



# Fire and CO detection

CATALOGUE **JANUARY 2016**



SISTEMAS DE SEGURIDAD



## Analogue addressable fire detection

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**Sistemas de Seguridad Mira, S.L.** focuses on the **design, development and manufacture of advanced components for fire detection systems**. To secure this end, our team that has over 25 years experience, is highly motivated to offer leading-edge products to our customers.

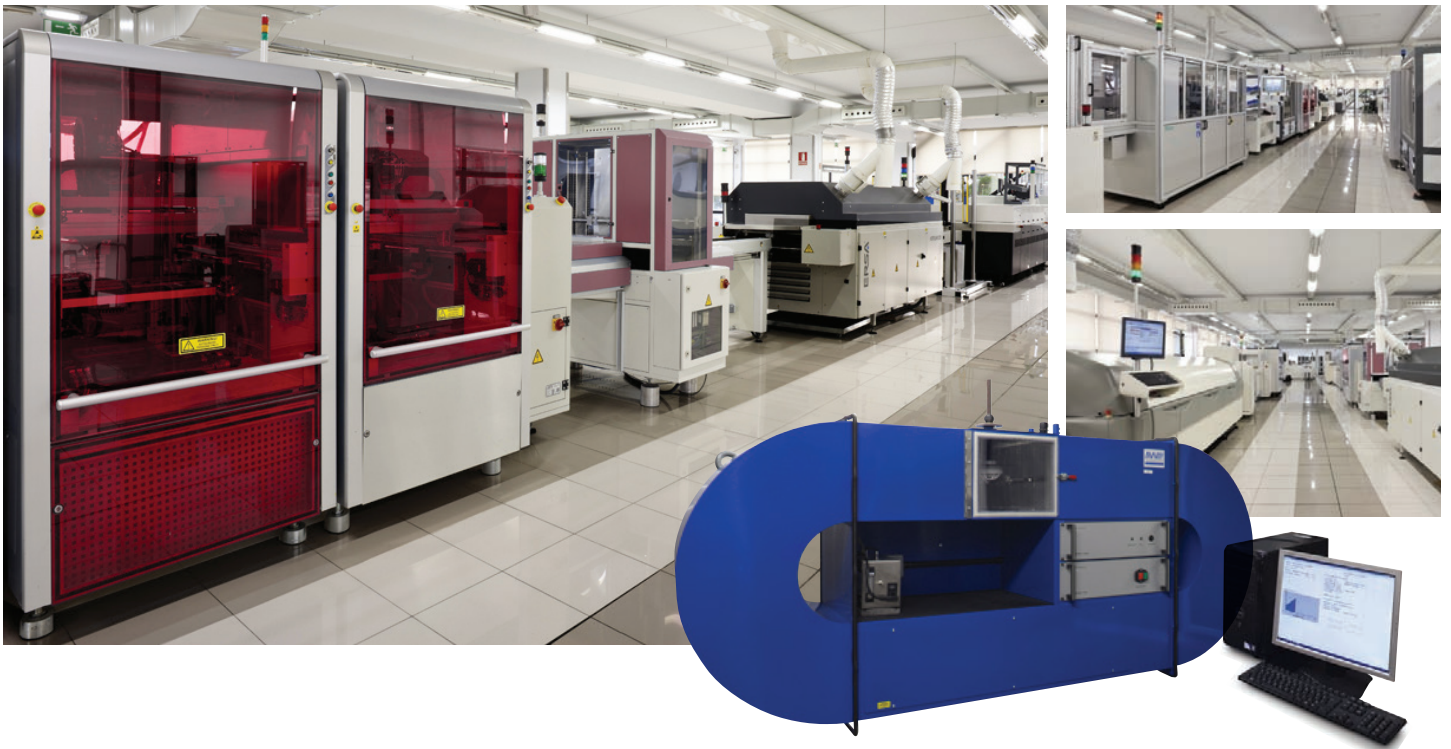
### Our philosophy

Aware of the importance of choosing a good equipment, we want to offer installers a reputable product in daily practice, with the best quality - price rate taht we can offer.

So, focusing our efforts on the design and manufacture, we leave other superfluous matters to be resolved with austerity, allowing installation professionals and distributors to give products a larger presence in the market because they are "Competent and Competitive"

### Reliability

S.S .Mira has all the technical means available for the development and the design of devices such as Test and Analysis Tunnels for detectors, as well the most advanced in the fields of electronics, robotics and automated controls, thus ensuring the highest quality and reliability in all products.





## MIRA M450A analogue fire detection system

The MIRA M450A analogue addressable detection system has been developed to suit buildings of various types and sizes due to its flexibility and its low cost.

Belonging to a new generation of systems, it includes the latest trends in analogue detection and management of fire alarms.

Its easiness of programming and addressing via a touch-sensitive screen and its reduced installation requirements, allows significant savings in time and costs, as well as a control and operation efficient and durable.

### Most relevant features:

- 3,5" touch sensitive screen with deployment of full QWERTY keypad.
- Full programming and configuration without PC.
- Ability to view the loop map and a floor plan of the building on the screen.
- Up to 120 addressable devices per loop, sounders included.
- All devices can be addressed automatically or individually.
- Device Group Configuration, commands and complex functions.
- Sensitivity adjustment and drift compensation.
- Status information, voltages, battery backup, consumption, etc., at display.
- Short-circuit isolators serial included in MCPs, sounders, and field modules.
- TTL expansion output for peripherals (relays, extinguishant control card, etc.).
- Output connection for RS-485 card (panel network and repeaters).
- RS-232 output for advanced functions: PC (graphics, software, etc.) and modem (communicator).
- Loop cables up to 1,200 meters long with 2 x 0,75 mm<sup>2</sup> wires.
- Communication with the various devices on high-immunity modulated frequency.
- Supports standard 4-20 mA devices through addressable input modules.
- **EN 54 Certified.**

## MIRA M450A analogue fire detection system



Ref. <b>M451A</b>	<b>1 loop analogue addressable control panel</b> , up to 120 devices capacity. Full control and programming via 3,5" touch sensitive screen. Supervised outputs, TTL, RS232 & card RS-485 connections. Can be expanded in network. Size: 339 x 332 x 90 mm
Ref. <b>M452A</b>	<b>2 loops analogue addressable control panel</b> , up to 120 devices capacity per loop. Full control and programming via 3,5" touch sensitive screen. Supervised outputs, TTL, RS232 & card RS-485 connections. Can be expanded in network. Size: 339 x 332 x 90 mm

### ACCESSORIES

Ref. <b>M450A-R</b>	Repeater panel including touch sensitive screen and all control functions from main panel. To be connected to RS-485 card. Size: 339 x 332 x 90 mm
Ref. <b>M400TR</b>	Additional 4 relay programmable output card to be connected to TTL output in main panel.
Ref. <b>M450A-RS485</b>	RS-485 communication card for panel network and repeaters
Ref. <b>M450A-COM</b>	Data cable for PC connection (Back-up software included)

### SPARE PARTS

Ref. <b>M451A-PCBA</b>	Spare main circuit card for 1 loop M451A panel (without screen).
Ref. <b>M452A-PCBA</b>	Spare main circuit card for 2 loop M452A panel (without screen).
Ref. <b>M400FA</b>	Spare power supply for analogue M450A panels.

## Analogue fire detectors MIRA M500A



Ref. **M501A**



Analogue addressable **heat detector**. Specifically to be used where, due to airborne contamination, unwanted alarms from smoke detectors can be experienced, or where a fire with high level of energy and heat emission can be expected. Sensitivity levels controlled from panel. Led status indicator and remote indicator output. Diameter: 100 mm. EN 54-5 certified. **Base not included.**

Ref. **M500A**



Analogue addressable **optical smoke detector**. Specifically for general application by smoldering smoke analysis with optical. Sensitivity levels controlled from panel. Led status indicator and remote indicator output. Diameter: 100 mm. EN54-7 certified. **Base not included.**

Ref. **M502A**



Analogue addressable **multisensor optical – heat detector**. Provides superb risk protection detecting both smoldering smoke and free burning fires with high heat emission. Sensitivity levels controlled from panel. Led status indicator and remote indicator output. Diameter: 100 mm. EN54-5 y 7 certified. **Base not included.**

Ref. **M500Z**



**Low profile** interchangeable mounting base for M500A y M500C detector with remote indicator connector and removal protection.

Ref. **M500ZA**



**High profile** interchangeable mounting base for M500A y M500C detector with remote indicator connector and removal protection (for surface tube wiring).

## Loop-powered sounders with isolator MIRA M100A



Ref. **M100A-FI**



Addressable loop powered **indoor sounder with flashing light**. **Short-circuit isolator** included. 95 db output sound. Tone selector. Anti-panic initial function. Cable entries for surface or flush wiring. Size: 100 x 35 mm. EN-54 3-2001 certified.

Ref. **M100A -FE**



Addressable loop powered **outdoor sounder with flashing light**. **Short-circuit isolator** included. 105 db output sound. Tone selector. Anti-panic initial function. Size: 280 x 197 x 58 mm. Red color with "FIRE" text. EN-54 3-2001 certified.

## Manual call point with isolator MIRA M101A



Ref. **M101A**



Addressable **manual call point with short-circuit isolator** included. **Resettable elements and protective cover.** Semi flush or surface mounting. Led status indicator. Size: 105 x 100 x 60 mm. EN54-11 certified.

Ref. **PZE**

Accessory for flush mounting in standard casing.

## Addressable field interfaces MIRA M450A



Ref. **M450A-ES**



**Addressable input / output interface.** Loop powered and **short-circuit isolator** included. Provides a voltage free relay output (2 A a 30 V) to operate other devices like door holders, signaling equipment, elevators, and one single switch input to monitor different signals to be supervised individually by the panel, like door opening, flush detectors, other devices etc., Led status indicator. Size: 154 x 109 x 50 mm.

Ref. **M450A-C**



**Addressable conventional zone interface.** Loop powered and **short-circuit isolator** included. Allows power and operation of a zone of conventional detectors giving a collective address in the main panel. Led status indicator. Size: 154 x 109 x 50 mm.

Ref. **450A-4.20**



**Format 4-20 mA input interface.** Loop powered and **short-circuit isolator** included. Provides connection with the main system of any standard 4-20 mA format external device to be individually controlled (gas monitoring, level, pressure sensors, etc.). Led status indicator. Size: 154 x 109 x 50 mm.

Ref. **M450A-A**



**Short-circuit isolator.** Allows sensing and isolating faults on the loop avoiding the loss of devices in a short circuit event. Led status indicator. Size: 154 x 109 x 50 mm.

## Conventional fire detection MIRA M400

The M400 fire panels had been designed complying with EN 54-2&4 as a control unit for fire detection systems in small and medium sized buildings. Robust and reliable, its features allow fast, efficient installation and maintenance, simple operation and an attractive housing.



### Most relevant features:

- Microprocessor controlled and easy access code for keypad activation.
- Programmable sounders delay.
- One man test facility.
- Zones isolation possibility.
- General alarm press button for evacuation function.
- Specific indication for detector's fire alarm or manual call alarm.
- Specific indication of fire zones or sounder line faults.
- 2 supervised sounders output.
- 2 voltage free relays for fire and fault.
- Automatic resettable fuses.
- Different zones output optional module.
- RS-485 output to connect optional communication card (repeaters, communicators, etc)
- **EN 54-2 y 4 certified.**



## Conventional fire detection MIRA M400



Ref. <b>M402C</b>	<b>2 zones</b> conventional fire detection panel. Size: 281 x 231 x 98 mm. (Small size housing)
Ref. <b>M404CP</b>	<b>4 zones</b> conventional fire detection panel. Size: 281 x 231 x 98 mm. (Small size housing)
Ref. <b>M404CG</b>	<b>4 zones</b> conventional fire detection panel. Size: 339 x 332 x 90 mm. (Large size housing).
Ref. <b>M408C</b>	<b>8 zones</b> conventional fire detection panel. Size: 339 x 332 x 90 mm. (Large size housing).
Ref. <b>M412C</b>	<b>12 zones</b> conventional fire detection panel. Size: 339 x 332 x 90 mm. (Large size housing).

### ACCESSORIES & SPARE PARTS

Ref. <b>M402C-CPU</b>	Spare main circuit card for 2 zones panel.
Ref. <b>M404CP-CPU</b>	Spare main circuit card for 4 zones panel.
Ref. <b>M404CG-CPU</b>	Spare main circuit card for 4 zones panel (large size housing).
Ref. <b>M408C-CPU</b>	Spare main circuit card for 8 zones panel.
Ref. <b>M412C-CPU</b>	Spare main circuit card for 12 zones panel.
Ref. <b>M400T1</b>	RS-485 communication card to connect one panel as a repeater. (Only for large size panels)
Ref. <b>M400TR</b>	Optional 4 zone relay output card. (Only for large size panels)
Ref. <b>M400FA</b>	Spare power supply for all M400 series panels.



## Extinguishing control panels MIRA M400-EXT

The M401-EXT and M402-EXT series panels have been designed to control fire extinguishing systems un 1 or 2 different sectors with 2 or 4 different detection zones.

Designed for easy handling, installing and maintenance, they have the necessary features to allow automatic control of fire extinguishing systems with all types of agents, in an attractive format.

**EN-12094-1 Certified.**



Ref. **M401-EXT**



Ref. **M402-EXT**



Ref. **M401-EXT**

2 zones control panel for **1 sector extinguishing system**. Size: 339 x 332 x 90 mm

Ref. **M402-EXT**

4 zones control panel for **2 different sectors extinguishing systems**. Size: 339 x 332 x 90 mm



## MIRA M500 conventional fire detectors

Smoke detectors for general application in conventional systems. Innovative electronic and mechanical design with locking extraction and ease of assembly. Low power consumption. Special immunity and resistance in difficult environments.

**EN 54 Certified.**



## Conventional fire detectors MIRA M500



Ref. <b>M501PK</b>	<b>Rate of rise heat detector</b> with static response (57°C), with low power consumption. Led status indicator. Diameter: 100 mm. EN 54-5 certified. <b>High profile base included</b> , without remote led indicator output.
Ref. <b>M501C</b>	<b>Rate of rise heat detector</b> with static response (57°C), with low power consumption. Led status indicator and remote led indicator output. Diameter: 100 mm. EN 54-5 certified. <b>Base not included.</b>
Ref. <b>M500C</b>	<b>Optical smoke detector (photo-electric)</b> with low power consumption. Self-checking and chamber maintenance signaling. Led status indicator and remote led indicator output. Diameter: 100 mm. EN 54-7 certified. <b>Base not included.</b>
Ref. <b>M502C</b>	<b>Optical-Heat multisensor</b> , combines the features of previous detectors to expand the detection range. Low power consumption. Led status indicator and remote led indicator output. Diameter: 100 mm. EN 54-5&7 certified. <b>Base not included.</b>
Ref. <b>M500Z</b>	<b>Low profile</b> interchangeable mounting base for M500A y M500C detector with remote indicator connector and removal protection.
Ref. <b>M500ZA</b>	<b>High profile</b> interchangeable mounting base for M500A y M500C detector with remote indicator connection and removal protection.
Ref. <b>M500ZR</b>	<b>High profile</b> interchangeable mounting base for M500C detector with voltage-free <b>relay output</b> .

## Specials fire detectors

Ref. **M105**



**Adjustable heat probe 50-300°C** control unit with regulator for special hazard applications like ovens, kitchen hoods, etc., It has as a control unit adjustable between 50 and 300 ° C located in a metal box and an external probe for temperature analysis at a distance. Detector or MCP mode function . Stainless steel case. 100 x 100 x 100 mm. 10/30 V - 0/100 mA.

## Manual call point MIRA PSGC



Ref. **PSGC**



**Manual Call Point with resettable elements and protective cover.** Zenner diode included to be specifically monitored by the control panel as a "MCP Fire". Semi flush or surface mounting. Reset key included. Size: 105 x 100 x 60 mm. **EN 54-11-2001 certified.**

Ref. **PZE**

Accessory for flush mounting in standard casing.

## Extinguishing release / stop call points

Ref. **PSGD**



Extinguishing RELEASE call point (Yellow), with resettable elements, protective cover and precinct. Zenner diode included. Size: 110 x 105 x 63mm.

Ref. **PSGP**



Extinguishing STOP call point (Blue), with resettable elements, protective cover and precinct. Zenner diode included. Size: 110 x 105 x 63mm.

## Waterproof IP65

Ref. **SIMEI-P-IP65**



Waterproof IP 65 box for PSGC, PSGD and PSGP manual call points (Manual call point not included. Includes housing and accessories)

Ref. **SIMEI-N-IP65**



Waterproof IP65 universal box for standard manual call points (Housing and accessories included)

### SPARE PARTS FOR MANUAL CALL POINTS

Ref. **TT**

Lid cover for PSG manual call points.

Ref. **PLL**

Reset key for PSG manual call points.

Ref. **PN**

Precinct for PSG manual call points, (10 pcs. bag) .

## Low consumption sounders MIRA M100



Ref. **M100 FI**



**Indoor sounder with flashing light.** Very low consumption (12 mA @24V). 90 db output sound. Tone selector. Anti-panic initial function. Cable entries for surface or flush wiring. Size: 100 x 35 mm. **EN 54-3-2001 certified.**

Ref. **M100 FE**



**Outdoor sounder with flashing light.** Very low consumption (20 mA@24V). 95 db output sound. Tone selector. Anti-panic initial function. Size: 280 x 197 x 58 mm. Red color with "FIRE" text. EN-54 3-2001 certified.

## Remote led indicator

Ref. **PILL**



Remote led indicator for conventional and analogue fire detectors with compact design and translucent cover with 16 mm tube entry. 3,29 Vcc . Size 65 x 65 x 35 mm.

## Signalling devices



Ref. **M103ED**



**"Extinguishant released- Do not enter" Signaling Device**, led illuminated and buzzer, low current draw 24 V - 60mA. Size 235 x 115 x 60 mm.

Ref. **M103GT**



**"Toxic gases – Do not enter" Signaling Device**, led illuminated and buzzer, low current draw 24 V - 60mA. Size 235 x 115 x 60 mm.

Ref. **M103FG**



**"Fire in parking" Signaling Device**, led illuminated and buzzer, low current draw 24 V - 60mA. Size 235 x 115 x 60 mm



## Power supplies MIRA

**Switching Power Supplies** with a battery charger built in, power-limiting technology and short-circuit protected, specifically for use in security systems.

**EN 54-4 (24V) y EN 54131 (12V) Certified.**



Ref. <b>M12-3F</b>	<b>12V 3A Power supply</b> in a 281 x 231 x 98 mm steel box with space for 1 12V/7A battery.
Ref. <b>M12-6,5F</b>	<b>12V 6,5A Power supply</b> in a 312 x 251 x 99 mm steel box with space for 2 12V/7A batteries .
Ref. <b>M24-2,5F</b>	<b>24V 2,5A Power supply</b> in a 281 x 231 x 98 mm steel box with space for 1 12V/2A batteries.
Ref. <b>M24-5F</b>	<b>24V 5A Power supply</b> in a 312 x 251 x 99 mm steel box with space for 2 12V/7A batteries.
Ref. <b>M24-7,5F</b>	<b>24V 7,5 A Power supply</b> in a 312 x 251 x 99 mm steel box with space for 2 12V/7A batteries.



## Electrochemical sensor CO and NO2 detection system

### MIRA CERCO 300 EQ

MIRA CERCO 300 EQ Carbon Monoxide (CO) Detection System uses highly **accurate and reliable electrochemical** sensing cells to provide total control of ventilation systems in car parkings and garages. It incorporates the latest technology to get the highest efficiency and energy savings.



CO Detector



NO2 Detector

#### Most relevant features:

- **Filters are not required.**
- **Up to 10 years expected operational life.**
- **Only 2 wire** free architecture installation unpolarized.
- Up to 16 detectors per zone, fully controlled (Address, alarm or fault).
- Programmable ventilation delay for energy saving.
- 3 different programmable level outputs: ventilation, turbo ventilation and alarm.
- **Nitrogen Dioxide (NO2) electrochemical detectors can be integrated** in the same detection line with CO detectors.
- **UNE-23300-84 certified.**



## MIRA CERCO 300 EQ



Ref. <b>ME302-1</b>	CO Detection Control Panel <b>with 1 zone module</b> in metal cabinet sized 195 x 195 x 85 mm, and up to 2 zone modules.
Ref. <b>ME302-2</b>	CO Detection Control Panel <b>with 2 zone modules</b> in metal cabinet sized 195 x 195 x 85 mm
Ref. <b>ME305-3</b>	CO Detection Control Panel <b>with 3 zone modules</b> in metal cabinet sized 488 x 195 x 85 mm, and up to 5 zone modules.
Ref. <b>ME305-4</b>	CO Detection Control Panel <b>with 4 zone modules</b> in metal cabinet sized 488 x 195 x 85 mm, and up to 5 zone modules.
Ref. <b>ME305-5</b>	CO Detection Control Panel <b>with 5 zone modules</b> in metal cabinet sized 488 x 195 x 85 mm.
Ref. <b>ME300D</b>	<b>Electrochemical Carbon Monoxide (CO) detector</b> with high profile mounting base with removal protection. 100 mm diameter.
Ref. <b>MEN300D</b>	<b>Electrochemical Nitrogen Dioxide (NO2) detector</b> with high profile mounting base with removal protection. 100 mm diameter.
Ref. <b>M300ZA</b>	Spare interchangeable mounting base for ME300D & MEN300D detector with removal protection.
Ref. <b>ME300M</b>	Spare zone module for ME300 panels.
Ref. <b>TRAFO</b>	Spare transformer for ME300 panels.



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