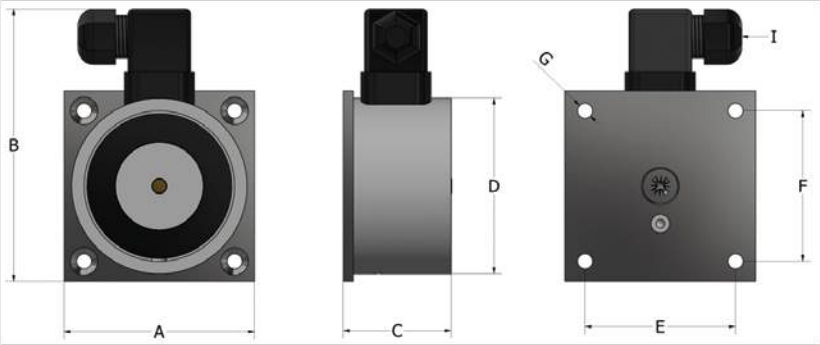
Electromagnetic holders (stops) for ceiling, floor or wall installatios, can be rotated with ease, height and length adjustable thanks to the accessory extension, complete with release button. The 24V powered S3 series holders include a protection circuit (diode in-series to polarize the coil and energy recovery counter-diode) and are supplied with an adjustable counterplate, are available in different models with various holding forces (50 or 100 Kg). Connection via terminals, in black or white plastic.

							DIMENSIONS (MM)										
MODEL	HOLDING FORCE	MA	V	FIXTURE	COLOUR	SENSOR	A	B	C	D	E	F	G	H	I	L	MV	#
S30060_01	500 N / 50 Kg	60	24 V DC	Terminal	Black	No	105	105	122	50	80	80	6,5x12	185	20	150-165	100	S01060
S30110_01	1000 N / 100 Kg	100	24 V DC	Terminal	Black	No	105	105	122	50	80	80	6,5x12	196	20	150-165	100	S01110

 # = COUNTERPLATE SUPPLIED - ADJUSTABLE SWIVEL, SHOCK DAMPER, IN PLASTIC

S5 SERIES

ELECTROMAGNETIC DOOR HOLDERS WITH RELEASE BUTTON, PROTECTION CIRCUIT AND ABS COVER



Electromagnetic door holders (stops) with 150 Kg holding force with galvanized steel base, available with IP00 or IP65 protection grade (coil incorporated in resin) or IP67 (coil incorporated in resin and magnetic coupling surface treated for critical environments such as passenger ships) and no release button. The 24V powered S5 series door holders include a protection circuit (diode in-series to polarize the coil and energy recovery counter-diode) and are supplied with a fixed counterplate and shock damper in stainless steel.

							DIMENSIONS (MM)								
MODEL	HOLDING FORCE	MA	V	FIXTURE	IP	SENSOR	A	B	C	D	E	F	G	I	#
S50140_02	1500 N / 150 Kg	100	24 V DC	TERMINAL	IP00	NO	75	115	43	70	60	60	Ø 5.5	PG11	**S02160**
S50140_H2	1500 N / 150 Kg	100	24 V DC	TERMINAL	IP00	NO	75	115	43	70	60	60	Ø 5.5	PG11	**SH2160**
S50160_02	1500 N / 150 Kg	100	24 V DC	TERMINAL	IP65	NO	75	115	43	70	60	60	Ø 5.5	PG11	**S02160**
S50160_H2	1500 N / 150 Kg	100	24 V DC	TERMINAL	IP65	NO	75	115	43	70	60	60	Ø 5.5	PG11	**SH2160**
S59150_02	1500 N / 150 Kg	100	24 V DC	TERMINAL	IP67	NO	76	115	43	70	60	60	Ø 5.5	PG11	**S02150**
S59150_H2	1500 N / 150 Kg	100	24 V DC	TERMINAL	IP67	NO	76	115	43	70	60	60	Ø 5.5	PG11	**SH2150**

 # = COUNTERPLATE SUPPLIED - NON SWIVEL, SHOCK DAMPER, IN STEEL

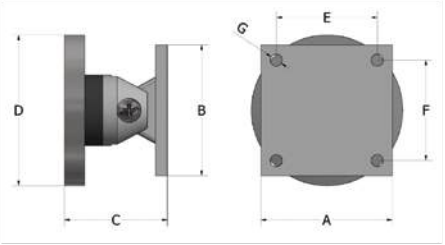
Counterplates

The adjustable counterplates are supplied with electromagnetic door holders, but are also available as separate items.

S01 SERIES COUNTERPLATES

ADJUSTABLE COUNTERPLATES FOR ELECTROMAGNETIC DOOR HOLDERS

The counterplates of the S01 series use a steel disc mounted on a special shock damper capable of absorbing part of the impact caused by the opening of the door. The elasticity of the shock damper also allows for perfect alignment of the disc and magnet.

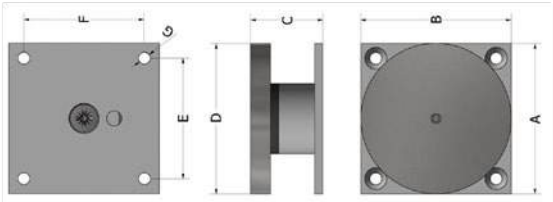


						DIMENSIONS (MM)							
MODEL	HOLDING FORCE	SHOCK DAMPER	ADJUSTABLE	DISC MATERIAL	BASE MATERIAL	A	B	C	D	E	F	G	I
S01060_00	500 N / 50 Kg	YES	YES	STEEL	PLASTIC	65	65	46	55	50	50	Ø 6	PG11
S01110_00	1000 N / 100 Kg	YES	YES	STEEL	PLASTIC	65	65	7	65	50	50	Ø 6	PG11

S02, SH2, S00 SERIES COUNTERPLATES

ADJUSTABLE COUNTERPLATES FOR ELECTROMAGNETIC DOOR HOLDERS

The counterplates of the S02, SH2, S00 series use a steel disc mounted on a special shock damper capable of absorbing part of the impact caused by the opening of the door. The elasticity of the shock damper also allows for perfect alignment of the disc and magnet.

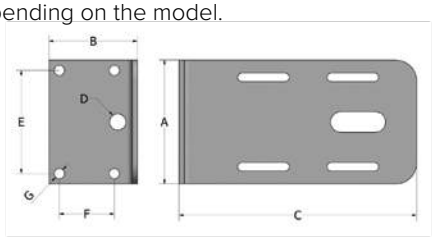


MODEL	HOLDING FORCE	SHOCK DAMPER	ADJUSTABLE	DISC	BASE		DIMENSIONS (MM)						
							A	B	C	D	E	F	G
S02060_00	500 N / 50 Kg	YES	NO	STEEL	PLASTIC		65	65	20	55	52	52	Ø 6
S02110_00	1000 N / 100 Kg	YES	NO	STEEL	PLASTIC		65	65	20	65	52	52	Ø 6
S02150_00	1500 N / 150 Kg	YES	NO	STEEL	AISI316L STEEL		75	75	20	75	60	60	Ø 6
SH2150_00 (ALTO)	1500 N / 150 Kg	YES	NO	STEEL	AISI316L STEEL		37	75	37	75	60	60	Ø 6
S02160_00	1500 N / 150 Kg	YES	NO	STEEL	STEEL		37	75	20	75	60	60	Ø 6
SH2160_00 (ALTO)	1500 N / 150 Kg	YES	NO	STEEL	STEEL		37	75	37	75	60	60	Ø 6
S05110_00	1000 N / 100 Kg	YES	NO	STEEL	STEEL	Compact fixed-anchor shock damper for S13110 100 Electromagnetic Door Holder							

S03000-N / X

PAINTED L-SHAPED BRACKET FOR FIXING TO THE FLOOR THE ELECTROMAGNETIC HOLDERS TYPE S1, S2, S6

Painted steel plate, for fixing to the floor electromagnetic door holders for the model S2 with 50 or 100 Kg holding force. Black or white depending on the model.



S03000-N
L-shaped bracket, in black painted

S03000-W
L-shaped bracket, in white painted

A	B	C	D	E	F	G
72	48	135	Ø 10	60	32	Ø 6

30050_061

EXTENSION ROD FOR S3 SERIES ELECTROMAGNETIC DOOR HOLDERS

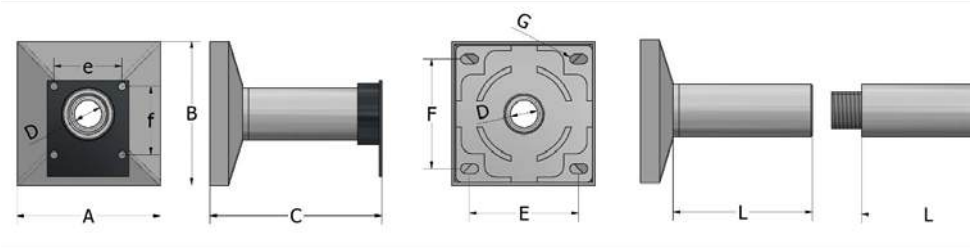
The 30050_061 extension rod is suitable for all S3 models and provides an extension of 100 mm. It can also be used as an extension for the S03130 bracket. The simple assembly method offers quick installation at all times, even when the electromagnet is already installed, for intermediate measurements it is possible to shorten the rod by cutting it to size.

S03130

130 MM EXTENSION FOR ELECTROMAGNETIC DOOR HOLDERS TYPE S1, S2, S6

Extension S03130 for S2 electromagnetic door holders, used in cases where the electromagnet installed on the wall is too far from the door to be held. The extension allows an increase in the distance between the electromagnet and the wall of from 45 to 130 mm and, by adding the accessory rod, reach 230 mm. For medium distances, the rod can be shortened by cutting it to size, the S03130 extension is UNI EN 1155 certified for all S2 electromagnets with 50 or 100 Kg holding force.

A	B	C	D	E	F	G	L	and	f
105	105	130	Ø 20	80	80	6.5 x 12	100	52	52

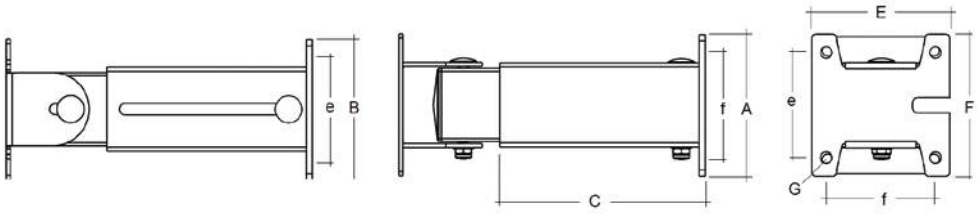


S03150

TELESCOPIC 150-220 MM EXTENSION FOR ELECTROMAGNETIC DOOR HOLDERS TYPE S1, S2, S6, AND COUNTERPLATES TYPE S01, S02

S03150 telescopic extension for S2 electromagnetic door holders. Used in cases where the electromagnet, installed on the wall, is too far from the door to be held. The extension allows an increase in the distance between the electromagnet and the wall of from 150 to 220 mm.

A	B	C	D	E	F	G	and	f
65	65	100	150-220	65	65	Ø 5.5	52	52



Detectors test

During commissioning and periodic testing of the systems, as prescribed by the reference standard, it is necessary to test the individual detectors in order to verify their efficiency. The following articles allow the operator to carry out test operations on the detectors quickly and easily.

SOLOA10 / SOLOA10S

TESTER AEROSOL FOR SMOKE DETECTORS

Spray can containing aerosol for testing smoke detectors, a non-flammable product specifically designed to test the operation of the detectors without making them dirty or compromising their functionality. Thanks to its special formula, it guarantees rapid activation and equally rapid cleaning of the chamber after activation, minimizing the time required for the detector test. This article is compatible with the SOLO330 dispenser.

SOLOA10	150 ml spray canister
SOLOA10S	250 ml spray canister

SOLOC3

TESTER AEROSOL FOR CO DETECTORS

SMOKESABRE

SMOKE TEST AEROSOL WITH HAND HELD TELESCOPIC POLE

Spray can for smoke detector test, suitable for hand held use, include a telescopic dispenser for better smoke flow direction. 150ml spray canister.

SOLO 330

SOLO A10 AEROSOL DISPENSER

Can house inside SOLO A10 or SOLO A10S spray canisters (not included) and allows the delivery of the aerosol over the detector by simply exerting light pressure from the bottom upwards. Combined with the telescopic extension shown below, it allows the testing of detectors positioned as high up as 9m.

SOLO200
DETECTORS REMOVAL/REPLACEMENT TOOL

It allows you to hook the detector that is mounted to the ceiling and detach it from its base, this tool is indispensable for cleaning operations or replacement of detectors as it eliminates the need to climb ladders. Combined with the telescopic extension shown below, it allows the removal of detectors positioned as high up as 9m.

SOLO365
TEST KIT FOR SMOKE DETECTORS

New SOLO365 is a smoke detector tester kit based on a cartridge for aerosol generator and no longer need spray can. The appliance operates using a rechargeable battery, there is a USB socket on the battery pack for recharging purposes. The kit includes:

- SOLO 356 Head Unit
- SOLO 370 Lithium Ion Battery Pack
- SOLO 371 Smoke Generator
- SOLO ES3 Smoke Cartridge

SOLO365	Test kit for smoke detectors
E63-12PACK-001	SOLO365 Smoke Cartridge (pack of 12)
SOLO370-1PACK-001	Lithium Ion Battery Pack

AND TELESCOPIC EXTENSIONS

SOLO101
1.13 m single pole: Reaches detectors installed at a height of 2.5m.

SOLO108
2.5 m telescopic pole: Extends from 1.26m to 2.5 m by means of 2 easy-lock telescopic sections. Reaches detectors installed up to a height of 4 m. It can be combined with an additional SOLO 101 pole in order to reach detectors installed higher.

SOLO100
4.5 m telescopic pole: Extends from 1.26m to 4.5 m by means of 4 easy-lock telescopic sections. It can reach detectors installed up to a height of 6m and can be further extended by attaching a maximum of 3 SOLO 101 poles to reach detectors installed as high up as 9m.

TESTIFIRE XTR2

TEST SYSTEM FOR SMOKE AND HEAT DETECTORS

TESTIFIRE-XTR2

TESTIFIRE XTR2 SMOKE AND HEAT DETECTOR TEST KIT

TESTFIRE XTR2 Test kit for smoke and heat detectors. The kit includes:
- 1 TESTFIRE STR”
- 1 Smoke generator cartridge
- 1 Smoke generator
- 1 Recharge battery kit
- 1 Li-Ion battery

TESTIFIRE-XTR2-HEAD-001

TESTFIRE XTR2 MAIN UNIT

TESTFIRE XTR2 Test kit for smoke and heat detectors. Main unit.

TESTIFIRE-GEN-1PK-001

SMOKE GENERATOR UNIT FOR TESTFIRE-XTR2

Replacement smoke generator unit for TESTFIRE-XTR2, guarantees approximately 8000 tests.

TS3-3PACK-001
SMOKE GENERATOR UNIT FOR TESTFIRE-XTR2 3 PCS PACKAGE

Smoke generator cartridge for TESTFIRE-XTR2. 3 pcs package. Each cartridge provides approximately 500 tests.

TS3-6PACK-001
SMOKE GENERATOR UNIT FOR TESTFIRE-XTR2 6 PCS PACKAGE

Smoke generator cartridge for TESTFIRE-XTR2. 6 pcs package. Each cartridge provides approximately 500 tests.

TESTIFIRE-BP-001
REPLACEMENT LITHIUM-ION BATTERY FOR TESTIFIRE XTR2

TESTIFIRE-CHAK-001
BATTERY CHARGING KIT FOR TESTFIRE-XTR2

Battery charging kit for TESTFIRE-XTR2. Includes:
- 1 Charging base
- 1 Wall power supply
- 1 Car cigarette lighter socket adapter

TESTIFIRE-ADAP-001
ASPIRATING SMOKE DETECTOR ADAPTER FOR TESTFIRE-XTR2

Aspirating smoke detector adapter for TESTFIRE-XTR2.

TESTIFIRE-XTR2-6M-001
TESTFIRE-XTR2 KIT WITH POLES UP TO 6 M

TESTFIRE XTR2 Test kit for smoke and heat detectors. The kit includes:
- 1 TESTFIRE-XTR2
- Smoke cartridge
- 1 Smoke generator, 1 Recharge kit
- 1 Li-Ion battery
- 1 SOLO100 (telescopic pole extendable to 4.5m)
- 1 SOLO200 (Detector removal tool)
- 1 Solo610 (Case)

TESTIFIRE-XTR2-9M-001
TESTFIRE-XTR2 KIT WITH POLES UP TO 9 M

TESTFIRE XTR2 Test kit for smoke and heat detectors. The kit includes:
- 1 TESTFIRE-XTR2
- 1 Smoke cartridge
- 1 Smoke generator
- 1 Refill kit
- 1 Li-Ion battery
- 1 SOLO100 (telescopic pole extendable to 4.5m)
- 3 SOLO101 (1m pole extension)
- 1 SOLO200 (Detector removal tool)
- 1 Solo610 (Case)

TESTIFIRE-XTR2-URBAN-001
URBAN KIT TESTFIRE-XTR2

TESTFIRE XTR2 Test kit for smoke and heat detectors. The kit includes:
- 1 TESTFIRE-XTR2
- 1 Smoke cartridge
- 1 Smoke generator
- 1 Refill kit
- 1 Li-Ion battery
- 1 SOLO110 (telescopic pole extendable to 1.75m)
- 3 SOLO111 (0.5m pole extension),
- 1 SOLO200 (Detector removal tool)
- 1 Solo611 (Backpack)
- 1 SOLO612 (pole bag)

Accessories

The products shown on this page are useful accessories for enhancing fire detection systems and their installation. Among these are plastic covers, adapters for external ducts and much more.

REL1INT

SINGLE RELAY BOARD

Converts supervised or open-collector outputs into a dry contacts. Operates at 12 or 24 V (selected by means of a jumper). Provides 4 mounting locations, board dimensions 45x35 mm.

STD241201

24 V DC/ 12 V DC STEP-DOWN SWITCHING CONVERTER

Converts voltage from 24V down to 14V, suitable for feeding 12V devices (outdoor sounder/ flashers, diallers, etc.) directly from fire the control panel. Based on switching technology, this highly efficient device produces low heat output. Maximum output current 1A.

IL0010

REMOTE INDICATOR

Remote indicator. LED repeater that replicates the signal generated by a detector in alarm status.

S/KARI MR

LED REPEATER FOR CEILING OR FLOOR INSTALLATION

LED repeater for ceiling or floor installation Super bright LED light. 3 V DC, 24 V DC power-supply voltage. Structure in polycarbonate transparent white. Light diffuser lens ‘FIRE’ sign in Red. IP 42 Protection grade

IACPP10

COVER FOR INDOOR MANUAL ALARM CALL-POINTS, IP54

It consists of a transparent polycarbonate enclosure that covers the call point and is sealed by gaskets which keep out dust, grime and water. Access to the device is gained by simply lifting the cover.

IACPP20

COVER FOR OUTDOOR MANUAL ALARM CALL-POINTS, IP54

It consists of a transparent polycarbonate enclosure that covers the call point and is sealed by gaskets which keep out dust, grime and water. Access to the device is gained by simply lifting the cover. A battery-powered beeper activates automatically when the cover is lifted, in order to dissuade malicious alarms.

INLINEFMF
FLUSH MOUNTING KIT

Flush mounting kit for SmartLine020, SmartLight and Previdia Compact “S” control panels range. It consists of two L shaped bracket and a front panel metal made.

INPROTCP

Metal protection frame for manual call points.

CTS01

Sign in aluminum indicating the presence of a manual call point, 160 x 160 mm.

CTS02

Aluminum sign board indicating fire alarm sounder presence, 160 x 160 mm.

Connection cables

LINK232F9F9
SERIAL CABLE

RS232 connection cable between a PC and Inim control panels.

LINKUSBAB
USB CABLE

USB connection cable between a PC and SmartLoop control panels.

LINKUSB232CONV
CABLE WITH RS232 - USB CONVERSION ADAPTER

RS232 - USB connection cable between PC and Inim control panels.

PROBE-TH
THERMAL PROBE

Thermal probe for battery charge optimization.

MINI USB CABLE

Connection cable from USB to Mini USB


SPOTLED
HP320

Emergency lighting

See the data sheet online

Inim series emergency-lighting and signalling lamps are designed for direct connection to the detection loop* of Previdia and SmartLoop control panels. The connection of Harper lamps to Previdia and SmartLoop fire detection and signalling control panels permits:

- Turn On/Off of the emergency lamps in function of the status of the detection system, in this way it is possible to keep the lamps in Low-light mode or Off mode during normal conditions and activate them at full intensity in the event of an alarm
- Activation and deactivation of the emergency warning lamps in function of detected alarms, thus permitting appropriate signalling of the most effective escape route
- Adjustment of lamp-light intensity during non-emergency conditions (Previdia only)
- Compliance with lamp maintenance cycles, the control panel is capable of managing various tests on groups of lamps (functional tests and internal battery life tests) and of storing the respective data; detailed test reports can be generated during these maintenance sessions in compliance with the reference standard (EN50172)

Using optimal blend of new generation long-life LEDs rated to over 100 thousand hours, high light output, low energy consumption and, thanks to an exclusive patented optical lighting design, highly effective glare-free technology that complies with all regulations regarding photobiological safety. The new long-life $LiFePO_4$ batteries are smaller and more environment-friendly than traditional batteries and provide increased durability and performance of the lamps.

The versions that can be connected to the control panel Loop are the "**BUS Supervision**" version.
The only versions that can be switched on by the control panel, also during NON-emergency conditions (mains present) are the Permanent (BA) versions.
Inim series lamps use the connection with the loop for data exchange only and not for their power supply, therefore, in addition to the connection to the loop a connection to the electrical network is required for each lamp.

Product name	DV	DIVA
	DX	DEXIA
	HP100	Harper 100
	HP200	Harper 200
	HP320	Harper 320
	HP330	Harper 330
	SP	SPOTLED
Version	S	Standard
	A	Self-test
	B	BUS Supervised
	L	Central-battery
Maintained (M) Non-maintained (NM)	E	Non-Maintained
	A	Maintained
Power	08	W
	11	W
	18	W
	24	W
	36	W
Duration	01	1 hour
	15	1.5 hours
	02	2 hours
	03	3 hours
	04	4 hours
	05	5 hours
	06	6 hours
	07	7 hours
IP Protection grade	40	IP40
	42	IP42
	65	IP65

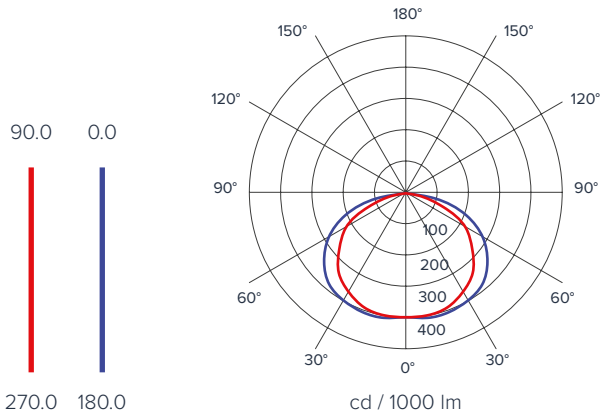
DIVA

LED EMERGENCY LAMP

55015 60598-1 60598-2-22 61000-3-2 61000-3-3 61347-1 61347-2-7 61547 62471

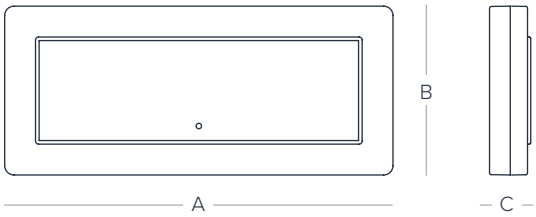
LED emergency lamps with a compact minimalist design. Dedicated terminal for the inhibition function and dedicated terminal for the rest mode function.

Photometric diagram



Dimensions

A = mm 230
B = mm 100
C = mm 22.5



DESCRIPTION	
Product series	DIVA
Product type	Emergency lighting device
Type	Maintained (M) – Non-maintained (NM)
TECHNICAL SPECIFICATIONS	
Installation	Wall, Ceiling
Power supply voltage	220/230 Vac, 50-60 Hz
Battery	$LiFePO_4$ 3.2V
Isolation class	II
Colour	RAL9003 White
Light source	LED
Colour temperature	5700K
Diffuser	Ultrasound-welded polycarbonate
Additional information	Dedicated terminal for inhibition function
	Dedicated terminal for rest mode function
IP Protection grade	IP42, IP65 (1)
IK Protection rating	IK07
Operating temperature	from 0° to 50° C
Dimensions (W x H x D)	230 x 100 x 22.5 mm
Warranty	5 years
Package contents	packs of 25

(1) The IP65 grade is obtained with an accessories kit

VERSIONS AVAILABLE		Order codes	Power [2]	Duration	Battery $LiFePO_4$ 3.2V [Ah]	Maintained (M) – Non-maintained (NM)	MED. FLUX [lm] N/M	MED. FLUX [lm] M	IP Protection grade	Recharge	INICOM compatibility
standard		DVSE081542	8W	1.5h	0.6	N/M	160	-	IP42	12h	-
		DVSE110242	11W - 8W	2h - 3h	1.5	N/M	215	-	IP42	12h	-
		DVSE181542	24W - 18W	1h - 1.5h	1.5	N/M	435	-	IP42	12h	-
		DVSA081542	8W	1.5h	0.6	N/M-M	80	115	IP42	12h	✓
		DVSA080342	8W	3h	1.5	N/M-M	145	145	IP42	6h	✓
		DVSA110142	11W	1h	0.6	N/M-M	180	115	IP42	12h	✓
		DVSA110242	11W	2h	1.5	N/M-M	195	195	IP42	6h	✓
		DVSA110342	11W	3h	2 x 1.5	N/M-M	195	195	IP42	12h	✓
		DVSA181542	18W	1.5h	1.5	N/M-M	340	195	IP42	6h	✓
		DVSA180342	18W	3h	2 x 1.5	N/M-M	340	195	IP42	12h	✓
		DVSA241542	24W	1.5h	2 x 1.5	N/M-M	415	240	IP42	12h	✓
		DVSA280142	8W	3h	1.5	N/M-M	145	145	IP42	6h	✓
self-test		DVAA080342	11W	2h	1.5	N/M-M	195	195	IP42	6h	✓
		DVAA110242	11W	3h	2 x 1.5	N/M-M	195	195	IP42	12h	✓
		DVAA110342	18W	1h	1.5	N/M-M	340	195	IP42	6h	✓
		DVAA180142	18W	2h	2 x 1.5	N/M-M	340	195	IP42	12h	✓
		DVAA180242	24W	1.5h	2 x 1.5	N/M-M	415	240	IP42	12h	✓
		DVAA241542	28W	1h - 1.5h - 2h - 3h	2 x 1.5	N/M-M	610 - 500 - 415 - 320	320	IP42	12h	✓
		DVAA280142	8W	3h	1.5	N/M-M	145	145	IP42	6h	-
BUS supervised		DVBA080342	11W	2h	1.5	N/M-M	195	195	IP42	6h	-
		DVBA110242	11W	3h	2 x 1.5	N/M-M	195	195	IP42	12h	-
		DVBA110342	18W	1h	1.5	N/M-M	340	195	IP42	6h	-
		DVBA180142	18W	2h	2 x 1.5	N/M-M	340	195	IP42	12h	-
		DVBA180242	24W	1.5h	2 x 1.5	N/M-M	415	240	IP42	12h	-
		DVBA241542	28W	1h - 1.5h - 2h - 3h	2 x 1.5	N/M-M	610 - 500 - 415 - 320	320	IP42	12h	-
		DVBA280142	8W	3h	1.5	N/M-M	145	145	IP42	6h	-
DALI		DVDA080342	11W	2h	1.5	N/M-M	195	195	IP42	6h	-
		DVDA110242	11W	3h	2 x 1.5	N/M-M	195	195	IP42	12h	-
		DVDA110342	18W	1h	1.5	N/M-M	340	195	IP42	6h	-
		DVDA180142	18W	2h	2 x 1.5	N/M-M	340	195	IP42	12h	-
		DVDA180242	24W	1.5h	2 x 1.5	N/M-M	415	240	IP42	12h	-
		DVDA241542	28W	1h	2 x 1.5	N/M-M	610	320	IP42	12h	-
		DVDA280142	8W	-	-	-	-	145	IP42	-	-
central battery		DVLA080042	11W	-	-	-	-	195	IP42	-	-
		DVLA110042	18W	-	-	-	-	340	IP42	-	-
		DVLA180042	24W	-	-	-	-	415	IP42	-	-
		DVLA240042	28W	-	-	-	-	610	IP42	-	-
		DVLA280042	28W	-	-	-	-	610	IP42	-	-

[2] Indicative power for the comparison with fluorescent tube

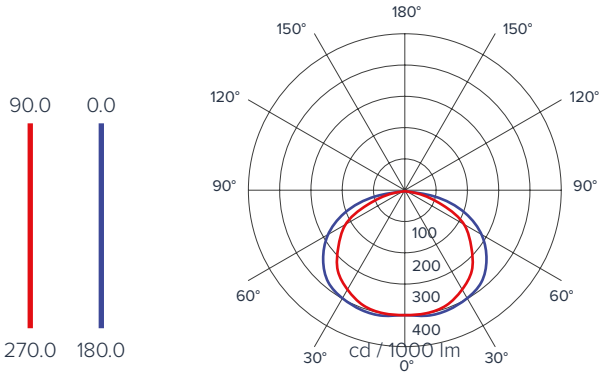
DEXIA

LED EMERGENCY LAMP

55015 60598-1 60598-2-22 61000-3-2 61000-3-3 61347-1 61347-2-7 61547 62471

High-flux LED emergency lamp designed for industrial environments, department stores and car parks.

Photometric diagram



Dimensions

A = mm 322
B = mm 140
C = mm 50

DESCRIPTION	
Product series	DEXIA
Product type	Emergency lighting device
Type	Maintained (M) – Non-maintained (NM)
TECHNICAL SPECIFICATIONS	
Installation	Wall, ceiling, surface/false ceiling mount
Power supply	220/230 Vac, 50-60 Hz
Battery	$LiFePO_4$ 3.2V
Isolation class	II
Colour	RAL9003 White
Light source	LED
Colour temperature	5700K
Diffuser	Ultrasound-welded polycarbonate
Additional information	Dedicated terminal for inhibition function
	Dedicated terminal for rest mode function
IP Protection grade	IP42, IP65 [1]
IK Protection rating	IK07
Operating temperature	from 0° to 40° C
Dimensions (W x H x D)	322 x 140 x 50 mm
Warranty	5 years
Package contents	packs of 8

[1] The IP65 grade is obtained with an accessories kit

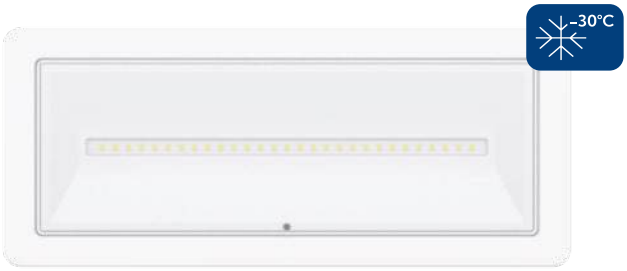
VERSIONS AVAILABLE	Order codes	Power [2]	Duration	Battery $LiFePO_4$ 3.2V [Ah]	Maintained (M) – Non-maintained (NM)	MED. FLUX [lm] N/M	MED. FLUX [lm] M	IP Protection grade	Recharge	Compatibility INICOM
standard	DXSA240142	24W	1h-1.5h-2h-3h	3.3	N/M-M	700-550-450-350	550	IP42	12h	✓
	DXSA360142	36W	1h-1.5h-2h-3h	2 x 3.3	N/M-M	1300-1000-840-640	1000	IP42	12h	✓
self-test	DXAA240142	24W	1h-1.5h-2h-3h	3.3	N/M-M	700-550-450-350	550	IP42	12h	✓
	DXAA360142	36W	1h-1.5h-2h-3h	2 x 3.3	N/M-M	1300-1000-840-640	1000	IP42	12h	✓
BUS-supervised	DXBA240142	24W	1h-1.5h-2h-3h	3.3	N/M-M	700-550-450-350	550	IP42	12h	-
	DXBA360142	36W	1h-1.5h-2h-3h	2 x 3.3	N/M-M	1300-1000-840-640	1000	IP42	12h	-
DALI	DXDA240142	24W	1h-1.5h-2h-3h	3.3	N/M-M	700-550-450-350	550	IP42	12h	-
	DXDA360142	36W	1h-1.5h-2h-3h	2 x 3.3	N/M-M	1300-1000-840-640	1000	IP42	12h	-
central-battery	DXLA240142	24W	-	-	-	-	700	IP42	-	-
	DXLA360142	36W	-	-	-	-	1300	IP42	-	-

[2] Indicative power for the comparison with fluorescent tube devices

DEXIA ARTIC

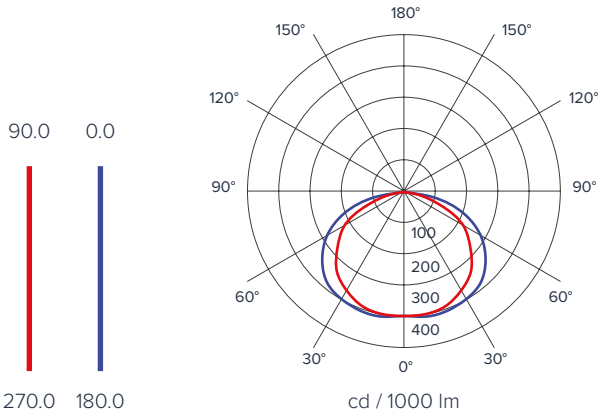
LED EMERGENCY LAMP SPECIFIC FOR EXTREME ENVIRONMENT CONDITIONS

55015 60598-1 60598-2-22 61000-3-2 61000-3-3 61347-1 61347-2-7 61547 62471



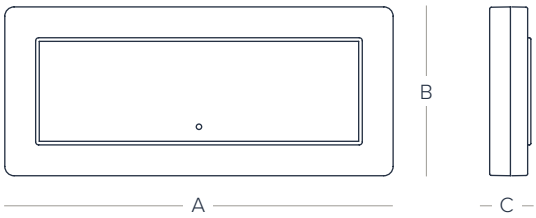
High-flux LED emergency lamp designed for environments with temperatures up to -30°.

Photometric diagram



Dimensions

A = mm 322
B = mm 140
C = mm 50



DESCRIPTION	
Product series	DEXIA ARTIC
Product type	Emergency lighting device
Type	Maintained (M) – Non-maintained (NM)
TECHNICAL SPECIFICATIONS	
Installation	Wall, ceiling, surface/false ceiling mount
Power supply	220/230 Vac, 50-60 Hz
Battery	$LiFePO_4$ 3,2 V EXTENDED TEMPERATURE
Isolation class	II
Colour	RAL9003 White
Light source	LED
Colour temperature	5700K
Diffuser	Ultrasound-welded polycarbonate
Additional information	Dedicated terminal for inhibition function
	Dedicated terminal for rest mode function
IP Protection grade	IP65
IK Protection rating	IK07
Operating temperature	from -30° to 50° C
Dimensions (W x H x D)	322 x 140 x 50 mm
Package contents	packs of 8

VERSIONS AVAILABLE	Order codes	Duration	Battery $LiFePO_4$ 3.2V [Ah] EXTENDED TEMPERATURE	Maintained (M) – Non-maintained (NM)	MED. FLUX [lm] N/M	MED. FLUX [lm] M	IP Protection grade	Recharge	INICOM compatibility
standard	DZSA24	1h-1.5h-2h-3h	3.3	N/M-M	510-410-340-260	510	IP65	12h	✓
	DZSA36	1h-1.5h-2h-3h	2 x 3.3	N/M-M	1000-800-650-500	1000	IP65	12h	✓
self-test	DZAA24	1h-1.5h-2h-3h	3.3	N/M-M	510-410-340-260	510	IP65	12h	✓
	DZAA36	1h-1.5h-2h-3h	2 x 3.3	N/M-M	1000-800-650-500	1000	IP65	12h	✓
BUS-supervised	DZBA24	1h-1.5h-2h-3h	3.3	N/M-M	510-410-340-260	510	IP65	12h	-
	DZBA36	1h-1.5h-2h-3h	2 x 3.3	N/M-M	1000-800-650-500	1000	IP65	12h	-
DALI	DDA24	1h-1.5h-2h-3h	3.3	N/M-M	510-410-340-260	510	IP65	12h	-
	DDA36	1h-1.5h-2h-3h	2 x 3.3	N/M-M	1000-800-650-500	1000	IP65	12h	-

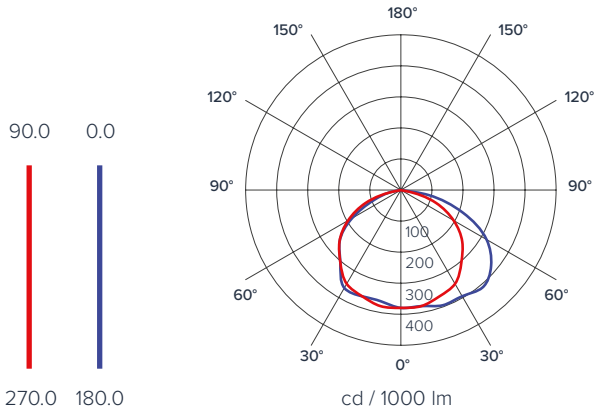
HP100

LED EMERGENCY LAMP

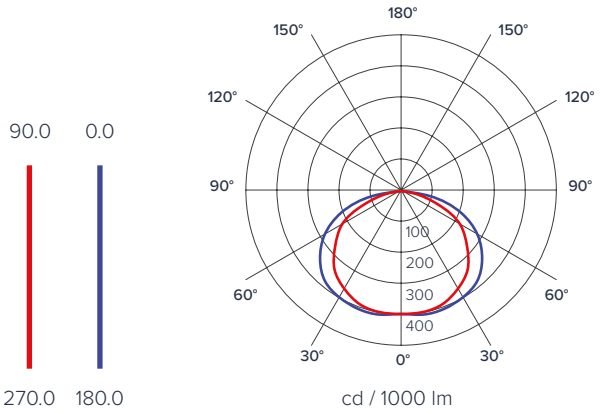
55015 60598-1 60598-2-22 61000-2-2 61000-3-2 61000-3-3 61347-1 61347-2-7 61547 62471

Minimal and compact design emergency lamp characterized by quick and easy installation. The use of new generation LED technology with exclusive patented optics guarantees high light flow and reliability over time.

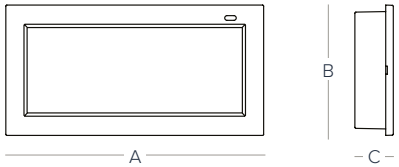
8W and 11W photometric diagram



18W and 24W photometric diagram



Dimensions



A = mm 255
B = mm 122
C = mm 38

DESCRIPTION	
Product series	HARPER 100
Product type	Emergency lighting device
Type	Maintained (M) – Non-maintained (NM)

TECHNICAL SPECIFICATIONS	
Installation	Wall, ceiling, surface/false ceiling mount
Power supply	220/230Vac, 50-60Hz
Battery	$LiFePO_4$ 3.2V
Isolation class	II
Colour	RAL9003 White
Light source	LED
Colour temperature	5700K
Additional information	Dedicated terminal for inhibition function
	Dedicated terminal for rest mode function
	Test button and brightness dimmer
IP Protection grade	IP40, IP65
IK Protection rating	IK07
Operating temperature	from 0° to 50°C
Dimensions (W x H x D)	255 x 122 x 38 mm
Warranty	5 years
Package contents	packs of 14

VERSIONS AVAILABLE		Order codes	Power [1] [2]	Duration	Battery LiFePO4 3.2V [Ah]	Maintained (M) – Non-maintained (NM)	MED. FLUX [lm] N/M	MED. FLUX [lm] M	IP Protection grade	Recharge	INICOM compatibility
standard		HP100SE080240	08W	2h	1.5	N/M	130	-	IP40	12h	-
		HP100SE180140	18W	1h	1.5	N/M	250	-	IP40	12h	-
		HP100SE080540	08W	5h	3.3	N/M	130	-	IP40	24h	-
		HP100SE180240	18W	2h	3.3	N/M	250	-	IP40	24h	-
		HP100SE080265	08W	2h	1.5	N/M	130	-	IP65	12h	-
		HP100SE180165	18W	1h	1.5	N/M	250	-	IP65	12h	-
		HP100SE080565	08W	5h	3.3	N/M	130	-	IP65	24h	-
		HP100SE180265	18W	2h	3.3	N/M	250	-	IP65	24h	-
self-test		HP100AE110140	11W-08W	1h-1.5h	1.5	N/M	130-95	-	IP40	6h	✓
		HP100AE240140	24W	1h	1.5	N/M	250	-	IP40	6h	✓
		HP100AE110340	11W-08W	3h-4h	3.3	N/M	130-95	-	IP40	12h	✓
		HP100AE240340	24W	3h	3.3	N/M	250	-	IP40	12h	✓
		HP100AA110140	11W-08W	1h-1.5h	1.5	N/M-M	130-95	60	IP40	6h	✓
		HP100AA240140	24W	1h	1.5	N/M-M	250	120	IP40	6h	✓
		HP100AA110340	11W-08W	3h-4h	3.3	N/M-M	130-95	60	IP40	12h	✓
		HP100AA240340	24W	3h	3.3	N/M-M	250	120	IP40	12h	✓
		HP100AE110165	11W-08W	1h-1.5h	1.5	N/M	130-95	-	IP65	6h	✓
		HP100AE240165	24W	1h	1.5	N/M	250	-	IP65	6h	✓
		HP100AE110365	11W-08W	3h-4h	3.3	N/M	130-95	-	IP65	12h	✓
		HP100AE240365	24W	3h	3.3	N/M	250	-	IP65	12h	✓
		HP100AA110165	11W-08W	1h-1.5h	1.5	N/M-M	130-95	60	IP65	6h	✓
		HP100AA240165	24W	1h	1.5	N/M-M	250	120	IP65	6h	✓
		HP100AA110365	11W-08W	3h-4h	3.3	N/M-M	130-95	60	IP65	12h	✓
		HP100AA240365	24W	3h	3.3	N/M-M	250	120	IP65	12h	✓
BUS supervised		HP100BE110140	11W-08W	1h-1.5h	1.5	N/M	130-95	-	IP40	6h	-
		HP100BE240140	24W	1h	1.5	N/M	250	-	IP40	6h	-
		HP100BE110340	11W-08W	3h-4h	3.3	N/M	130-95	-	IP40	12h	-
		HP100BE240340	24W	3h	3.3	N/M	250	-	IP40	12h	-
		HP100BA110140	11W-08W	1h-1.5h	1.5	N/M-M	130-95	60	IP40	6h	-
		HP100BA240140	24W	1h	1.5	N/M-M	250	120	IP40	6h	-
		HP100BA110340	11W-08W	3h-4h	3.3	N/M-M	130-95	60	IP40	12h	-
		HP100BA240340	24W	3h	3.3	N/M-M	250	120	IP40	12h	-
		HP100BE110165	11W-08W	1h-1.5h	1.5	N/M	130-95	-	IP65	6h	-
		HP100BE240165	24W	1h	1.5	N/M	250	-	IP65	6h	-
		HP100BE110365	11W-08W	3h-4h	3.3	N/M	130-95	-	IP65	12h	-
		HP100BE240365	24W	3h	3.3	N/M	250	-	IP65	12h	-
		HP100BA110165	11W-08W	1h-1.5h	1.5	N/M-M	130-95	60	IP65	6h	-
		HP100BA240165	24W	1h	1.5	N/M-M	250	120	IP65	6h	-
		HP100BA110365	11W-08W	3h-4h	3.3	N/M-M	130-95	60	IP65	12h	-
		HP100BA240365	24W	3h	3.3	N/M-M	250	120	IP65	12h	-
DALI		HP100DA110140	11W	1h	1.5	N/M-M	130	60	IP40	6h	-
		HP100DA240140	24W	1h	1.5	N/M-M	250	120	IP40	6h	-
		HP100DA110340	11W	3h	3.3	N/M-M	130	60	IP40	12h	-
		HP100DA240340	24W	3h	3.3	N/M-M	250	120	IP40	12h	-
		HP100DA110165	11W	1h	1.5	N/M-M	130	60	IP65	6h	-
		HP100DA240165	24W	1h	1.5	N/M-M	250	120	IP65	6h	-
		HP100DA110365	11W	3h	3.3	N/M-M	130	60	IP65	12h	-
		HP100DA240365	24W	3h	3.3	N/M-M	250	120	IP65	12h	-
central-battery		HP100LA110040	11W	-	-	-	-	130	IP40	-	-
		HP100LA240040	24W	-	-	-	-	250	IP40	-	-
		HP100LA110065	11W	-	-	-	-	130	IP65	-	-
		HP100LA240065	24W	-	-	-	-	250	IP65	-	-

[1] IT is possible to choose between two power values (where indicated) during the installation phase
[2] Indicative power for the comparison with fluorescent tube devices

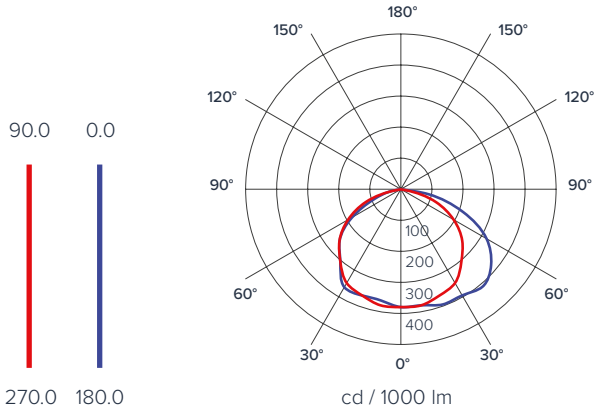
HP200

LED EMERGENCY LAMP

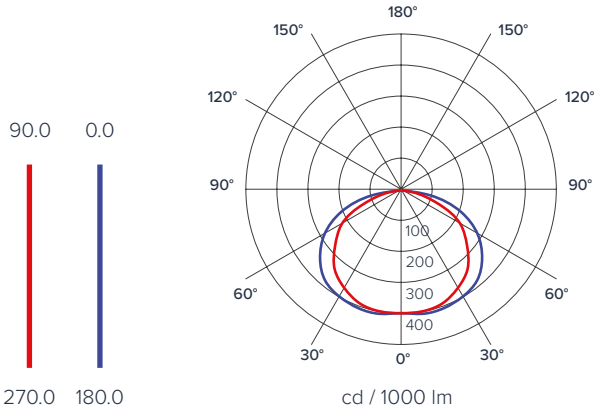
55015 60598-1 60598-2-22 61000-2-2 61000-3-2 61000-3-3 61347-1 61347-2-7 61547 62471

Minimal and compact design emergency lamp characterized by quick and easy installation. The use of new generation LED technology with exclusive patented optics guarantees high light flow and reliability over time.

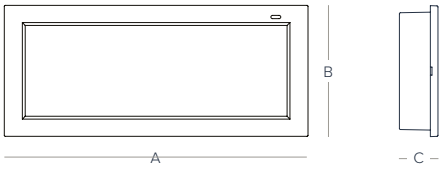
8W and 11W photometric diagram



18W and 24W photometric diagram



Dimensions



A = mm 319
B = mm 137
C = mm 38

DESCRIPTION	
Product series	HARPER 200
Product type	Emergency lighting device
Type	Maintained (M) – Non-maintained (NM)

TECHNICAL SPECIFICATIONS	
Installation	Wall, ceiling, surface/false ceiling mount
Power supply	220/230 Vac, 50-60 Hz
Battery	$LiFePO_4$ 3.2V
Isolation class	II
Colour	RAL9003 White
Light source	LED
Colour temperature	5700K
Additional information	Dedicated terminal for inhibition function
	Dedicated terminal for rest mode function
	Test button and brightness dimmer
IP Protection grade	IP42, IP65
IK Protection rating	IK07
Operating temperature	from 0° to 50° C
Dimensions (W x H x D)	319 x 137 x 38 mm
Warranty	5 years
Package contents	packs of 14

AVAILABLE VERSIONS		Order codes	Power [1] [2]	Duration	Battery $LiFePO_4$ 3.2V [Ah]	Maintained (M) – Non-maintained (NM)	MED. FLUX [lm] N/M	MED. FLUX [lm] M	IP Protection grade	Recharge	Compatibility INICOM
standard		HP200SE111542	11W	1.5h	1.5	N/M	180	-	IP42	12h	-
		HP200SE240142	24W	1h	1.5	N/M	360	-	IP42	12h	-
		HP200SE110442	11W	4h	3.3	N/M	180	-	IP42	24h	-
		HP200SE240242	24W	2h	3.3	N/M	360	-	IP42	24h	-
		HP200SE111565	11W	1.5h	1.5	N/M	180	-	IP65	12h	-
		HP200SE240165	24W	1h	1.5	N/M	360	-	IP65	12h	-
		HP200SE110465	11W	4h	3.3	N/M	180	-	IP65	24h	-
		HP200SE240265	24W	2h	3.3	N/M	360	-	IP65	24h	-
self-test		HP200AE180142	18W-11W	1h-1.5h	1.5	N/M	180-135	-	IP42	6h	✓
		HP200AE360142	36W-24W	1h-1.5h	3.3	N/M	360-270	-	IP42	12h	✓
		HP200AE180342	18W-11W	3h-4h	3.3	N/M	180-135	-	IP42	12h	✓
		HP200AE360342	36W-24W	3h-4h	2x3.3	N/M	360-270	-	IP42	24h	✓
		HP200AA180142	18W-11W	1h-1.5h	1.5	N/M-M	180-135	80	IP42	6h	✓
		HP200AA360142	36W-24W	1h-1.5h	3.3	N/M-M	360-270	170	IP42	12h	✓
		HP200AA180342	18W-11W	3h-4h	3.3	N/M-M	180-135	80	IP42	12h	✓
		HP200AA360342	36W-24W	3h-4h	2x3.3	N/M-M	360-270	170	IP42	24h	✓
		HP200AE180165	18W-11W	1h-1.5h	1.5	N/M	180-135	-	IP65	6h	✓
		HP200AE360165	36W-24W	1h-1.5h	3.3	N/M	360-270	-	IP65	12h	✓
		HP200AE180365	18W-11W	3h-4h	3.3	N/M	180-135	-	IP65	12h	✓
		HP200AE360365	36W-24W	3h-4h	2x3.3	N/M	360-270	-	IP65	24h	✓
		HP200AA180165	18W-11W	1h-1.5h	1.5	N/M-M	180-135	80	IP65	6h	✓
		HP200AA360165	36W-24W	1h-1.5h	3.3	N/M-M	360-270	170	IP65	12h	✓
		HP200AA180365	18W-11W	3h-4h	3.3	N/M-M	180-135	80	IP65	12h	✓
		HP200AA360365	36W-24W	3h-4h	2x3.3	N/M-M	360-270	170	IP65	24h	✓
BUS supervised		HP200BE180142	18W-11W	1h-1.5h	1.5	N/M	180-135	-	IP42	6h	-
		HP200BE360142	36W-24W	1h-1.5h	3.3	N/M	360-270	-	IP42	12h	-
		HP200BE180342	18W-11W	3h-4h	3.3	N/M	180-135	-	IP42	12h	-
		HP200BE360342	36W-24W	3h-4h	2 x 3.3	N/M	360-270	-	IP42	24h	-
		HP200BA180142	18W-11W	1h-1.5h	1.5	N/M-M	180-135	80	IP42	6h	-
		HP200BA360142	36W-24W	1h-1.5h	3.3	N/M-M	360-270	170	IP42	12h	-
		HP200BA180342	18W-11W	3h-4h	3.3	N/M-M	180-135	80	IP42	12h	-
		HP200BA360342	36W-24W	3h-4h	2x3.3	N/M-M	360-270	170	IP42	24h	-
		HP200BE180165	18W-11W	1h-1.5h	1.5	N/M	180-135	-	IP65	6h	-
		HP200BE360165	36W-24W	1h-1.5h	3.3	N/M	360-270	-	IP65	12h	-
		HP200BE180365	18W-11W	3h-4h	3.3	N/M	180-135	-	IP65	12h	-
		HP200BE360365	36W-24W	3h-4h	2x3.3	N/M	360-270	-	IP65	24h	-
		HP200BA180165	18W-11W	1h-1.5h	1.5	N/M-M	180-135	80	IP65	6h	-
		HP200BA360165	36W-24W	1h-1.5h	3.3	N/M-M	360-270	170	IP65	12h	-
		HP200BA180365	18W-11W	3h-4h	3.3	N/M-M	180-135	80	IP65	12h	-
		HP200BA360365	36W-24W	3h-4h	2x3.3	N/M-M	360-270	170	IP65	24h	-
DALI		HP200DA180142	18W	1h	1.5	N/M-M	180	80	IP42	6h	-
		HP200DA360142	36W	1h	3.3	N/M-M	360	170	IP42	12h	-
		HP200DA180342	18W	3h	3.3	N/M-M	180	80	IP42	12h	-
		HP200DA360342	36W	3h	2x3.3	N/M-M	360	170	IP42	24h	-
		HP200DA180165	18W	1h	1.5	N/M-M	180	80	IP65	6h	-
		HP200DA360165	36W	1h	3.3	N/M-M	360	170	IP65	12h	-
		HP200DA180365	18W	3h	3.3	N/M-M	180	80	IP65	12h	-
		HP200DA360365	36W	3h	2x3.3	N/M-M	360	170	IP65	24h	-
central-battery		HP200LA180042	18W	-	-	-	-	180	IP42	-	-
		HP200LA360042	36W	-	-	-	-	360	IP42	-	-
		HP200LA180065	18W	-	-	-	-	180	IP65	-	-
		HP200LA360065	36W	-	-	-	-	360	IP65	-	-

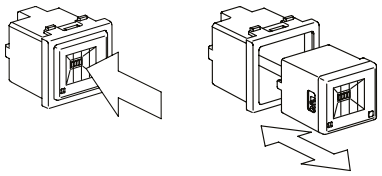
[1] IT is possible to choose between two power values (where indicated) during the installation phase
[2] Indicative power for the comparison with fluorescent tube devices

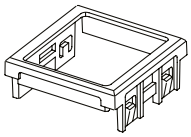
HP50

FLUSH MOUNTING MINI EMERGENCY LAMP WITH PORTABLE TORCH

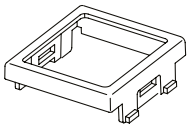
CEI 64-8 60598-1 60598-2-22 60598-2-2

Available in 2-module version compatible with the most widely used light switch plates used in buildings, compliant with CEI64-8 standards for residential installations. It has an elegant flush-mount design and can be easily extracted and replaced with a simple click.

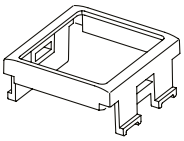




BTicino axolute, axolute air



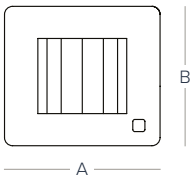
BTicino magic, matix

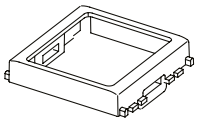


BTicino living light, living light air, living international, light

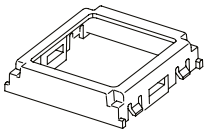
Dimensions

A = mm 38.5
B = mm 34.5
C = mm 51.5

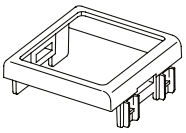




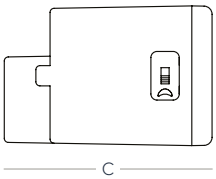
Vimar plana, eikon, eikon evo, arke'



Vimar idea



Gewiss chorus lux, chorus one



DESCRIPTION

Product series	HARPER 50
Product type	Emergency lighting device with removable torch
Type	Maintained (M) – Non-maintained (NM)

TECHNICAL SPECIFICATIONS

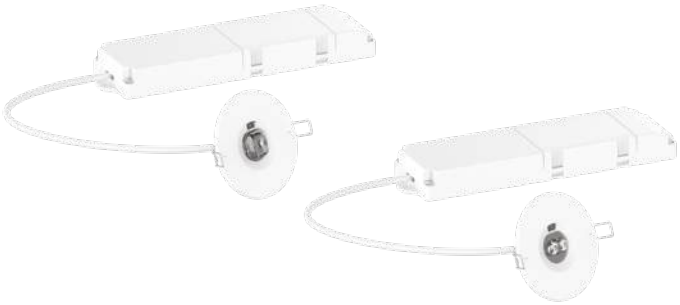
Installation	Any standard flush mounting box like 503, 506, etc.
Power supply voltage	220/230 Vac, 50-60 Hz
Battery	Li-Ion 3.7 V
Isolation class	II
Colour	RAL9003 White
Light source	LED
Colour temperature	5700K
Additional information	Dusk sensor for step marker function
	On/off switch for portable torch
	On/off switch for twilight sensor
	Included frames for wall plates compatibility
	Anti-detachment screw
IP Protection grade	IP40
IK Protection rating	IK07
Operating temperature	from 0° to 50° C
Dimensions (W x H x D)	38.5 x 34.5 x 51.5 mm
Package contents	packs of 10

VERSIONS AVAILABLE	Order codes	No. LEDs	Duration	Battery Li-Ion 3.7V [Ah]	Maintained (M) – Non-maintained (NM)	MED. FLUX [lm] N/M	MED. FLUX [lm] M	IP Protection grade	Recharge	Frames colour
standard	HP50SA000340	4	3-6h	0.65	N/M-M	42	5	IP40	12-24h	White
	HP50SA000340-N	4	3-6h	0.65	N/M-M	42	5	IP40	12-24h	Black

SPOTLED

LED EMERGENCY SPOTLIGHT

55015 60598-1 60598-2-22 61000-2-2 61000-3-2 61000-3-3 61347-1 61347-2-7 61547 62471

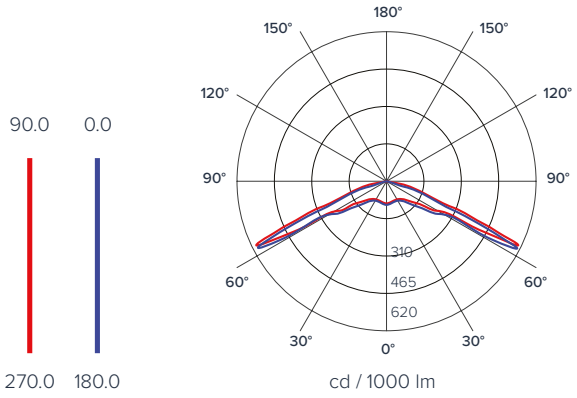


Flush mounting emergency spotlight with ultra-slim design and high performance light. It is equipped as standard with a symmetrical and asymmetrical lens.

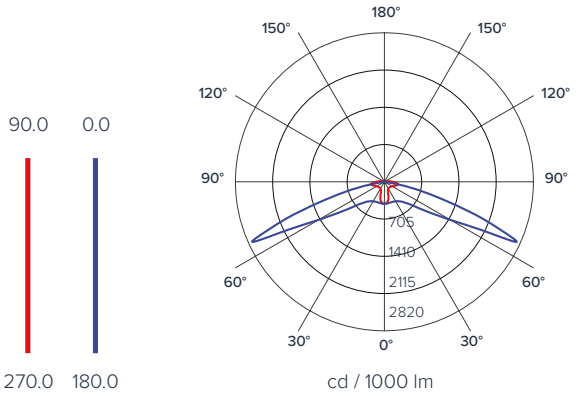
SPOTLED
Symmetrical lens

SPOTLED
Asymmetrical lens

Photometric diagram
Symmetrical lens

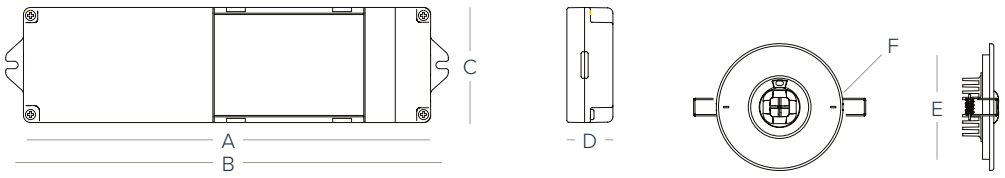


Photometric diagram
Asymmetrical lens



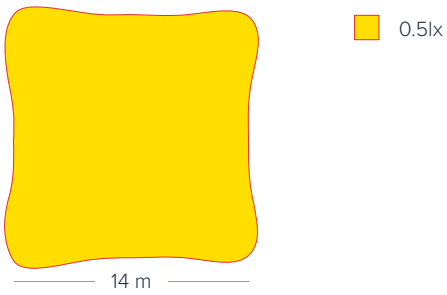
Dimensions

A = mm 230
B = mm 240.2
C = mm 65
D = mm 26
F = ø 90
E = ø 74

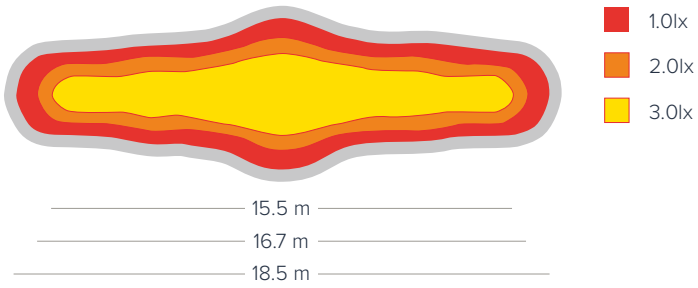


Illumination performance with 3m installation height

Symmetrical lens



Asymmetrical lens



DESCRIPTION	
Product series	SPOTLED
Product type	Emergency lighting device
Type	Maintained (M) – Non-maintained (NM)
TECHNICAL SPECIFICATIONS	
Installation	False ceiling mount
Power supply voltage	220/230 Vac, 50/ 60 Hz
Battery	$LiFePO_4$ 3.2V
Isolation class	II
Colour	RAL9003 White
Light source	LED
Colour temperature	5700K
Additional information	Dedicated terminal for inhibition function
	Dedicated terminal for rest mode function
IP Protection grade	IP40
IK Protection rating	IK07
Operating temperature	from 0° to 40° C
Diameter (mm)	90
Warranty	5 years

AVAILABLE VERSIONS	Order codes	Duration	Battery $LiFePO_4$ 3.2V [Ah]	Maintained (M) – Non-maintained (NM)	MED. FLUX [lm] N/M	MED. FLUX [lm] M	Recharge	INICOM compat-ibility
standard	SPSA240140	1h	1.5	N/M-M	300	220	6h	√
	SPSA240340	3h	2 x 1.5	N/M-M	300	220	12h	√
self-test	SPAA240140	1h	1.5	N/M-M	300	220	6h	√
	SPAA240340	3h	2 x 1.5	N/M-M	300	220	12h	√
BUS-supervised	SPBA240140	1h	1.5	N/M-M	300	220	6h	-
	SPBA240340	3h	2 x 1.5	N/M-M	300	220	12h	-
DALI	SPDA240140	1h	1.5	N/M-M	300	220	6h	-
	SPDA240340	3h	2 x 1.5	N/M-M	300	220	12h	-
central-battery	SPLA240040	-	-	-	-	300	-	-

SPOTLED UP

LED EMERGENCY SPOTLIGHT

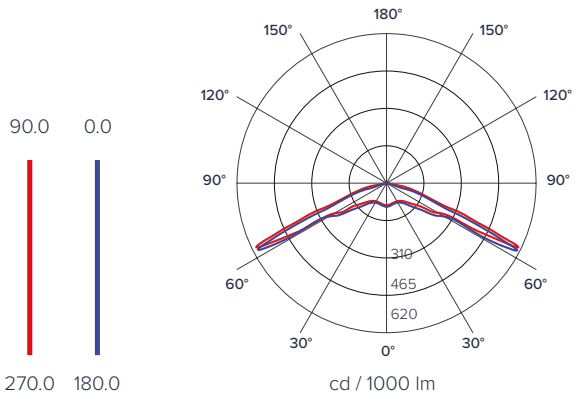
55015 60598-1 60598-2-22 61000-2-2 61000-3-2 61000-3-3 61347-1 61347-2-7 61547 62471

SPOTLED UP
Symmetrical lens

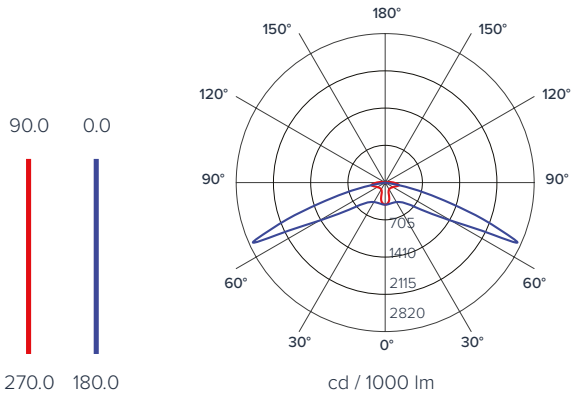
SPOTLED UP
Asymmetrical lens

Emergency spotlight with stylish round outline, for ceiling installation. It is equipped as standard with a symmetrical and asymmetrical lens.

Photometric diagram
Symmetrical lens

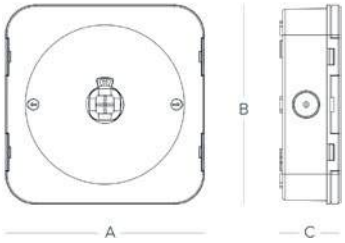


Photometric diagram
Asymmetrical lens



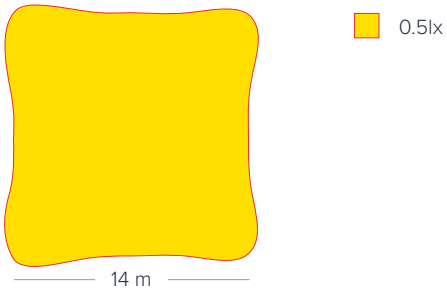
Dimensions

A = 150 mm B = 150 mm C = 45 mm

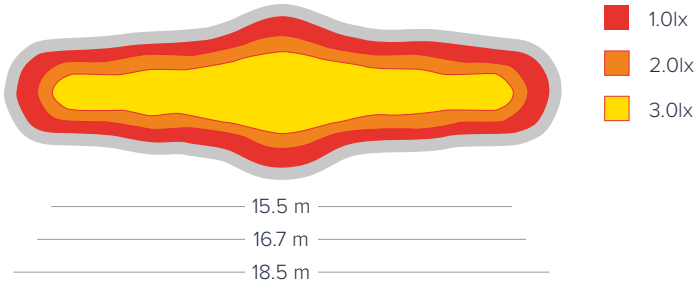


Illumination performance with 3m installation height

Symmetrical lens



Asymmetrical lens



AVAILABLE VERSIONS	Order codes	Duration	Battery $LiFePO_4$ 3.2V [Ah]	Maintained (M) – Non-maintained (NM)	MED. FLUX [lm] N/M	MED. FLUX [lm] M	Recharge	INICOM compatibility
standard	SUSA240140	1h	1.5	N/M-M	330	250	6h	√
	SUSA240340	3h	3.3	N/M-M	330	250	12h	√
self-test	SUAA240140	1h	1.5	N/M-M	330	250	6h	√
	SUAA240340	3h	3.3	N/M-M	330	250	12h	√
BUS-supervised	SUBA240140	1h	1.5	N/M-M	330	250	6h	-
	SUBA240340	3h	3.3	N/M-M	330	250	12h	-
DALI	SUDA240140	1h	1.5	N/M-M	330	250	6h	-
	SUDA240340	3h	3.3	N/M-M	330	250	12h	-
central-battery	SULA240040	-	-	-	-	300	-	-

SPOTLED SIDE

LED EMERGENCY SPOTLIGHT

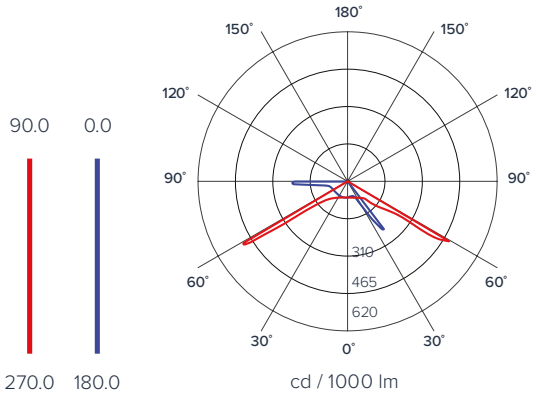
55015 60598-1 60598-2-22 61000-2-2 61000-3-2 61000-3-3 61347-1 61347-2-7 61547 62471

SPOTLED SIDE
Symmetrical lens

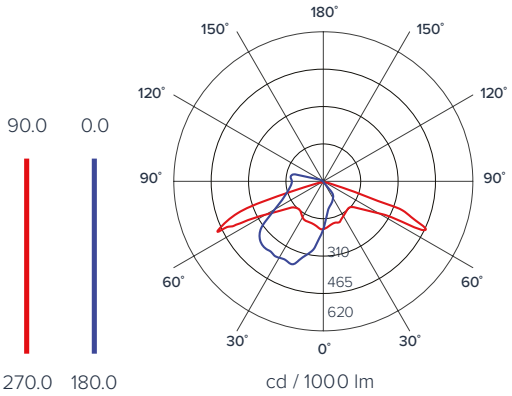
SPOTLED SIDE
Asymmetrical lens

Emergency spotlight with stylish round outline, for wall mounting. It is equipped as standard with a symmetrical and asymmetrical lens.

Photometric diagram
Symmetrical lens

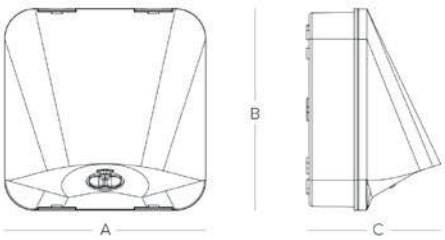


Photometric diagram
Asymmetrical lens



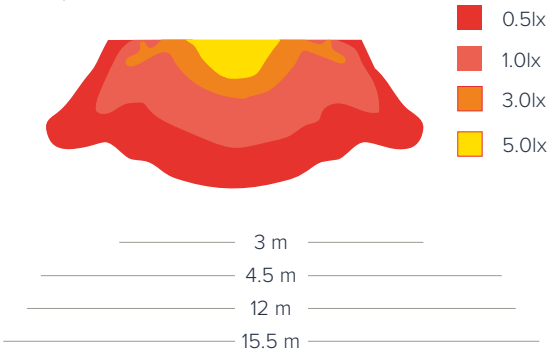
Dimensions

A = 150 mm B = 150 mm C = 100 mm

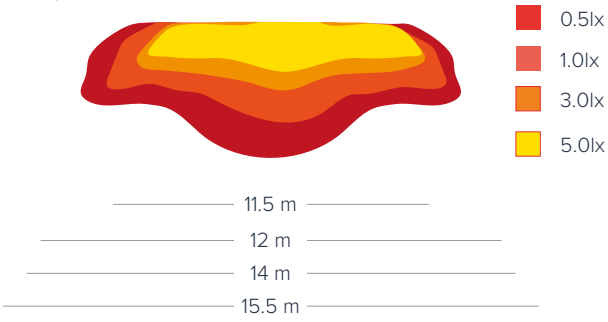


Illumination performance with 3m installation height

Symmetrical lens



Asymmetrical lens



AVAILABLE VERSIONS	Order codes	Duration	Battery $LiFePO_4$ 3.2V [Ah]	Maintained (M) – Non-maintained (NM)	MED. FLUX [lm] N/M	MED. FLUX [lm] M	Recharge	INICOM compat-ibility
standard	SISA240140	1h	1.5	N/M-M	330	250	6h	√
	SISA240340	3h	3.3	N/M-M	330	250	12h	√
self-test	SIAA240140	1h	1.5	N/M-M	330	250	6h	√
	SIAA240340	3h	3.3	N/M-M	330	250	12h	√
BUS-supervised	SIBA240140	1h	1.5	N/M-M	330	250	6h	-
	SIBA240340	3h	3.3	N/M-M	330	250	12h	-
DALI	SIDA240140	1h	1.5	N/M-M	330	250	6h	-
	SIDA240340	3h	3.3	N/M-M	330	250	12h	-
central-battery	SILA240040	-	-	-	-	300	-	-

SPOTLED UP ARTIC

LED EMERGENCY SPOTLIGHT

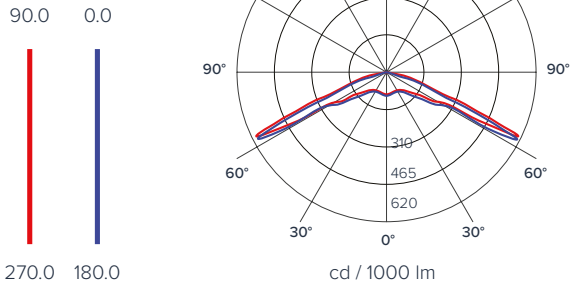
55015 60598-1 60598-2-22 61000-2-2 61000-3-2 61000-3-3 61347-1 61347-2-7 61547 62471

SPOTLED UP ARTIC
Symmetrical lens

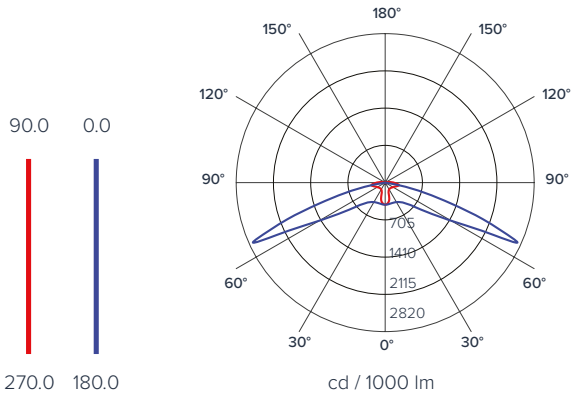
SPOTLED UP ARTIC
Asymmetrical lens

Emergency spotlight with stylish round outline, for ceiling installation; especially designed for environments with temperatures down to -30°C. It is equipped as standard with a symmetrical and asymmetrical lens.

Photometric diagram
Symmetrical lens

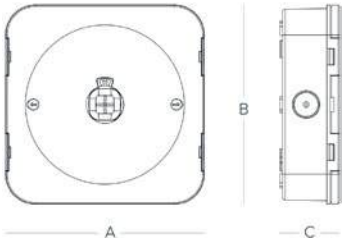


Photometric diagram
Asymmetrical lens



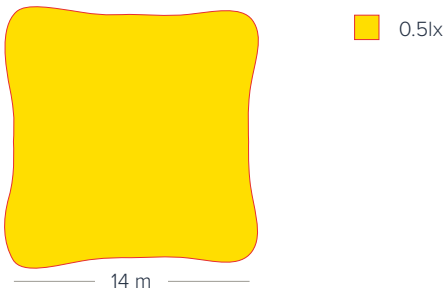
Dimensions

A = 150 mm B = 150 mm C = 45 mm

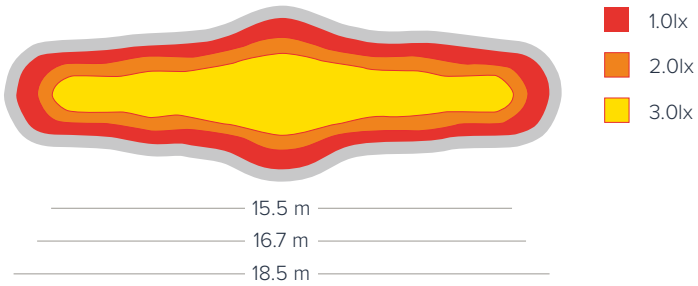


Illumination performance with 3m installation height

Symmetrical lens



Asymmetrical lens



AVAILABLE VERSIONS	Order codes	Duration	Battery EXTENDED TEMP. 3.2V [Ah]	Maintained (M) – Non-maintained (NM)	MED. FLUX [lm] N/M	MED. FLUX [lm] M	Recharge	INICOM compat-ibility
standard	SUSA240365-A	3h	3.2	N/M-M	230	170	12h	√
self-test	SUAA240365-A	3h	3.2	N/M-M	230	170	12h	√
BUS-supervised	SUBA240365-A	3h	3.2	N/M-M	230	170	12h	-
DALI	SUDA240365-A	3h	3.2	N/M-M	230	170	12h	-

SPOTLED SIDE ARTIC

LED EMERGENCY SPOTLIGHT

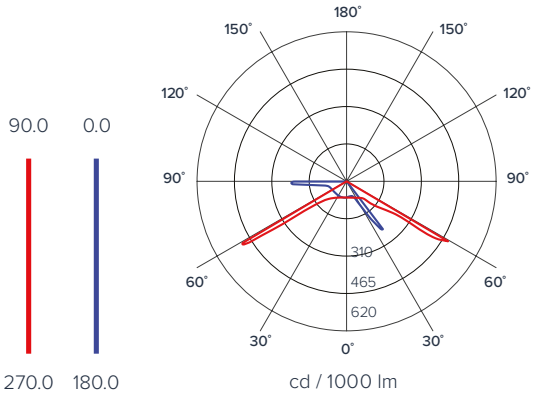
55015 60598-1 60598-2-22 61000-2-2 61000-3-2 61000-3-3 61347-1 61347-2-7 61547 62471

SPOTLED SIDE
Symmetrical lens

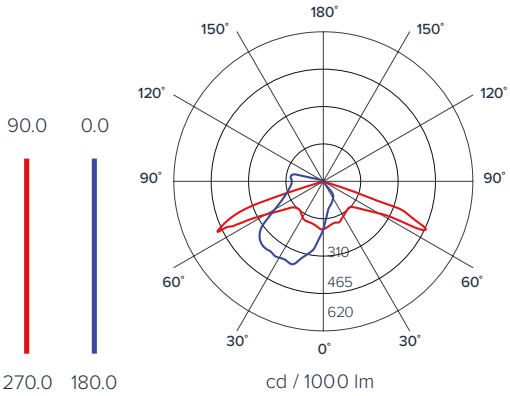
SPOTLED SIDE
Asymmetrical lens

Emergency spotlight with stylish round outline, for wall mounting; especially designed for environments with temperatures down to -30°C. It is equipped as standard with a symmetrical and asymmetrical lens.

Photometric diagram
Symmetrical lens

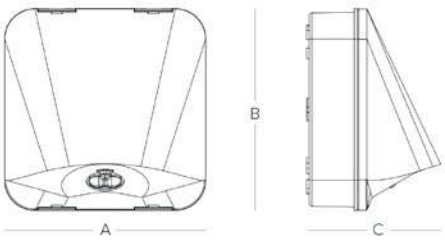


Photometric diagram
Asymmetrical lens



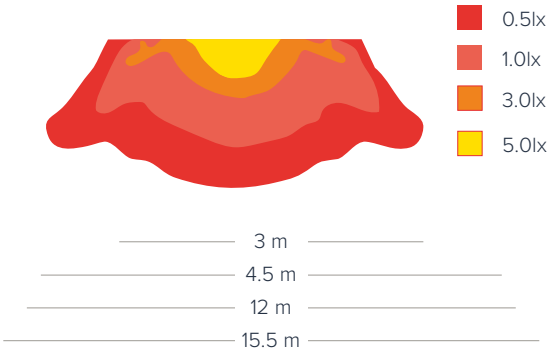
Dimensions

A = 150 mm B = 150 mm C = 100 mm

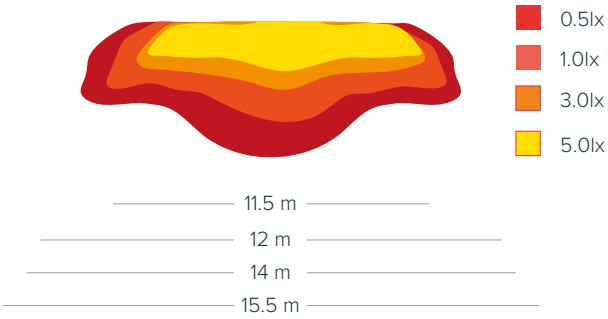


Illumination performance with 3m installation height

Symmetrical lens



Asymmetrical lens



AVAILABLE VERSIONS	Order codes	Duration	Battery EXTENDED TEMP. 3.2V [Ah]	Maintained (M) – Non-maintained (NM)	MED. FLUX [lm] N/M	MED. FLUX [lm] M	Recharge	INICOM compat-ibility
standard	SISA240365-A	3h	3.2	N/M-M	230	170	12h	√
self-test	SIAA240365-A	3h	3.2	N/M-M	230	170	12h	√
BUS-supervised	SIBA240365-A	3h	3.2	N/M-M	230	170	12h	-
DALI	SIDA240365-A	3h	3.2	N/M-M	230	170	12h	-

CONVERTLED

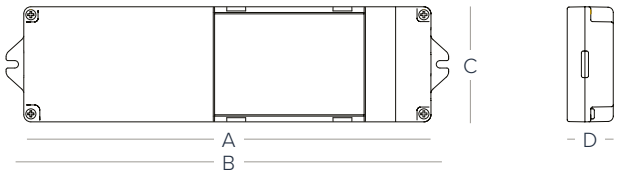
ILLUMINATION LAMP WITH EMERGENCY KIT

55015 60598-1 60598-2-2 60598-2-22 61000-3-2 61000-3-3 61347-1 61347-2-7 61547 62471

Electrical power supply for emergency ceiling lights and LED modules.
Compatible with all drivers with 6Vdc to 60Vdc output voltage, 2A max. current.
Compatible with 6Vdc to 60Vdc LED modules.

Dimensions

A = mm 230
B = mm 240.2
C = mm 65
D = mm 26



DESCRIPTION	
Product series	CONVERTLED
Product type	Emergency lighting kit
Type	Maintained (M) with commercial driver – Non-maintained (NM)

TECHNICAL SPECIFICATIONS	
Installation	False ceiling / Inside the ceiling light
Power supply voltage	220/230 Vac, 50/ 60 Hz
Output voltage	Self-converting from 6 V to 60 V
Battery	$LiFePO_4$ 3.2V
Isolation class	II
Colour	RAL9003 White
Additional information	Dedicated terminal for inhibition function
	Dedicated terminal for rest mode function
IP Protection grade	IP30
IK Protection rating	IK07
Operating temperature	from 0° to 40° C
Dimensions (W x H x D)	240.2 x 65 x 26 mm
Warranty	5 years
Package contents	packs of 25

AVAILABLE VERSIONS	Order codes	Output power	Duration	Battery $LiFePO_4$ 3.2V [Ah]	Recharge	INICOM compatibility
standard	CNSA01	4W - 3W - 2W - 1,5W	1h - 1.5h - 2h - 3h	2 x 1.5	12h	√
self-test	CNAA01	4W - 3W - 2W - 1,5W	1h - 1.5h - 2h - 3h	2 x 1.5	12h	√
BUS-supervised	CNBA01	4W - 3W - 2W - 1,5W	1h - 1.5h - 2h - 3h	2 x 1.5	12h	-

HP320

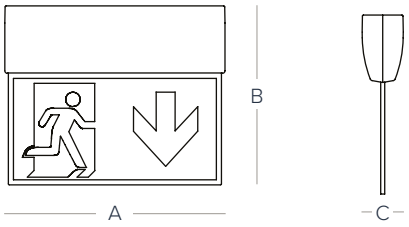
SIGNALLING LAMPS FOR ESCAPE ROUTES

60598-1 60598-2-22 1838 61347-1 3864-4 7010

Compact and flexible Can be installed in any position by means of a bracket (supplied), for visibility at 20 meters and pictograms compliant with the international standard (ISO7010).

Dimensions

A = mm 217
B = mm 176.5
C = mm 41



DESCRIPTION	
Product series	HARPER 320
Product type	Signalling device
Type	Maintained (M)

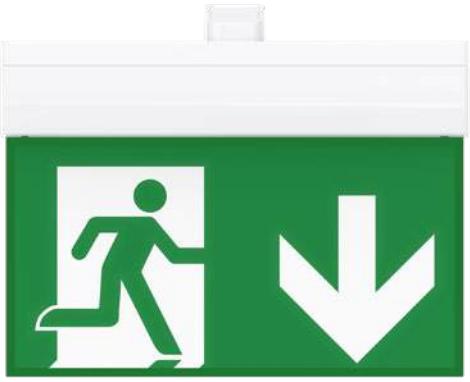
TECHNICAL SPECIFICATIONS	
Installation	Wall, flag, ceiling, recess, suspended
Power supply voltage	220/230 Vac, 50-60 Hz
Battery	$LiFePO_4$ 3.2V
Visibility distance	20m
Isolation class	II
Colour	RAL9003 White
Light source	LED
Colour temperature	5700K
Additional information	Dedicated terminal for inhibition function
	Dedicated terminal for rest mode function
	Test button and brightness dimmer
IP Protection grade	IP40
IK Protection rating	IK07
Operating temperature	from 0° to 50° C
Dimensions (W x H x D)	217 x 176.5 x 41 mm
Warranty	5 years
Package contents	packs of 5

AVAILABLE VERSIONS	Order codes	Duration	Battery $LiFePO_4$ 3.2V [Ah]	Maintained (M) – Non-maintained (NM)	IP Protection grade	Recharge	INICOM compat-ibility
standard	HP320SA000340	3h	1.5	M	IP40	6h	✓
self-test	HP320AA000340	3h	1.5	M	IP40	6h	✓
BUS-supervised	HP320BA000340	3h	1.5	M	IP40	6h	-
DALI	HP320DA000340	3h	1.5	M	IP40	6h	-
central-battery	HP320LA000040	-	-	-	IP40	-	-

HP330

SIGNALLING LAMPS FOR ESCAPE ROUTES

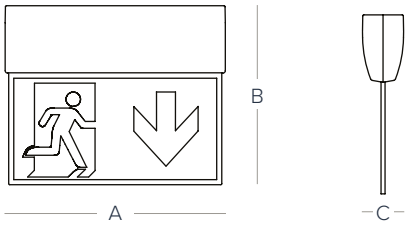
60598-1 60598-2-22 1838 61347-1 3864-4 7010



Compact and flexible, they can be installed in any position by means of a bracket (supplied), for visibility at 30 meters and pictograms compliant with the international standard (ISO7010).

Dimensions

A = mm 322
B = mm 231.5
C = mm 41



DESCRIPTION

Product series	HARPER 330
Product type	Signalling device
Type	Maintained (M)

TECHNICAL SPECIFICATIONS

Installation	Wall, flag, ceiling, recess, suspended
Power supply voltage	220/230 Vac, 50-60 Hz
Battery	$LiFePO_4$ 3.2V
Visibility distance	30 m
Isolation class	II
Colour	RAL9003 White
Light source	LED
Colour temperature	5700K
Additional information	Dedicated terminal for inhibition function
	Dedicated terminal for rest mode function
	Test button and brightness dimmer
IP Protection grade	IP40
IK Protection rating	IK07
Operating temperature	from 0° to 50° C
Dimensions (W x H x D)	322 x 231.5 x 41 mm
Warranty	5 years
Package contents	packs of 5

AVAILABLE VERSIONS	Order codes	Duration	Battery $LiFePO_4$ 3.2V [Ah]	Maintained (M) – Non-maintained (NM)	IP Protection grade	Recharge	Compatibility INICOM
self-test	HP330AA000140	1h	1.5	M	IP40	6h	✓
	HP330AA000340	3h	3.3	M	IP40	12h	✓
BUS-supervised	HP330BA000140	1h	1.5	M	IP40	6h	-
	HP330BA000340	3h	3.3	M	IP40	12h	-
DALI	HP330DA000140	1h	1.5	M	IP40	6h	-
	HP330DA000340	3h	3.3	M	IP40	12h	-
central-battery	HP330LA000040	-	-	-	IP40	6h	-

The Harper Manager control panels

The centralized supervision of the emergency lighting system is a system of diagnostics and control managed by a computerized control panel which collects and stores all the data coming from the lamps.

The Harper Manager and Harper Manager XL control panels allow you to carry out the following operations:
- test the functionality of devices
- test and measure the battery life of devices
- enable and disable the emergency function
- switch On and Off the devices in Maintained mode
- maintained brightness adjustment

Only authorized persons can access the control panel functions by means of digital password entry or insertion of a valid key. The large 7" display touchscreen and intuitive graphic interface allow fast and easy programming of all the variables and advanced management of all data.

Utility

Periodic maintenance is crucial to ensure the proper operating capacity of the emergency system which, in applications with a large number of luminaires, may become complicated and difficult. In such cases the centralized supervision system allows accurate and scheduled maintenance of the system.

A fault-proof system

The BUS that starts from the control panel can close on itself to create a Loop, in this way a fault on the data transmission line which interrupts the Loop will be resolved thanks to the following automatic interventions:
The devices on either side of the fault open their electronic switches in order to isolate the fault and create two separate lines (the example shows devices 2 and 3). The same devices communicate their intervention as soon as it is completed. The control panel will then convert the return point of the loop into an output and will start communicating on two distinct lines. The control panel signals and stores the line fault specifying the exact break point thanks to the installation layout. While having a form of centralized control, the installed devices remain autonomous, and any cable or control panel faults do not affect automatic functioning in emergencies.

Control panel modularity - flexibility and expansion

The Harper Manager and Harper Manager XL control panels can already manage two loops separately, each supporting a maximum of 240 devices each loop. Additionally, both accept expansions which can gradually increase the number of loops to a maximum of 8 loops on the Harper Manager (1920 devices) and 14 loops on Harper Manager XL (3360 devices).
Even the Web Server can act as an expansion on the control panel. This modularity allows you to configure a control panel in accordance with the installation and user needs, thus streamlining costs whilst leaving the possibility for any future expansion.

Enrolling

Inim lamps are already set up for BUS communication, each of them has a unique serial number that allows the control panel to identify the installed lamps in a fast and trouble-free way. Additionally, a layout of the system will be created automatically, this layout will allow instant recognition of any devices in fault status.

System test

In compliance with CEI EN 50172 and UNI 11222, Harper Manager and Harper Manager XL utilize user-customizable calenders to carry out the following two tests:

Functionality Test: This test checks the proper operating capacity of the emergency luminaires and consequently the activation of the light source. A negative result to this test indicates the device is not working. The identification of an emergency luminaire with a fault condition is facilitated by the switching on of a red LED located on the device.
Autonomy Test: For this test it is necessary to simulate a mains blackout, the emergency luminaire will switch On, powered through the batteries, and remain On until the battery power runs out. At the end of the test you will obtain the real measure of autonomy which can be compared to the nominal autonomy. A negative result indicates that the battery must be replaced. The identification of an emergency light with a battery fault condition is facilitated by the switching on of a red LED located on the device.

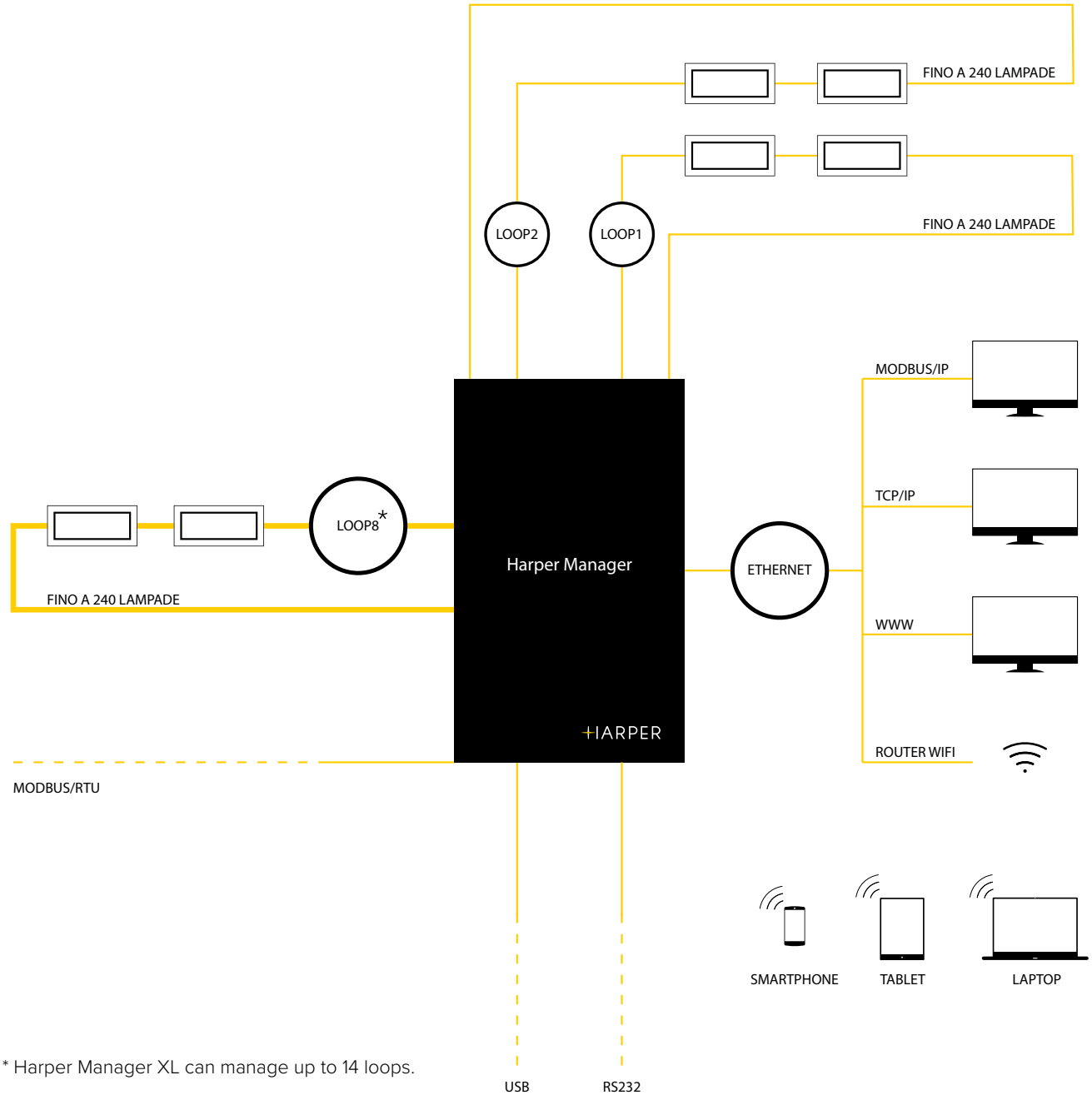
Events log

The control panel has a non-volatile memory which stores the chronology of all events. The log stores data regarding test results, emergency intervention, inhibition actions, programming events, bus line faults (loop) and control panel faults. The events log can be viewed on the display and printed out on an incorporated printer (optional item). You can access the events register and copy the contents to a PC for successive processing by simply connecting through a local or remote PC via the intranet/internet network.

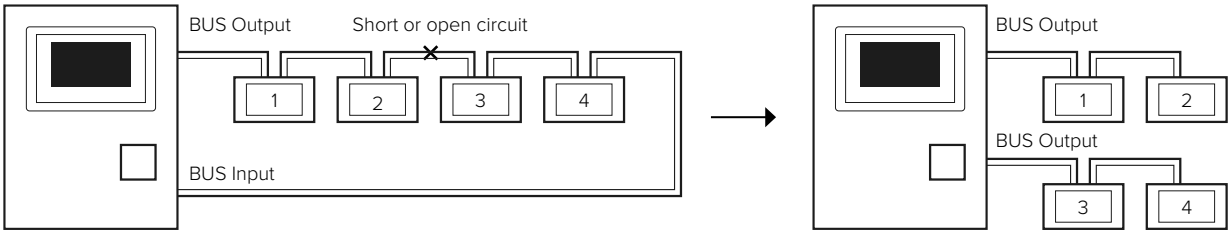
Connections

Harper Manager and Harper Manager XL control panels are capable of supporting an on-board Web Server. This will allow connection to a control panel via PC, Tablet or Smartphone via either a local network or the Internet without any need of specific software. The Web Server allows access to all the functions via any ordinary Internet browser. It is also possible to connect to the control panel directly by USB or the RS232 serial line located on the back of the display.

Harper Manager control panel diagram



* Harper Manager XL can manage up to 14 loops.



HARPER MANAGER

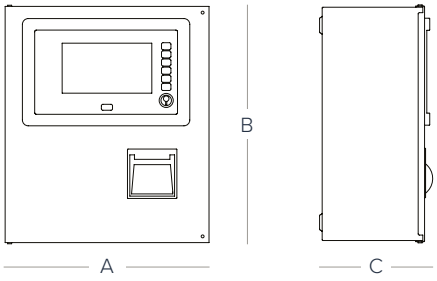
SYSTEM SUPERVISORY CONTROL PANEL

60598-1 60598-2-22 62471

System with innovative functions for supervision and periodic maintenance, capable of managing emergency and signal luminaires.

Dimensions

A = mm 351
B = mm 406
C = mm 181



DESCRIPTION

Product series	Harper Manager
Product type	Supervisory control panel

TECHNICAL SPECIFICATIONS

Installation	Wall and rack mount to 19” enclosures
Power supply voltage	220/230 Vac, 50-60 Hz
Current absorption	20 VA
Battery	2 x Pb 12V 7 Ah
Isolation class	I
Additional information	Manages up to 8 loops and up to 240 devices on each loop
	Manages up to 80 logic groups
	7” touchscreen display with intuitive graphic interface
	Topological view of system
	Ethernet protocol TCP/IP with web server
	IP and RTU (485) Modbus
	Brightness adjustment of devices
	On and Off control of maintained emergency luminaires
	Fully programmable times and days for test execution
	Non-volatile history memory of events and tests on the system
Max loop length	2000m (with twisted shielded cable)
IP Protection grade	IP30
Compliant with norms	UNI 11222, EN 50172
Dimensions (W x H x D)	351 x 406 x 181 mm

Order codes	Description	Duration	Printer	Batteries	Maximum lamp capacity	IP Protection grade
HPMNG	Harper Manager with 2-loop module included	3h	Not included	2 x Pb 12V 7Ah not included	1920	IP30

HARPER MANAGER XL

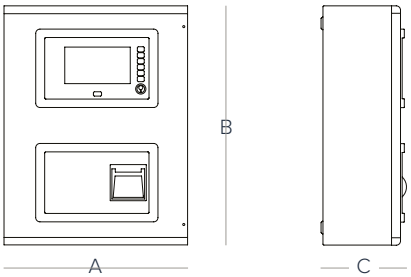
SYSTEM SUPERVISORY CONTROL PANEL

60598-1 60598-2-22 62471

System with innovative functions for supervision and periodic maintenance, capable of managing emergency and signal luminaires.

Dimensions

A = mm 432
B = mm 563
C = mm 187



DESCRIPTION	
Product series	Harper Manager
Product type	Supervisory control panel
TECHNICAL SPECIFICATIONS	
Installation	Wall and rack mount to 19” enclosures
Power supply voltage	220/230 Vac, 50-60 Hz
Current absorption	20 VA
Battery	2 x Pb 12V 17 Ah
Isolation class	I
Additional information	Manages up to 14 loops and up to 240 devices on each loop
	Manages up to 80 logic groups
	7” touchscreen display with intuitive graphic interface
	Topological view of system
	Ethernet protocol TCP/IP with web server
	IP and RTU (485) Modbus
	Brightness adjustment of devices
	On and Off control of maintained emergency luminaires
	Fully programmable times and days for test execution
	Non-volatile history memory of events and tests on the system
Max loop length	2000m (with twisted shielded cable)
IP Protection grade	IP30
Compliant with norms	UNI 11222, EN 50172
Dimensions (W x H x D)	432x563x187 mm

Order codes	Description	Duration	Printer	Batteries	Maximum lamp capacity	IP Protection grade
HPMNGXL	Harper Manager XL with 2-loop module included	3h	Not included	2 x Pb 12V 7Ah not included	3360	IP30

Accessories and spare parts

INICOM Remote controller

In emergency lighting systems with autonomous lighting devices, the inhibitory circuit is the ancillary circuit that performs the controlled shut off of lighting devices during emergency functioning. In large, complex systems inhibition of emergency lighting devices is a particularly difficult problem to solve in accordance with regulations. In fact, when considering devices in which shut off occurs when lines open or close, a solution is possible only when in the vicinity of the lighting device itself. This is to prevent accidental causes (e.g. drilling, masonry work, etc.) or disastrous events (e.g. earthquakes, fire, etc.) from interrupting or short-circuiting the inhibitory wiring and provoking absence of intervention during an emergency. Use of a remote control device is a solution to the problem in that:

1- it launches a pulse that is stored in the device, after which the line no longer has any influence over shut off/inhibition;

2- when the lighting network restores, the “ready for emergency” status will reset automatically in the device and the shut off/inhibition command will be forgotten, thus avoiding the risk of forgetfulness on behalf of the operator, which is quite possible when a manual switch is used for shut off/inhibition operations.

DESCRIPTION	
Product type	Remote control for inhibition and/or management of the rest mode
TECHNICAL SPECIFICATIONS	
Installation	DIN rail (4 modules)
Power supply voltage	220/230 Vac, 50-60 Hz
Battery	$LiFePO_4$ 3.2V
Outputs	2
Total number of controlled luminaires	150
Isolation class	II
IP Protection grade	IP30
Operating temperature	from 0° to 50° C
Compliant with norms	EN 60598-2-22

Batteries

BTLF032601W175410
Lithium battery
$LiFePO_4$ 3,2V 0,6AH SIZE 14500, 3 WIRES.

BTLF032152W186500
Lithium battery
$LiFePO_4$ 3,2V 1,5AH SIZE 18650, 2 WIRES.

BTLF032152W186510
Lithium battery
$LiFePO_4$ 3,2V 1,5AH SIZE 18650, 3 WIRES.

BTLF032332W266500
Lithium battery
$LiFePO_4$ 3,2V 3,3AH SIZE 26650, 2 WIRES.

BTLF032322W266501
EXTENDED TEMPERATURE Lithium battery
$LiFePO_4$ 3,2V 3,2AH SIZE 26650, 2 WIRES.

Accessories for Diva

OHDVIP65
IP65 Kit

OHDVPTK
Pictograms kit for DIVA

OHX00GRT
Protective metal grating for complete protection of the lamp body

INICOM
Remote control for management of rest mode

OHX00BR45
Bracket for installation with a 45° inclination

OHBBK
Kit for fixing on electrified bar

Accessories for Dexia

OHDXIP65
IP65 Kit

OHDXPTK
Pictograms kit for DEXIA

OH200BRI
Flush-mount box

OHX00FCK
Plasterboard and false ceiling fastening kit

OHX00BR45
Bracket for installation with a 45° inclination

OHX00GRT
Protective metal grating for complete protection of the lamp body

INICOM
Remote control for management of rest mode

OHBBK
Kit for fixing on electrified bar

HP100 and HP200 accessories

OH100BRI (for HP100)
OH200BRI (for HP200)
Flush-mount box

OH100PTDW (for HP100)
OH200PTDW (for HP200)
Pictogram indicating down

OH100PTRG (for HP100)
OH200PTRG (for HP200)
Pictogram indicating right

OH100PTLF (for HP100)
OH200PTLF (for HP200)
Pictogram indicating left

OH100PTUP (for HP100)
OH200PTUP (for HP200)
Pictogram indicating upwards

OHX00GRT
Protective metal grating for complete protection of the lamp body

OHX00FCK
Plasterboard and false ceiling fastening kit

OHX00BR45
Bracket for installation with a 45° inclination

INICOM
Remote control for management of rest mode

OHBBK
Kit for fixing on electrified bar

Accessories for CONVERTLED

OHCNTB
Test button

Accessories for SPOTLED AND CONVERTLED

INICOM
Remote control for management of rest mode

HP320 and HP330 accessories

OH320FCK (for HP320)
OH330FCK (for HP330)
Kit for recessed installation on a false ceiling leaving only the signalling panel visible

OH3X0SPK
Kit for suspension installation

OH320PNRL / OH320PNLF (for HP320)
OH330PNRL / OH330PNLF (for HP330)
PMMA panel with pictograms indicating left/right

OH3X0GRT
Protective metal grating for complete protection of the lamp body

OH320PNDW / OH320PNUP (for HP320)
OH330PNDW / OH330PNUP (for HP330)
PMMA panel and applied pictograms indicating upwards/downwards

INICOM
Remote control for management of rest mode

Accessories for Harper Manager

OHMPRN
Printer module

OHMCM2L
2-loop module

OHMCABRK
19" rack mount bracket

OHMCMLAN
Webserver module

OHMCABSP
Spacer brackets for cables on wall fastening

Accessories for Harper Manager XL

OHMXLPRN
Printer module

OHMCM2L
2-loop module

OHMXLCABRK
19" rack mount bracket

OHMCMLAN
Webserver module

OHMXLCABSP
Spacer brackets for cables on wall fastening


HEVOLUTO

BMS software

Software for real-time monitoring and control of the status of a building

All Inim control panels are capable of managing the most widely used communication protocols for connection with the control and monitoring software (Building Management Software).

Such protocols (MODBUS, MODBUS On TCP-IP, BACNET, etc.) make it possible to interface the control panels with the larger part of software on the market.

The following pages show some BMS software distributed directly by Inim.

SmartLook

See the data sheet online

Software for centralized monitoring and management of fire-detection and intrusion-control systems.

The modularity of the software makes it the best choice for both industrial and commercial applications, such as hotel receptions, conference halls and shopping centres, for monitoring the status of the system and interacting with it. A typical application is the monitoring of several installations located in different buildings or even different places, thus centralizing the management of a distributed system in a single workstation.

The flexibility of the system allows not only the monitoring of all types of fire control panels (addressable and conventional) but also that of SmartLiving series anti-intrusion control panels. In fact, thanks to the easy-to-understand user interface, this software also finds important applications in the home-automation field.

The software uses graphic maps linked together in a tree structure. An arbitrary number of objects can be inserted on each map, such as monitoring elements (detectors, zones, outputs, bells, etc.), links to another map, links to web pages (web interface of a VCR) or execution command buttons. There are also simple self-diagnosis functions that allow verification of the status of communication between software, control panels and devices.

The operator can interact with the system in real time, making it possible to check the status of the detectors, carry out reset, bypass and output activation operations, etc., as well as check instantly the structure thanks to the integrated video function which allows the connection to cameras and DVRs with web interface on the IP network.

The SmartLook software is capable of importing the system configuration by reading it directly on the control panel, or importing it from the database of the SmartLeague, Prime/STUDIO and Previdia/STUDIO software, thus reducing programming time considerably.

CLIENT LICENCES

SMARTLOOK/F01L	“Lite” Fire Licence – Licence for the management of one Previdia, SmartLoop or SmartLine fire-detection control panel. Non-expandable licence.
SMARTLOOK/F01E	Licence for the management of one Previdia, SmartLoop or SmartLine fire-detection control panel. Expandable licence.
SMARTLOOK/F02E	Licence for the management of two Previdia, SmartLoop or SmartLine fire-detection control panels. Expandable licence.
SMARTLOOK/F05E	Licence for the management of five Previdia, SmartLoop or SmartLine fire-detection control panels. Expandable licence.
SMARTLOOK/F10E	Licence for the management of ten Previdia, SmartLoop or SmartLine fire-detection control panels. Expandable licence.
SMARTLOOK/I01L	“Lite” Intrusion Licence – Licence for the management of one intrusion-control panel from the SmartLiving series. Non-expandable licence.
SMARTLOOK/I01E	Licence for the management of one intrusion-control panel from the SmartLiving and Prime series. Expandable licence.
SMARTLOOK/I02E	Licence for the management of two intrusion-control panel from the SmartLiving and Prime series. Expandable licence.
SMARTLOOK/I05E	Licence for the management of five intrusion-control panel from the SmartLiving and Prime series. Expandable licence.
SMARTLOOK/I10E	Licence for the management of ten intrusion-control panel from the SmartLiving and Prime series. Expandable licence.

Hevoluto

See the data sheet online

PSIM software for the management of building protection systems

Hevoluto is the PSIM (Physical Security Information Management) software that allows centralized management of fire-fighting systems and security systems of one or more sites in a single solution. The data and information deriving from the various monitored platforms are retrieved and reprocessed automatically and continuously: the mapping functions offer instant location of the site where an alarm event occurs, maintaining an overall view of the entire protected structure.

With the Hevoluto PSIM software, risk levels are minimized and response times to dangers are faster.

- Client/server architecture
- Integration with third-party systems
- Camera management
- Compatibility with AutoCAD files
- Multiscreen management

SERVER LICENCES

HV-SVLIC1K	Includes 1 Operator Client and 1000 data points (anti-intrusion, fire detection and ModBus IP technology) The management of CCTV systems (requires HV-SVIDLIC licence) and access control systems (requires HV-SVACLIC licence).
HV-SVLIC2K	Includes 1 Operator Client and 2000 data points (anti-intrusion, fire detection and ModBus IP technology) The management of CCTV systems (requires HV-SVIDLIC licence) and access control systems (requires HV-SVACLIC licence).
HV-SVIDLIC	Video Server licence that allows the management of the CCTV system and video sources (IP cameras or DVR/NVR). Does not include camera licences.
HV-SVACLIC	Access Control Server licence that allows you to manage the access control systems and gates associated with it. Does not include gate licences.

CLIENT LICENCES

HV-CLI01	Additional licence for 1 Client workstation.
HV-CLI05	Additional licence for 5 Client workstations.

DATAPOINT LICENCES (Require HV-SVLICxK)

HV-DP500LIC	Licence for 512 data points. Requires HV-SVLICxK.
HV-DP1KLIC	Licence for 1024 data points. Requires HV-SVLICxK.
HV-DP4KLIC	Licence for 4096 data points. Requires HV-SVLICxK.
HV-DP10KLIC	Licence for 10240 data points. Requires HV-SVLICxK.

CCTV LICENCES (Require HV-SVLICxK and HV-SVIDLIC)

HV-CAMLIC001	Licence for the connection to 1 Camera. Requires HV-SVLICxK and HV-SVIDLIC.
HV-CAMLIC016	Licence for the connection to 16 Cameras. Requires HV-SVLICxK and HV-SVIDLIC.
HV-CAMLIC036	Licence for the connection to 36 Cameras. Requires HV-SVLICxK and HV-SVIDLIC.
HV-CAMLIC064	Licence for the connection to 64 Cameras. Requires HV-SVLICxK and HV-SVIDLIC.
HV-CAMLIC128	Licence for the connection to 128 Cameras. Requires HV-SVLICxK and HV-SVIDLIC.
HV-CAMLIC256	Licence for the connection to 256 Cameras. Requires HV-SVLICxK and HV-SVIDLIC.

ACCESS CONTROL LICENCES (Require HV-SVLICxK and HV-SSVACLIC)

HV-ACD001	Single gate control licence. Requires HV-SVLICxK and HV-SVACLIC.
HV-ACD010	10 gate control licence. Requires HV-SVLICxK and HV-SVACLIC.
HV-ACD025	25 gate control licence. Requires HV-SVLICxK and HV-SVACLIC.
HV-ACD050	50 gate control licence. Requires HV-SVLICxK and HV-SVACLIC.
HV-ACD100	100 gate control licence. Requires HV-SVLICxK and HV-SVACLIC.

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Fire & Safety

inim®

DCCTINE0FIRESAFETY602

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