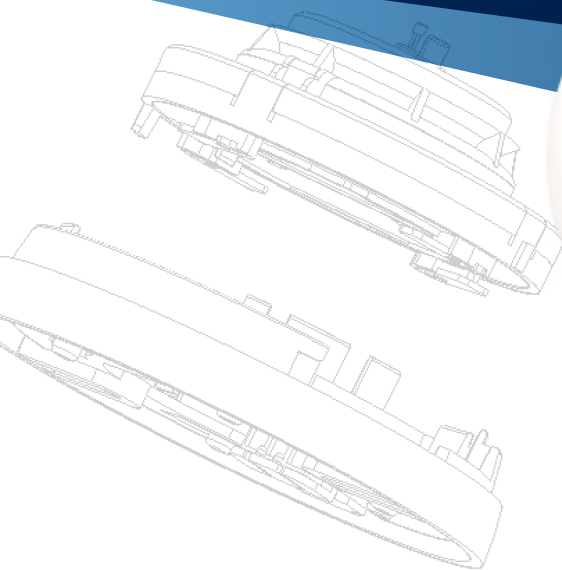


# IRIS. ENEA.

The future of detection.



ISO 9001  
FM 530352



The new Iris and Enea fire detection systems are fruit of the expertise of INIM's flexibility-minded R & D professionals. Certified Advanced Technology you can rely on.



VERSA<sup>+</sup>



## IRIS CONVENZIONAL DETECTORS. FLEXIBILITY AT ITS BEST.

Iris series detectors change the conventional into the non-conventional.

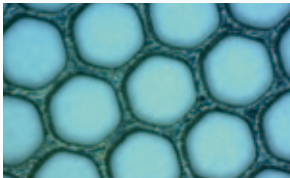
They provide the ease-of-use of conventional detectors yet, at the same time, offer a series advanced functions that until today were provided only by the most sophisticated analogue-addressable systems. Thanks to new generation technology, these detectors are capable of ensuring unequalled reliability and a high immunity to false alarms. The ground-breaking Versa++ technology, embedded in Iris series detectors, allows you to configure individual detectors to suit their specific environments. You can also connect directly to the detector line for a complete diagnosis of each device and thus test its operating capacity, verify its real-time values, read the contamination level in the optical smoke chamber and change its sensitivity and operating mode. Each detector has a non-volatile memory which allows you to read the smoke and temperature levels measured in the period prior to the last alarm detected.

### Quality Certification

As a result of this excellence in technology, the Iris system has passed all the tests taken at the LPCB test facility, the prestigious English certification service and, in addition holds CPD certification for the commercialization of fire detectors.

### Main features

- Newly designed optical chamber with sealed upper-part and 500 micron mesh insect screen
- Bicolour LED for alarm, standby (optional) and trouble
- 5 Operating mode selection for low, medium or high sensitivity to smoke and/or temperature
- Complete Diagnostics and verify of real-time values
- Memory of the smoke and temperature levels measured in the five-minute period prior to the last alarm detected
- Bypass plate on base guarantees continuity in the event of removal of the detector from the line.



500 µm holes diameter mesh insect screen

### ID100 OPTICAL SMOKE DETECTOR

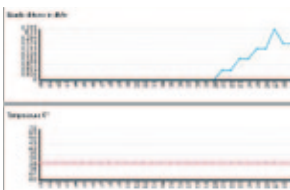
The ID100 optical smoke detector is based on the Tyndall effect (diffusion of light) and provides first-rate early warning in the event of fire. It offers wide-spectrum detection of smoke particles generated by the majority of fires. The newly designed optical chamber with sealed upper-part and 500 mesh 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; 0.12dB/m; 0.15dB/m).

### ID200 HEAT DETECTOR

The response characteristics of the ID200 heat detector have been carefully set in A1R mode (fixed threshold at 58°C with thermovelocimetric detection). However, it can be set (by means of EDRV1000 driver) to operate in B mode (fixed threshold at 72°C); in A2S mode (fixed threshold at 58°C); in BR mode (fixed threshold at 72°C with thermovelocimetric detection). As a result of such flexibility, this detector is useful in places where the environment is dusty or smoky and the risk of false alarms is high.

### ID300 SMOKE AND HEAT DETECTOR

The ID300 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 ID300 can be set to the sensitivity mode which best suits the application (by means of EDRV1000 driver) among the following: PLUS, AND, OR, SMOKE, TEMPERATURE.



Smoke and temperature graph

Parameter	ID100	ID200	ID300
Operating voltage		10-30 Vdc	
Consumption during standby	90 µA	70 µA	90 µA
Consumption during alarm		Max 40 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) ----- Modalità AND – OR – PLUS
Operating temperature		-5°C + 40°C	
Height including base	46mm		54mm
Diameter		110mm	
Weight (with base)		160g	
Weight (without base)		90g	

## ENEA SERIES ANALOGUE-ADDRESSABLE DETECTORS



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

Enea series detectors provide the future of detection, today.

Thanks to new generation technology, Enea is certainly the most advanced fire detection system currently available on the market. This system is capable of ensuring unequalled reliability and a high immunity to false alarms.

Now you can configure a vast number of parameters directly from the control panel and view interactive maps of the system. Advanced technology combined with extraordinary simplicity with you in mind.

### Advanced functions

LoopMap is the maximum loop technology can offer. Via a PC connected to the control panel or the loop-driver device, you can view an interactive map which reconstructs the topology of the system in detail. This function greatly simplifies and speeds up faults searches and system maintenance sessions: an enormous benefit for the installer company and the end user.

### Quality Certification

As a result of this excellence in technology, the Enea system has passed all the tests taken at the LPCB test facility, the prestigious English certification service and, in addition holds CPD certification for the commercialization of fire detectors.

### Main features

- Newly designed optical chamber with sealed upper-part and 500 micron mesh insect screen
- 3-colour LED for alarm, identification and trouble
- Up to 240 devices connectable to the loop.
- Automatic addressing and Integrated short-circuit isolator
- 5 Operating mode selection for low, medium or high sensitivity to smoke and/or temperature
- Complete Diagnostics and verify of real-time values
- Memory of the smoke and temperature levels measured in the five-minute period prior to the last alarm detected
- Bypass plate on base guarantees continuity in the event of removal of the detector from the line

### ED100 OPTICAL SMOKE DETECTOR

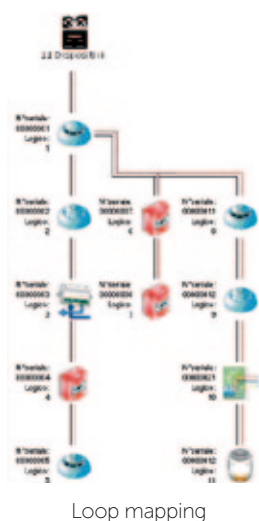
The ED100 optical smoke detector is based on the Tyndall effect (diffusion of light) and provides first-rate early warning in the event of fire. It offers wide-spectrum detection of smoke particles generated by the majority of fires. The newly designed optical chamber with sealed upper-part and 500 mesh 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

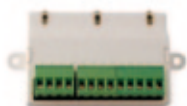
The ED200 heat detector can be configured in the following modes: A1R mode (fixed threshold at 58°C with thermovelocimetric detection); B mode (fixed threshold at 72°C); A2S mode (fixed threshold at 58°C); BR mode (fixed threshold at 72°C with thermovelocimetric detection). As a result of high flexibility,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

### 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 (by means of EDRV1000 driver) among the following: PLUS, AND, OR, SMOKE, TEMPERATURE.

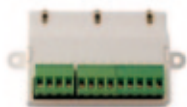


Parameter	ED100	ED200	ED300
Operating voltage		19-30 Vdc	
Consumption during standby		200 uA	
Consumption during alarm		Max 10 mA	
Sensitivity	0.08 – 0.10 – 0.12 – 0.15 dB/m	A1R (58°C + RoR) – B (72°C) – BR(72°C + RoR) – A2S (58°C)	0.08 – 0.10 – 0.12 – 0.15 dB/m A1R (58°C + RoR) – B (72°C) – BR(72°C + 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	



### 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).



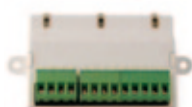
### EM110 INPUT MODULE

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



### 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).



### 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).

### EM3xx MULTI INPUT/OUTPUT MODULE AND CONVENTIONAL 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)



### EC0010 MANUAL CALLPOINT

- Addressable callpoint
- Manual callpoint with resettable element operated by plastic key (included).
- Warning flag confirms activation
- No broken glass



### 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.



### ES0020RE ADDRESSABLE LOOP-POWERED SOUNDER UNIT IN RED ENCLOSURE

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



### EITK1000 TOOL FOR CONFIGURATION, MAINTENANCE AND DIAGNOSTICS

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