PRAESIDIA

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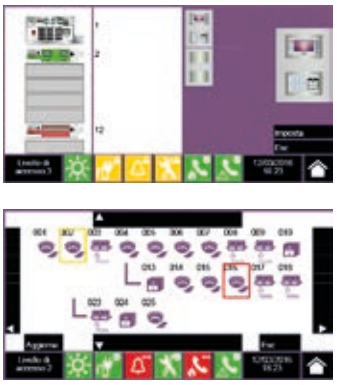
The technological shield of fire safety

FIRE DETECTION SYSTEM

inim ELECTRONICS

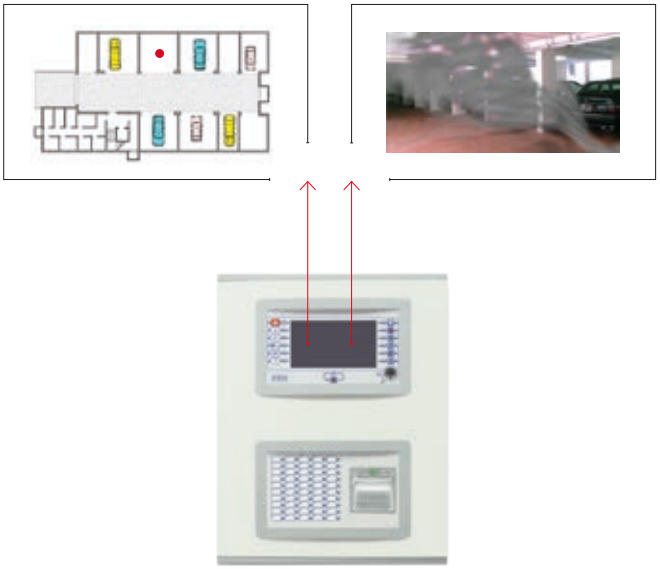
INDEX

Highly simplified



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

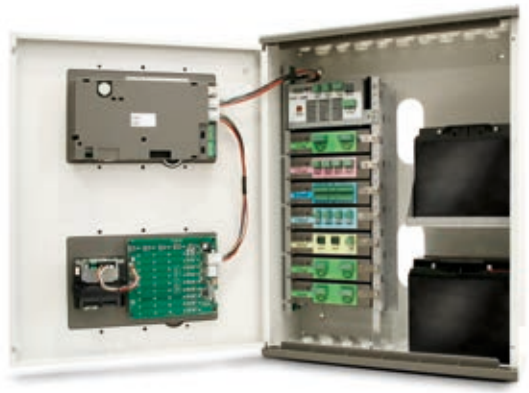
Highly intuitive



Thanks to innovative concepts such as the graphic-map feature which provides instant location of danger, and video verification that uses IP cameras to provide real-time images of the exact point of an alarm, Praesidia drastically reduces response times during moments of real danger and greatly reduces the false alarm rate.

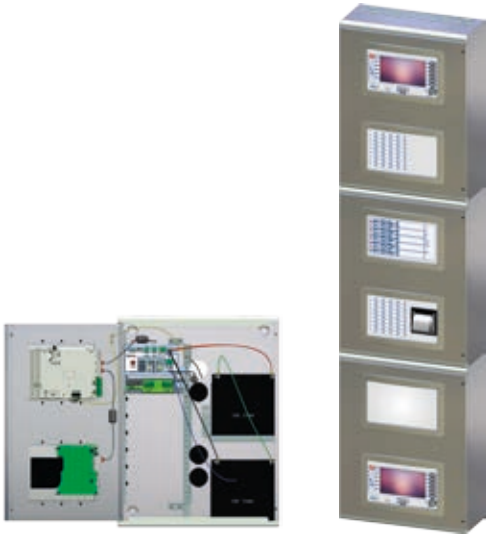
Highly flexible

Thanks to its modular architecture, Praesidia offers a system that is suitable for all types of installations, from small business premises to large airports, hotels and shopping malls. The use of completely functional modules offers optimized protection to the electronic components and allows the addition of those specific functions installations so often require. Each control panel can be made up of a minimum of one cabinet to a maximum as four and is capable of managing up to 32 IFM modules.



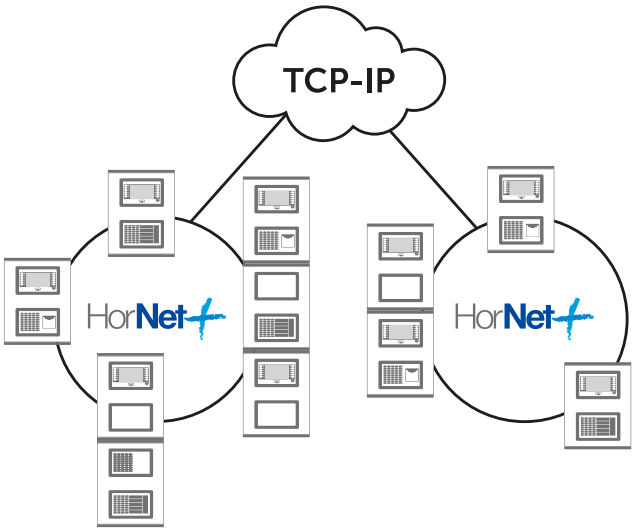
Highly intelligent

Thanks to a distributed-intelligence structure which uses a microprocessor inside each module, redundant microprocessors in the main unit and the possibility of having a backup CPU, Praesidia guarantees unmatched 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.



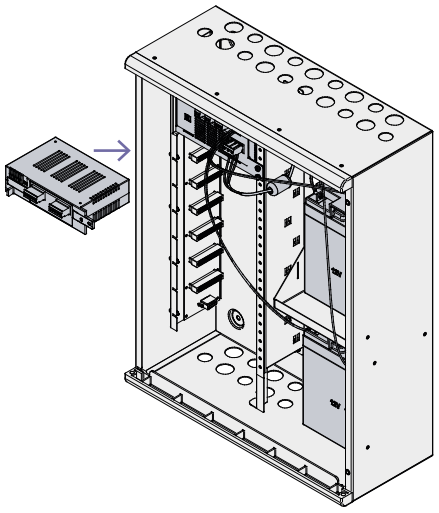
Highly articulated

Thanks to its powerful network architecture, Praesidia 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.

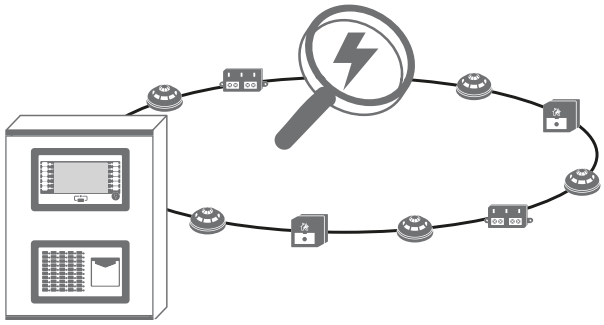


Highly robust

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



Highly reliable



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

Highly multimedial

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

the system

Praesidia is a modular system for the realization of fire detection and extinguishment systems. Praesidia control panels can comprise a single cabinet or several cabinets (max. 4) assembled together. The control panels 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.

Single cabinet systems

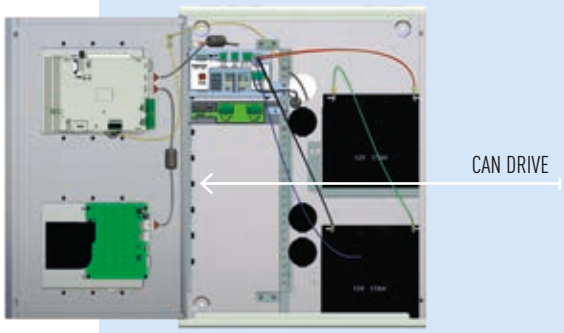
If the Praesidia system consists of a single cabinet with a primary CPU unit (crucial for system functioning), it will be possible to install on front door a second module, selected from the following list.

FPMNUL	Plastic support with no functions.
FPMLED	Signalling module with 50 individually programmable tri-colour LEDs.
FPMLEDPRN	Signalling module with 50 individually programmable tri-colour LEDs and an 80mm printer.
FPMEXT	Extinguishment channel status module, to be used when the control panel is equipped with IFMEXT modules for the management of automatic extinguishment systems.
FPMCPU	CPU module (identical to the primary unit) configured as a secondary CPU unit. In the event of fault on the primary CPU unit it will take over thus making 100% of the functions on the primary CPU redundant.

The cabinet has a CAN DRIVE for the interconnection of a maximum of 8 IFM modules. In accordance with the needs of the system, the following modules are available.

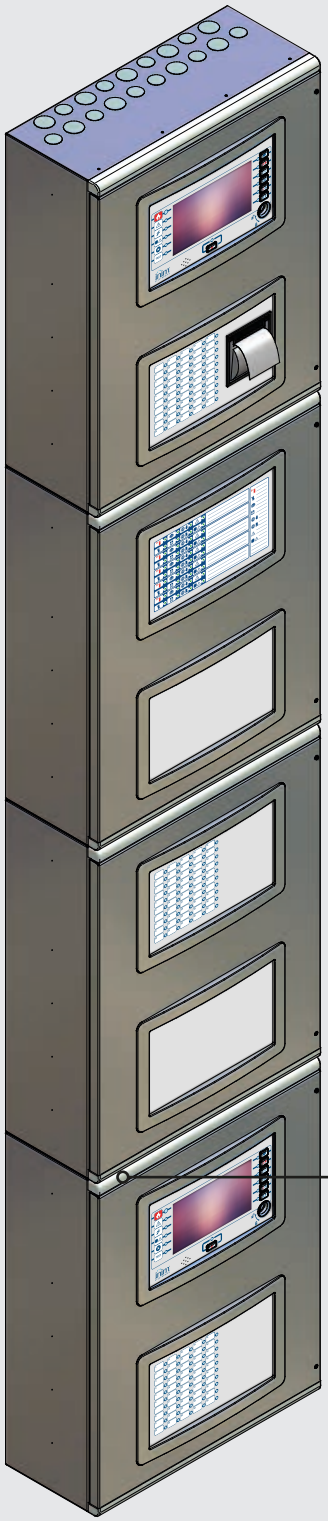
IFM24160 (Max 4)	Power supply module.
IFM2L (Max 8)	Module for the management of two ring circuits for devices distributed in the protected area, commonly referred to as a LOOP.
IFM4R (Max 16)	4 Programmable relay module.
IFM4IO (Max 16)	4 supervised power Input/Output module.
IFMDIAL (Max 1)	PSTN and GSM line dialler module.
IFM16IO (Max 4)	16 low-power Input/Outputs module.
IFMNET (Max 1)	Control panel to Hornet+ network connection module.
IFMLAN (Max 1)	Advanced TCP-IP service management module (Video verification, Web Interface Web, electronic mail etc.)
IFMEXT (Max 24)	Gas extinguishment-system management module.

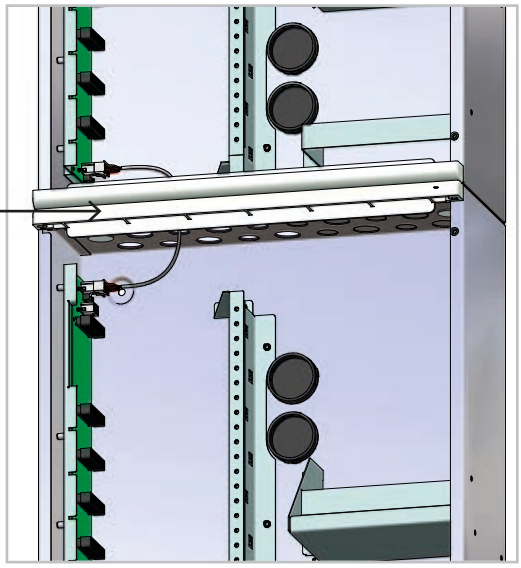
The first position at the top of the CAN DRIVE bar is for the IFM24160 power supply module (essential for the proper functioning of the control panel). The remaining 7 connectors can be used for the connection of any of previously mentioned modules (the maximum number at the side of each module refers to applications with several cabinets).



Multi-cabinet control panels

Several cabinets (Max. 4) can be joined together in order to form an increased-sized cabinet and expand the capacity of a control panel. The cabinets can be assembled together using the supplied mounting screws and once assembled the CAN DRIVE bars can be connected together by means of the suppled wire. The assembled cabinets provide respective number of housings for the frontplate and CAN DRIVE bar modules. Each cabinet can house a IFM24160 power-supply module. A control panel with more than one IFM24160 power-supply module is capable of managing a current equal to the sum of the maximum currents of its power-supply modules. The power-supply modules will share the load current automatically.

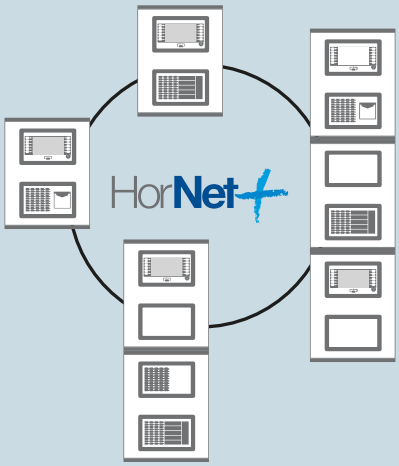




Control panel network

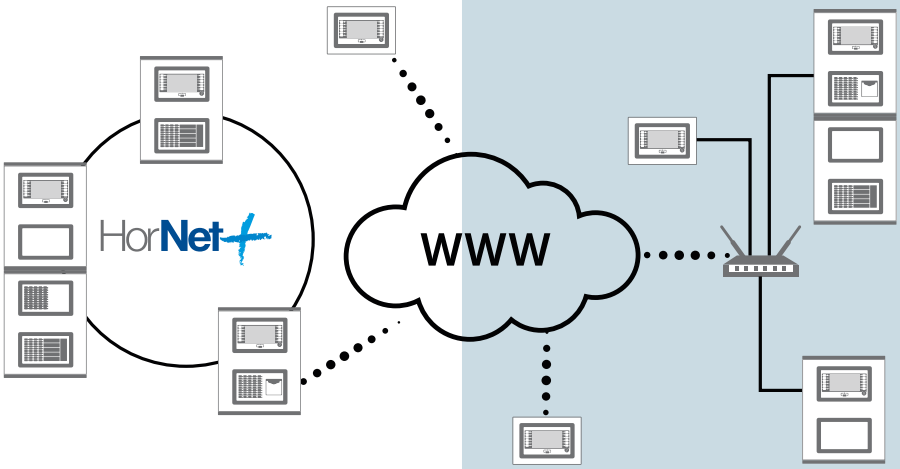
Control panel in a Hornet network+

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, it is necessary to install an IFMNET module in each control panel, this module provides two RS485 ports for the ring connection.



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 (FPM-CPU unit configured as a remote keypad).



base control panel

PRAESIDIA216

PRAESIDIA216

Each installation must start from a base control panel to which, where necessary, can be added function modules, cabinets and accessory devices.

Analogue addressable control panel with networking capability for automatic fire detection and alarm signalling systems, configuration of the base control panel:

Metal cabinet
N°1 FPMCPU module - control unit with display
N°1 IFM24160 – 4A power-supply modules with built-in battery charger
N°1 IFM2L – 2 loop management module

PRAESIDIA216R
As per PRAESIDIA216 but comes in red cabinet.

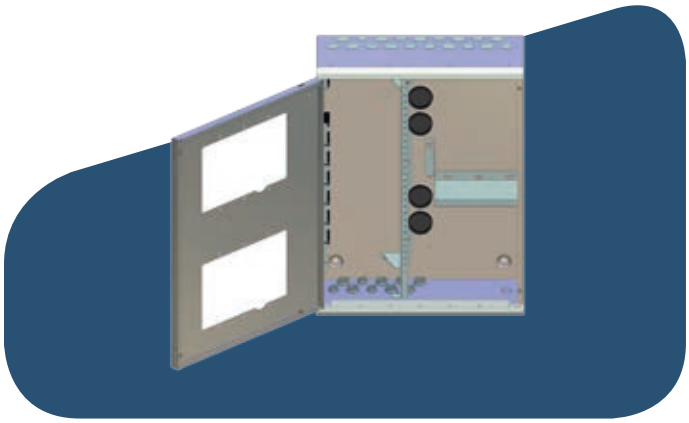
accessory devices

A vast selection of accessory items and devices allows easy expansion of the control panel (Add-on cabinets) or assembly of installations in accordance with wiring needs.

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).

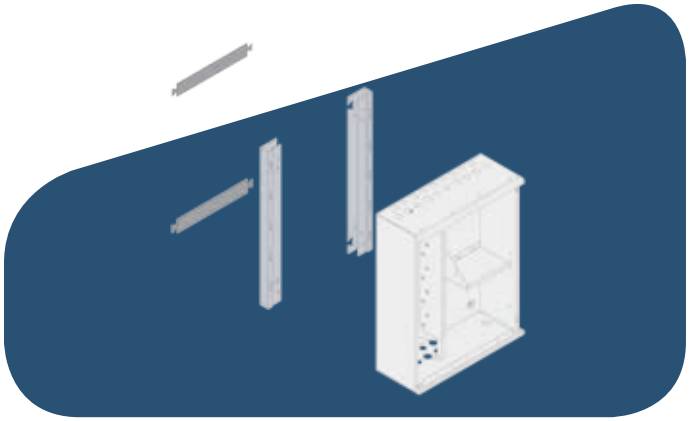
PRCABR
Cabinet as per item PRCAB but in red.



PRCABSP

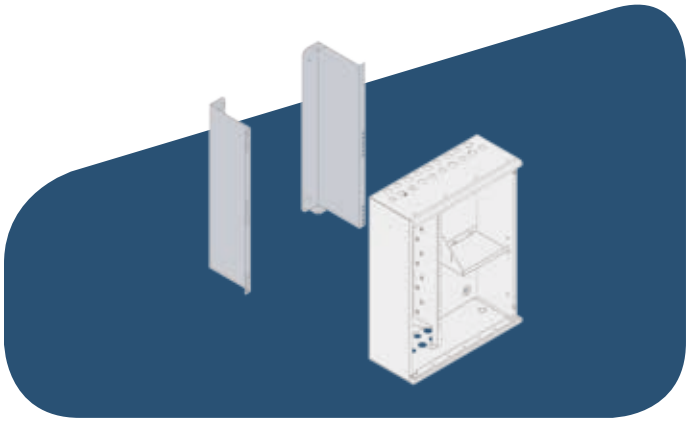
Pair of brackets for mounting the cabinet away from the wall. This accessory item provides a 5cm space for the passage of cables between the back of the cabinet and the wall it is attached to.

PRCABSPR
As per item PRCABSP but in red.



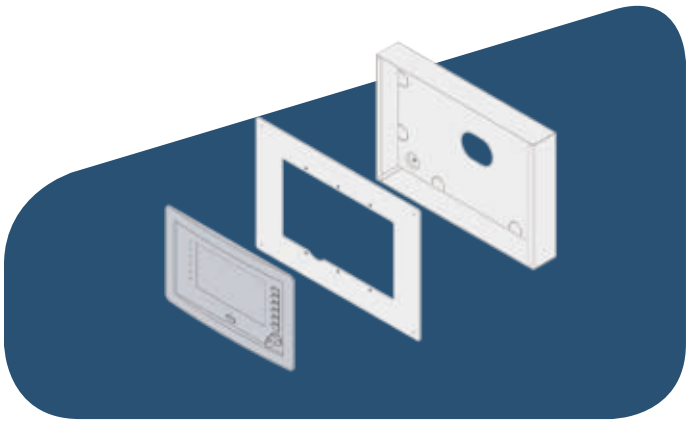
PRCABRK

Bracket for mounting the cabinet to a 19' rack.



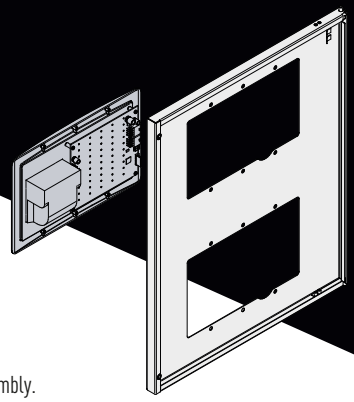
PRREP

Enclosure for mounting FPMCPU module as remote repeater Comprises a brushed aluminium plate and a metal backbox, can be wall or surface mounted.



FPM modules

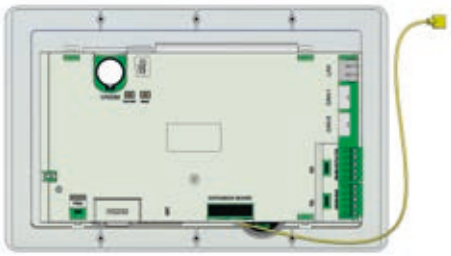
The modules from the FPM series are housed on the cabinet frontplate, maximum of 2 per cabinet.



FPM module assembly.

FPMCPU

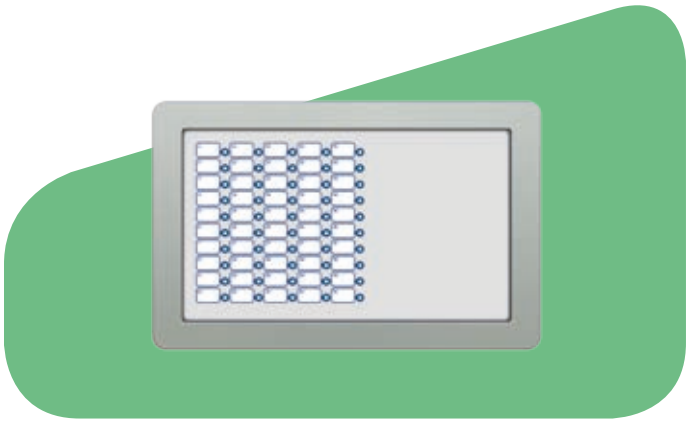
Main control unit for Praesidia control panels. To be connected to the CAN DRIVE bar inside the metal cabinets and equipped with a graphic colour touchscreen. This device manages the control panel and co-ordinates the various function modules.
A single Praesidia control panel can house 2 of these units (a main unit and a secondary unit as backup).
Mounts to the frontplate and, if housed in the upper opening, connects to the CAN DRIVE bar. If housed in the lower opening, it connects to the FPM module in the upper opening.



Provides the following connections:
Ethernet connection for networking and remote control.
RS485 channel for repeaters (FPMCPU used as remote keypads- max. 16).
RS485 channel for interfacing with Building Management Software, supports MODBUS RTU protocol.
Mini USB Port for configuration via PC.
RS232 Port for configuration via PC.

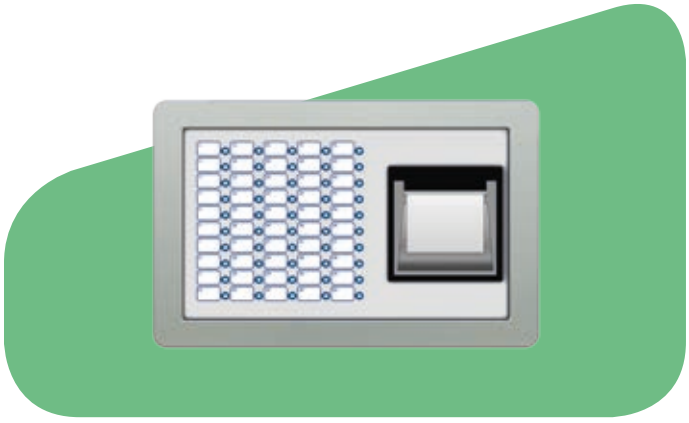
FPMLED

Module equipped with 50 configurable tri-colour LEDs (green, yellow and red), provided instant visual signals regarding the status of the various system elements (zones, points, etc.). Mounts to the frontplate and, if housed in the upper opening, connects to the CAN DRIVE bar. If housed in the lower opening, it connects to the FPM module in the upper opening.



FPMLEDPRN

Module equipped with 50 tri-colour LEDs as per the FPMLED module and an 80mm printer, it provides real-time printouts of the events. Mounts to the frontplate and, if housed in the upper opening, connects to the CAN DRIVE bar. If housed in the lower opening, it connects to the FPM module in the upper opening.

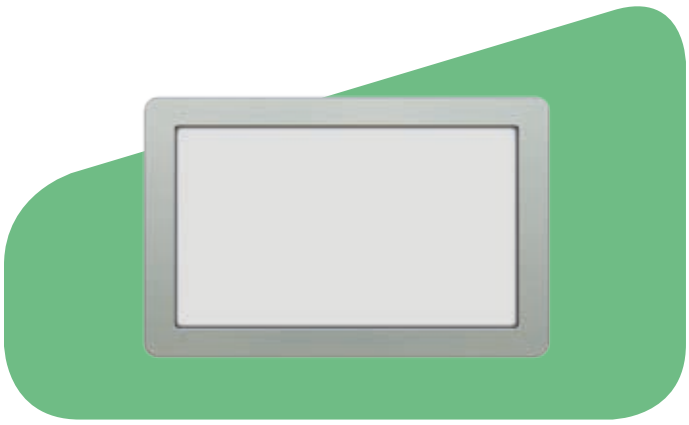


FPMEXT

LED signalling module for fire extinguishment systems If IFMEXT function modules are housed inside the control panel, the use of one or more FPMEXT modules is compulsory as visual indication of the extinction status, other than that on the display, must be provided. Each FPMEXT module provide the indications of 5 IFMEXT extinguishment modules. Mounts to the frontplate and, if housed in the upper opening, connects to the CAN DRIVE bar. If housed in the lower opening, it connects to the FPM module in the upper opening.

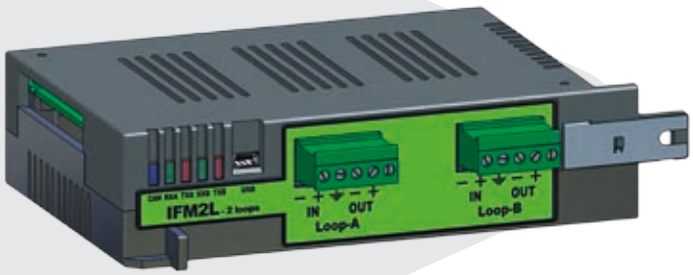
FPMNUL

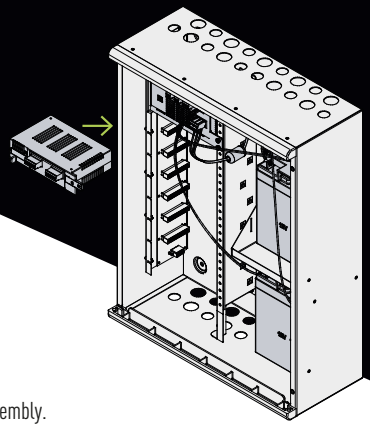
Blind module to be used to seal the apertures on the doors of the metal cabinet when certain functions are not required.



IFM function modules

IFM series modules connect to the CAN DRIVE bar on the inside of the cabinets (max. 8 IFM modules per cabinet) depending on the required functions.





IFM module assembly.

IFM24160

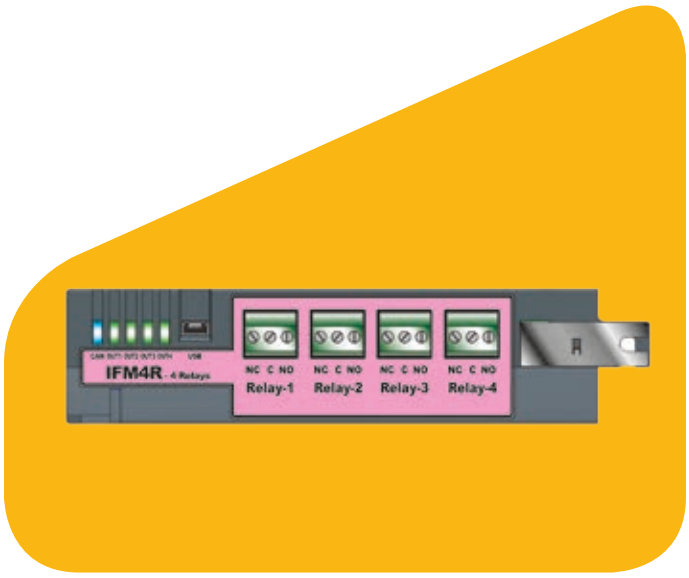
Switching power-supply module Connects to the mains power supply and supplies a maximum 4A current to the system. Houses a 1.5A battery charger capable of maintaining under charge two 17Ah or 24Ah batteries. Offers two supervised outputs and a configurable relay output (at factory default configured as Alarm output, AUX output and fault signalling relay). Accepts 220Vac or 110 Vac 50/60 Hz input Each metal cabinet is capable of housing one power-supply module only, each control panel is capable of managing up to 4 power-supply modules (one per cabinet).

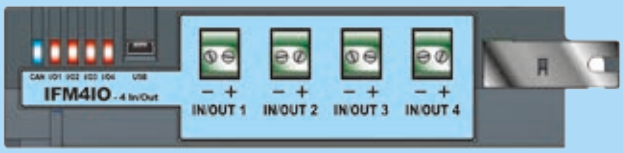
IFM2L

Module for the management of two loops Each loop is capable of managing 240 devices. 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.

IFM4R

4 configurable relay module Each relay supports a maximum load of 5A@MAX 30V.
Each control panel manages a maximum of 16 IFM4R.





IFM4IO

4 power input/output module. Each of the 4 channels can be configured as:

Supervised output capable of erogating a maximum current of 1A@27.6V, 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.
4-20mA input capable of reading 4-20mA detector signals; settable intervention thresholds; configurable.

Each control panel can manage a maximum of 16 IFM4IO modules

IFMDIAL

Remote dialler module communicates over PSTN landline and GSM network, 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.

IFM16IO

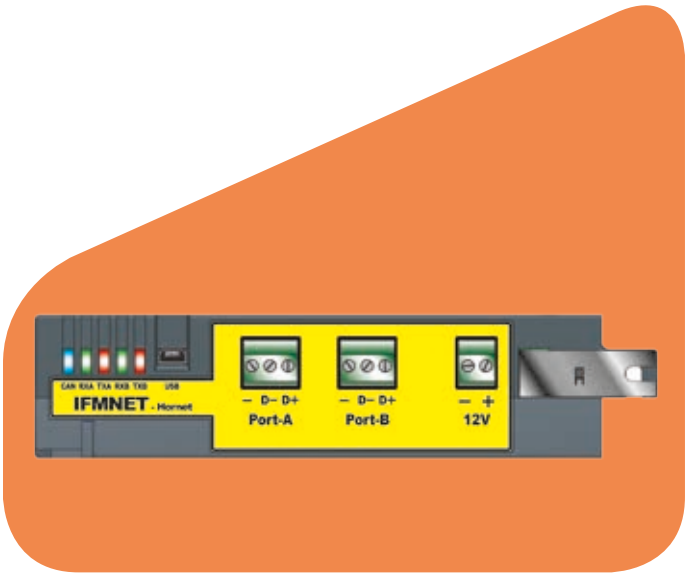
16 low-power Input/Outputs module. Each channel can be configured as:

Digital input (non supervised) activated with voltage present.
Digital output (non supervised) capable of supporting a maximum load of 100mA@30Vdc.

Each control panel is capable of managing up to 4 IFM16IO modules.

IFMNET

Control panel to Hornet+ network connection module for the connection of one or more control panels in a Hornet+ network, up to a maximum of 48 This module provides two RS485 ports for connection to other control panels; the wiring is completed as closed ring. RS485 speed settable from 9600 to 512k baud, a 12V output is provided for the power supply to eventual RS485 fiber-optic converters. Each control panel manages one IFMNET module only. All the interconnected control panels in the network must be equipped with an IFMNET module.

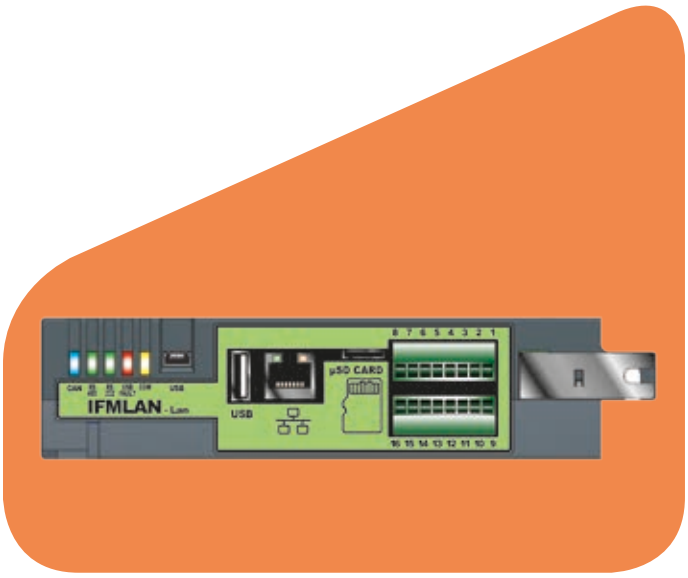


IFMLAN

Advanced TCP-IP service management module
Allows a second control panel connection to the Ethernet network and provides the following services:

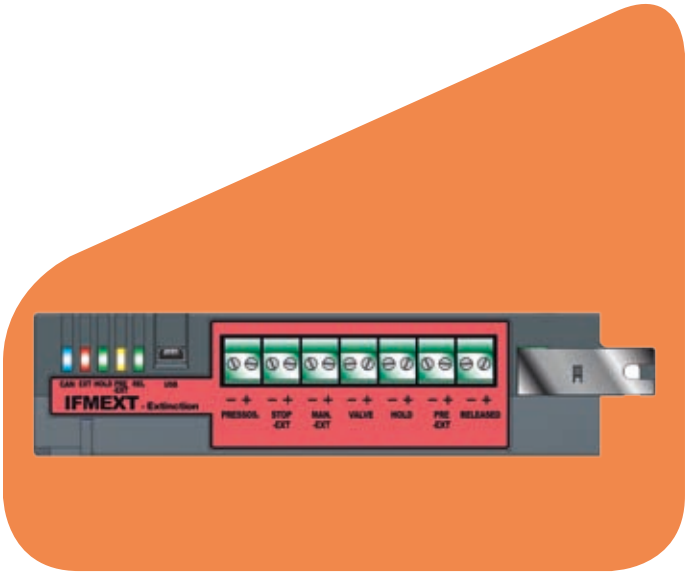
- Web Server for system control, management and maintenance.
- Emails containing events details.
- IP ONVIF camera interface for video verification.
- Remote communications via SIA-IP protocol.

Each control panel can manage one IFMLAN module only.



IFMEXT

Gas extinguishment-system management module
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 the 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.



ENEA

Addressable analogue detector

EN 54-7 EN 54-3
EN 54-5 EN 54-17
EN 54-11 EN 54-18

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.
Thanks to INIM's leading-edge LoopMap technology, you can now connect to the control panel by means of a computer or EDRV1000 driver and reconstruct the exact installation topology and obtain an easy-to-use, interactive loop layout map which greatly simplifies and speeds up searches relating to faults and maintenance work.
These detectors have passed - with flying colours - all the tests taken at the LPCB test facility, the prestigious English certification service. And, thus hold the right to use this mark in addition to the obligatory CPD certification for the commercialization of fire detectors.

main features

- Newly designed optical chamber with sealed upper-part and 500 µm holes diameter mesh insect screen.
- Tricolour LED: Red for alarm; Green flash for standby (optional) and for identification after manual activation from the control panel; Yellow for trouble (fault or high level of contamination in the optical smoke chamber).
- Integrated short-circuit isolator.
- Up to 240 devices connectable to the loop.
- Automatic addressing (each device is identified by a factory-assigned serial number).
- Supervised remote output configurable from the control panel.
- Automatic recognition of remote signaller connection.
- Drift compensation for sensor drift caused by dust in the chamber.
- Sensitivity selection for smoke and heat thresholds.
- Operating mode selection (for ED300 version): Only smoke; Only Heat; AND mode; OR mode; Plus mode.
- Complete Diagnostics: view the contamination level in the optical chamber and verify real-time values.
- Memory of the smoke and temperature levels measured in the five-minute period prior to the last alarm detected.
- Vast range of options.
- Bypass plate on base guarantees continuity in the event of removal of the detector from the line.

Parameter	ED100	ED200	ED300
Operating voltage	19-30 Vdc		
Consumption during standby	200 uA		
Consumption during alarm	Max 10 mA		
Sensitivity	0.08 – 0.10 – 0.12 – 0.15 dB/m	A1R (58°C + RoR) – B (72°C) – BR(72°C + RoR) – A2S (58°C)	0.08 – 0.10 – 0.12 – 0.15 dB/m --- A1R (58°C + RoR) – B (72°C) – BR(72°C + RoR) – A2S (58°C) --- AND –OR – PLUS Mode
Operating temperature	-5°C + 40°C		
Height including base	46mm	54mm	
Diameter	110mm		
Weight (with base)	160g		
Weight (without base)	90g		

ED100
Optical smoke detector

The ED100 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.
The sensitivity can be configured to suit a wide range of applications (sensitivity configurable as: 0.08dB/m; 0.10dB/m; 0.12dB/m; 0.15dB/m).

ED200
Heat detector

The ED200 heat detector can be configured in the following modes: A1R mode (fixed threshold at 58°C with thermovelocimetric detection); B mode (fixed threshold at 72°C); A2S mode (fixed threshold at 58°C); BR mode (fixed threshold at 72°C with thermovelocimetric detection).
As a result of high flexibility, this detector is useful in places where the environment is dusty or smoky and the risk of false alarms is high.

EN 54-7 EN 54-3
EN 54-5 EN 54-17
EN 54-11 EN 54-18

ED300
Smoke and Heat detector

The ED300 smoke and heat detector has new smoke and temperature sensing technologies.
As a result, this improved reliability detector responds well to all types of fires (especially to fast burning blazing fires involving inflammable liquids, which produce a limited amount of smoke) and is highly immune to false alarms. The ED300 can be set to the sensitivity mode which best suits the application:

Plus Mode (set at factory)	The detector will trigger an alarm when the measured values exceed the set smoke threshold (configurable as per the ED100), or when the measured values exceed the set heat threshold (configurable as per the ED200). Furthermore, in the event of a rise in temperature, the smoke detection sensitivity will be taken to the maximum value. This operating mode, characterized by high sensitivity allows detection of fast burning blazing fires (for example, fires involving inflammable liquids such as alcohol).
OR Mode	The detector will trigger an alarm when the measured values exceed the set smoke threshold (configurable as per the ED100), or when the measured values exceed the set heat threshold (configurable as per the ED200). 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 (configurable as per the ED100 and ED200) are exceeded at the same time. 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

EB0010 Detector base	Detector base accommodates IRIS and ENEA series detectors, equipped with short-circuit plate which ensures continuity in the event of removal of the detector from the line.
EB0020 Relay base	elay base with a single relay which activates when the detector senses an alarm. The relay base allows you to interface the detector with intrusion control panels in domestic applications.
EB0030 Deep base	Mounting base for Enea and Iris detectors with pipes entry, 4 knock out for 16mm pipes. To be installed under EB0010 or EB0020 mounting bases, h 34 mm.
EB0040	Base protected against dripping water when tilted up to 15 degrees max.
EB0050	Spacer for EB0010 Mounting base, create a 10mm GAP under detector's base for cable entry.
EB0060	Mounted base with integrate buzzer driven by "R" output.

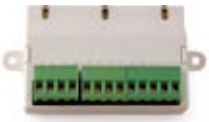
Black plastic and wood-look enclosures available on request for quantities.

EM312SR Input output module

The EM312SR connects directly to the loop and is equipped with a supervised input (capable of controlling the status of external devices), a supervised output (capable of driving of one or more audible/visual signalling devices) and a voltage free output (capable of driving all types of external devices, for example, electromagnets, etc).

- 1 supervised input
- 1 supervised output
- 1 supervised imput for external power supply
- 1 voltage free output
- Built-in short circuit isolator
- 3 multicolour LEDs for input/output/isolator status signalling
- Automatic addressing (each device is identified by a factory-assigned serial number)

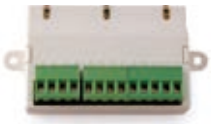
EM110 Input module



The EM110 connects directly to the loop and is equipped with a supervised input (capable of controlling the status of external devices).

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

EM411R Conventional zone interface module



The EM411R zone interface connects directly to the loop and allows conventional zones (maximum 32 devices) to be interfaced to INIM's addressable analogue systems.

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

NB: not approved for EU market.

NB: not approved for EU market.

EN 54-7 EN 54-3
EN 54-5 EN 54-17
EN 54-11 EN 54-18

EU311 Micromodule

The EU311 MicroModule, due to its reduced-size, can be housed directly inside the enclosure of the device it controls (callpoint, sounderflasher, beam detector, etc.), it connects directly to the loop and is equipped with a supervised input (capable of controlling the status of a device), a loop-powered output (capable of driving of one audible/visual signalling devices).

- 1 supervised input
- 1 loop-powered output
- Built-in short-circuit isolator
- Automatic addressing (each device is identified by a factory-assigned serial number)

	EM312SR	EU311
Operating voltage	19 – 30Vdc	19 – 30Vdc
Consumption during standby	80 uA	80 uA
Consumption during alarm	20 mA	20 mA
Height	53 mm	37 mm
Width	100 mm	40 mm
Depth (including terminals)	29mm	15mm
Weight	66 g	15 g

EM3xx Multi Input/output module andconventional line interface

The module is connected directly to Loop and provide up to 4 input and 4 output according to model (refer to table). In the versions with 4 inputs 2 of them can be configured as conventional line interface powered from loop or from a local power supply. The 4 outputs, according to model, can be supervised for sounder control or voltage free contacts.

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)

EC0010E Manual callpoint for outdoor installation (IP67)

- Addressable callpoint
- Manual callpoint with resettable element. Weatherproof to IP67, suitable for outdoor installation.

EC0020 Manual callpoint

- Manual callpoint with resettable element operated by plastic key (included).
- Warning flag and LED confirm activation.

Suitable to use with WCP0020 (transparent plastic screen against accidental activation) and FCP0020 (Plstic bracket for flush mounting, adaptable to UK single gang back box). DBCP0020 – Deep box for external pipe fitting (base h = 33mm; base + callpoint h = 57mm).

ESB010 Sounder base

To be installed under EB0010 mounting base. It connects to the remote output of the detector and is powered directly through the loop. The conditions of activation can be configured from the control panel.

Sound output @ 1m:	Tones:	Operating voltage:	Current consumption:
Up to 95dBA (adjustable)	32 selectable	17 – 60Vdc	2 -7mA (depending on tone)

ESB020 Sounder base and beacon

To be installed under EB0010 mounting base. It connects to the remote output of the detector and is powered directly through the loop. The conditions of activation can be configured from the control panel.

Sound output @ 1m: Up to 95dBA (adjustable)	Tones: 32 selectable	Operating voltage: 17 – 60 Vdc	Current consumption: 8 mA

IL0010 Remote indicator

Remote fire-warning indicator.

NB: not EN 54-23 approved.

EN 54-7 EN 54-3
EN 54-5 EN 54-17
EN 54-11 EN 54-18

ES0010RE and ES0010WE
Addressable loop-powered sounder unit in red and white enclosure

The loop-powered ES0010RE connects directly to the loop. Weatherproof to IP67, suitable for outdoor installation.

Sound output @ 1m: Up to 106dBA (adjustable)	Operating voltage: 9 – 60 Vdc
Tones: 32 selectable	Current consumption: 4-41mA (depending on tone)

ES0010RE and ES0010WE
Addressable loop-powered sounder unit in red and white enclosure

The loop-powered ES0010RE connects directly to the loop. Weatherproof to IP67, suitable for outdoor installation.

Sound output @ 1m: Up to 106dBA (adjustable)	Operating voltage: 9 – 60 Vdc
Tones: 32 selectable	Current consumption: 4-41mA (depending on tone)

ES0120 Loop Powered Visual Sounder alarm indicator

Sounder-Beacon with EN54-23 approved visual indication, Loop powered, IP65 protection rating.

Sound output @ 1m: 97 dB(A)	Power consumption: 25 mA flash @0.5Hz | 45 mA flash @ 1Hz
Tones: Selectable by DIP Switch	Operating tempearture: -25°C / +70°C
Power consumption: 25 mA flash @0.5Hz | 45 mA flash @ 1Hz	Coverage pattern according to EN54-23: W-3.1-11.3 * | C-3-15 *

*Depending on "WALL" or "CEILING" version.

order codes

ES0120RE: sounder/beacon red, for WALL mounting installation.
ES0120REC: sounder/beacon red, for CEILING mounting installation.
ES0120WE: sounder/beacon white, for WALL mounting installation.
ES0120WEC: sounder/beacon white, for CEILING mounting installation.

ES0020RE and ES0020WE Addressable loop-powered sounder/beacon unit in red and white enclosure

The loop-powered ES0020RE connects directly to the loop. Weatherproof to IP67, suitable for outdoor installation.

Sound output @ 1m: Up to 106dBA (adjustable)	Current consumption: 4-41mA (depending on tone)
Tones: 32 selectable	Sounder Current consumption: 5 mA
Operating voltage: 17 – 60 Vdc	

NB: not EN 54-23 approved.

ES0140 Loop Powered Visual alarm indicator

Beacon with EN54-23 approved visual indication, Loop powered, IP65 protection rating.

Power consumption: 20 mA flash @0.5Hz / 40 mA flash @ 1Hz	Coverage pattern according to EN54-23: W-3.1-11.3 * / C-3-15*
Operating temperature: -25°C / +70°C	*Depending on "WALL" or "CEILING" version.

order codes

ES0140RE: red beacon, for WALL Mounting installation.

ES0140REC: red beacon, for CEILING Mounting installation.

ES0040RE Addressable Led Beacon red - Deep Base

High efficiency LED beacon, Loop Powered (Enea Protocol).

Protection rating: IP66	Weight: 250 g
Current consumption: 5 mA	Dimensions: Ø 98 mm h 104 mm
Operating temperature: -25°C .. +70°C	

NB: not EN 54-23 approved.

EN 54-7 EN 54-3
EN 54-5 EN 54-17
EN 54-11 EN 54-18

ESS022 Addressable warning sign

Visual/Audible alarm sign with certified EN54-3 audible signal capability and certified EN54-23 visual signal capability. The sign comprises an EM312SR module. It must be connected to the loop and a 24Vdc power source. As well as activating warning signals, this device provides an input for a conventional alarm button and a relay for the control of an electromagnetic stop. It is a cost-efficient solution for the complete control of a Fire Exit (REI Door).

Sound output @ 1m: 92 dB	Dimensions: 293 x 130 x 75mm
Light output: EN54-23 W4,6-9,1	Current consumption: 50 mA

ESS021 Addressable warning sign

Visual/Audible alarm sign with certified EN54-3 audible signal capability. The sign comprises an EM312SR module, it must be connected to the loop and to a 24Vdc power source. This device, as well as activating warning signals, provides an input for a conventional alarm callpoint and a relay for the control of an electromagnetic stop. The ESS021 provides a cost-efficient solution for the complete control of a fire exit (REI Door).

Sound output @ 1m: 87dB(A)	Dimensions: 320x140x68mm
Operating voltage: 11 – 28 Vdc	Current consumption: 100 mA

GAS DETECTORS

A wide range of gas detectors, directly interfaced over the loop, is available. For details please refer to Inim's fire detection general catalogue.

HARPER

A wide range of emergency and signalling luminaires, directly interfaced over the loop, is available. For details please refer to the Harper emergency lighting general catalogue.

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REV1.00-20160229

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