



**PRODUCTS CATALOGUE 2022**

edition 01

**riellofire**

**An integrated network of fire  
detection systems**



**Riellofire** is an AVS Electronics brand. We are leader in the electronic market since 1974.

**Riellofire** offers to the market a complete range of solutions for the fire alarm detection.

Our strong commitment and continuous investment in R&D grants innovative solutions dedicated to create well-being and safety in daily life.

**Riellofire** is part of Riello Elettronica Group.



Continuing growth and successful figures: this is Riello Elettronica, expression of its entrepreneurial tradition aimed at innovation, global challenges and the development of "Made in Italy" technology in International Markets.



## AN INTERNATIONAL GROUP

Technology and innovation have always been the values of AVS Electronics and Riello Elettronica, who have successfully established themselves in the Italian and International markets, remaining faithful to their roots, expression of an entrepreneurial tradition anchored in the territory.



## A NETWORK OF INTEGRATED SYSTEMS

**Riellofire** designs and manufactures a complete range of integrated fire systems: conventional, addressable, wireless smoke and gas detectors, aspirating smoke detectors, acoustic evacuation, to satisfy any installation needs (hospitals, schools, offices, shopping centers, parking garages, industrial sites, etc.).



## TECHNOLOGICAL INNOVATION

An internal team of R&D engineers study, design and develop next generation fire systems. The analogic addressable control panel is the last born in our project center in Italy. The idea was a relatively small control panel, locally and web interconnected, able to be adapted to bigger systems.



## SERVICE

We are always by your side: from the design to the product selection, installation and after-sales. A qualified Help Desk, constantly updated, offers telephone technical assistance every day, to satisfy any customer request.

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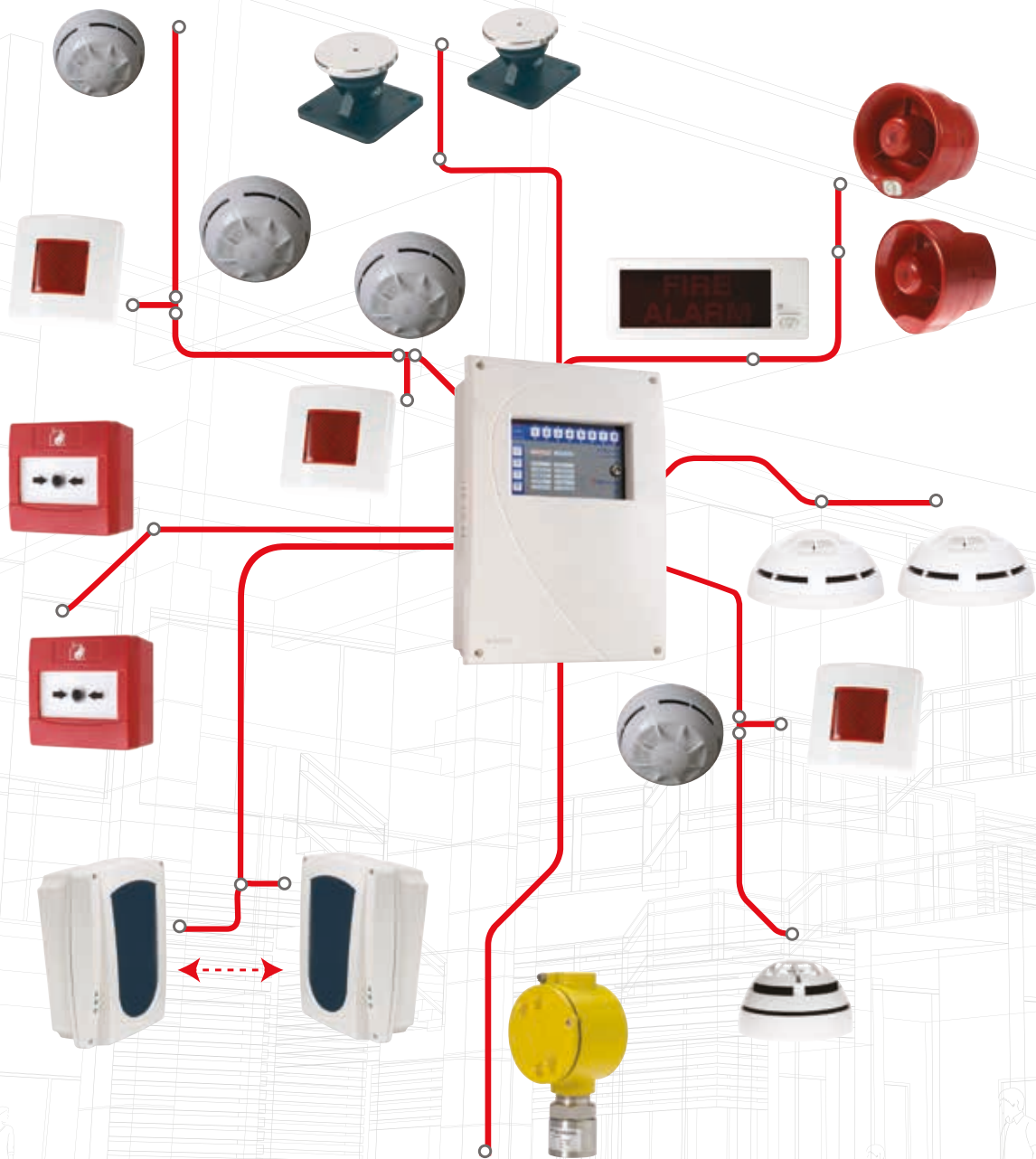
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# CONVENTIONAL FIRE ALARM SYSTEMS



# CONVENTIONAL FIRE ALARM SYSTEMS

Automatic fire detection originally started with "Conventional Systems". This products line that seemed destined to disappear, continues to find new applications.

The heart of this system is a control panel with well-defined physical zones with generic alarms. The control panel identifies the macro area where the principle of fire developed. The Norms have introduced strict rules, that make it an extremely functional and simple system. There are very precise limits that define, in detail, the dimensions of the area (not more than 1600 m<sup>2</sup>), the number of detectors (not more than 32 for zone) and the buttons in the area must have a dedicated zone and not be mixed with the detectors.

The application areas of a conventional system are small systems with large open areas and systems that use special products (barriers, flame detectors, intrinsically safe detectors) and/or extensions linked to wireless systems.

Two other situations deserve a separate chapter: extinguishing systems and gas detection systems. Extinguishing systems are closely linked to conventional systems. The logic of the double configuration on 2 crossed zones, the instant extinguishing discharge activation, as well as the procedures related to attendance control in premises, closed doors, discharge lock, etc. are optimally managed by conventional control panels.

These systems are often paired with analogue/addressable control panels, to manage areas where protection with fire extinguishing is requested. Also gas leak detection, which in many cases, is composed of small systems with 3/4 detectors is well managed by conventional system. In the gas line there is a "AS" interface with current absorption, which is used to connect gas detectors to conventional control panels in a simple and economical way.

**Riellofire** offers three models of control panels in accordance with EN54-2 and EN54-4 with special features: the use of a single battery, the possibility to schedule the maintenance and adapt to any kind of detector.

## CONVENTIONAL FIRE ALARM CONTROL PANELS

The conventional fire alarm control panels combine the best technology with the elegant design, simple and intuitive interface for the prevention and detection of fires. The fire control panels comply with EN-54, offering high safety standards.



### TECHNICAL DATA

Power supply range	100 - 240 Vac 50 - 60 Hz - 45VA
Battery	1 x 7Ah 12V or 2 x 12Ah 6V
Auxiliary power supply output	500 mA 24Vdc
Sounder output	500 mA 24Vdc
Relay output	2 NA/NO 250Vdc 10A
Dimensions	255 mm x 360 mm x 93 mm
Number of detectors or call points	max. 32 for zone

9103193	FW4K	CONVENTIONAL FIRE ALARM CONTROL PANEL 4 ZONES
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9103192	FW8K	CONVENTIONAL FIRE ALARM CONTROL PANEL 8 ZONES
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9103191	FW16K	CONVENTIONAL FIRE ALARM CONTROL PANEL 16 ZONES
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## OPTICAL & HEAT DETECTORS AND BASES

9136132	S1000	OPTICAL SMOKE DETECTOR
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Conventional optical smoke detector. This type of detector continuously samples the air in the protected area to provide the earliest warning of fire and yet offers a high level of false alarm rejection. This detector is designed for open area protection. **EN54-7**.



### TECHNICAL DATA

Power supply range	10 - 30 Vdc
Max. remote output current load	18 mA
Operating temperature range	da -10°C a +55°C
Max. humidity	95% RH no condensing
IP rating	IP 40



## OPTICAL & HEAT DETECTORS AND BASES

### 9136134 | S3500 | HEAT DETECTOR

Conventional heat detector. This type of detector continuously samples the temperature variation in the protected area to provide the earliest warning of fire and yet offers a high level of false alarm rejection. This detector is designed for open area protection. **EN54-5**.



#### TECHNICAL DATA

Power supply range	10 - 30 Vdc
Max. remote output current load	18 mA
Heat alarm threshold for class A1R	58°C
Operating temperature range	da -10°C a +55°C
Max. humidity	95% RH no condensing
IP rating	IP 40

### 9136252 | UBR100-390 | UNIVERSAL STANDARD DETECTOR BASE 390 OHM

Universal surface mount detector base with resistor 390 Ohm. Used to install conventional detector on the ceiling's surface. Detector's alarm current absorption is limited only by the resistor fitted on the base.



### 9136137 | BLR100 | RELAY DETECTOR BASE

Universal surface mount detector base with relay for general uses.

## MANUAL CALL POINTS

<b>9137181</b>	<b>CP200</b>	<b>RESETTABLE MANUAL CALL POINT</b>
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Red alarm call point, resettable using special key. Visual led indicator to confirm alarm activation. **EN54-11.**



TECHNICAL DATA	
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Operating voltage range	12Vdc - 30Vdc min. 18 Vdc for led
IP rating	IP 20
Operating temperature range	da -10°C a +55°C
Max. humidity	95% RH no condensing

<b>9137402</b>	<b>CP100WP</b>	<b>RESETTABLE MANUAL CALL POINT IP67</b>
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IP67 red alarm call point, resettable using special key. Visual led indicator to confirm alarm activation. **EN54-11.**



TECHNICAL DATA	
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Operating voltage range	12Vdc - 30Vdc min. 18 Vdc per LED
IP rating	IP 65
Operating temperature range	da -10°C a +55°C
Max. humidity	95% RH no condensing

COLORED MANUAL CALL POINTS / YELLOW   BLUE   GREEN   WHITE	
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Colored alarm call points, resettable using the special key. Visual led indicator to confirm alarm activation. **EN54-11.**



TECHNICAL DATA	
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Operating voltage range	12Vdc - 30Vdc min. 18 Vdc for led
IP rating	IP 20
Operating temperature range	da -10°C a +55°C
Max. humidity	95% RH no condensing

<b>9137228</b>	<b>CP100/Y</b>	<b>MANUAL CALL POINT YELLOW</b>
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<b>9137229</b>	<b>CP100/B</b>	<b>MANUAL CALL POINT BLUE</b>
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<b>9137230</b>	<b>CP100/G</b>	<b>MANUAL CALL POINT GREEN</b>
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<b>9137231</b>	<b>CP100/W</b>	<b>MANUAL CALL POINT WHITE</b>
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## SOUNDERS / VADS

### 9163106 | CWS100 | WALL SOUNDER

Conventional red wall sounder with 32 tone settings and 3 volume levels. 3rd party approval to **EN54-3** (Type B).



TECHNICAL DATA	
Power supply voltage range	15Vdc - 40Vdc
Activated current consumption range	5-8 mA a 24Vdc
Weight	290 g
Max. SPL	100 dB ad 1 mt
IP rating	IP 65
Operating temperature range	da -25°C a +70°C
Max. humidity	95% RH no condensing

### 9163105 | CWS100-AV | WALL SOUNDER VAD

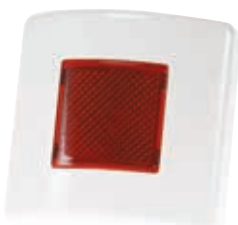
Conventional red wall sounder VAD, with 32 tone settings and 3 volume levels. 3rd party approval to **EN54-3** (Type B) and **EN54-23**.



TECHNICAL DATA	
Power supply voltage range	15Vdc - 40Vdc
Activated current consumption range	11-25 mA a 24Vdc
Weight	290 g
Max. SPL	100 dB ad 1 mt
Flash frequency	0,5 Hz o 1 Hz
IP rating	IP 65
Operating temperature range	da -25°C a +70°C
Max. humidity	95% RH no condensing

### 9137266 | FI100 | REMOTE INDICATOR LAMP

Low profile remote indicator directly powered and controlled by conventional detector base. **BS EN50130** Part 4.



TECHNICAL DATA	
Power supply voltage range	15Vdc - 40Vdc
Activated current consumption range	4,5 mA a 24Vdc
Weight	30 g
IP rating (cover)	IP 42
Operating temperature range	da -10°C a +55°C
Max. humidity	95% RH no condensing

**9137394** | **LE/F10** | **CEILING VOID REMOTE INDICATOR LAMP**

Ceiling void remote indicator lamp directly powered and controlled by conventional detector base. Provided with an identification label. Supplied with 30cm of cable.



**9137319** | **LF24W** | **OPTICAL/ACOUSTIC PANEL**

Optical/acoustic panel EN54-3 and EN54-23. It shows the standard lettering "Fire Alarm". On request different lettering are available "Evacuation in progress" and "Leave the premises" (check costs and availability).



TECHNICAL DATA	
Power supply range	18Vdc - 30Vdc
Activated current consumption	50mA
Max. SPL	92 dB a 1 mt
IP rating	IP 20

**1161197** | **TS 85P R LED PLUS** | **OUTDOOR SELF-POWERED SIREN**

Red outdoor self-powered siren, ABS cover, 2 led indicators, 8 tone setting, volume control, alarm counter, function for disabling initial strat-up alarm. Converter DC/DC cod. 4437125 mandatory for 24 Vdc power supply.



TECHNICAL DATA	
Power supply range	13,8 Vdc or 24 Vdc converter mandatory
Activated ad quiet current consumption	2,5 A alarm - 100 mA quiet limited
SPL	105 dB @ 3 mt
Battery	12 Vdc 2,1 A
Dimensions (HxLxP)	290 x 235 x 110 mm

**4437125** | **RDT** | **CURRENT LIMITER 24 VDC/12VDC**

24V-12V current limiter for sirens and/or telephone dialers that works with 12V and are connected to 24V fire systems. Dimensions (LxHxP): 38x35x15 mm.



TECHNICAL DATA	
Input voltage range	20-30 V =
Output voltage	14 V = ± 1%
Max current	1000 mA

## ACCESSORIES



<b>9137102</b>	<b>S20050_01</b>	<b>MAGNETIC DOOR HOLDER 50 KG 24V</b>
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Magnetic door holder 50 Kg 24V. Floor bracket and extension system availables.  
On request, IP67 type available

<b>9137103</b>	<b>S20110_01</b>	<b>MAGNETIC DOOR HOLDER 100 KG 24V</b>
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Magnetic door holder 100 Kg 24V. Floor bracket and extension system availables.  
On request, IP67 type available

<b>9136288</b>	<b>SOLO A10</b>	<b>SMOKE DETECTOR TEST GAS CANISTER</b>
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Smoke detector test gas canister 250 ml.

<b>1170129</b>	<b>STARLINK 4G PRO B</b>	<b>LTE/4G-PSTN TELEPHONE DIALER</b>
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LTE/4G-PSTN telephone dialer with vocal, sms and TCP-IP communication protocols. USB port for pc connection and software XWIN - Double sim card. IMQ-INCERT EN 50131 Grado 2.



<b>TECHNICAL DATA</b>	
Connection mode	2G/3G/LTE/4G - PSTN
Communication protocols	Vocal and SMS
Power supply and average current consumption	13,8 Vdc, 320 mA
Speech synthesis DIGIVOC (optional)	Only for vocal protocol
Dimensions (HxLxP)	75 x 121 x 25 mm

<b>1107125</b>	<b>DIGIVOC</b>	<b>SPEECH SYNTHESIS FOR STARLINK 4G</b>
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Speech synthesis with a digital library of over 300 prerecorded and 40 custom words. Connection: USB PLUG-IN on card.

## OPTICAL BEAM SMOKE DETECTORS

<b>2242101</b>	<b>BF100A</b>	<b>OPTICAL BEAM SMOKE DETECTOR TX / RX</b>
<b>4442101</b>	<b>BF100A LOOP</b>	<b>OPTICAL BEAM SMOKE DETECTOR TX / RX ADDRESSABLE ON LOOP</b>

Smoke detection beam made of a Transmitter and a Receiver, capable to detect and determine the quantity of smoke which is present in the protected area. The beam has a serial interface in order to connect up to 4 units to the remote panel (BR100) showing the same indications as shown by led/display module and leds. **EN54-12.**



TECHNICAL DATA	
Detection range	100 mt
Power supply range	24 Vdc
Activated current consumption	115 mA
Operating temperature range	da +5°C a +40°C
IP rating	IP 64

<b>2242102</b>	<b>BF100R</b>	<b>REFLECTIVE OPTICAL BEAM SMOKE DETECTOR</b>
<b>4442102</b>	<b>BF100R LOOP</b>	<b>REFLECTIVE OPTICAL BEAM SMOKE DETECTOR ADDRESSABLE ON LOOP</b>

Smoke detection beam made of an emitter and receiver, which tanks to a reflecting panel at max. 100mts distance, can detect and determine the quantity of smoke in the protected area. **EN54-12.**



TECHNICAL DATA	
Detection range	70 mt - 100 mt reflective kit needed
Power supply range	24 Vdc
Activated current consumption	85 mA
Operating temperature range	da -5°C a +40°C
IP rating	IP 64

<b>2244100</b>	<b>BFS</b>	<b>ADDITIONAL REFLECTIVE KIT</b>
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Additional reflective kit to improve the detection range up to 100mts. Compatibility with BF100R.



<b>2244101</b>	<b>BFTEST</b>	<b>FIRE BEAM OBSCURATION TEST FILTER</b>
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Fire beam obscuration test filter for BF series.

<b>2244102</b>	<b>BR100</b>	<b>METAL CASE REMOTE CONTROL</b>
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Remote panel for connection up 4 beams.



## POWER SUPPLIES

Auxiliary power supply. Metal housing and led indicators according to the regulations. **EN54-4**.



<b>9137288</b>	<b>PSEN/2,5</b>	<b>POWER SUPPLY 2,5A</b>
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<b>TECHNICAL DATA</b>	
Power supply range	250 Vac
Batteries	2 x 12 Ah 12V
Max. output current load	2A

<b>9137294</b>	<b>PSEN/5</b>	<b>POWER SUPPLY 5A</b>
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<b>TECHNICAL DATA</b>	
Power supply range	250 Vac
Batteries	2 x 24 Ah 12V
Max. output current load	5A

<b>9137318</b>	<b>PSEN/10</b>	<b>POWER SUPPLY 10A</b>
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<b>TECHNICAL DATA</b>	
Power supply range	250 Vac
Batteries	2 x 24 Ah 12V
Max. output current load	8A

## CONVENTIONAL FIRE DETECTION AND EXTINGUISHING CONTROL PANEL

The extinguishing control panel range consists of a single model with 3 conventional zones and one extinction block. It has been designed to serve small and medium sized installations that require a fire detection and extinction system, such as businesses, school, small and medium enterprises, etc.

**Certification:** EN 12094-1, EN 54-2 ed EN 54-4.



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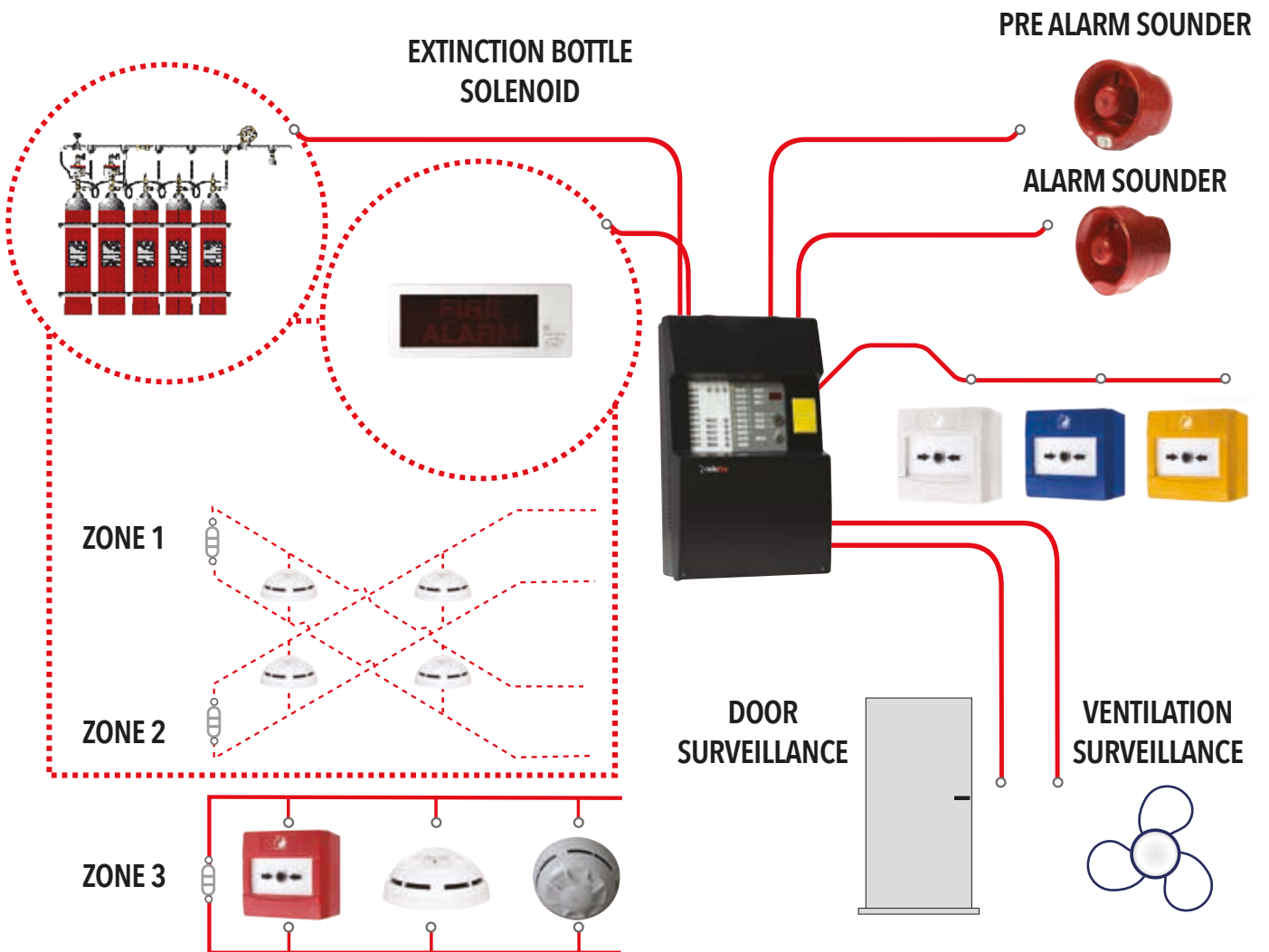
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CONVENTIONAL FIRE DETECTION AND EXTINGUISHING CONTROL PANEL

TECHNICAL DATA	
Power supply range	90-264VAC 50/60 Hz
Batteries	2 x 7 Ah
Zones	3 zones and 1 extinction
Relay output	Voltage free 10A - 30Vcc
24V auxiliary output max. current load	450 mA
Sounders, bottle, 1ST, 2ST output max. current load	450 mA
Operating temperature range	-5°C +50°C
Max. humidity	95% RH no condensing
IP rating	IP30
Dimensions (HxLxP)	443 mm x 268 mm x 109 mm
Weight	9 kg no batteries



CONVENTIONAL FIRE DETECTION AND EXTINGUISHING CONTROL PANEL



## THERMOSENSITIVE CABLE

<b>4437508</b>	<b>EPC 155</b>	<b>NOT RESETTABLE THERMOSENSITIVE CABLE 50 MT FOR RESIDENTIAL APPLICATION</b>
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Linear heat detector (thermosensitive cable), bipolar, with vinyl base coating (for residential use).



<b>4437509</b>	<b>XCR 155</b>	<b>NOT RESETTABLE THERMOSENSITIVE CABLE 50 MT FOR INDUSTRIAL APPLICATION</b>
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Linear thermal detector (thermosensitive cable), bipolar, with fluoropolymer coating (for industrial use).



<b>4437506</b>	<b>BRT-I</b>	<b>IP66 GLASS FIBER START OF LINE BOX</b>
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Box in GRP, IP66 black color. It contains 4 terminals for connecting the thermosensitive cable and is equipped with a cable gland for the output and one for the input. The box has a key selector for the six-monthly test (simulate alarm).

<b>4437507</b>	<b>BRT-F-TW</b>	<b>IP67 GLASS FIBER END OF LINE BOX WITH KEY TEST</b>
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Box in GRP, IP66 black color. It contains 4 terminals for connecting the thermosensitive cable and is equipped with a cable gland for the output and one for the input. The box has a key selector for the six-monthly test (simulate alarm).

<b>4437504</b>	<b>TAR 362</b>	<b>PLATE "WARNING FIRE DETECTION CABLE"</b>
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Thermosensitive cable identification plate, in plastic material, to be fixed directly on the cable, red color with white writing: "ATTENZIONE CAVO RILEVAZIONE INCENDI - WARNING FIRE DETECTION CABLE".

<b>4437505</b>	<b>CL2</b>	<b>FIXING CLIP</b>
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Thermosensitive cable fixing clips, in thermoplastic material, complete with stainless steel screw and bolt.

## ACCESSORIES FOR CONVENTIONAL FIRE ALARM SYSTEMS

<b>4437225</b>	<b>SFT-304</b>	<b>TRANSPARENT COVER FOR CALL POINTS PROTECTION</b>
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Compatible with the following items: 9137181; 9137228; 9137229; 9137230; 9137231; 9137192; 9137205; 4437518.

<b>9137285</b>	<b>WHCP-BBR</b>	<b>WEATHERPROOF CALL POINT HOUSING</b>
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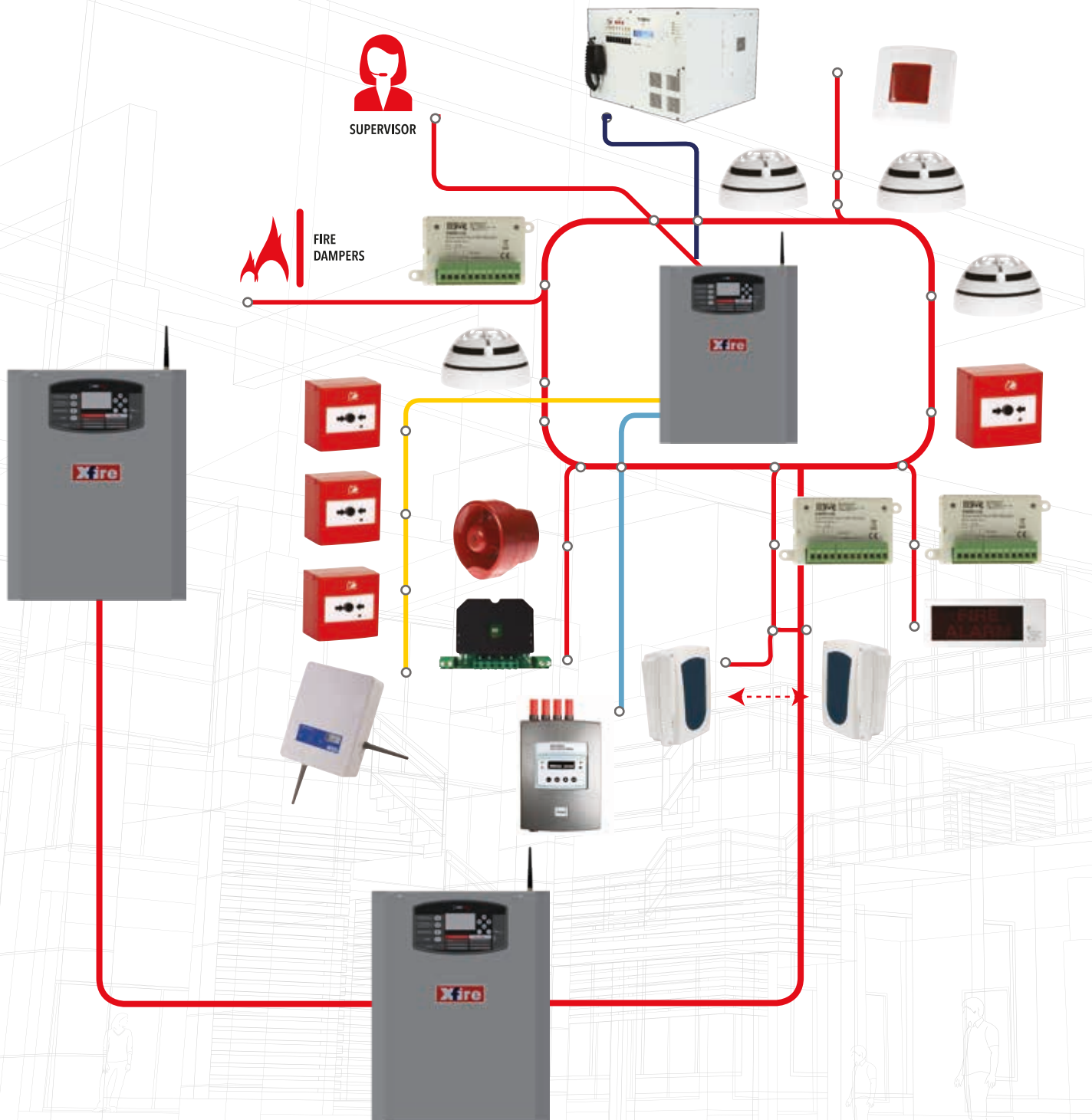
Weatherproof call point housing. Reduces unwanted alarms. Optional 90 dB tamper alarm.



<b>4437502</b>	<b>CTS01</b>	<b>ALUMINIUM MANUAL CALL POINT WARNING SIGN</b>
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Aluminium fire manual call point warning sign 160 x 160 mm.

# INTELLIGENT ADDRESSABLE FIRE ALARM SYSTEMS



# INTELLIGENT ADDRESSABLE FIRE ALARM SYSTEMS

The **intelligent addressable fire alarm systems** represent the most important part of fire detection ranges, together with the fire control panel that is the core of the system. **Riellofire** has designed, developed and produced in our R&D Dpt. in Italy a new control panel with the most advanced technologies.

In an interconnected world dominated by networks, the **XFIRE** control panel has been designed starting from the network itself, unlike most of the traditional fire control panels on the market.

The idea was to create a relatively small control panel, consisting of 1 up to 2 loops for a total of 480 on field devices, with the possibility of creating a wide network of control panels, interconnected both locally and on the web, with the following advantages:

- a) Considerable savings in electrical cables.
- b) Simple and easy system management.
- c) Easy to program and configure.
- d) Possibility to create large systems up to 60 control panels and a maximum of 28.000 on field devices.
- e) Easy events identification.
- f) Total interaction among the control panels.
- g) Easy to integrate with other systems.
- h) Direct connection with EVAC evacuation systems.
- i) Web server connection.

Furthermore, the intelligent addressable **Riellofire** range, one of the most complete in the fire detection market, is completed with a range of full addressable wireless fire devices (intrinsically safe detectors and call points, IN/OUT mini modules, magnets, sounders, etc.) and by a gas leak detection line full addressable too.

# INTELLIGENT ADDRESSABLE FIRE ALARM SYSTEMS

## INTELLIGENT ADDRESSABLE FIRE ALARM CONTROL PANEL XFIRE

### 4403103 | XFIRE | INTELLIGENT ADDRESSABLE FIRE ALARM CONTROL PANEL

XFIRE is an intelligent addressable fire alarm control panel with 1 loop, expandable to 2, able to manage up to max 480 devices (detectors, IN/OUT modules, call points, sounders, etc.). The X FIRE control panel has been designed and produced with advanced technologies in our R&D department and it allows the realization of both the complex plants and small fire systems, with the possibility to be extended in a second time. With XFIRE, it is possible to create a network of a max 60 interconnected control panels.

Certifications: **EN 54-2 / EN54-4 / EN54-21 / EN54-13.**



#### TECHNICAL DATA

Power supply range	115 Vac - 230 Vac
Batteries	2 x 12V - 17Ah
Maximum current consumption	1,9 A / 115 Vac - 1,2 A / 230 Vac
Loop voltage range	35 - 37 Vdc
Max. loop current load	500 mA
24Vdc supervised auxiliary output	500 mA
Fault output NAC - 24V	200 mA
Alarm output NAC - 24V	500 mA
Operating temperature range	-5°C a + 40°C
Loop lenght / wire dimensions	for 1 Km diam. 0,75 sq mm
Max. current load (I <sub>max</sub> , a)	2A
IP rating	IP 30
Dimensions	490 mm x 380 mm x 110 mm

### 4403194 | XFIRE-LCD | REMOTE PANEL FOR XFIRE CONTROL PANEL

Panel connected to the network with the control panel. It shows all the information present in the control panel.

### 4437104 | XFIRE-ESP | XFIRE LOOP INTERFACE MODULE

Two loops expansion interface module, to be installed inside the control panel. It allows to add the second loop up to 240 field devices.



## INTELLIGENT ADDRESSABLE FIRE ALARM CONTROL PANEL XFIRE

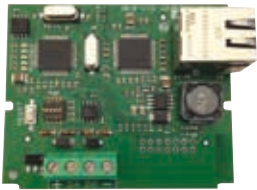
### 4437105 | XFIRE-NET | XFIRE NETWORK INTERFACE MODULE

Board to be installed inside the control panel. It allows to connect the control panel with other control panels in a loop network, for a maximum of 60 units.



### 4437106 | XFIRE-WEB | XFIRE IP NETWORK INTERFACE MODULE

IP network interface module to be installed inside the control panel. It allows the control panel interfacing via IP to the Central Monitoring Center.



### 4437107 | XFIRE-CT G4 | XFIRE ALARM PHONE DIALER INTERFACE MODULE

LTE/4G telephone dialer interface module to be installed inside the control panel. It allows the sending of alarm and fault events with vocal SMS – S I A -IP, CONTACT ID IP communication protocols.



### 4437108 | XFIRE-RS 485 | XFIRE ISOLATED RS485 INTERFACE MODULE

Opto isolated RS485 interface module to be installed inside the control panel. It allows the direct interfacing with EVAC systems, remote panels and Central Monitoring Center.



# INTELLIGENT ADDRESSABLE FIRE ALARM SYSTEMS

## INTELLIGENT OPTICAL & HEAT DETECTORS AND BASES

### 9136270 | A1000 | OPTICAL SMOKE DETECTOR

Intelligent optical smoke detector auto addressing on compatible fire control panel or programmable using ALPU1000 device. Bidirectional isolator, dual bicolor leds and Dust Restrict Chamber (DRC) technology for advanced immunity to airborne contaminants. **EN54-7 EN54-17.**



TECHNICAL DATA	
Loop voltage range	15Vdc - 40Vdc
Remote output max. current	20 mA
Operating temperature range	-10°C to +55°C
Max. humidity	95% RH no condensing

### 9136272 | A3500 | HEAT DETECTOR

Intelligent heat detector, auto addressing on compatible fire control panel or programmable using ALPU1000 device. Bidirectional isolator, dual bicolor leds and Dust Restrict Chamber (DRC) technology for advanced immunity to airborne contaminants. **EN54-5 EN54-17.**



TECHNICAL DATA	
Loop voltage range	15Vdc - 40Vdc
Remote output max. current	20 mA
Operating temperature range	-10°C to +55°C
Max. humidity	95% RH no condensing

### 9136271 | A2000 | MULTI-CRITERIA DETECTOR

Intelligent multi-criteria detector, auto addressing on compatible fire control panel or programmable using ALPU1000 device. Bidirectional isolator, dual bicolor leds and Dust Restrict Chamber (DRC) technology for advanced immunity to airborne contaminants. Nine mode operations. **EN54-5, EN54-7 and EN54-17.**



TECHNICAL DATA	
Loop voltage range	15Vdc - 40Vdc
Remote output max. current	20 mA
Operating temperature range	-10°C to +55°C
Max. humidity	95% RH no condensing



## INTELLIGENT OPTICAL & HEAT DETECTORS AND BASES

### 9136273 | LAB1000 | INTELLIGENT STANDARD BASE

Standard intelligent low-profile mounting base. Built-in continuity spring and remote indicator connections.



#### TECHNICAL DATA

Operating temperature range	-10°C to +55°C
Max. humidity	95% RH no condensing

### 9137208 | DDH-LAB | AIR DUCT DETECTION HOUSING

Air duct detection housing. One pipe air sampling system and filter for dusty environments. Test hole positioned on cover.



### 9137211 | DDH-ST 0,6 | SAMPLING PIPE

0,6m sampling pipe. Multiple length variants available.

# INTELLIGENT ADDRESSABLE FIRE ALARM SYSTEMS

## INTELLIGENT ADDRESSABLE LOOP POWERED BASE SOUNDERS

### 9136276 | ALBLS100-32 | INTELLIGENT ADDRESSABLE BASE SOUNDER

Fully intelligent low-profile base sounder. Auto addressing on compatible fire alarm control panel or programmable using ALPU1000 device. Built in loop isolators. Synchronized sounder with adjustable volume output and selection of 32 tones. **EN54-3.**



#### TECHNICAL DATA

Operating voltage range	15Vdc - 32Vdc typically 24Vdc
Remote output max current	4 - 7 mA
Max. SPL	94dBA @ 1 mt
Operating temperature range	-10°C to +55°C
Max. humidity	95% RH no condensing

### 9136277 | ALBLS100-32/AV | INTELLIGENT ADDRESSABLE BASE SOUNDER VISUAL INDICATOR

Fully intelligent low-profile base sounder. Auto addressing on compatible fire alarm control panel or programmable using ALPU1000 device. Built in loop isolators. Synchronized sounder with adjustable volume output and selection of 32 tones. 360 degree visibility of VAD when activated. **EN54-3.**



#### TECHNICAL DATA

Operating voltage range	15Vdc - 32Vdc typically 24Vdc
Remote output max current	4 - 7 mA
Volume SPL	94dBA @ 1 mt
Operating temperature range	-10°C to +55°C
Max. humidity	95% RH no condensing

### 9136278 | LID200-AL/W | INTELLIGENT ADDRESSABLE BASE SOUNDER COVER

Intelligent addressable base sounder/VAD cover.

## INTELLIGENT ADDRESSABLE LOOP POWERED BASE SOUNDERS

9136283

AI-BS-01

32 TONES DETECTOR CONTROLLED INTELLIGENT BASE SOUNDER

Fully intelligent low-profile loop powered base sounder. Compatible with standard remote activation, low current consumption. Adjustable volume output and selection of 32 tones. **EN54-3.**



### TECHNICAL DATA

Max. SPL	92.6dBA ad 1 mt
Operating temperature range	-10°C to +55°C
Max. humidity	95% RH no condensing

9136284

AI-BSB-23W-01

32 TONES DETECTOR CONTROLLED INTELLIGENT BASE SOUNDER/VAD

Fully intelligent low-profile loop powered base sounder/VAD with combined white visual indicator. Compatible with standard remote activation, low current consumption. Adjustable volume output and selection of 32 tones. **EN54-3.**



### TECHNICAL DATA

Max. SPL	92.6dBA ad 1 mt
Operating temperature range	-10°C to +55°C
Max. humidity	95% RH no condensing

# INTELLIGENT ADDRESSABLE FIRE ALARM SYSTEMS

## INTELLIGENT ADDRESSABLE MANUAL CALL POINTS

9137192	ALCP100	ADDRESSABLE MANUAL CALL POINT
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Intelligent manual call point with resettable operating element and high visibility led indicator. Auto addressing on compatible fire control panel or programmable using ALPU1000 device built-in loop isolator. **EN54-11**.



### TECHNICAL DATA

Operating voltage range	15Vdc - 40Vdc
IP rating	IP 20
Operating temperature range	-10°C to +55°C
Max. humidity	95% RH no condensing

## INTELLIGENT ADDRESSABLE INPUT AND OUTPUT MINI MODULES

The intelligent addressable input and output mini module series is a family of microprocessor-controlled interface devices permitting the monitoring and/or control of auxiliary devices. A bicolour led indicator, one for single channel, is activated by the control panel. The mini modules are powered by the loop. Auto addressing on compatible fire control panel or programmable using ALPU1000 device. Built-in loop isolator. **EN54-17 ed EN54-18**



TECHNICAL DATA	
Operating voltage range	15Vdc - 40Vdc (min. 18Vdc for operation of LED)
Alarm current range	6 -12 mA @ 24 Vdc
Weight	160 g
Relay	2A - 30Vdc
Operating temperature range	-10°C to +55°C
Max. humidity	95% RH no condensing

9137185	VMMI100	SINGLE CHANNEL SUPERVISED INPUT MINI MODULE
9137186	VMMC100	SINGLE CHANNEL SUPERVISED OUTPUT MINI MODULE
9137188	VMMIC100	SINGLE CHANNEL SUPERVISED INPUT AND OUTPUT MINI MODULE
9137187	VMMC120	SINGLE CHANNEL RELAY OUTPUT MINI MODULE
9137189	VMMIC120	SINGLE CHANNEL SUPERVISED INPUT AND RELAY OUTPUT MINI MODULE
9137236	VMIC404	MULTIWAY I/O UNIT 4 SUPERVISED INPUT AND 4 RELAY OUTPUT

Multiway module composed of 4 input channels and 4 output channels. Microprocessor controlled interface devices permitting the monitoring and control of auxiliary devices. The mini modules are powered by the loop. Auto addressing on compatible fire control panel or programmable using ALPU1000 device. Built-in loop isolator. **EN54-17 ed EN54-18.**



TECHNICAL DATA	
Loop voltage range	18Vdc - 40Vdc
Standby current	500 microA @ 24Vdc
Weight	470 g
Dimensions	210mm x 170mm x 65mm
IP rating (cover)	IP 67
Relay	2A - 30Vdc
Operating temperature range	-10°C to +55°C
Max. humidity	95% RH no condensing

## SOUNDERS / VADS

### 9137393 VM240 MAINS RATED RELAY UNIT

Mains rated relay unit upgrades a standard VMCM120 output module to a unit capable of switching mains voltages and higher currents. No PSU required.



#### TECHNICAL DATA

Loop voltage range	18Vdc - 40Vdc
Max. current consumption	12,5 mA @ 24Vdc
Weight	100 g
Dimensions	105mm x 69mm x 53mm
IP rating (cover)	IP 21
Relay	5A - 250Vac
Operating temperature range	-10°C to +55°C
Max. humidity	95% RH no condensing

### 9163106 CWS100 WALL SOUNDER

Conventional red wall sounder with 32 tone settings and 3 volume levels. 3rd party approval to EN54-3 (Type B). The unit can either be used as a stand-alone conventional device or as an intelligent unit by the addition of a wired module (ALWS-MOD).



#### TECHNICAL DATA

Power supply voltage range	15Vdc - 40Vdc
Activated current consumption range	5-8 mA @ 24Vdc
Weight	290 g
Max. SPL	100 dB @ 1 mt
IP rating	IP 65
Operating temperature range	-25°C to +70°C
Max. humidity	95% RH no condensing

### 9163105 CWS100-AV WALL SOUNDER VAD

Conventional red wall sounder VAD, with 32 tone settings and 3 volume levels. 3rd party approval to EN54-3 (Type B) and EN54-23. The unit can either be used as a stand-alone conventional device or as an intelligent unit by the addition of a wired module (ALWS-MOD).



#### TECHNICAL DATA

Power supply voltage range	15Vdc - 40Vdc
Activated current consumption range	5-8 mA @ 24Vdc
Weight	290 g
Max. SPL	100 dB @ 1 mt
Flash frequency	0,5 Hz o 1 Hz
IP rating	IP 65
Operating temperature range	-25°C to +70°C
Max. humidity	95% RH no condensing

## SOUNDERS / VADS

### 9137250 | ALWS-MOD | INTELLIGENT ADDRESSABLE SOUNDER INTERFACE MODULE

Intelligent sounder interface module designed for use with modular wall sounders and sounder/VAD. When the sounder or sounder/VAD are fitted with this module they can then be installed directly onto compatible intelligent loop. Auto addressing on compatible fire control panel or programmable using ALPU1000 device. Built-in loop isolator.

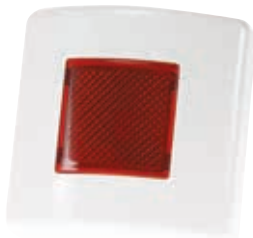


#### TECHNICAL DATA

Loop voltage range	18Vdc - 40Vdc
Weight	52 g
Operating temperature range	-25°C to +70°C
Max. humidity	95% RH no condensing

### 9137266 | FI100 | CONVENTIONAL REMOTE INDICATOR

Low profile remote indicator directly powered and controlled by conventional detector base. BS EN 50130 part 4. **BS EN 50130 part 4.**



#### TECHNICAL DATA

Operating voltage range	15Vdc - 40Vdc
Activated average current	4,5 mA @ 24Vdc
Weight	30 g
IP rating (cover)	IP 42
Operating temperature range	-10°C to +55°C
Max. humidity	95% RH no condensing

## PROGRAMMING AND TEST UNITS

### 9103190 | ALPU1000 | HANDHELD PROGRAMMING UNIT

Handheld programming unit allows you to set all programmable variables from intelligent device range including loop address, read analog value from a device or change the heat detector setting from rate of rise to high temperature.



#### TECHNICAL DATA

Battery	6LR61 - 9V
Weight	200 g
Operating temperature range	-10°C to +55°C
Max. humidity	95% RH no condensing

## THERMOSENSITIVE CABLE

<b>4437508</b>	<b>EPC 155</b>	<b>NOT RESETTABLE THERMOSENSITIVE CABLE 50 MT FOR RESIDENTIAL APPLICATION</b>
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Linear heat detector (thermosensitive cable), bipolar, with vinyl base coating (for residential use).



<b>4437509</b>	<b>XCR 155</b>	<b>NOT RESETTABLE THERMOSENSITIVE CABLE 50 MT FOR INDUSTRIAL APPLICATION</b>
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Linear thermal detector (thermosensitive cable), bipolar, with fluoropolymer coating (for industrial use).



<b>4437506</b>	<b>BRT-I</b>	<b>IP66 GLASS FIBER START OF LINE BOX</b>
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Box in GRP, IP66 black color. It contains 4 terminals for connecting the thermosensitive cable and is equipped with a cable gland for the output and one for the input. The box has a key selector for the six-monthly test (simulate alarm).

<b>4437507</b>	<b>BRT-F-TW</b>	<b>IP67 GLASS FIBER END OF LINE BOX WITH KEY TEST</b>
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Box in GRP, IP66 black color. It contains 4 terminals for connecting the thermosensitive cable and is equipped with a cable gland for the output and one for the input. The box has a key selector for the six-monthly test (simulate alarm).

<b>4437504</b>	<b>TAR 362</b>	<b>PLATE "WARNING FIRE DETECTION CABLE"</b>
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Thermosensitive cable identification plate, in plastic material, to be fixed directly on the cable, red color with white writing: "ATTENZIONE CAVO RILEVAZIONE INCENDI - WARNING FIRE DETECTION CABLE".

<b>4437505</b>	<b>CL2</b>	<b>FIXING CLIP</b>
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Thermosensitive cable fixing clips, in thermoplastic material, complete with stainless steel screw and bolt.



## ACCESSORIES FOR CONVENTIONAL FIRE ALARM SYSTEMS

<b>4437225</b>	<b>SFT-304</b>	<b>TRANSPARENT COVER FOR CALL POINTS PROTECTION</b>
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Compatible with the following items: 9137181; 9137228; 9137229; 9137230; 9137231; 9137192; 9137205; 4437518.

<b>9137285</b>	<b>WHCP-BBR</b>	<b>WEATHERPROOF CALL POINT HOUSING</b>
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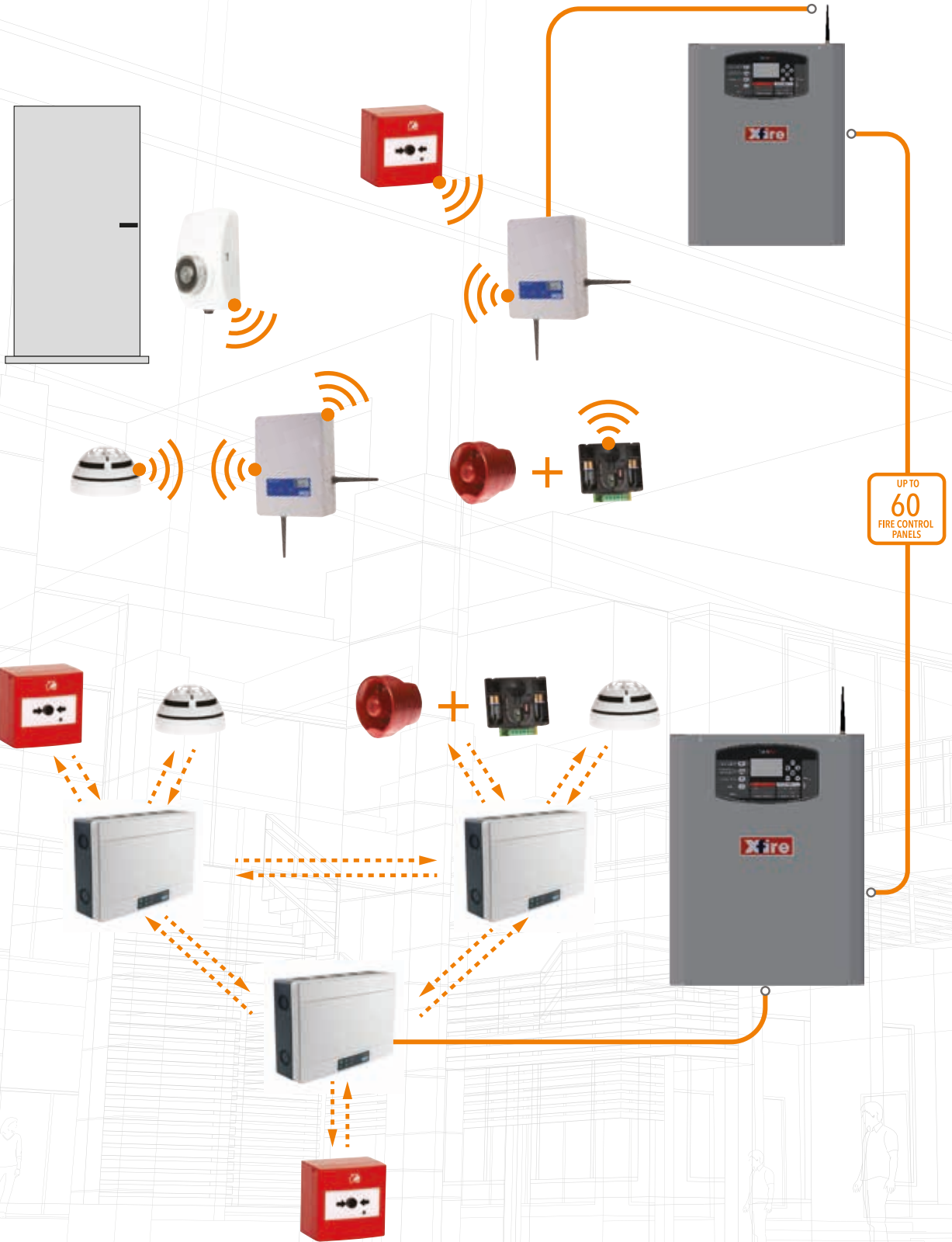
Weatherproof call point housing. Reduces unwanted alarms. Optional 90 dB tamper alarm.



<b>4437502</b>	<b>CTS01</b>	<b>ALUMINIUM MANUAL CALL POINT WARNING SIGN</b>
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Aluminium fire manual call point warning sign 160 x 160 mm.

# WIRELESS FIRE ALARM SYSTEMS



# WIRELESS FIRE DETECTION SYSTEMS

**Riellofire** offers the most performing and complete wireless automatic fire detection products line with detectors, call points, sounders/VAD, IN/OUT modules, magnets, and a range of intrinsically safe detectors.

The current wireless technology allows batteries to last longer - up to 8 years - to avoid high maintenance costs. Thanks to the receivers, the wireless devices can be used both in the addressable and in the conventional fire control panels.

A separate chapter is dedicated to the intrinsically safe range of devices for the protection in hazardous areas requiring Intrinsically Safe equipment (marked "IS" and certified by a specific body).

These "Intrinsically Safe" devices are specifically required for the protection of potentially explosive environments. With the Intrinsic Safety systems via radio, everything is simplified. No cables, no barriers and a simpler and faster maintenance.

## SAGITTARIUS - WIRELESS SMOKE DETECTION SYSTEM

Sagittarius smoke detection system is a valued and well-known wireless reality, perfect for those systems that require a “no-wire” connection. In addition to the standard certificates, it is also fully EN54-25 certified for the wireless part. It is at present the most complete range among the wireless fire systems. It is possible to create fully wireless systems starting from detectors, input/output modules, sound bases with flash, door repeaters, up to electromagnetic holders for high-resistant fire doors. It is possible to operate both following a “conventional” installation and to create “addressable” systems with the exact identification of the single points.

One of the main features of Sagittarius systems is their autonomy. The main components, detectors and buttons, have a battery range of about **10 years**.

Lastly, thanks to the “Survey Kit” for field analysis, it is possible to check the exact value of wireless range and get the best performances out of your system (installations with bad signal strongly affect battery life).

## RADIO TRANSCEIVERS

### 9137199 | VW2W100 | ADDRESSABLE WIRELESS TRANSLATOR MODULE

Addressable translator module is one of the core components of intelligent hybrid fire detection and alarm system. When connected on to a compatible loop, the unit is capable of linking up to 32 fully intelligent wireless field devices with the fire alarm system. Loop powered and low current consumption. Compatible with up to 7 expander modules. **EN54-17, EN54-18 and EN54-25.**



TECHNICAL DATA	
Loop voltage range	18 Vdc - 40Vdc
Max. current consumption	20 mA
Operating frequency	868 - 870 MHz
Communication range with expander module	250 mt in open space
Communication range with wireless field devices	150 mt in open space
IP rating	IP 65
Dimensions	120 mm x 160 mm x 51 mm
Weight	300g
Operating temperature range	-10°C to +55°C
Max. humidity	95% RH no condensing

## RADIO TRANSCEIVERS

### 9137257 SGCWE CONVENTIONAL WIRELESS TRANSLATOR MODULE

Conventional expander module has been designed to allow the integration of wireless detection and alarm type field devices into almost any type of conventional system. Low current consumption. Compatible with up 7 expander module. **EN54-18** and **EN54-25**.



TECHNICAL DATA	
Power supply range	9 Vdc - 30Vdc
Max. current consumption	26 mA
Operating frequency	868 - 870 MHz
Communication range with expander module	250 mt in open space
Communication range with wireless field devices	150 mt in open space
IP rating	IP 65
Dimensions	120 mm x 160 mm x 51 mm
Weight	300g
Operating temperature range	-10°C to +55°C
Max. humidity	95% RH no condensing

### 9137256 SGWE WIRELESS EXPANDER MODULE

Expander module is compatible with all wireless intelligent and conventional translators. The unit provides a convenient method to increase radio communication range beyond that possible from a single translator by relaying the radio communication to further expanders or directly to the wireless field devices. Capability for 32 wireless field devices per expander. Low current consumption. **EN54-18** and **EN54-25**.



TECHNICAL DATA	
Power supply range	9 Vdc - 30Vdc
Max. current consumption	15 mA
Operating frequency	868 - 870 MHz
Communication range with a translator/expander	250 mt in open space
Communication range with wireless field devices	150 mt in open space
IP rating	IP 65
Dimensions	120 mm x 160 mm x 51 mm
Weight	300g
Operating temperature range	-10°C to +55°C
Max. humidity	95% RH no condensing

## TAURUS - WIRELESS SMOKE DETECTION SYSTEM

The new Taurus wireless technology arises from the solid experience in wireless fire protection: it is a totally new protocol, wireless network and range of high-performing detection, control and alarm devices.

Taurus wireless system can be easily adapted to small/medium as well as big sites, supporting up to **128 devices on a single translator**. Intelligent signal processing on **60 communication channels**, together with the **new Mesh Expander technology** (with double channel between points and repeaters), guarantee an exceptional system reliability in every environment, with batteries optimization.

The most important innovation is **Taurex software**, which allows the uploading of graphic maps and the reading of the QrCode for univocal identification of the devices to install.

The system is controlled by the "Site Survey" APP which allows you to manage the "Kit Survey", memorize the devices, photograph their installation position. The positioning system by dragging onto the maps, the automatic search for radio paths and their optimization and the self-configuration at the end of the works make the system not only unique in its kind, but extremely simple and flexible, allowing it to be used even by less experienced installers.

## RADIO TRANSCEIVERS

4437511	TW-MTI-01	WIRELESS TRANSLATOR MODULE
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Loop translator module for wireless smoke detectors. Maximum capacity of 32 intelligent detectors that will be addressed individually to the control panel for unique recognition. Powered directly by loops, bidirectional communication can manage up to 7 expansion modules. **EN54-17, EN54-18 and EN54-25.**



TECHNICAL DATA	
Loop voltage range	18 Vdc - 40Vdc
Max. current consumption	20 mA
Operating frequency	868 - 870 MHz
Communication range with expander module	250 mt in open space
Communication range with wireless field devices	150 mt in open space
IP rating	IP 65
Dimensions	120 mm x 160 mm x 51 mm
Weight	300g
Operating temperature range	-10°C to +55°C
Max. humidity	95% RH no condensing

## RADIO TRANSCEIVERS

### 4437513 | TW-MEC-01 | WIRELESS CONVENTIONAL RECEIVER MODULE

Universal conventional receiver module for radio smoke detectors. Maximum capacity of 32 smart detectors. Cumulative zone alarm to any type of fire control panel. External power supply. Bidirectional communication can handle up to 7 expansion modules. **EN54-18** and **EN54-25**.



#### TECHNICAL DATA

Power supply range	9 Vdc - 30Vdc
Max. current consumption	26 mA
Operating frequency	868 - 870 MHz
Communication range with expander module	250 mt in open space
Communication range with wireless field devices	150 mt in open space
IP rating	IP 65
Dimensions	120 mm x 160 mm x 51 mm
Weight	330g
Operating temperature range	-10°C to +55°C
Max. humidity	95% RH

### 4437512 | TW-ME-01 | WIRELESS EXPANSION MODULE

Expansion module for wireless smoke detectors. Maximum capacity of 32 smart detectors. Increases radio range for both addressable and conventional receivers. External power supply. **EN54-18** and **EN54-25**.



#### TECHNICAL DATA

Power supply range	9 Vdc - 30Vdc
Max. current consumption	15 mA
Operating frequency	868 - 870 MHz
Communication range with expander module	250 mt in open space
Communication range with wireless field devices	150 mt in open space
IP rating	IP 65
Dimensions	120 mm x 160 mm x 51 mm
Weight	300g
Operating temperature range	-10°C to +55°C
Max. humidity	95% RH

## WIRELESS DETECTORS AND BASES

<b>9136147</b>	<b>L-OP-SG</b>	<b>WIRELESS DUAL OPTICAL SMOKE DETECTOR SAGITTARIUS</b>
<b>4437514</b>	<b>TW-DO-01</b>	<b>WIRELESS DUAL OPTICAL SMOKE DETECTOR TAURUS</b>

Wireless dual optical detector. It is a fully intelligent device and compatible with all wireless translator and expander modules. The detector is designed for open area protection and utilises dual-path optical smoke detection technologies and algorithms for improved performance, whilst maintaining the high levels of unwanted alarm rejection. **EN54-7** and **EN54-25**.



TECHNICAL DATA	
Operating frequency	868 - 870 MHz
Communication range	200 mt in open space
IP rating	IP 40
Operating temperature range	-10°C to +55°C
Max. humidity	95% RH no condensing

<b>9136148</b>	<b>L-MC-SG</b>	<b>WIRELESS MULTICRITERIA DETECTOR SAGITTARIUS</b>
<b>4437516</b>	<b>TW-DM-01</b>	<b>WIRELESS MULTICRITERIA DETECTOR TAURUS</b>

Wireless multicriteria detector. It is a fully intelligent device and compatible with all wireless translator and expander modules. The detector is designed for open area protection and combines both dual-path smoke and heat detection technologies for improved performance, whilst maintaining the high levels of unwanted alarm rejection. **EN54-7**, **EN54-5**, **EN54-25** and **EN54-29**.



TECHNICAL DATA	
Operating frequency	868 - 870 MHz
Communication range	200 mt in open space
IP rating	IP 40
Operating temperature range	-10°C to +55°C
Max. humidity	95% RH no condensing

<b>9136149</b>	<b>L-HT-SG</b>	<b>WIRELESS HEAT DETECTOR SAGITTARIUS</b>
<b>4437515</b>	<b>TW-DT-01</b>	<b>WIRELESS HEAT DETECTOR TAURUS</b>

Wireless heat detector. It is a fully intelligent device and compatible with all wireless translator and expander modules. The detector is designed for open area protection giving the best possible warning of a fire condition in locations where smoke detection technology is not suitable. **EN54-5** ed **EN54-25**.



TECHNICAL DATA	
Operating frequency	868 - 870 MHz
Communication range	200 mt in open space
IP rating	IP 40
Operating temperature range	-10°C to +55°C
Max. humidity	95% RH no condensing



## WIRELESS SOUNDER/VAD BASES

9136255	SGRBS100/L	<b>SOUNDER BASE SAGITTARIUS</b>
4437519	TW-BS-01	<b>SOUNDER BASE TAURUS</b>

Wireless sounder base. Each unit has an integrally moulded base for mounting a wireless detector or a sounder cover if a detector is not required. The unit has as standard 32 recognized sounder tones and 2 levels of volume adjustment, all of which can be easily configured on site. **EN54-3 ed EN54-25.**



TECHNICAL DATA	
Operating frequency	868 - 870 MHz
Communication range	150 mt in open space
IP rating	IP 20
Operating temperature range	-10°C to +55°C
Max. humidity	95% RH no condensing

9136256	SGRBS100-AV/L	<b>SOUNDER / VAD BASE SAGITTARIUS</b>
4437520	TW-BS-23W-01	<b>SOUNDER / VAD BASE TAURUS</b>

Wireless sounder/VAD base. Each unit has an integrally moulded base for mounting an wireless detector or a sounder cover if a detector is not required. The unit has as standard 32 recognized sounder tones and 2 levels of volume adjustment, all of which can be easily configured on site. Additional to the audible warning the unit is also fitted with a le visual indicator for added warning capability. **EN54-3 ed EN54-25.**



TECHNICAL DATA	
Operating frequency	868 - 870 MHz
Communication range	150 mt in open space
IP rating	IP 21
Operating temperature range	-10°C to +55°C
Max. humidity	95% RH no condensing

9136278	LID 200-AL/W	<b>COVER FOR WHITE SOUNDER BASE</b>
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## WIRELESS SOUNDERS/VADS

### 9163106 CWS100 WALL SOUNDER

Conventional red wall sounder with 32 tone settings and 3 volume levels. 3rd party approval to **EN54-3** (Type B). The unit can either be used as a stand-alone conventional device or as an intelligent wireless unit by the addition of a wireless module (SGWS-MOD).



#### TECHNICAL DATA

Power supply voltage range	15Vdc - 40Vdc
Activated current consumption range	5-8 mA @ 24Vdc
Weight	290 g
Max. SPL	100 dB @ 1 mt
IP rating	IP 65
Operating temperature range	-25°C to +70°C
Max. humidity	95% RH no condensing

### 9163105 CWS100-AV WALL SOUNDER VAD

Conventional red wall sounder VAD, with 32 tone settings and 3 volume levels. 3rd party approval to **EN54-3** (Type B) and **EN54-23**. The unit can either be used as a stand-alone conventional device or as an intelligent wireless unit by the addition of a wireless module (SGWS-MOD).



#### TECHNICAL DATA

Power supply range	15Vdc - 40Vdc
Activated current consumption range	11-25 mA @ 24Vdc
Weight	290 g
Max. SPL	100 dB @ 1 mt
IP rating	IP 65
Operating temperature range	-25°C to +70°C
Max. humidity	95% RH no condensing

### 9137262 SGWS-MOD WIRELESS SOUNDER INTERFACE MODULE SAGITTARIUS

### 4437517 TW-MWSO-01 WIRELESS SOUNDER INTERFACE MODULE TAURUS

Wireless sounder interface module designed for use with modular wall sounders and sounder/VAD. When conventional sounder or sounder/VAD are fitted with this module they become fully compatible with all wireless translators and expander modules. **EN54-18** and **EN54-25**.



#### TECHNICAL DATA

Operating frequency	868 - 870 MHz
Communication range	150 mt in open space
IP rating	IP 40
Operating temperature range	-10°C to +55°C
Max. humidity	95% RH no condensing

## WIRELESS SOUNDER/VADS

<b>9136257</b>	<b>SGFI200-S</b>	<b>WIRELESS REMOTE INDICATOR</b>
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Wireless remote indicator is a low-profile unit with a large red LED panel, which can be used to indicate a variety of events or alarms on the fire system.



### TECHNICAL DATA

Operating frequency	868 - 870 MHz
Communication range	150 mt in open space
IP rating	IP 42
Operating temperature range	-10°C to +55°C
Max. humidity	95% RH no condensing

## WIRELESS MANUAL CALL POINTS

<b>9137205</b>	<b>SGCP200</b>	<b>WIRELESS MANUAL CALL POINT SAGITTARIUS</b>
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<b>4437518</b>	<b>TW-CP-R-01</b>	<b>WIRELESS MANUAL CALL POINT TAURUS</b>
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Wireless manual call point is a fully intelligent wireless device compatible with all translator and expander modules. The unit has a resettable plastic element. **EN54-11** and **EN54-25**.



### TECHNICAL DATA

Operating frequency	868 - 870 MHz
Communication range	150 mt in open space
IP rating	IP 42
Operating temperature range	-10°C to +55°C
Max. humidity	95% RH no condensing

## WIRELESS INPUT/OUTPUT MODULES

<b>9137258</b>	<b>SGMI200</b>	<b>WIRELESS SINGLE CHANNEL INPUT MODULE SAGITTARIUS</b>
<b>4437521</b>	<b>TW-MI-S-01</b>	<b>WIRELESS SINGLE CHANNEL INPUT MODULE TAURUS</b>

Wireless single channel input module has a single fully monitored input circuit which allows simple integration of third party equipment with the fire system. The unit is fully compatible with all translator and expander modules and the well proven adaptive radio signal processing algorithms ensure the highest levels of life safety and system reliability. **EN54-18** and **EN54-25**.



TECHNICAL DATA	
Operating frequency	868 - 870 MHz
Communication range	150 mt in open space
IP rating	IP 65
Operating temperature range	-10°C to +55°C
Max. humidity	95% RH no condensing

<b>9137248</b>	<b>SGMCB200</b>	<b>WIRELESS SINGLE CHANNEL BATTERY POWERED OUTPUT MODULE SAGITTARIUS</b>
<b>4437522</b>	<b>TW-MO-SB-01</b>	<b>WIRELESS SINGLE CHANNEL BATTERY POWERED OUTPUT MODULE TAURUS</b>

Wireless single channel battery powered output module. The unit is powered entirely from its internal battery supply and is fitted as standard with both a set of change over relay contacts and a 24V dc output. The 24V output is capable of supplying power for operating low current third party equipment directly from the internal batteries.. **EN54-18** and **EN54-25**.



TECHNICAL DATA	
Operating frequency	868 - 870 MHz
Communication range	150 mt in open space
IP rating	IP 65
Max. current available	50 mA 12Vdc - 24Vdc
Operating temperature range	-10°C to +55°C
Max. humidity	95% RH no condensing

<b>9137289</b>	<b>SGDH100</b>	<b>WIRELESS DOOR HOLDER DEVICE</b>
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Wireless door holder device is compatible with all wireless translator and expander Modules. Its fully wireless and battery powered capability means it requires no wiring or power supply.



TECHNICAL DATA	
Operating frequency	868 - 870 MHz
Communication range	200 mt in open space
IP rating	IP 30
Weight	740g
Holding force	200 N
Operating temperature range	-10°C to +55°C
Max. humidity	95% RH no condensing

## FIELD TESTING KIT

<b>4437510</b>	<b>SW-SKT-01</b>	<b>FIELD TESTING KIT TO OPTIMIZE THE INSTALLATION - SAGITTARIUS</b>
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SAGITTARIUS KIT to perform radio integrity tests, system monitoring and faults check.

<b>4437523</b>	<b>TW-SKT-01</b>	<b>FIELD TESTING KIT TO OPTIMIZE THE INSTALLATION - TAURUS</b>
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TAURUS KIT to perform wireless integrity tests (wireless field amplitude), system monitoring and faults check.

## ACCESSORIES FOR CONVENTIONAL FIRE ALARM SYSTEMS

<b>4437225</b>	<b>SFT-304</b>	<b>TRANSPARENT COVER FOR CALL POINTS PROTECTION</b>
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Compatible with the following items: 9137181; 9137228; 9137229; 9137230; 9137231; 9137192; 9137205; 4437518.

<b>9137285</b>	<b>WHCP-BBR</b>	<b>WEATHERPROOF CALL POINT HOUSING</b>
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Weatherproof call point housing. Reduces unwanted alarms. Optional 90 dB tamper alarm.

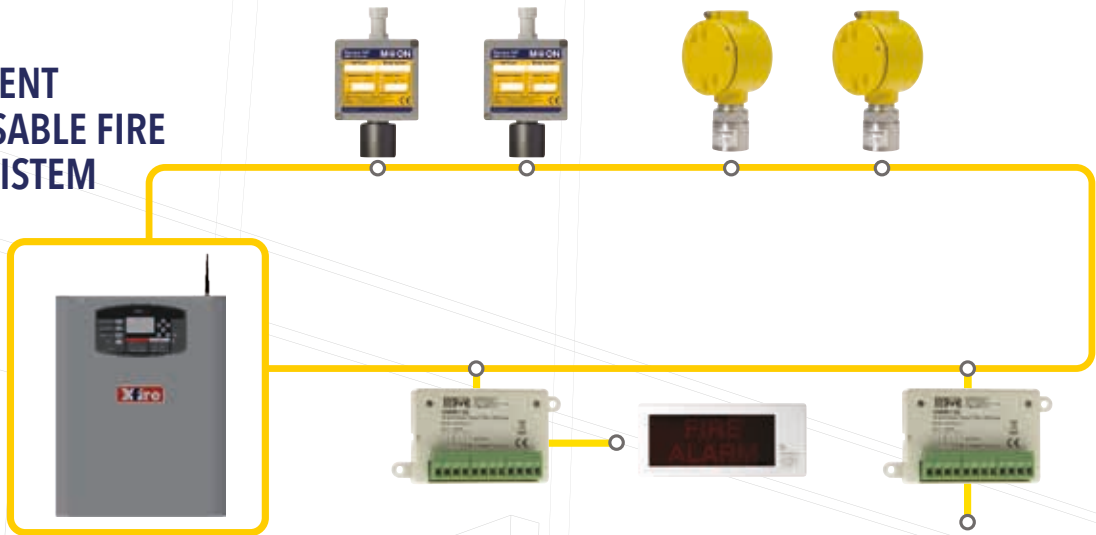


<b>4437502</b>	<b>CTS01</b>	<b>ALUMINIUM MANUAL CALL POINT WARNING SIGN</b>
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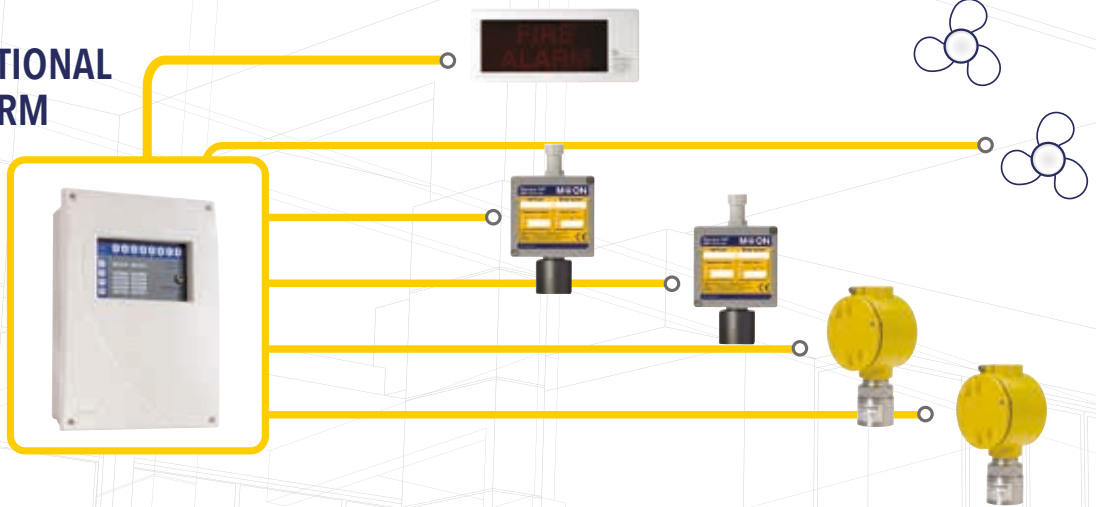
Aluminium fire manual call point warning sign 160 x 160 mm.

# GAS LEAK DETECTION ALARM SYSTEMS

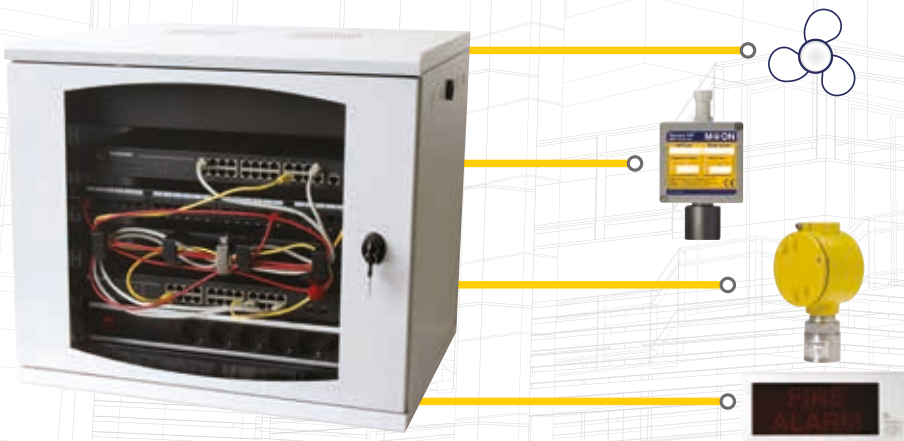
**INTELLIGENT ADDRESSABLE FIRE ALARM SYSTEM**



**CONVENTIONAL FIRE ALARM SYSTEM**



**PLC SYSTEM**



# GAS LEAK DETECTION ALARM SYSTEMS

Gas leak detection is the process of identifying potentially hazardous gas leaks by detectors. These detectors usually employ an audible alarm to alert people when a dangerous gas has been detected. This type of device is important because there are many gases that can be harmful to organic life, such as humans or animals. Gas detectors can be used to detect combustible, oxygen depletion, flammable and toxic gases. This type of device is used widely in industry and can be utilized in operations, such as painting, fumigation, fuel filling, construction, excavation of contaminated soils, land fill operations, etc. Common detectors include metal oxide semiconductor sensor, pellistor detectors, catalytic detectors, and electrochemical gas detectors.

4 types of technology are used for gas detection, offering different solutions in terms of performance and life. All the gas leak detectors produced according to the International Standards are connected with the control panels and/or other systems through mini-interface modules mounted on board.

All the detectors are configured "non-latching". This means that they automatically return to stand-by in case the gas in the environment decreases.

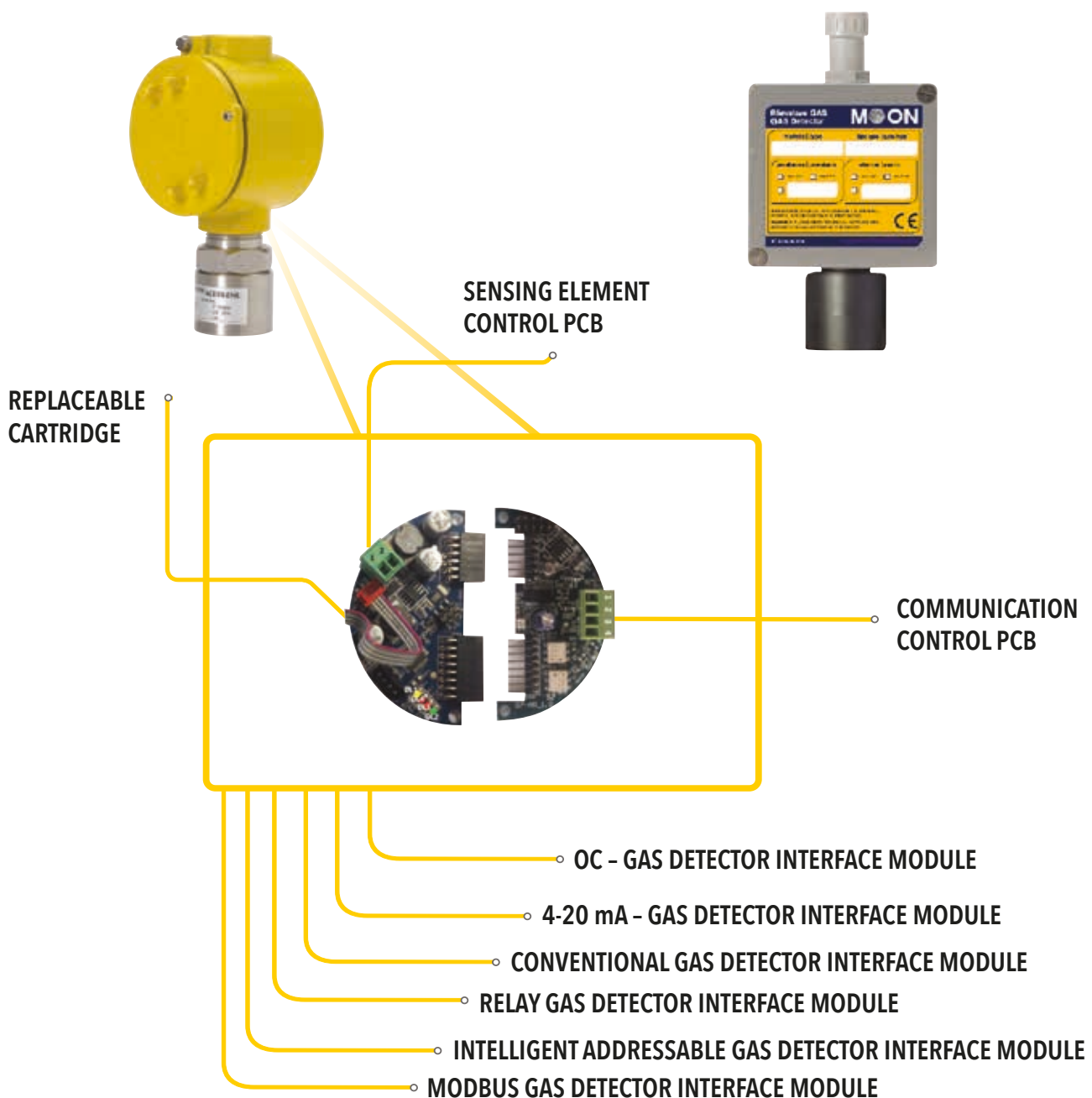
The gas range is completed with a series of accessories (gas canisters, flowmeters, etc.) with the possibility to connect them to a PC or Smartphone, allowing a total control of the status detector and all the events.

## EX D IIG ATEX HOUSING

## ANTI DUST IP65 HOUSING

EX D IIG ATEX (mm. 100 x 80) gas detectors in explosion-proof housing for use in potentially explosive atmospheres.

IP65 (mm. 100 x 100 x 70) gas detectors housing for use in normal atmospheres.





## GAS LEAK DETECTOR INTERFACE MODULES



<b>9195233</b>	<b>G7-OC</b>	<b>OC GAS DETECTOR INTERFACE MODULE</b>
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OC interface module. Separate open collector outputs for pre alarm, alarm and failure. Selectable resistors set by dip switches.

<b>9195234</b>	<b>G7-42</b>	<b>4-20 GAS DETECTOR INTERFACE MODULE</b>
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4-20 interface module. Interface manage a 4-20mA output.

<b>9195194</b>	<b>G7-RL</b>	<b>RELAY GAS DETECTOR INTERFACE MODULE</b>
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Relay interface module. The 3 relays interface provide a free of voltage relay for each single event, alarm, pre alarm and failure.

<b>9195236</b>	<b>G7-AS</b>	<b>CONVENTIONAL GAS DETECTOR INTERFACE MODULE</b>
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Conventional interface module. Developed to keep simple the connection to input modules or to conventional panels.

<b>9195237</b>	<b>G7-LV</b>	<b>INTELLIGENT ADDRESSABLE GAS DETECTOR INTERFACE MODULE</b>
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Addressable interface module. Developed to be connected directly to intelligent control panel loops.

<b>9195282</b>	<b>G7-MB</b>	<b>MODBUS GAS DETECTOR INTERFACE MODULE</b>
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Modbus interface module. Designed to communicate directly with the PLC central unit.

## SEMICONDUCTOR TYPE GAS LEAK DETECTORS

Semiconductor detectors, also known as metal-oxide-semiconductor detectors (MOS detectors), detect gases by a chemical reaction that takes place when the gas comes in direct contact with the sensor. The resistance of the tin dioxide is typically around 50 kΩ. This change in resistance is used to calculate the gas concentration.

TECHNICAL DATA	
Pre alarm	15% del L.E.L.
Allarm	30% del L.E.L.
Power supply	24 Vdc
Quiet current consumption	50 mA
Alarm current consumption	80 mA
Operating temperature range	0°C to +40°C

<b>4437524</b>	<b>G701 D</b>	<b>REFRIGERANT GAS DETECTOR 0-100% LIE</b>
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<b>9195202</b>	<b>G707S-2</b>	<b>AMMONIA GAS DETECTOR NH3 PR. 100 PPM / ALL. 200 PPM IP65</b>
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<b>9195203</b>	<b>G708S-2</b>	<b>AMMONIA GAS DETECTOR NH3 PR. 1000 PPM / ALL. 2000 PPM IP65</b>
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<b>4437525</b>	<b>E701D-2</b>	<b>REFRIGERANT GAS DETECTOR 0-100% LIE - ATEX VERSION</b>
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<b>9195212</b>	<b>E707S-2</b>	<b>AMMONIA GAS DETECTOR NH3 PR. 100 PPM / ALL. 200 PPM ATEX</b>
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<b>9195213</b>	<b>E708S-2</b>	<b>AMMONIA GAS DETECTOR NH3 PR. 1000 PPM / ALL. 2000 PPM ATEX</b>
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## CATALYTIC TYPE GAS LEAK DETECTORS

Catalytic detectors are operated with an electronic circuit called wheatstone bridge, which is suitable to convert very small resistance changes into a measurable voltage.

TECHNICAL DATA	
Pre alarm	15% del L.E.L.
Allarm	30% del L.E.L.
Power supply	24 Vdc
Quiet current consumption	70 mA
Alarm current consumption	100 mA
Operating temperature range	0°C to +40°C

9195215	G700C-2	METHANE GAS DETECTOR CH4 IP65
9195216	G701C-2	SPECIAL GAS DETECTOR IP65 - ON REQUEST (ASK FOR INFORMATION)
9195217	G702C-2	GASOLINE GAS DETECTOR IP65
9195218	G704C-2	HYDROGEN GAS DETECTOR H IP65
9195219	G705C-2	GPL GAS DETECTOR IP65
9195220	G706C-2	PROPANE GAS DETECTOR C3H8 IP65
9195221	G709C-2	ACETYLENE GAS DETECTOR C2H2 IP65
9195225	E700C-2	METHANE GAS DETECTOR CH4 ATEX
9195226	E701C-2	SPECIAL GAS DETECTOR ATEX - ON REQUEST (ASK FOR INFORMATION)
9195227	E702C-2	GASOLINE GAS DETECTOR ATEX
9195228	E704C-2	HYDROGEN GAS DETECTOR H ATEX
9195229	E705C-2	GPL GAS DETECTOR ATEX
9195230	E706C-2	PROPANE GAS DETECTOR C3H8 ATEX
9195231	E707C-2	ACETYLENE GAS DETECTOR C2H2 ATEX

## PELLISTOR TYPE GAS LEAK DETECTORS

A pellistor is a solid-state device used to detect gases which are either combustible or which have a significant difference in thermal conductivity to that of air. The word "pellistor" is a combination of pellet and resistor.

TECHNICAL DATA	
Pre alarm	15% del L.E.L.
Allarm	30% del L.E.L.
Power supply	24 Vdc
Quiet current consumption	70 mA
Alarm current consumption	100 mA
Operating temperature range	0°C to +40°C

9195252	G700P-2	METHANE GAS DETECTOR CH <sub>4</sub> IP65
9195253	G701P-2	SPECIAL GAS DETECTOR IP65 - ON REQUEST (ASK FOR INFORMATION)
9195254	G702P-2	GASOLINE GAS DETECTOR IP65
9195255	G704P-2	HYDROGEN GAS DETECTOR H IP65
9195256	G705P-2	GPL GAS DETECTOR IP65
9195257	G706P-2	PROPANE GAS DETECTOR C <sub>3</sub> H <sub>8</sub> IP65
9195258	G709P-2	ACETYLENE GAS DETECTOR C <sub>2</sub> H <sub>2</sub> IP65
9195266	E700P-2	METHANE GAS DETECTOR CH <sub>4</sub> ATEX
9195267	E701P-2	SPECIAL GAS DETECTOR ATEX - ON REQUEST (ASK FOR INFORMATION)
9195268	E702P-2	GASOLINE GAS DETECTOR ATEX
9195269	E704P-2	HYDROGEN GAS DETECTOR H ATEX
9195270	E705P-2	GPL GAS DETECTOR ATX
9195271	E706P-2	PROPANE GAS DETECTOR C <sub>3</sub> H <sub>8</sub> ATEX
9195272	E707P-2	ACETYLENE GAS DETECTOR C <sub>2</sub> H <sub>2</sub> ATEX

## ELECTROCHEMICAL TYPE GAS LEAK DETECTORS

Many toxic gases are also very reactive and under suitable conditions they change by chemical reactions. The electrochemical sensor is such a micro-reactor, which at the presence of reactive gases produces electrons just like a battery. The flow of electrons is a very low but measurable electric current.

TECHNICAL DATA	
Pre alarm	PPM o % volume
Allarm	PPM o % volume
Power supply	24 Vdc
Quiet current consumption	25 mA
Alarm current consumption	70 mA
Operating temperature range	0°C to +40°C

9195207	G701H-2	NITROGEN DIOXIDE GAS DETECTOR PRE. 5 PPM / AL. 10 PPM IP65
9195222	G703H-2	CARBON MONOXIDE GAS DETECTOR CO PRE. 100 PPM / AL. 200 PPM IP65
9195260	G707H-2	AMMONIA GAS DETECTOR NH3 PRE. 100 PPM / AL. 200 PPM IP65
9195261	G708H-2	AMMONIA GAS DETECTOR NH3 PRE. 500 PPM / AL. 1000 PPM IP65
9195223	G710H-2	OXYGEN UPPER LEVEL GAS DETECTOR PRE. 24% VOL. / AL. 27% VOL. IP65
9195224	G711H-2	OXYGEN LOWER LEVEL GAS DETECTOR PRE. 18% VOL. / AL. 15% VOL. IP65
9195232	E703H-2	CARBON MONOXIDE GAS DETECTOR CO PRE. 100 PPM / AL. 200 PPM ATEX
9195274	E707H-2	AMMONIA GAS DETECTOR NH3 PRE. 100 PPM / AL. 200 PPM ATEX
9195275	E708H-2	AMMONIA GAS DETECTOR NH3 PRE. 500 PPM / AL. 1000 PPM ATEX
9195276	E710H-2	OXYGEN UPPER LEVEL GAS DETECTOR PRE. 24% VOL. / AL. 27% VOL. ATEX
9195277	E711H-2	OXYGEN LOWER LEVEL GAS DETECTOR PRE. 18% VOL. / AL. 15% VOL. ATEX

## ACCESSORIES FOR GAS LEAK DETECTORS

<b>9195241</b>	<b>A55-701</b>	<b>CONFIGURATION APP</b>
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Gas leak detectors configuration App for Android with USB HOST. Needed for replacement cartridge, and test gas concentration. Event log viewer.



<b>9195170</b>	<b>A55-104</b>	<b>TEST VALVE</b>
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8mm valve for test gas canisters.



<b>9195173</b>	<b>A55-108</b>	<b>VALVE ADAPTOR</b>
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Sensor test adaptor.



<b>9195239</b>	<b>A55-109</b>	<b>MOUNTING BRACKET FOR ATEX DETECTORS</b>
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Atex detectors mounting inox bracket.

<b>9195247</b>	<b>A55-110</b>	<b>FLOWMETER</b>
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8mm valve flowmeter.



## TEST GAS CANISTERS

1lt test gas canisters with certificate.



<b>9195174</b>	<b>B55-100</b>	<b>20% PROPANE TEST GAS CANISTER</b>
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20% Propane test gas canister.

<b>9195175</b>	<b>B55-101</b>	<b>40% PROPANE TEST GAS CANISTER</b>
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40% Propane test gas canister.

<b>9195176</b>	<b>B55-102</b>	<b>20% METHANE TEST GAS CANISTER</b>
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20% Methane test gas canister.

<b>9195177</b>	<b>B55-103</b>	<b>40% METHANE TEST GAS CANISTER</b>
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40% Methane test gas canister.

<b>9195178</b>	<b>B55-104</b>	<b>20% HYDROGEN TEST GAS CANISTER</b>
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20% Hydrogen test gas canister.

<b>9195179</b>	<b>B55-105</b>	<b>40% HYDROGEN TEST GAS CANISTER</b>
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40% Hydrogen test gas canister.

<b>9195180</b>	<b>B55-106</b>	<b>20% ACETYLENE TEST GAS CANISTER</b>
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20% Acetylene test gas canister.

## TEST GAS CANISTERS



<b>9195181</b>	<b>B55-107</b>	<b>40% ACETYLENE TEST GAS CANISTER</b>
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40% Acetylene test gas canister.

<b>9195185</b>	<b>B55-111</b>	<b>20% ISOBUTANE TEST GAS CANISTER</b>
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20% Isobutane test gas canister.

<b>9195186</b>	<b>B55-112</b>	<b>40% ISOBUTANE TEST GAS CANISTER</b>
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40% Isobutane test gas canister.

<b>9195182</b>	<b>B55-108</b>	<b>100ppm CARBONE MONOXIDE TEST GAS CANISTER</b>
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100ppm Carbone monoxide test gas canister.

<b>9195183</b>	<b>B55-109</b>	<b>200ppm CARBONE MONOXIDE TEST GAS CANISTER</b>
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200ppm Carbone monoxide test gas canister.

<b>9195184</b>	<b>B55-110</b>	<b>27% OXYGEN TEST GAS CANISTER</b>
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27% Oxygen test gas canister.

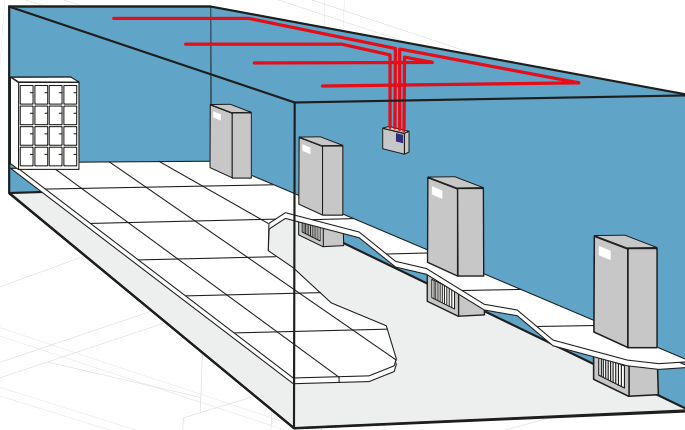
<b>9195248</b>	<b>B55-113</b>	<b>15% OXYGEN TEST GAS CANISTER</b>
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15% Oxygen test gas canister.

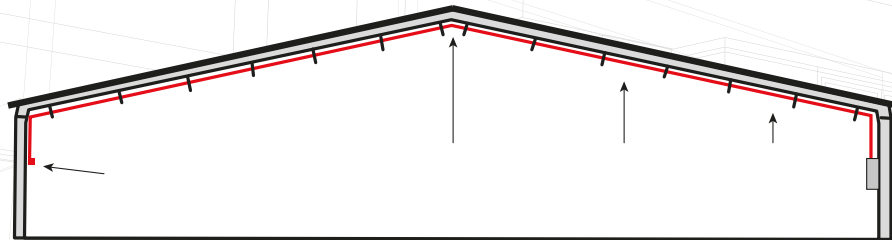
# ASPIRATING FIRE DETECTION SYSTEMS

## INSTALLATION EXAMPLES

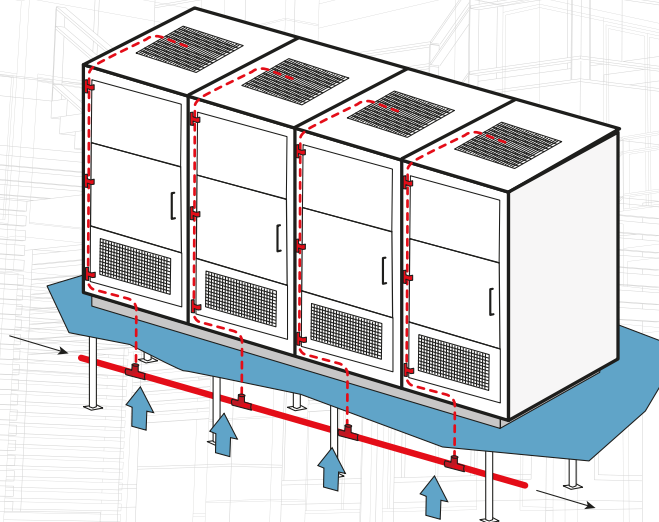
CEILING ASPIRATION  
FIRE DETECTION SYSTEM



STORAGE ASPIRATION  
FIRE DETECTION  
SYSTEM AND  
TEST POINT



FLOOR VOID SERVER  
ROOM ASPIRATION FIRE  
DETECTION SYSTEM AND  
CAPILLARY ON RACKS





# ASPIRATING FIRE DETECTION SYSTEMS

Aspirating detection systems now cover an extensive number and variety of applications. Each different aspirating system application will have many varying dimensions, airflows, background particle levels, sensitivity requirements and performance requirements, etc. Therefore, each application needs to be designed specifically for its own layout and risk.

Aspirating system applications may contain different combustible materials and therefore differing amounts and types of fire and smoke particles may be created in these areas. For this reason, it is important to select the correct detection technology for the risk.

Firstly, it is important to understand how a fire starts. The earliest stages of a fire (incipient stage) is when a combustible material overheats. This produces a very high quantity of invisible "fire" particles (0,0025 Microns in size), that may have an odour but cannot be seen: only Cloud Chamber based detectors can detect this stage of a fire and make visible the particles.

Hybrid Scanner system is therefore able, not only to reveal fire principles in advance of the traditional systems but also to identify exactly from which pipe/zone, the fire is coming from.

The **Riellofire** range is completed by Pro Point Plus aspirating smoke sensors. They use "optical" LED Scatter Chamber Detectors (SCD's) within each of the four individual aspirator sampling ports for a verification of smoke levels. They can be configured without the need for a laptop connection.

It is important to underline the real advantages of these systems in terms of maintenance, since their simplicity and immediacy make them extremely performing in difficult environments such as: high ceiling areas, false ceilings, data centres, cold rooms and all the places where it carrying out a periodic maintaince can be difficult.

## Pro PointPlus ASPIRATING SMOKE DETECTION SYSTEMS

Aspirating smoke detection system with 1-4 individual detectors per aspirator, providing up to 4 separately identifiable areas. High performance optical 'Scatter Chamber Detectors' (SCD) and enhanced CO detection. Simple installation and commission process without the need for a laptop connection. Multi-function LCD display. Inbuilt algorithm to avoid unwanted alarms. Simple class A, B, C sensitivity configuration set up. **EN54-20**.



### TECHNICAL DATA

Power supply range	20 - 29 Vdc
Max. current consumption	400 mA to 24Vdc
IP rating	IP 30
Max. humidity	95% RH no condensing
Sampled inlet air temperature range	-20°C to +60°C
Operating temperature range	0°C to +55°C
Max. area coverage	2000 mq
Max. sampling pipe length	200 mt
Dimensions	380mm x 250mm x 137mm

## Pro Point Plus ASPIRATING SMOKE / CO DETECTOR

<b>9137296</b>	<b>61-986-106</b>	<b>PRO POINT PLUS 1 WITH CO</b>
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CO Aspirating system, 1 channel expandable to 4.

<b>9137300</b>	<b>51-433-00B</b>	<b>SINGLE SCD</b>
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Single SCD detector with CO to expand Pro Point Plus.

## Pro Point Plus ASPIRATING SMOKE DETECTOR WITHOUT CO

<b>4437296</b>	<b>61-986-106-OP</b>	<b>PRO POINT PLUS 1 WITHOUT CO</b>
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Aspirating system without CO, 1 channel expandable to 4.

<b>4437300</b>	<b>51-451-00</b>	<b>SINGLE SCD WITHOUT CO</b>
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Single SCD detector without CO to expand Pro Point Plus.

## CIRRUS HYBRID ASPIRATING FIRE & SMOKE DETECTION SYSTEMS

The first and only 'Combined Fire & Smoke' aspirating detector. Unique 'Cloud Chamber Detection' (CCD) like primary detection technology and optical 'Scatter Chamber Detectors' (SCD) like secondary detection technology. 7" full color multi-function touchscreen LCD display. Hybrid 'Smart Signal' to verify alarms and discriminate false alarms. Simple class A, B, C sensitivity configuration set up. **EN54-20**.



### TECHNICAL DATA

Power supply range	20 - 29 Vdc
Max. current consumption	700 mA @ 24Vdc
IP rating	IP 30
Max. humidity	95% RH no condensing
Sampled inlet air temperature range	-20°C to +60°C
Operating temperature range	0°C to +55°C
Max. area coverage	2000 mq
Max. sampling pipe length	260 mt
Dimensions	380mm x 250mm x 137mm

## CIRRUS HYBRID ASPIRATING FIRE & SMOKE "SCANNING" DETECTOR

<b>9137306</b>	<b>61-986-H2S</b>	<b>HYBRID H2S SCANNING</b>
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Cloud Chamber & scanning aspirating system, 2 channels expandable to 4.

<b>9137309</b>	<b>51-432-00B</b>	<b>CIRRUS HYBRID SINGLE SCD MODULE</b>
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Single SCD detector to expand HYBRID system.

## CIRRUS HYBRID ASPIRATING FIRE & SMOKE "NO SCANNING" DETECTOR

<b>4437305</b>	<b>61-986-H1</b>	<b>HYBRID H1 NO SCANNING</b>
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No scanning aspirating system, 1 channel expandable to 4.

<b>9137309</b>	<b>51-432-00B</b>	<b>CIRRUS HYBRID SINGLE SCD MODULE</b>
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Single SCD detector to expand HYBRID system.

## RED SAMPLING PIPE & ACCESSORIES

<b>9137373</b>	<b>550</b>	<b>ABS SAMPLING PIPE</b>
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3m length 25mm o/d red ABS sampling pipe.



<b>9137374</b>	<b>551</b>	<b>ABS JOINTING SOCKET</b>
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25mm red ABS jointing socket.



<b>9137375</b>	<b>554</b>	<b>ABS TEE PIECE</b>
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25mm red ABS 'tee' piece.



<b>9137376</b>	<b>552</b>	<b>ABS 90° LONG RADIUS BEND</b>
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25mm red ABS 90 degree long radius bend.



<b>9137377</b>	<b>555</b>	<b>ABS 45° ELBOW</b>
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25mm red ABS 45 degree elbow.



## RED SAMPLING PIPE & ACCESSORIES

<b>9137378</b>	<b>553</b>	<b>ABS END CAP</b>
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25mm red ABS end cap.



<b>9137379</b>	<b>559</b>	<b>ABS SOCKET UNION</b>
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25mm red ABS socket union.



<b>9137380</b>	<b>558</b>	<b>ABS PIPE CLIP</b>
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25mm red ABS pipe clip.



<b>4437451</b>	<b>582</b>	<b>ABS 30 CM FLEXIBLE BEND</b>
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25mm ABS 30cm. flexible bend.



<b>4437450</b>	<b>583</b>	<b>ABS 100 CM FLEXIBLE LOOP</b>
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25mm ABS 1m flexible loop.



## RED SAMPLING PIPE & ACCESSORIES

<b>9137385</b>	<b>550 SR</b>	<b>FLEXIBLE RED SAMPLING PIPE</b>
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50m length of 25mm o/d flexible red sampling pipe.



<b>9137381</b>	<b>564</b>	<b>RED CAPILLARY SAMPLING TUBE</b>
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30m coil red 10mm capillary sampling tube.



<b>9137384</b>	<b>561</b>	<b>FLUSH DISK CAPILLARY TEST POINT</b>
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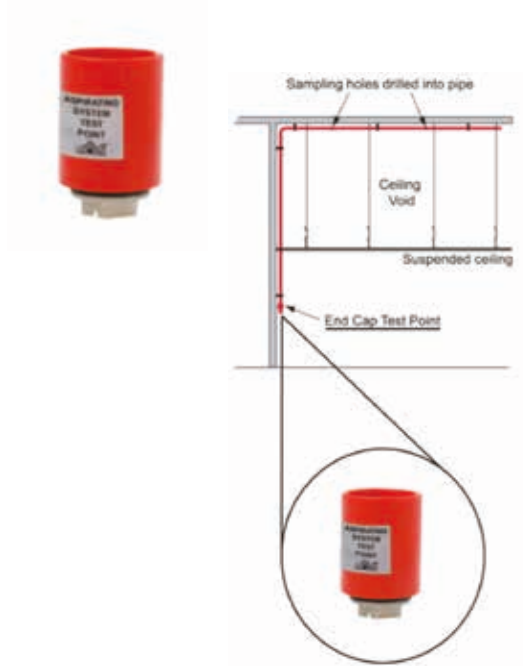
Flush disc capillary 'test point' c/w 2m 10mm red sampling tube & 'tee'.



## RED SAMPLING PIPE & ACCESSORIES

<b>9137395</b>	<b>585</b>	<b>TEST POINT</b>
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25mm red ABS end cap 'test point'



<b>9137386</b>	<b>556</b>	<b>SOLVENT</b>
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250ml tin solvent cement.



<b>4437470</b>	<b>612</b>	<b>COMPRESSOR CHECK VALVE</b>
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Compressor check valve airline release valve.



## RED SAMPLING PIPE & ACCESSORIES

<b>4437471</b>	<b>546</b>	<b>PRESSURE RELIEF VALVE</b>
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ABS pressure relief valve.



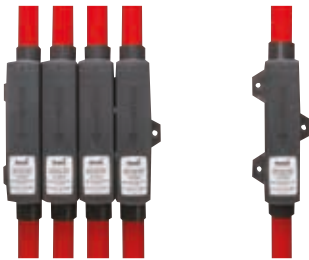
<b>9137387</b>	<b>584</b>	<b>CONDENSATION TRAP</b>
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Condensation trap.



<b>9137389</b>	<b>986</b>	<b>IN-LINE SAMPLING PIPE DUST FILTERS</b>
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25 mm in line sampling pipe dust filters.



<b>4437460</b>	<b>45-028</b>	<b>REPLACEMENT FILTER MESH</b>
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3 stage replacement filter mesh.

<b>9137396 9137397 9137398 9137399 9137400</b>	<b>534 536 538 540 541</b>	<b>HOLE IDENTIFICATION TAGS PURPLE/ YELLOW GREEN/WHITE/BROWN</b>
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Hole identification tags: 2mm purple, 3mm yellow, 4mm green, 5mm white, 6mm brown.





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