Version 7

Eurotech is an established name, one that matters in supplying the latest in fire detection technology to save lives and businesses.

Eurotech is passionate about saving lives and businesses by working with the world's leading strategic manufacturing partners they can bring forward technological advanced systems that lead the way in rapid and reliable fire detection.

Eurotech is an industry leader in:

Scale: With 240-addresses on a single loop, Eurotech remains one of the few who can bring this scale of cost effective detection system to the fire industry.

Protocol: Eurotech offers a clear alternative to the traditional fire industry 'Closed' and 'Open' Protocols with MESH – The Combined Protocol. A single-branded system, fully approved to national and international standards, without contract tie-ins.

Customer Service: Eurotech's customers matter. By offering the best possible support, training and distribution, Eurotech is rapidly building a reputation for quality customer service in the fire industry.

We care about your business

Because It Matters

eurotech
fire systems limited

Our commitment to you

Eurotech Fire Systems Ltd is a privately owned UK organisation based in Waterlooville, Hampshire.

Eurotech Fire Systems Ltd provides a single branded approved fire detection system, certified to national and international standards.

We work with proven products supplied and supported by a fully experienced team of people who are passionate and dedicated to our industry in "life safety".

Our exceptional knowledge provides you comprehensive technical support both pre and post order placement. We offer free training on our product range to ensure you fully utilise all our system benefits especially utilising the 240 addresses per loop.

Eurotech's staff are committed to exceptional customer service and rapid delivery to exceed your expectations. Whatever your needs – one telephone call is all you need to make.

Michelle Agius

Managing Director

LPCB FIA Fire Industry Association bsi. ISO 9001 Quality Management

Content

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Conventional Detection Products

Detectors

EURVC-P Eurotech Conventional Smoke Detector 100-2210V

The optical detector has been designed with a unique symmetrical chamber.
The chamber ensures optimum air entry from all directions and offers immunity to ambient light into the detectors.
A drift compensation algorithm maintains alarm sensitivity thresholds effectively extending time between maintenance periods.

EURVC-OH Eurotech Conventional Multi-Sensor Detector 100-2222V

The 100-2222V multi-criteria detector combines optical and thermal detection capability providing early fire warning with a high level offalse alarm rejection.
A drift compensation algorithm maintains alarm sensitivity thresholds effectively extending the time between maintenance periods. A single centrally positioned thermistor continuously samples the temperature variation
in the protected area.

EURVC-H-A1R/B Eurotech Conventional Heat Detector 100-2505V

The thermal detector incorporates a single centrally positioned NTC thermostat that continuously samples temperature variations in the protected area.
The detector its self can be configured as a rate of rise class detector A1R or high temperature class B heat detector.

EVC-PY-IS Intrinsically Safe Optical Detector
For use in hazardous areas, good response to slowly developing fires.
Y type chamber, good response to black smoke.
Part No: 100-8300

EVC-IR Dual Band IR Flame Detector (Conventional)
Detects IR radiation produced by a flickering flame.
Part No: 100-0044

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Specialist Detection

Stratos-HSSD©

High Sensitivity Smoke Detection System

Stratos-HSSD© High Sensitivity Smoke Detection system.

AirSense crosses a new horizon with its award winning Stratos-HSSD© High Sensitivity Smoke Detection system.

The team behind the Stratos-HSSD-2 system has almost 200 man-years experience in the field of aspirating High Sensitivity Smoke Detection systems. This unparalleled depth of experience has been drawn upon to produce the Stratos-HSSD series 2 system. Stratos-HSSD embodies many unique features to maximise performance and increase reliability compared to other aspirating detection systems. Stratos-HSSD is recognised as being easily the most sensitive laser based system available, but coupled to the unique ClassiFire-3D® Artificial Intelligence (AI) process, this need not mean a high rate of nuisance alarms.

Stratos-HSSD is the only optical high sensitivity system which is routinely applied to the protection of very dirty and dusty environments. This is achieved by combining Laser Dust Discrimination (LDD™) with a patented dust management bypass and separation system. At the other extreme, Stratos-HSSD is capable of providing the very highest levels of sensitivity in environments such as computer areas and clean rooms. In these applications it is able to give warning to the very slightest trace of smoke.

Stratos-HSSD is fully capable of reacting to true INCIPIENT fire situations, thereby preventing damage. Stratos-HSSD provides the EARLIEST warning.

High Sensitivity Detectors

Order Codes

Part No:	Part description
30621	Stratos-HSSD 2 Standard Detector
30620	Stratos-HSSD 2 Detector fitted with Command Module
30623	Stand alone Command Module with internal PSU
30624	Stand alone Command Module without PSU
30671	Stratos-Micra 25 & docking station and relay input
30760	Stratos-Micra 25 & docking station and relat input card
30672	Stratos-Micra 100 & docking station
30764	Stratos-Micra 100 & docking station & relay input card

Specification

Supply	Voltage 21.6V - 26.4V DC
Size	427W x 372H x 95D
Weight	5.2kg
Operating temperature range	-10 to +60°C
Operating humidity range	Min = 25% Max = 0.03% FSD
Maximum sensitivity resolution	0.0015% obs/m
Detection principle	Laser light scattering mass detection & particle evaluation
Particle sensitivity range	0.0003µ to 10µ
Dust discrimination principle	3D3 Laser Dust Discrimination (LDD)
Current consumption	400mA @ 24V DC
Sampling pipe maxima	250m @ 80 sampling holes - 200m @ 100 sampling holes
Sampling pipe inlets	4 on top and 4 at rear
Sampling pipe outlets	1 on top and 1 at rear
Sampling pipe internal diameter	15-25mm
Alarm levels	4 (Fire 2, Fire 1, PreAlarm and Aux)
Bargraph sensitivity range	0.0015 - 25% obs/m
Bargraph segments	26
Chamber service intervals	Greater than 8 years (dependant on environment)
Dust separator replacement intervals	Dependant on environment
Laser lifetime (MTTF)	Greater than 1000 years
Aspirator lifetime	Greater than 10 years
Programming	Front panel or PC via RS232/RS485
Data loop cable	RS485 data cable
Data loop maximum length	1,200m in 1,200m out
IP rating	IP50
Supported languages on internal programmer	Czech, Dutch, English, Estonian, Finnish, French, German, Hungarian, Italian, Norwegian, Spanish, Swedish

Eurotech Fire Systems Limited
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Fire Beam

Self Adjusting Optical Beam Smoke Detector

Key Features

Reduce the risk of expensive false alarms and misalignment faults.

Eurotech now offer a reflective optical beam smoke detector with a motorised head, that can align itself when commissioning, and continually correct itself against building movement.

The fire beam protection system includes a motorised head unit containing an infra-red transmitter and receiver, a ground level controller and prism reflector. Making use of the prism reflector the returned infrared beam is analysed for smoke contamination and registers a fire condition at a pre determined level. At ground level the controller unit is used to make operational adjustments. The standard Protection system covers a range of 5 to 40 meters, 2 further range kits are available, a 40 to 80 meter kit that utilises 4 reflectors and finally an 80 to 100 meter kit that makes use of 9 reflectors.

Motorised Head

The fire beam incorporates microprocessor controlled motors that intelligently align the head at all times. When first commissioning the head accurately aligns itself, and in operation the head will re align should there be building movement, a problem with new build settlement and environmental change. The fire beam's unique ability to self align means that high level re adjustment is no longer required, saving time, disruption and importantly cost. The motorised head means greater reliability that will reduce troublesome false alarms.

The fire beam protection system uses only 3mA at all times, so in most cases can happily be zone powered. Compatible with most major fire panels the simplicity of our system usually means no extra power supply, meaning easier installation and a lower installation cost. (Please refer for details).

The fire beam has been designed to fully comply with EN 54 part 12. and exceeds European standards, in particular BS5839 part 1.

What makes it so good?

The fire beam ground level controller has been especially designed to take away the need for high level maintenance, with a simple menu system viewed through a LCD screen all adjustments can be made at ground level including a test procedure. This can save you time and money.

Compensation

The fire beam will automatically compensate for a build up of dust over the lenses. From the LCD display you can check the current status and only clean the lenses when required.

Change Latching Mode

The fire beam relays can be set to latch on alarm or auto reset depending on your individual requirement.

Other Features

Built into the fire beam protection system is an IP rating of IP65. The system is fully sealed against contamination ingress, which means that it is possible to place the fire beam in unfriendly environments and could even be pressure washed.

Fire Beam

Key Features

Technical Specification

A full technical specification of the Fire Beam and associated components can be seen below, answering most of the questions you may have. Beneath this we have also included a comparison chart which shows how the Fire Beam performs when compared side by side to its competitors.

Electrical Specifications:

Supply Voltage	10.2 to 40 VDC
Supply Current	3mA (constant current) in all operational states

Environmental Specifications:

Temperature	-10°C to +55°C
Humidity	10 to 95% RH Non-condensing
Protection Index	IP65 when suitably mounted and terminated

Mechanical Specifications:

Beam Head	180mmH x 155mmW x137mmD Weight 1.1Kg
Controller	185mmH x 120mmW x 62mmD Weight 0.55Kg
Mid Range Kit	293mmH x293mmW x 5mmD Weight 0.8Kg
Long Range Kit	394mmH x 394mmW x 5mmD Weight 1.8Kg
Adaptor Plate	270mmH x 250mmW x 5mmD Weight 0.6Kg
	(mounts the Beam Head onto Unistrut)

Optical Specifications:

Optical Wavelength	870nm
Maximum Angular Alignment	±15°
Maximum Angular Misalignment	(static not auto-aligning)
	Beam Head ±0.75° / Reflector ±2°

Operational Specifications:

Protection Range

Standard Fire Beam	5 to 40 metres
Mid Range Kit	40 to 80 metres
Long Range Kit	80 to 100 metres

Alarm Sensitivity Levels

25% (1.25dB) to 50% (3dB) in 1% (0.05dB) increments (default 35% (1.87dB))

Alarm Condition:

Obscuration drops to below pre-defined sensitivity level.

Time to Alarm Condition adjustable between 2 to 30 seconds in 1 second increments (default setting is 10 seconds)

Alarm Indication:

Controller Status - FIRE

Controller Red Flashing LED 0.5 Second

Head Red Flashing LED 1 Second

Alarm Relay Change Over (CO) Contact

Rating 2A @ 30 VDC

Test / Reset Features:

Beam test function by controller

Alarm latching / auto-reset selectable (default auto-reset)

Alarm reset in latching mode by controller reset function, removing power for >5 seconds, apply 12 to 24 VDC to reset connections in Beam Head.

Fault Sensitivity Level:

90%

Fault Condition:

Obscuration drops to below the fault sensitivity level within 1 second

Power Down or Supply Voltage < 9 VDC

Commissioning modes, Pre-Alignment and Auto Alignment

Beam turned off during Beam Maintenance (auto resets in 8 hours to normal)

Time to Fault Condition adjustable, 2 to 60 seconds in 1 second increments (default 10 seconds)

Fault Indication:

Controller Status - FAULT

Controller Yellow Flashing LED 1 Second

Head Yellow Flashing LED 1 Second

Fault Relay Change Over (CO) Contact Rating 2A @ 30 VDC

Normal Condition:

Obscuration level is above the Alarm sensitivity level

Controller Status - NORMAL

Controller Green Flashing LED 1 Second

Programmable on/off

Head Green Flashing LED 1 Second

Programmable on/off

Auto-Align / Beam Contamination Compensation:

Auto-align during normal operation if obscuration drops below 90% (doesn't effect normal operating mode)

Beam Contamination Compensation 4 hour monitoring. Compensation data available at the controller

Beam Detectors Product range

Basic Firebeam including Controller & 1 reflector covers distance 5 - 40 metres

Range Extension kit 40 - 80 metres

Range Extension kit 80 - 100 metres

Head interface adapter to mount to unistrut

Antifog window for head and single Antifog reflector

Single Antifog reflector

Anti fog window

Anti fog firebeam

Anti fog mid range kit

Anti fog long range kit

1.5A 24V Firebeam Power Supply

Bases, Call Points and Accessories

EURVC-UB Eurotech Conventional Base
100-3500V

Conventional detector low profile mounting base.
Secure and reliable cable termination
The Base does not provide line continuity during detector removal.
A useful terminal provides remote indicator output, & accepts 2.5mm cables.

EURVC-DB Eurotech Conventional Diode Base
100-3510V

Conventional detector low profile mounting base.
Secure and reliable cable termination
Fitted with an alarm current limitation resistor to provide continuity during detector removal.
A useful terminal provides remote indicator output, & accepts 2.5mm cables.

EURB-IS Intrinsically Safe Base
Base for use with EVC-PY-IS.
Part No: 100-3522

EUR-AMB Adjustable Mounting Bracket For Flame Detector
For directional mounting of Eurotech flame detectors.
Part No: 100-3543

EURVC-MCP-IP24 Conventional Eurotech Manual Call Point
Manual call point (IP24) for fast response manual operation of fire alarm system.
Part No: 100-1010
Standard: EN54-11:2000 +A1:2005
Operating voltage: 20-28v
Operating current: (alarm: 50mA @24v

EURVC-MCP-IP67 Conventional Eurotech Waterproof Manual Call Point
Manual call point (IP67) for fast response manual operation of fire alarm system.
Part No: 100-1011
Standard: EN54-11:2000 + A1:2005
Operating voltage: 20-28v
Operating current: (alarm: 50mA @24v

Alarm Devices and Modules

RIU-02B Remote Indicator Unit - Single Gang Blank - Surface

The RIU unit is used to give a remote indication of the status of a single or groups of fire detectors in alarm state utilising an LED with a wide area of illumination and high on/off contrast. The units are compatible with the majority of conventional and addressable systems and can also be used for security and process control applications. The standard version is a single gang flush mounted unit, with or without 'Fire Detector Operated' text and also available with a deep back box for surface mounting.

- Direct fit to a single gang deep back box
- Circular version available without text
- Text is available in other languages
- Custom legend available on request

Part No: 502-002
Part No: 502-002 Blank
Part No: 502-004 Fire Detector Operated

VBL-6 24v 6" Low Current Bell (Red or Grey)

The VBL 6" motorised bell has been designed to offer maximum performance combined with rapid installation and a sleek low profile appearance. The bell is used for a wide range of alerts including fire alarm. The unit comes complete with a tamper resistant hex bolt and for easy installation an allen key is provided.

- Low current consumption
- Available in red or grey
- Low profile design

VBL-6-R - Part No: 309-024 (Red)
VBL-6-G - Part No: 309-025 (Grey)

EVTB Spatial Sounder/Beacon

The EVTB combined unit has been designed to cater for both the fire and security markets, offering a wide voltage range. The product can easily be retro-fitted in place of a EVTG sounder on existing systems without the need for additional power supply considerations. This is especially beneficial where the Disability Discrimination Act calls for visual indication. Synchronisation of light output is standard, as is the option to operate the EVTB as a flasher/beacon only.

- 32 tones plus a selectable override tone
- Available in red or white fire retardant ABS
- Mounting base options available as Shallow (IP43) or Deep (IP65)
- Combines a high output light source, produced via an efficient LED cluster
- Choice of Red, Amber, Clear or Blue colour lens

EVTB-32-SB-RB/RL 24v 32 Tone Shallow Base-red Body / red Lens - Part No: 511-095LEUR
EVTB-32-DB-RB/RL 24v 32 Tone Deep Base-red Body / red Lens - Part No: 511-097LEUR

EVTG Spatial Sounders EN54 Part3 Approved

The EVTG spatial sounder has been designed to cater for both the fire and security markets, offering a wide voltage range. EN54 approved and anti-tamper versions available.

- 32 tones plus a selectable override tone
- Available in red or white fire retardant ABS
- Shallow base or Deep base IP65
- Energy efficient high output technology

EVTG-32E-SB-R 24 v 32 Tone EN54 Part 3 Approved Shallow Base-Red - Part No: 510-017EUR
VTG-32E-DB-R 24 v 32 Tone EN54 Part 3 Approved Deep Base-Red - Part No: 510-019EUR

Intelligent Detection Products

Detectors

EURV-PI Eurotech Intelligent Smoke Detector c/w Isolator 100-2101V

The EURV-PI optical detector detects smoke by the Tyndall effect and continuously samples the air in the protected area to provide the earliest warning of fire offering at the same time a high level of false alarm rejection.

A bi-directional isolator is fitted to help protect against wiring faults and allows auto addressing on compatible control panels.

EURV-PHI Eurotech Intelligent Multi-Sensor Detector c/w Isolator 100-2401V

The EURV-PHI multi-criteria detector detects smoke by the Tyndall effect and supervises environmental temperature with low thermal inertia via acentrally placed NTC thermistor. The combined data of optical and thermal provides the earliest warning of fire offering at the same time a high level of false alarm rejection.

A bi-directional isolator is fitted to help protect against wiring faults and allows auto addressing on compatible control panels.

EURV-H-A1RI Eurotech Intelligent Heat Detector c/w Isolator 100-2201V

The EURV-H-A1RI heat detector supervises environmental temperature with low thermal inertia allowing the device to operate as an A1R or BS detector. The detector can be used as either an A1R or BS heat detector.

This is selectable using the 100-8003a programming tool.

A bi-directional isolator is fitted to help protect against wiring faults and allows auto addressing on compatible control panels.

EURV-P Eurotech Intelligent Smoke Detector 100-2100V

The EURV-P optical detector detects smoke by the Tyndall effect and continuously samples the air in the protected area to provide the earliest warning of fire offering at the same time a high level of false alarm rejection.

EURV-PH Eurotech Intelligent Multi-Sensor Detector 100-2400V

The EURV-PH multi-criteria detector detects smoke by the Tyndall effect and supervises environmental temperature with low thermal inertia via acentrally placed NTC thermistor. The combined data of optical and thermal provides the earliest warning of fire offering at the same time a high level of false alarm rejection.

EURV-H-A1R Eurotech Intelligent Heat Detector 100-2200V

The EURV-H-A1R heat detector supervises environmental temperature with low thermal inertia allowing the device to operate as an A1R or BS detector. The detector can be used as either an A1R or BS heat detector.

This is selectable using the 100-8003a programming tool.

Bases, Call Points and Accessories

EURB-4-EV Standard Base
Standard base for use with Eurotech intelligent detectors.
Part No: 100-3302V

EURV- ISO ISOLATOR MODULE
Single gang back box mounted stand alone "dumb" short circuit isolator.
Part No: 100-1442V

EURV-MCPI-IP24 Intelligent Manual Call Point with Isolator

Manual call point for fast response manual operation of fire alarm system with integral isolator.

Part No: 100-2003V
Standard: EN54 11: 2001 +A1:2005, EN54-17:2005
Operating voltage: 15-40v
Operating current: (alarm: 6mA @24v

EURV-MCP-IP67 Intelligent Waterproof Manual Call Point with Isolator

Weatherproof call point for fast response manual operation of fire alarm system with integral isolator.

Part No: 100-2004V
Standard: EN54 11: 2001 +A1:2005, EN54-17:2005
Operating voltage: 15-40v
Operating current: (alarm: 6mA @24v

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Intelligent Alarm Devices/Modules

Protocol Devices & Accessories

EURV-ABSS Eurotech Platform Slave Base Sounder 100-5013V

Eurotech's intelligent loop powered slave base sounder devices is designed to be fully compatible with the Eurotech intelligent range of devices. The base sounder is complete with 32 selectable tones configurable by the installer through a set of switches on the sounder itself.
The number of devices on the loop is determined by the total loop load calculation.

EURV-ABSbS Eurotech Platform Slave Base Sounder Beacon 100-5014V

Eurotech's 100-5011V base sounder beacon are intelligent loop powered devices designed to be fully compatible with the Eurotech intelligent range of devices.
The sounder beacon provides 360 degree visibility and is ideally suited for applications where sounders may not be sufficient to raise an alarm.
The number of devices on the loop is determined by the total loop load calculation.

EURV-ABS Eurotech Platform Base Sounder 100-2010V

The Eurotech Platform Base Sounder encorporates all of the features of the 100-5013V and more;
Each devices takes one unique address from the range of 1 to 240.
A Bi-directional isolator is fitted to help protect against wiring faults and allows auto addressing on compatible control panels.
The number of devices on the loop is determined by the total loop load calculation.

EURV-ABSB Eurotech Platform Base Sounder Beacon 100-5011V

The Eurotech Platform Base Sounder Beacon encorporates all of the features of the 100-5014V and more;
Each devices takes one unique address from the range of 1 to 240.
A Bi-directional isolator is fitted to help protect against wiring faults and allows auto addressing on compatible control panels.
The number of devices on the loop is determined by the total loop load calculation.

EURV-WSR Eurotech Intelligent Wall Sounder 100-2114V

The Eurotech Intelligent Wall Sounder forms the core of our Alarm Device range. The unit is of a modular design and available in a weatherproof variant (100-2041V)

The unit has a built in microphone which allows the unit to indicate a fault should the sounder not operate when activated or tested.

- Third party approved to the requirements of EN54-3
- 32 Tone Settings
- Two stage alarm capability
- Easy to install
- High sound output capability
- On site Adjustable Volume Settings
- Microphone self test facility
- Robust & High reliability

EURV-AV Eurotech Intelligent Wall Sounder Beacon 100-2011V

The Eurotech Intelligent Wall Sounder Beacon forms the core of our EN54-23 Visual Alarm Device range. The unit is of a modular design and available in a weatherproof variant (100-2039V).

The unit has a built in microphone which allows the unit to indicate a fault should the sounder not operate when activated or tested.

- Flexible Modular Design
- Third party approved to the requirements of EN54-3 and EN54-23
- 32 Tone Settings
- Two stage alarm capability
- Easy to install
- Silent Sounders setting for beacon only use
- Microphone self test facility
- Robust & High reliability

Modules

EURV-ZMU Eurotech Zone Monitor Module 100-2023V

The conventional zone monitor connects a zone of conventional detectors to a Eurotech intelligent loop.
The device has an onboard relay output driven by the control panel. The conventional zone module is designed to provide different current limits.
The module detects open circuits, short circuit and monitors an external power supply.
The communication loop is fully isolated from the conventional zone module and from the power supply.

EURV-IM-SP Eurotech Supervised Input Module 100-2027V

The Eurotech supervised input modules are loop powered and operates using the Eurotech protocol.

The input channel is supervised and will detect normal/short/alarm/open conditions.

Fast alarm and fault signalling.
It is available in different shapes, useful for different installation requests.

Versions Available

100-2027V EURV-IM-SP single supervised input module (wall mount no box)
100-2025V EURV-IM-SM single supervised input mini module
100-2028V EURV-IM-SD single supervised input module (DIN rail mount)

EURV-OM-SP Eurotech Supervised Output 100-2030V

The Eurotech supervised output modules are loop powered and operates accordingly to the Eurotech protocol.

A double bi-colour (red/green) LED driven by the control panel indicated the module condition.

It is available in different shapes, useful for different installation requests.

Versions Available

100-2030V EURV-OM-SP single supervised output module (wall mount no box)
100-2045V EURV-OM-SM single supervised output mini module
100-2032V EURV-OM-SD single supervised output module (DIN rail mount)

EURV-OM-RP Eurotech Input Output Supervised 100-2031V

The Eurotech supervised input output modules are loop powered and designed around a fully digital protocol.
The input channel is supervised and will detect normal/short/alarm/open conditions.

An additional opto-coupled inout active in de-energized condition supervises the external power supply. Fast alarm and fault signalling.
The modules are available in different mounting configurations.

Versions Available

100-2031V EURV-SIO single input & single supervised output module (wall mount no box)
100-2035V EURV-IO-SM single input & single supervised output mini module
100-2036V EURV-IO-RP single input & single supervised output (DIN rail mount)

Modules

EURV-OM-RP Eurotech Relay Output
100-2033V

One output loop powered relay module is based on a SPDT relay.
The output channel is normally a de-energized relay switched on by a command from the control panel.

It is switched on by a special command from the control panel.

It is available in different mounting configurations.

Versions Available

100-2033V EURV-OM-RP single relay output module (wall mount no box)
100-2034V EURV-OM-RM single relay output mini module
100-2026V EURV-OM-RD single relay output module (DIN rail mount)
100-8240V EURV-MRU Mains Rated Relay Unit (must be used with 100-2034V)

EURV-IO-RP Eurotech Sinlge Input Relay Output
100-2037V

The Eurotech single input and relay output modules are loop powered and designed around a fully digital protocol.

The input channel is supervised and will detect normal/short/alarm/open conditions.
The output channel is normally a de-energized relay switched on by command from the panel.

Fast Alarm and fault signalling.
The modules are available in different mounting configurations.

Versions Available

100-2037V EURV-IO-RP single input & single relay output module (wall mount no box)
100-2038V EURV-IO-RM single input & single relay output mini module
100-2043V EURV-IO-RD single input & single relay output (DIN rail mount)

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Conventional Control Panels

Eurotech Conventional Fire Alarm Panel

1-8 Zone Conventional Control Panels

The Eurotech 8 control panel is housed in the most attractive, modern designed, flame retardent ABS enclosure, utilising a switch mode power supply. It has a fully removable front cover which improves ease of access for cable installations.

Optional Metal Backbox

The Eurotech 8 panel can also be ordered with a metal back box facilitating upto 7ah batteries to fit within the panel housing. To order this version add "/M" to the end of the model number

Features

- ✓ Access via password - removes problem of lost keys
- ✓ One man test facility
- ✓ Disablement facility for zones & sounders
- ✓ Space for up to 3Ah batteries
- ✓ Sounder delay option
- ✓ 4 sounder circuits (2500/4, 2500/6 & 2500/8)
- ✓ Sounder circuits 3 and/or 4 can be configured as Aux 24V supplies
- ✓ Meets all requirements of latest EN54 part 2 and part4

MODEL	Eurotech 1	Eurotech 2	Eurotech 4	Eurotech 6	Eurotech 8
Part No	2500/1	2500/2	2500/4	2500/6	2500/8
Mains Voltage	230V AC +10% / -15% @ 50/60 Hz				
System Voltage	24V DC (Nominal)				
Zone Voltage	21V DC (Nominal)				
Sounder Alarm Output	2 x 150mA @ 24V DC		4 x 150mA @ 24V DC		
Fault Relay	1 x Volt Free Relay, SELV @ 1A Max				
Fire Relay	1 x Volt Free Relay, SELV @ 1A Max				
Zone Capacity	32 devices per zone				
Remote sounder operation	Via N/O contact connected to Class Change				
Sounder Activation Delay	0 to 10 minutes in 1 minute increments				
Zone End of line	1N4002 Diode (Cathode Stripe to Zone +ve)				
Sounder End of Line	10K resistor				
Charger Voltage	27.6V				
Battery cut off	Battery voltage less than 20V				
Battery Internal Resistance limit	0.9 ohm				
Enclosure size	371 x 302 x 93 (mm)				
Weight	3 kg (Excluding Batteries)				
Maximum battery space	2 x 3.4 Ah, 12 Vdc sealed lead acid				

Eurotech Fire Systems Limited
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Evotech CP

2,4 & 8 Zone Control Panel

The Eurotech CP range consists of a series of conventional fire alarm control panels designed in accordance with European standards BS EN54-2 and BS EN54-4 Fire Detection and Fire Alarm systems - Control and Indicating Equipment.

The range consists of 2, 4 and 8 zone control panels. All control panels are available in two versions:

4 Wire range range in which detectors and call points are wired on separate circuits to sounders (two sounder circuits are provided).

2 Wire range in which detectors, call points and sounders are wired to the same pair of cables.

Wiring sounders to the detection circuits eliminates the need to install sounder circuit cables and also offers the ability to provide zoned or two stage sounder operation. (2 Wire series only)

All control panels have an integral, mains powered battery charger and power supply designed in accordance with the requirements of BS EN54-4.

Note: For 2-wire panels, compatible detectors and call points must be used. All sounders must be polarised.

Features

- Fully certified to BS EN54-2 and BS EN54-4
- 2-wire and standard versions in 2, 4 or 8 zones
- Compatible for use on BS5839: Part 1: 2002 installations
- 2-wire repeaters and ancillary boards
- Fully programmable using simple menu options
  - Adjustable sounder delay time
  - Sounder configuration options
  - Zonal sounder delay detectors only
  - Zonal sounder delay call points only
  - Coincidence input selection
  - I.S Barrier selection by zone
  - Short circuit fire by zone
  - Silent zones
  - Zone input delay
  - General panel configuration
  - Simple, single board construction
  - Installer friendly
  - Compatible with Eurotech detection devices
  - Two monitored sounder outputs
  - 3 Amp power supply
  - Auxiliary power output
  - Non latching zones

Evotech CP

2, 4 & 8 Zone Control Panel

Eurotech CP Conventional Fire Control Panels;

600CP-2S - Eurotech CP Conventional Panel, 2 Zones: Surface
600CP-4S - Eurotech CP Conventional Panel, 4 Zones: Surface
600CP-8S - Eurotech CP Conventional Panel, 8 Zones: Surface

Eurotech CP 2 Wire Conventional Fire Control Panels:

602CP-2S - Eurotech CP Two Wire Conventional Panel, 2 Zones: Surface
602CP-4S - Eurotech CP Two Wire Conventional Panel, 4 Zones: Surface
602CP-8S - Eurotech CP Two Wire Conventional Panel, 8 Zones: Surface

Technical

Construction	- 1.2mm mild sheet steel
IP Rating	- IP30
Finish	- Epoxy powder coated
Colour - lid & box	- BS 00 A 05 grey - fine texture
Colour - controls plate & labels	- RAL 7047 light grey - satin
Weight	- 6kg
Supply voltage	- 230V AC (+10%/-15%)
Mains supply fuse	- 1.6 Amp 250V
Power supply DC rating	- 24V 3 Amps
Maximum battery size	- 7Ah 12V (2 per panel)
Fault contact rating	- 30V DC 1 Amp
Local fire contact rating	- 30V DC 1 Amp
Fire contact rating	- 30V DC 1 Amp
Sounder output rating	- 0.5A per output (max 1.6A over all outputs)
Detection zone current	- 1.6 milliamps
Detection zone EOL resistor	- 6k8 5%
Active EOL	- K14606K (optional)
Sounder output EOL resistor	- 10k 5%
Cable capacity	- 2.5mm² per terminal
Operating temperature	- -5°C to +40°C
Operating humidity	- <95% (non condensing)

Excel

2,4,8 & 12 Zone Conventional Panels

Quality, reliability, ease of use and feature rich are attributes that are consistent across the entire range of Eurotech fire alarm control panels. The Eurotech Excel-EN encompasses all of these attributes to provide the fire alarm engineer's panel of choice. The Excel-EN combines the benefits of addressable panels, with the simplicity of conventional panels

For the fire alarm engineer the Excel-EN has been designed to minimise labour costs. There is ample room for wiring, changing batteries and clear indication. Activation is via key switch or access code, which means you should always be able to work on the panel and the one man walk tests will help reduce the cost of maintaining the fire alarm system.

Simplicity was one of the most important aspects when considering the end user of a fire alarm panel. The colour coded buttons and the 3 step silence functionality gives non-technical people the confidence to correctly manage their fire alarm system.

All inputs and outputs are fully programmable and there are options to have delays to the outputs. The programming features of the Excel-EN also include 3 different modes to help reduce false alarms. Local fire authorities are demanding this type of functionality to reduce unwanted callouts from alarm receiving centres

As standard, all Excel-EN panels provide two monitored sounder circuits, Fire & Fault VFCO relays, Fire & Fault switched negative outputs, class change and an alert input.
Excel-EN panels are approved to European standards EN54-2 & 4, Fire Detection and Alarm Systems – Control & Indicating Equipment.

Features at a glance

- 2 - 12 zones
- 3 modes to manage false alarms
- Individually selectable Twin Wire zones
- Approved to EN54-2 & 4
- 3 year warranty
- Class change & alert, programmable inputs
- Programmable relays & outputs
- Modular expansion zone cards, including additional sounder circuits
- One man walk test
- Key-switch or code entry for activation of controls
- Fully functional repeater panels
- Two monitored sounder circuits fitted as standard.

LPCB

Approved to:
EN54-2: 1997 + A1: 2006 & EN 54-4: 1997 + A1: 2002 + A2: 2006

Models	Description
XLEN-2	2 zone Conventional or Twin Wire
XLEN-4	4 zone Conventional or Twin Wire
XLEN-6	6 zone Conventional or Twin Wire
XLEN-8L	8 zone Conventional or Twin Wire
XLEN-8	8 zone Conventional or Twin Wire (high spec zone card fitted)
XLEN-12	12 zone Conventional or Twin Wire (1 x std & 1 x high spec zone card)

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fire systems limited

Intelligent Control Panels

Evotech AS Lite

Evotech AS Lite is a very versatile range of open protocol fire alarm control panels compatible with existing Evotech fire alarm panel technology.

Available with one or two detection loops capable of hosting up to 240 Eurotech devices. Evotech AS Lite uses leading edge microprocessor based electronics to provide a flexible control system with high reliability and integrity.

With its large graphic display and ergonomic button and indicator layout, the Evotech AS Lite control panel is simple and straight forward to understand for installers, commissioning engineers and end users alike.

FEATURES

- 16 zonal LED indicators
- 2 programmable sounder circuits
- 5 programmable inputs
- 3 programmable relays
- 3A power supply
- Large graphic display
- Real time clock
- Certified to EN54-2/ EN54-4
- Up to 512 additional programmable I/O via Evotech I/O modules
- Sensitivity adjustment and drift compensation
- Compatible with Focus and View repeaters
- Supports Eurotech protocol
- Same look and feel as Evotech range
- Stores 500 last events in event log
- Dial up modem connection available
- Compact, stylish enclosure
- Installer friendly, removable equipment chassis
- Different language and character set variants available
- Fully EN54-2 and EN54-4 compliant improved front loading printer option available in an M3 size eclosure**

** Not CP-R approved. If you are based in the EU and require a printer option please ask for other options.

Config Features

- Comprehensive day/night mode facility
- Programmable one touch test mode
- Powerful and versatile cause & effect programming
- Cause & effect wizard including
  - Cause & effect action
  - Disablement configuration
  - Test mode configuration

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Evotech AS Lite 1 loop Addressable Control Panels;

600- 100	- Evotech Lite Addressable Control Panel: surface
600- 101	- Evotech AS Lite Addressable Control Panel: c/w Enable Key, Surface

K18002	- Retrofit Vision Window Door (M2 size enclosure only)
K768AS	- Printer Module - New front loading feature (M3 size enclosure only)
K560	- 16 chanel inout/output board
K547	- 8 way relay extender board
K546	- 6 way sounder extender board
K545	- 4 way conventional detection zone board
K556P	- Modem module (PSTN) (M3 size enclosure only)
B3472	- Thermal printer paper roll

Evotech AS

1 Loop Analogue Addressable
Fire Alarm Control Panel

Evotech AS is a very versatile range of open protocol fire alarm control panels compatible with existing Evotech fire alarm panel technology.

Available with one or two detection loops capable of hosting up to 240 Eurotech devices. Evotech AS uses leading edge microprocessor based electronics to provide a flexible control system with high reliability and integrity.

Suitable for all small to medium sized fire detection systems, Evotech AS control panels can be expanded and networked to become part of a much larger systems if the need arises, therefore providing a future proof solution for any installation.

With its large graphic display and ergonomic button and indicator layout, the Evotech AS control panel is simple and straight forward to understand for installers, commissioning engineers and end users alike.

FEATURES

- 16 zonal LED indicators
- 2 programmable sounder circuits
- 5 programmable inputs
- 3 programmable relays
- 3A power supply
- Large graphic display
- Real time clock
- Expandable from 1 to 2 loops
- Certified to EN54-2/ EN54-4
- Up to 512 additional programmable I/O via Evotech I/O modules
- Powerful, network wide cause and effects
- Sensitivity adjustment and drift compensation
- Can be networked with Evotech control panels
- Compatible with Focus and View repeaters
- Supports Eurotech protocol
- Same look and feel as Evotech range
- Stores 500 last events in event log
- Dial up modem connection available
- Compact, stylish enclosure
- Installer friendly, removable equipment chassis
- Different language and character set variants available
- Fully EN54-2 and EN54-4 compliant improved front loading printer option available in an M3 size eclosure

Config Features

- Comprehensive day/night mode facility
- Programmable one touch test mode
- Powerful and versatile cause & effect programming
- Cause & effect wizard including
  - Cause & effect action
  - Disablement configuration
  - Test mode configuration

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Evotech AS 1 Loop Addressable Control Panels;

600-102S	- Evotech AS 1 Loop Addressable Control Panel: surface
600-103S	- Evotech AS 1 Loop Addressable Control Panel: c/w Enable Key, Surface

Evotech AS 2 Loop Addressable Control Panels;

600-106S	- Evotech AS 2 Loop Addressable Control Panel: surface
600-107S	- Evotech AS 2 Loop Addressable Control Panel: c/w Enable Key, Surface

K18002	- Retrofit Vision Window Door (M2 size enclosure only)
K555	- Fault tolerant network interface card
K768AS	- Printer Module - New front loading feature (M3 size enclosure only)
K560	- 16 chanel inout/output board
K547	- 8 way relay extender board
K546	- 6 way sounder extender board
K545	- 4 way conventional detection zone board
K556P	- Modem module (PSTN) (M3 size enclosure only)
B3472	- Thermal printer paper roll

Evotech AS, AS Lite

1 Loop Analogue Addressable
Fire Alarm Control Panel

TECHNICAL	
Construction	- 1.2mm mild sheet steel
IP rating	- IP30
Finish	- Epoxy powder coated
Colour - lid & box	- BS 00 A 05 grey - fine texture
Colour - controls plate & labels	- RAL 7047 light grey - satin
Weight	- 6kg (standard panel)
Display	- 8 lines of 40 characters graphic LCD
Mains voltage supply	- 110 or 230V AC 50 or 60 HZ. (State when ordering, default is 230V)
Mains supply fuse	- 1.6A 250V
Power supply DC rating	- 24V 3 Amps
Aux 24V supply	- Fused at 500 milliamps
Maximum battery size	- 9Ah 12V (2 per panel) (non-networked)
Fire contact rating	- 30V DC 1 Amp
Alarm contact rating	- 30V DC 1 Amp
Fault contact rating	- 30V DC 1 Amp
Sounder output rating	- Fused at 1 Amp each
Detection loop	- 400 milliamp output
Detector protocol	- Eurotech
Printer port	- Serial RS232
Serial expansion port	- Serial RS485 (Compatible with all Syncro I/O modules)
PC port	- Serial RS232
Network connection	- RS485 - Up to 64 panels via fully fault tolerant optional optional network card
Remote silence input (SIL)	- Switched -ve
Remote fault input (FLT)	- Switched -ve
Remote reset input (RES)	- Switched -ve
Remote alert input (INT)	- Switched -ve
Remote evacuate input (CNT)	- Switched -ve
Download lead	- Standard S187, XX187L economy
Configuration	- Via loop explorer PC utility
PC graphics	- Via guide systems
Modem	- Optional dial up modem for remote diagnostics (Can be fitted to M3 size enclosure only)

The Evotech addressable fire alarm panel is available with 2 or 4 detection circuits, each capable of hosting up to 240 Eurotech devices. Evotech uses the most advanced microprocessor technology to provide a control system of extremely high integrity.

Evotech can be configured to suit all types of system, from the most simple, to the highly complex. Its fully integrated and secure network provides an intelligent interface for building control.

A Large area graphic display ensures that information is presented in plain language with detailed extra help available by pressing a "help" button.

Evotech employs daily calibration routines to ensure that the system is always at optimum performance.

FEATURES
- 2 or 4 loop versions as standard
- Larger enclosure available
- Loopless panel option (repeater)
- 0,16,48 or 96 zone indicators
- Option for Enable Control key switch
- Fully supports Eurotech protocol
- Network up to 64 panels/repeaters
- 4 programmable sounder circuits as standard
- 5,25 amp power supply to EN54-4
- Large graphic display
- In built help and alarm information screens
- Certified to EN54-2/EN54-4
- Simple Windows® graphical configuration utility

Config Features
- Comprehensive day/night mode facility
- Programmable one touch test mode
- Powerful and versatile cause & effect programming
- Real time clock
- Supports Eurotech Loop powered sounders and beacons .
- Sensitivity adjustment and drift compensation
- Stylish enclosure design
- Soft touch tactile buttons
- 2 programmable function buttons
- 3 programmable front panel mounted LED's
- Improved front panel loading printer (optional)
- Up to 512 programmable inputs/ outputs per panel via 2 wire R2486 serial link (optional)

- Cause & effect wizard including
  - Cause & effect action
  - Disablement configuration
  - Test mode configuration

Evotech

2 or 4 Loop Addressable
Fire Alarm Control Panel

Semi Flushing Collar

Flush mount cross section

Note: There is one size for all standard flush Evotech control panels. For the hole size we recommend that you allow 5mm clearance all round.

Evotech 2 Loop Addressable Control Panels;

600- 216S	- Evotech Addressable Control Panel 16 Zone LED's: surface
600-216ES	- Evotech Addressable Control Panel 16 Zone LED's: c/w Enable Key, Surface
600-216PS	- Evotech Addressable Control Panel 16 Zone LED's: c/w Printer, Surface
600-216PES	- Evotech Addressable Control Panel 16 Zone LED's: c/w Printer, Enable Key, Surface

Evotech 4 Loop Addressable Control Panels;

600- 416S	- Evotech Addressable Control Panel 16 Zone LED's: surface
600-416ES	- Evotech Addressable Control Panel 16 Zone LED's: c/w Enable Key, Surface
600-416PS	- Evotech Addressable Control Panel 16 Zone LED's: c/w Printer, Surface
600-416PES	- Evotech Addressable Control Panel 16 Zone LED's: c/w Printer, Enable Key, Surface

K552V	- Loop extension card (loops 3 & 4)
K555	- Fault tolerant network interface card
K768SYN	- Thermal printer kit (for retrofitting to non-printer models)
K560	- 16 chanel inout/output board
K547	- 8 way relay extender board
K546	- 6 way sounder extender board
K545	- 4 way conventional detection zone board
K556P	- Modem module (PSTN)
B3472	- Thermal printer paper roll

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TECHNICAL	
Construction	- 1.2mm mild sheet steel
IP Rating	- IP30
Finish	- Epoxy powder coated
Colour - lid & box	- BS 00 A 05 grey - fine texture
Colour - controls plate & labels	- RAL 7047 light grey - satin
Weight	- 10kg (standard panel)
Display	- 8 lines of 40 characters graphic LCD
Detection circuits (loops)	- 2 or 4 (400mA each)
Zone LED's	- 0, 16, 48 or 96 (up to 500 software zones)
4 sounder circuits	- Each fused at 1 Amp (total load 2 Amp)
Fire contact	- Volt free 1 Amp 30V DC
Alarm contact	- Volt free 1 Amp 30V DC
Fault contact	- Volt free 1 Amp 30V DC
Programmable relay 1	- Volt free 1 Amp 30V DC
Programmable relay 2	- Volt free 1 Amp 30V DC
Fire routing output	- Monitored-voltage reversing, fused at 500mA
Fault routing output	- Monitored-voltage reversing, fused at 500mA
Extinguishing output	- Monitored-voltage reversing, fused at 1A
Fault input	- Volt free contact input signals fault
Reset input	- Volt free contact input reset panel
Intermittent input	- Volt free contact input pulses sounder outputs
Continuous input	- Volt free contact input for continuous sounders
Silence input	- Volt free contact input silences sounders
Programmable input 1	- Volt free contact for any action required
Programmable input 2	- Volt free contact for any action required
Programmable input 3	- Volt free contact for any action required
Auxiliary 24V DC output	- Fused at 500mA
System fuse	- 5 Amp self-resetting polyfuse
Mains fuse	- 20mm 3 Amp
Operating temperature	- -5 to +50 deg. C
Operating humidity	- To 95% (non-condensing)
Mains voltage supply	- 110 or 230V AC 50 or 60 HZ. (State when ordering, default is 230V)
Battery (24hr standby)	- 12Ah 12V (2 per panel) (non-networked)
Day/night modes	- 2 with variable device sensitivity
Input delays	- Individual for each device selectable up to 2 minutes
Output delays	- Individual 2-stage to 10 minutes per stage
2 programmable function buttons	- Programmable to carry out any cause & effect, disablement or test action
3 programmable indicators	- Red/yellow/green to indicate any action
Network (option)	- Up to 64 panels on 2 wires (network card required)
Printer (option)	- New front loading feature
Download lead	- 600-SOFT (standard or 600-SOFTEC (economy)

EUR-5100N

Single Loop Analogue Addressable Fire Alarm Control Panel

Advanced Fire Panel Technology

The EUR-5100N comes fitted complete with a single loop driver card, 2 on-board sounder circuits, 20 programmable Zonal/System Led's with slide in labels and Four dedicated programmable push-buttons.

The control panel consists of the latest in flash-based microprocessor technology combined with a high resolution, high contrast LCD display and tactile keypad. This combination provides a concise menu based, high resolution, advanced Graphical User Interface with simple 'select & click' programming to aid engineer configuration and end user operation.

Powerful Cause and Effect programming coupled with 'DynamiX' zoning and enhanced 'Trace Diagnostics' makes the panel suitable for a wide range of site applications, from small to large complex multi area systems. Fully on site programmable via on board alphanumeric keypad or PC-NeT Configuration tools.

PC Software

An extensive suite of PC based, software programs have been developed to supplement the EUR-5000N series Fire panels.

User-friendly Windows based PC-NeT configuration software includes service tools, logo programming software and virtual panel software allowing for remote diagnostics via a low cost modem or IP connection, saving time and expense for any travelling or maintenance.

Features

- 20 Zonal/System LED's fully programmable with slide in labels.
- Full support of Eurotech protocol.
- Advanced graphical LCD user interface with up to 200 fire zones as standard, allowing full EN54 compliance without additional hardware or LED indication.
- Optional onboard Printer.
- Dual, flash based, microprocessor technology with on-board Real Time Clock.
- Dedicated USB & RS232 serial port for direct PC, modem or IP connection.
- Installer friendly 'Auto-learn' and 'Loop Detection' facility for uncomplicated, trouble-free, commissioning and fault finding.
- Fully on-site programmable via on-board alphanumeric keypad or PC configuration tools.
- Flash memory and the advanced graphical display enables the panels to be configured to operate in virtually any language with any character set and allows the installer's logo and company details to be applied to the LCD display.
- Robust, removable equipment chassis with plug-in connectors for simple fixing and cable termination.
- When connected to the fault tolerant *Ad-NeT* network, the panel operates as a true peer-to-peer interface (with up to 2000 shared zones) with full cross panel reporting, control and cause and effect functionality.

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Single Loop Control Panel
EN54 Parts 2, 4 & 13'Approved'
3 Year Warranty as standard
Multiple Languages
Fully Networkable
20 Zonal/System LED's with Slide in labels

Specification

Base Technology	Dual Flash based Processors with Real Time Clock, 'Trace' diagnostics, 'Pulse' communications & programmable languages
Display	Blue Backlit 240x64 Graphical LCD
LED Indicators	3 Red (2 x Fire, 1 x Alarm), 1 Green (Power) & 18 Amber (Fault & System)
Controls	Alpha Numeric Keypad, Navigation Keys & System Keys for Reset, Mute, Silence/Resound & Evacuate as well as 5 Programmable Push Buttons
Protocols	Eurotech
Number of Fire Zones	2000 'Dynamix' (200 per individual panel)
Number of Loops	1
Devices per loop	240 Devices
Loop Current	500mA
On Board Sounder circuits	2 x 1 Amp Programmable
On Board Relays	2 x 1 Amp 30v AC/DC Programmable
Auxiliary Supply	1 x 24v 500mA
Open Collector / Logic Outputs	8 x Programmable (via optional 8-way relay card)
Programmable Key Switch Inputs	8 Volt Free Digital Inputs
Total Available Output Current	3 Amps Maximum Available for loop current + sounder outputs + auxiliary supply
Mains Supply	230 V 50 Hz AC (+10%, -15% tolerance) 0.4 Amp
Battery Capacity	24V 4 Ah internal (min). Standard-24V 7 Ah Internal(max), Medium Enclosure-24V 12Ah internal (max)
Charger Current	1.0 Amp Temperature compensated
Serial ports	1 RS232 Onboard for PC, Modem, IP or External Printer
USB Interface	USB B type for PC connection
Programming	Via on-board Keypad or PC running Windows Tools
Event Log	10,000 Event + Diagnostic + 500 Fire
Networking	Optional plug in Network card
Printer (Optional)	Optional on-board or remote
Enclosure / Colour	Steel IP30 / RAL9002
Cable Entry (20mm knockouts)	Standard-13x top and 8x top rear, Medium Enclosure - 17x top, and 11x top rear
Size H x W x D mm	EUR-5100N : 340 x 340 x 88, EUR-5100/M: 340x 415 x 115
Metalwork Options	Flushing Bezel, Battery Box and a range of special finishes including Stainless Steel, Brass and Chrome
Approvals	EN54-2:1998, EN 54-4:1998 & EN 54-13:2005

Order Codes

EUR-5100N: Single Loop Analogue Addressable

EUR-5100N/D: Single Loop Analogue Addressable Large Deep Enclosure

EUR-5100N/M: Single Loop Analogue Addressable c/w medium sized enclosure

EUR-5200N

Two Loop Analogue Addressable Fire Alarm Control Panel

Advanced Fire Panel Technology

The EUR-5200N series is a dedicated 2 loop complete with 2 on-board sounder circuits, 20 programmable Zonal/System Led's with slide in labels and Four dedicated programable push-buttons.

The control panel consists of the latest in flash-based microprocessor technology combined with a high resolution, high contrast LCD display and tactile keypad. This combination provides a concise menu based, high resolution, advanced Graphical User Interface with simple 'select & click' programming to aid engineer configuration and end user operation.

Powerful Cause and Effect programming coupled with 'DynamiX' zoning and enhanced 'Trace Diagnostics' makes the panel suitable for a wide range of site applications, from small to large complex multi area systems. Fully on site programmable via on board alphanumeric keypad or PC-NeT Configuration tools.

PC Software

An extensive suite of PC based, software programs have been developed to supplement the EUR-5000N series Fire panels.

User-friendly Windows based PC-NeT configuration software includes service tools, logo programming software and virtual panel software allowing for remote diagnostics via a low cost modem or IP connection, saving time and expense for any travelling or maintenance.

Features

- Dedicated 2 loops via common plug in loop driver boards.
- 20 Zonal/System LED's fully programmable with slide in labels.
- Full support of Eurotech protocol.
- Advanced graphical LCD user interface with up to 2000 fire zones as standard, allowing full EN54 compliance without additional hardware or LED indication.
- 5 Amp power supply and charger to EN54 part 4.
- Dedicated USB & RS232 serial port for direct PC, IP or modem connection.
- Dual, flash based, microprocessor technology with on-board Real Time Clock. Optional on-board or remote printer.
- Flash memory and the advanced graphical display enables the panels to be configured to operate in virtually any language with any character set and allows the installer's logo and company details to be applied to the LCD display.
- Robust, removable equipment chassis with plug-in connectors for simple fixing and cable termination
- When connected to the fault tolerant Ad-NeT network, the panel operates as a true peer-to-peer interface (with up to 2000 shared zones) with full cross panel reporting, control and cause and effect functionality.

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Fully Expandable from 1 to 2 Loops
EN54 Parts 2,4 & 13 'Approved'
3 Year Warranty as standard
Multiple Languages

Fully Networkable
20 Zonal/System LED's with Slide in labels

Specification

Base Technology	Dual Flash based Processors with Real Time Clock, 'Trace' diagnostics, 'Pulse' communications & programmable languages
Display	Blue Backlit 240 x 64 Graphical LCD
LED Indicators	3 Red (2 x Fire, 1 x Alarm), 1 Green (Power) & 18 Amber (Fault & System)
Controls	Alpha Numeric Keypad, Navigation Keys & System Keys for Reset, Mute, Silence/Resound & Evacuate as well as 5 Programmable Push Buttons
Protocols	Eurotech
Number of Fire Zones	2000 'Dynamix' (200 per individual panel over 2 loops)
Number of Loops	Dedicated 2 Loop Control Panel
Devices per loop	240 Devices
Loop Current	500mA
On Board Sounder circuits	2 x 1 Amp Programmable
On Board Relays	2 x 1 Amp 30v AC/DC Programmable
Auxiliary Supply	1 x 24v 500mA
Programmable Key Switch Inputs	8 x Programmable Inputs with Slide in Labels
On Board Switch Input	1 x Clean Contact Switch Input
On Board Power Supply	5 Amp High Efficiency Switched Mode
Mains Supply	230 V Ac (+10%, -15% tolerance) 50 /60 Hz 1.9 Amp
Battery Capacity	24V 4 Ah internal (min), Standard-24V 12 Ah Internal (max), large Enclosure-24V 18Ah Internal (max), Deep Enclosure-24V 45Ah Internal (max)
Charger Current	2.0 A Temperature Compensated
Serial ports	1 RS232 Onboard for PC, Modem, IP or External Printer
USB Interface	USB B type for PC & IP connection
Programming	Via on-board Keypad or PC running Windows Tools
Event Log	10,000 Event & Diagnostic + 500 Fire
Networking	Optional plug in Network card
Printer (Option)	Optional on-board or remote
Enclosure / Colour	Steel IP30 / RAL9002
Cable Entry (20mm Knockouts)	Standard-17x top / 11x top rear, Large Enclosure-19 x top / 11 x top rear, Deep Enclosure-30 x top / 11 x top rear
Size H x W x D mm	340 x 430 x 115, Large-470 x 450 x 115, Deep-470 x 450 x 190
Metalwork Options	Flushing Bezel, Battery Box and a range of special finishes including Stainless Steel, Brass and Chrome
Approvals	EN54-2:1998, EN 54-4:1998 & EN 54-13: 2005

Order Codes

EUR-5202N*: Mx-5200N c/w 2 Loop Cards Fitted & Tested

*L-Add /L for Large enclosure (max 18Ah batteries)

*D-Add /D for Deep enclosure (max 45Ah batteries)

EUR-5400N

1-4 Loop Analogue Addressable Fire Alarm Control Panel

Advanced Fire Panel Technology

The EUR-5400N series is fully expandable from 1 to 4 loops complete with 4 on-board sounder circuits, 20 programmable Zonal/System Led's with slide in labels and Four dedicated programable push-buttons.

The control panel consists of the latest in flash-based microprocessor technology combined with a high resolution, high contrast LCD display and tactile keypad. This combination provides a concise menu based, high resolution, advanced Graphical User Interface with simple 'select & click' programming to aid engineer configuration and end user operation.

Powerful Cause and Effect programming coupled with 'DynamiX' zoning and enhanced 'Trace Diagnostics' makes the panel suitable for a wide range of site applications, from small to large complex multi area systems. Fully on site programmable via on board alphanumeric keypad or *PC-Net* Configuration tools.

PC Software

An extensive suite of PC based, software programs have been developed to supplement the EUR-*5000N* series Fire panels.

User-friendly Windows based *PC-Net* configuration software includes service tools, logo programming software and virtual panel software allowing for remote diagnostics via a low cost modem or IP connection, saving time and expense for any travelling or maintenance.

Features

- Fully expandable from 1 to 4 loops via common plug in loop driver boards.
- 20 Zonal/System LED's fully programmable with slide in labels.
- Full support of Eurotech protocol.
- Advanced graphical LCD user interface with up to 2000 fire zones as standard, allowing full EN54 compliance without additional hardware or LED indication.
- 5 Amp power supply and charger to EN54 part 4.
- Dedicated USB & RS232 serial port for direct PC or modem connection.
- Dual, flash based, microprocessor technology with on-board Real Time Clock. Optional on-board or remote printer.
- Flash memory and the advanced graphical display enables the panels to be configured to operate in virtually any language with any character set and allows the installer's logo and company details to be applied to the LCD display.
- Robust, removable equipment chassis with plug-in connectors for simple fixing and cable termination.
- When connected to the fault tolerant Ad-NeT network, the panel operates as a true peer-to-peer interface (with up to 2000 shared zones) with full cross panel reporting, control and cause and effect functionality.

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Fully Expandable from 1 to 4 Loops
En54 Parts 2,4 & 13 'Approved'
3 Year Warranty as standard
Multiple Languages
Fully Networkable
20 Zonal/System LED's with Slide in labels

Specification

Base Technology	Dual Flash based Processors with Real Time Clock, 'Trace' diagnostics, 'Pulse' communications & programmable languages
Display	Blue Backlit 240 x 64 Graphical LCD
LED Indicators	3 Red (2 x Fire, 1 x Alarm), 1 Green (Power) & 18 Amber (Fault & System)
Controls	Alpha Numeric Keypad, Navigation Keys & System Keys for Reset, Mute, Silence/Resound & Evacuate
Protocols	Eurotech
Number of Fire Zones	2000 'Dynamix' (200 per individual panel over 2 loops)
Number of Loops	1-4. Expandable via individual plug-in loop driver
Devices per loop	240 Devices
Loop Current	500mA
On Board Sounder circuits	4 x 1 Amp Programmable
On Board Relays	2 x 1 Amp 30v AC/DC Programmable
Auxiliary Supply	1 x 24v 500mA
Programmable Key Switch Inputs	8 x Programmable Inputs with Slide in Labels
Programmable Switch Inputs	1 x Clean Contact Switch Input
On Board Power Supply	5 Amp High Efficiency Switched Mode
Mains Supply	110 - 230 V Ac (+10%, -15% tolerance) 50 /60 Hz 1.9 Amp
Battery Capacity	24V 4Ah Internal (min), Standard-24V 12Ah Internal (max), Large Enclosure-24V 18Ah Internal (max), Deep Enclosure-24V 45Ah Internal (max)
Charger Current	2.0 Amp Temperature Compensated
Serial ports	1 RS232 Onboard for PC, Modem or External Printer
USB Interface	USB B type for PC connection
Programming	Via on-board Keypad or PC running Windows Tools
Event Log	10,000 Event + Diagnostic + 500 Fire
Networking	Optional plug in Network card
Printer (Option)	Optional on-board or remote
Enclosure / Colour	Steel IP30 / RAL9002
Cable Entry (20mm Knockouts)	Standard-17 x top / 11 x top rear, Large Enclosure-19 x top / 11 x top rear, Deep Enclosure-30 x top / 11 x top rear
Size H x W x D mm	470 x 450 x 115, Deep - 470 x 450 x 190
Metalwork Options	Flushing Bezel, Battery Box and a range of special finishes including Stainless Steel, Brass and Chrome
Approvals	EN54-2:1998, EN 54-4:1998 & EN54-13:2005

Order Codes

EUR-5401N*: Mx-5400N c/w 1 Loop Card Fitted & Tested
EUR-5402N*: Mx-5400N c/w 2 Loop Cards Fitted & Tested
EUR-5403N*: Mx-5400N c/w 3 Loop Cards Fitted & Tested
EUR-5404N*: Mx-5400N c/w 4 Loop Cards Fitted & Tested
*D-Add /D for Deep enclosure (max 45Ah Batteries)

EUR-Peripherals

Our Eurotech inteligent panel range boasts a number of available peripherals and repeater panels, some of which are listed below. More information on the below items are available on request. Many more peripherals are also available.

EUR-5010 Remote Display Terminal (RDT). Standard network
EUR-5010/FTRemote Display Terminal (RDT). Fault tolerant
EUR-5020 Remote Control Terminal (RCT) - Small. Standard network
EUR-5020/FTRemote Control Terminal (RCT) - Small. Fault tolerant
EUR-5030 Remote Control Terminal (RCT) - Large. Standard network
EUR-5030/FTRemote Control Terminal (RCT) - Large. Fault tolerant

MXP-501 Remote Battery Temperature Sensor
MXP-502 Loop Driver Card
MXP-503 * Network Card - Standard
MXP-505 Sounder (pt13) Active EOL
MXP-506 Routing Termination Card
MXP-507 * 2-WAY RELAY CARD
MXP-509 * Network Card - Fault tolerant
MXP-512 * Printer Assembly
MXS-509 Spare paper roll for Mxp-512 printer
MXP-532 * Routing / Protection Interface
MXP-536 * P-BUS 8-way Conventional Zone Card
MXP-537 * P-BUS 10-way Switch Input Card
MXP-538 P-BUS 16-Way Switch
MXP-547 (F)*ESPA Pager interface

MXP-513M-050RD * 50 Zone FIRE (RED) - Medium enc
MXP-513M-050RY * 25 Zone FIRE (RED) + FAULT(Yel) - Medium enc
MXP-513M-050YL * 50 Zone FAULT (YEL) - Medium enc
MXP-513L-050RD * 50 Zone FIRE (RED) - Large enc
MXP-513L-050RY * 25 Zone FIRE (Red) + FAULT (Y) - Large enc
MXP-513L-050YL * 50 Zone FAULT (YEL) - Large enc
MXP-513L-100RD * 100 Zone FIRE (RED) - Large enc
MXP-513L-100RY * 50 Zone FIRE (RED) + FAULT (Y) - Large enc
MXP-513L-100YL * 100 Zone FAULT (YEL) - Large enc
MXP-513L-200RY * 200 Zone - Large enc (RED/YEL)
MXP-513L-050CRY * 50 Zone Column Format - Large enc (RED/YEL)
MXP-513L-050CRYG * 50 Zone Column Format - Large enc (30 x RED/YEL - 20 GRN/YEL)
MXP-513-050RD *50 Zone FIRE (RED) - Extended enc
MXP-513-050RY * 25 Zone FIRE (Red) + FAULT (Y) - Extended enc
MXP-513-050YL * 50 Zone FAULT (YEL) - Extended enc
MXP-513-100RD *100 Zone FIRE (RED) - Extended enc
MXP-513-100RY * 50 Zone FIRE (RED) + FAULT (Y) - Extended enc
MXP-513-100YL * 100 Zone FAULT (YEL) - Extended enc
MXP-513-200RY * 200 Zone - Extended enc (RED/YEL)
MXP-513-050CRY * 50 Zone Column Format - Extended enc (RED/YEL)
MXP-513-050CRYG * 50 Zone Column Format - Extended enc (30 x RED/YEL - 20 GRN/YEL)

eurotech®

fire systems limited

Wireless Detection

euro-fi® - The wire to wireless solution

An introduction to wireless solutions, euro-fi the complete wired and wireless addressable fire system solution

The euro-fi intelligent addressable family consists of two ranges, offering a fire detection solution for all application. The hybrid wireless range enables fully wireless systems to be created or, when combined with the analogue wired range the technology enables wired systems to be extended with wireless communication into difficult to reach areas. The euro-fi package enables fire engineering companies to purchase a total equipment package from a single equipment supplier.

euro-fi wireless

The wireless family is a complete range of fully addressable, battery-powered detectors,call points, sounder and modules communicating through a sophisticated wireless protocol providing high reliability and rapid installation euro-fi wireless offers a conveinent and reliable method of economically extending existing or new hardwired intelligent fire detection systems, particularly into areas of high architectural sensitivity or where access is restricted.

standard and operating on the new European Frequency of 868 MHz. Its two way (bi-directional) communication provides the highest level of transmission security and reliability. The encrypted signal operates across 7 independent channels and with multidirectional antennae, signal corruption and fade are virtually eliminated.

All devices have a notional range of 150m in free air, but the system is supported by an Expander Module to enhance transmission strength in areas of difficult structural architecture. Components operate on freely available, low cost 3v lithium batteries, providing a 5 year life on the primary cell and a further 2 months life on the secondary cell. All batteries are continually monitored for low battery conditions which are automatically communicated to the central fire control panel.

A complete programme of smoke detectors (compliant with EN54 Part 7) and ancillary devices including battery

The wire free installation of components offers rapid installation and minimal disturbance to the surroundings.

The system is based on a proven protocol and wireless technology derived from the European security industry. Designed in accordance with EN54 25, the latest European draft

powered wall sounders and beacons. Compatible with leading intelligent fire control manufacturers protocols, these devices integrate seamlessly onto the intelligent fire system loop wiring via a wire to wireless Translator Module. This device facilitates the addition of 32 wireless smoke sensors, sounders or output devices. Multiple Translator

modules may be put on each intelligent loop.

The Translator delivers full intelligent sensor integration and allows analogue values, fire and fault information and device type codes to be transmitted to the system control panel.

Programming of the system components is easily accomplished at the loop Translator Module through an onboard keypad or remote PC.

System design and detector placement is greatly simplified by an onboard bi-colour LED, which indicates device status and communication strength. A comprehensive survey and testing Kit is also available or a radio survey can be undertaken by one of our network of trained distributors.

Products are warranted for three years (excluding batteries) and carry CE marking.

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euro-fi® - The wire to wireless solution

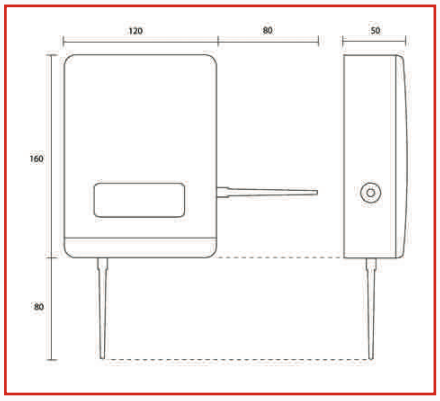
An introduction to wireless solutions, euro-fi the complete wired and wireless addressable fire system solution

Loop Translator Module

Powered by the control panel loop, the translator processes messages received from the wireless Detectors, Modules, about itself and the devices to the system control panel. The control panel recognises the Translator and the devices as individual addressed points on the loop.

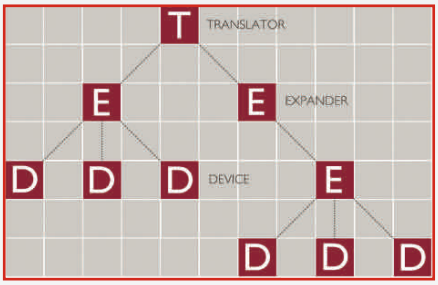
Translator characteristics:

- Patented double orthogonal antenna to guarantee reliable communication
- Unique frequency hopping algorithm
- High noise immunity
- Bi-directional communication protocol between all wireless devices
- 7 transmision channels
- Up to 32 devices used with each translator
- System can be programmed through an onboard keypad or a PC



EUW-EM-01 Wireless expander

The Expander Module provide the ability to communicate with devices over greater distances and in difficult radio environments. It utilises a unique and powerful “Microcell” structure with a capacity of up to 7 Expanders and 32 radio devices which can be any combination of Detectors and Call Points, and include up to 16 Sounders and Output Modules. Complete with a range of fully intelligent detectors and accessories communicating through a



sophisticated wireless protocol providing high reliability and rapid installation.

Device general features

- Bi-directional communication between wire to wireless Translator
- 868Mhz frequency with 7 transmission channels
- Highly secure and reliable transmission
- Central bi-colour LED (red/green) guarantees 360° visibility
- Programmable sensitivity
- Fast, simple and economic installation
- 3 volt primary and secondary battery status monitored

EUW-PA-01
Analogue optical smoke detector

A symmetrical smoke chamber guarantees optimal smoke sensitivity from all directions. The double dust trap protects the smoke chamber from airborne contamination.

EUW-MA-01
Analogue multicriteria detector

An advanced algorithm determines the alarm status by analyzing both the volume of smoke within the optical chamber and the temperature variation.

EUW-TA-01
Analogue thermal detector

Temperature compensation guarantees steady and reliable operation in low and high temperature limits.

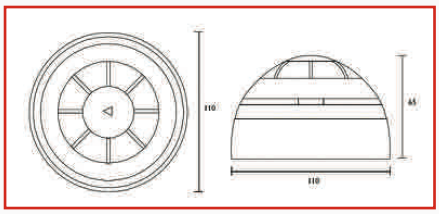
Decorline detectors can be supplied with a unique finish to match virtually any background.

EUW-CP-01 Wireless call point

Wireless resettable manual call point designed in accordance with EN54-11. Bi-colour LED (red/green) provides comprehensive information of the device status, signal strength and battery status. For use outdoors or in areas of high moisture content a weatherproof variant is available.

EUW-IM-01 single input module
EUW-OM-01 single output module

The supervised EuW-IM-01 Input Module can be used for connecting and monitoring external devices or conventional fire detection. The EUW-OM-01 output module enables the control of external devices from the control panel via its integral relay.



EUW-WSR-01 Wireless Sounder

Addressable indoor sounder with bi-directional radio protocol controlled by the control panel and powered by two batteries (primary and secondary). The unit has an output of 100dBA and is available in Red or White finishes and in a weatherproof variant.

EUW-SBR-01 Sounder / Beacon

A variant of the wall sounder incorporating a red LED beacon for use in areas of high background noise or help meet the requirements of the Disabled Discrimination Act.

EUW-PA-01, EUW-TA-01 & EUW-MA-01

Detection Range

Key features

- Bi-directional wireless communication
- Self optimising wireless amplitude and frequency
- Automatic wireless channel hopping
- Fully Intelligent
- High reliability and sensitivity
- Flexible on site device adjustment
- Makes additions to existing wired systems easy and cost effective
- Utilises standard low cost lithium battery technology
- Fully monitored primary and secondary power sources

Power Supply

Dual 3 V Lithium batteries:
1 x Primary CR123A
(1.2Ahr)
1 x Secondary CR2032A
(0.24Ahr)

The Translator Module monitors the condition of both batteries and shows a discharge of either using an internal LED indicator as well as a fault indication at the Translator Module and Fire Detection Control Equipment.

Indication

- A bi-colour (red and green) LED indicator provides 360 degree cone of vision displaying information regarding the operational modes and condition of power supplies.
- The indicator also provides information during the programming of the device regarding the wireless signal strength allowing defining of stable operating locations when installing the unit.

The EUW range of Intelligent Detectors come in three variants; Optical, Thermal and Multi Criteria. All devices are compatible with the loop Translator Modules and Expander Modules.

Additional Information

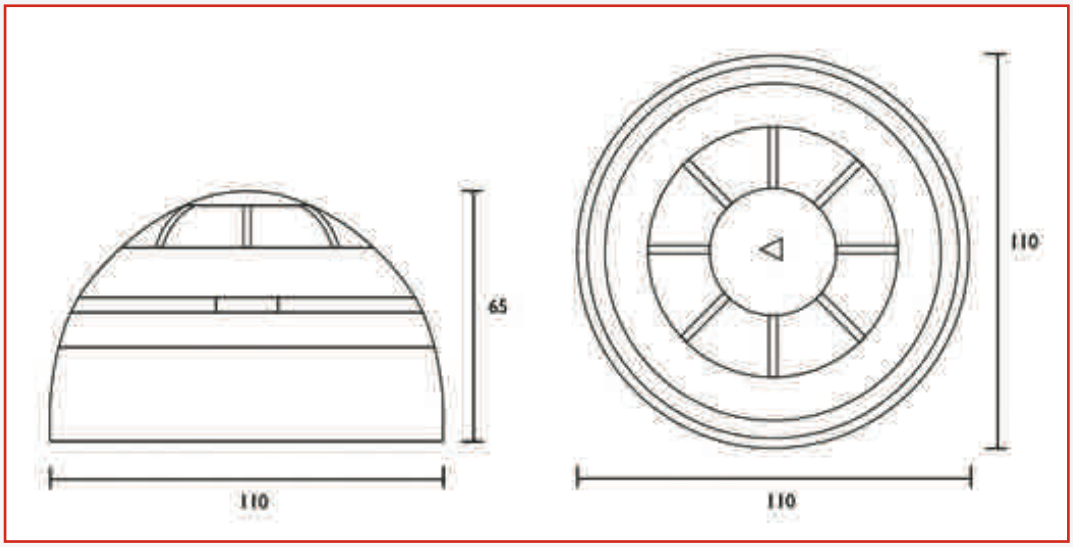
- The detectors parameters are programmed via the Translator Module either by a wireless keypad or a PC link.
- The Translator Module automatically manages detector radiation power depending on the device communication quality.
- Detectors automatically adjusts its frequency and radiation in accordance with the signal quality received from the Translator Module.

Design

- The patented smoke chamber ensures optimal smoke sensitivity from all directions. Whilst the double dust trap provides the chamber with increased protection from airborne contamination and background illumination (EUW-PA-01& EUW-MA-01 models).
- Each detector is fitted with a reed switch facility allowing testing using a magnet.

Algorithm

- Adaptive signal processing helps with the elimination of false alarms.
- Temperature compensation gives reliable and steady operation in low and high temperatures and compensates for differences in temperature between the Translator and field device locations.



LED Indication

Indication of device in standard mode following battery installation	Green LED Fast Blinking
Installation of device in programming mode following battery switch on	Red LED 4 Short Flashes
Device in Self Adjustment Mode	Red LED on with Occasional Blink

Technical Specifications

Communication range with the Translator Module	150M (open space)
Operating Frequency	868-870 MHz
Modulation Type	Frequency Modulation
Number of Operating Channels	7
Time Period Between Wireless Signal Transmissions	From 12 sec. to 2 min
Estimated Battery Life (Dependant on time period between wireless signal transmissions) Primary Cell (CR123A) Secondary Cell (CR2032A)	 Between 3 and 5 years 2 months
Dimensions	110mm x 65mm
Operating Temperature Range	-30°C to +50°C
Radiated Power	0.01 - 10mW

EUW-CP-01

Wireless Intelligent Resettable Call Point

Key features

- Bi-directional wireless communication
- Self optimising wirelessn amplitude and frequency
- Automatic wireless channel hopping
- Fully Intelligent
- High reliability and sensitivity
- Flexible on site device adjustment
- Makes additions to existing wired systems easy and cost effective
- Utilises standard low cost lithium battery technology
- Fully monitored primary and secondary power sources
- Weatherproof variant available for use in wet environments or outdoors

Power Supply

Dual 3 V Lithium batteries:
1 x Primary CR123A
(1.2Ahr)
1 x Secondary CR2032A
(0.24Ahr)

The Translator Module monitors the condition of both batteries and shows a discharge of either using an internal LED indicator as well as a fault indication at the Translator Module and Fire Detection Control Equipment.

Indication

- A bi-colour (red and green) LED indicator provides information regarding the operational modes and condition of power supplies.

- The indicator also provides information during the programming of the device regarding the wireless signal strength allowing defining of stable operating locations when installing the unit.

The EUW-CP-01 is a fully intelligent wireless resettable call point compitable with all loop Translator Modules and Expander Modules.

Additional Information

- The call point parameters are programmed via the Translator Module either by a wireless keypad, PC link or its onboard keyboard.

- The Translator Module automatically manages call point radiation power depending on the device communication quality.

- The unit automatically adjusts its frequency and radiation in accordance with the signal quality received from the Translator Module.

Design

- The call point has a resettable plastic element which has the look of glass which is a deterrent to nuisance activations.

- On activation, the call point displays a clear visual flag in the window making locating the device easy.

- The element once activated can be easily reset by use of a key. The same key is also used to remove the device's front cover.

- Temperature compensation gives reliable and steady operation in low and high temperatures and compensates for differences in temperature between the Translator and field device locations.

- For outdoor use or for areas of a high moisture content, a weatherproof variant is available.

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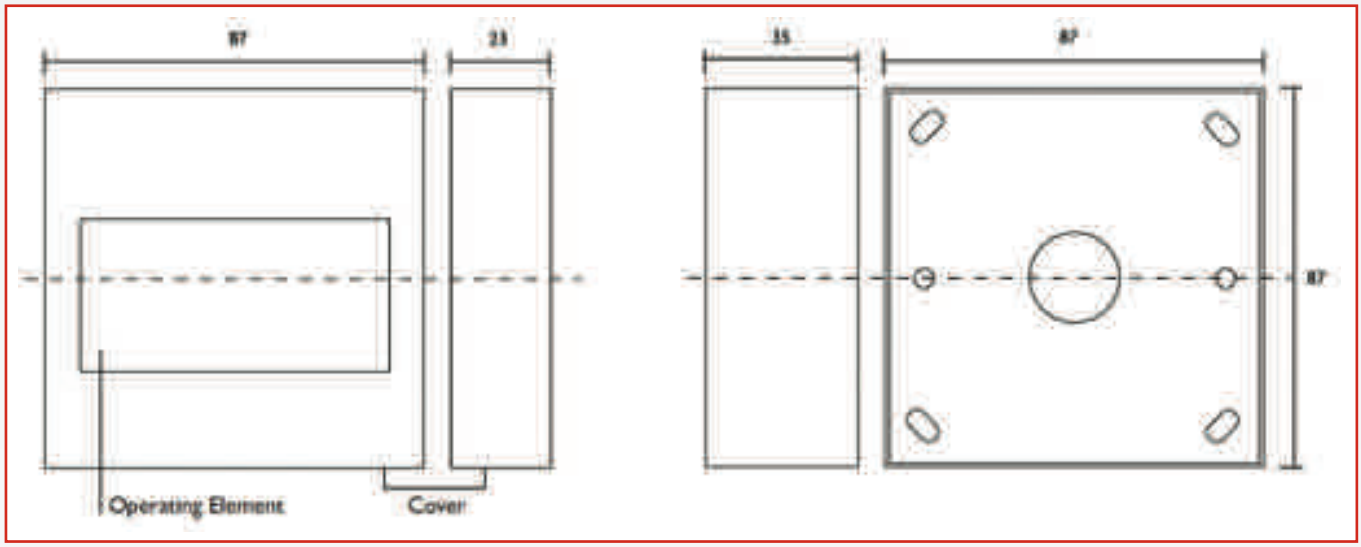


LED Indication

Indication of device in standard mode following battery installation	Green LED Fast Blinking
Installation of device in programming mode following battery switch on	Red LED 4 Short Flashes
Device in Self Adjustment Mode	Red LED on with Occasional Blink

Technical Specifications

Communication range with the Translator Module	150M (open space)
Operating Frequency	868-870 MHz
Modulation Type	Frequency Modulation
Number of Operating Channels	7
Time Period Between Wireless Signal Transmissions	From 12 sec. to 2 min.
Estimated Battery Life (Dependant on time period between wireless signal transmissions) Primary Cell (CR123A) Secondary Cell (CR2032A)	 Between 3 and 5 years 2 months
Dimensions	87mm x 58mm
Operating Temperature Range	-30°C to +50°C
Radiated Power	0.01 - 10mW

EUW-WSR-01, EUW-WSW-01, EUW-SBR-01 & EUW-SBW-01

Wireless Audio and Visual Warning devices

Key features

- Bi-directional wireless communication
- Self optimising wireless amplitude and frequency
- Automatic wireless channel hopping
- Fully intelligent
- High reliability and sensitivity
- Flexible on site device adjustment
- Makes additions to existing wired systems easy and cost effective
- Utilises standard low cost lithium battery technology
- Fully monitored primary and secondary power sources
- Weatherproof and colour variants available

Power Supply

Dual 3 V Lithium batteries:
2 x Primary CR123A
(1.2Ahr)
The primary and secondary cells alternate in providing power to the sounder.The Translator Module monitors the condition of both batteries and shows a discharge of either using an internal LED indicator as well as a fault indication at the Translator Module and Fire Detection Control Equipment.

Indication

- A bi-colour (red and green) internal LED indicator provides information regarding the operational modes and condition of power supplies.
- The indicator also provides information during the programming of the device regarding the wireless signal strength allowing defining of stable operating locations when installing the unit.

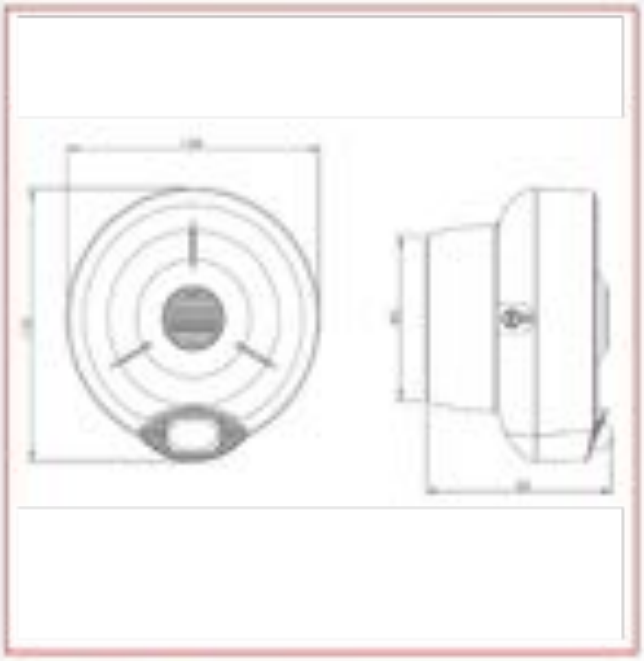
The EUW warning devices are a comprehensive range of fully intelligent wireless alarm signalling units, providing signalling solution for a wide variety of system sizes and types.

Additional Information

- Sounder and Sounder / Beacon parameters are programmed via the Translator Module either by wireless keypad, PC Link or its on board keyboard.
- The Translator Module automatically manages detector radiation power depending on the device communication quality.
- All Audio Visual warning devices automatically adjust their frequency and radiation in accordance with the signal quality received from the Translator Module.

Design

- The Sounder comes as standard with three tones.
- The unit is fitted with a volume control and is adjustable up to a maximum output of 100 dB(A).
- All devices are fully controllable from the control panel via the Translator Module and offers the same level of flexibility as a standard addressable loop sounder.
- Temperature compensation gives reliable and steady operation in low and high temperatures and compensates for differences in temperature between the Translator and field device locations.



Technical Specifications

Communication range with the Translator Module	150M (open space)
Operating Frequency	868-870 MHz
Modulation Type	Frequency Modulation
Number of Operating Channels	7
Time Period Between Wireless Signal Transmissions	From 7 sec. to 1 min
Estimated Battery Life (Dependant on time period between wireless signal transmissions) Primary Cell (CR123A) Secondary Cell (CR123A)	 3 years 2 Months
Dimensions	109mm x 96mm
Operating Temperature Range	-30°C to +50°C
Radiated Power	0.01 - 10mW
Sound Output	100dBA
Flash Rate (Beacon only)	1Hz
Light Output (Beacon only)	1Cd

EUW-W2W-01

Loop powered Wire to Wireless Translator Module

Key features

- Loop Powered
- Bi-directional wireless communication
- Self optimising wireless amplitude and frequency
- Automatic wireless channel hopping
- Fully intelligent
- High reliability and sensitivity
- Flexible on site device adjustment
- IP68 protection for exterior mounting
- Available in multiple protocols
- Makes additions to existing wired systems easy and cost effective

Power Supply

The Translator is powered directly from the fire detection loop wiring, thus removing the need to provide primary power or a secondary supply. The current draw of the unit should be included in any system battery calculations.

Indication

The unit has an inbuilt LCD display for indication of system status and for use when commissioning the unit. 5 LEDs indicate common system conditions.

Expander Modules

In cases where greater radio coverage is required the Translator may be used with one or more Expander Modules (EUW-EM-01).

PC Connection

The system has a RS232 connection to a PC. The PC link allows for complex system commisioning and provides a full set of survey and diagnostic tools.

The EUW-W2W-01 is a fully intelligent wireless Translator Module. The module allows the use of fully intelligent radio field devices alongside standard hard wired devices.

Additional Information

- The Translator Module allows the connection of up to 32 radio field devices to an addressable fire detection loop. Multiple Translators can be used on a system providing the system has sufficient loop addresses avaliable.
- Each radio field device takes a loop address making them fullyintelligent and their radio connectivity transparent to the end user.
- System parameters are programmed via the Translator Module either by a wireless keypad, PC link or its on board key board.
- The Translator Module automatically manages detector radiation power depending on the device communication quality.

Design

- The unit is housed in an IP68 housing making it suitable for mounting in wet environments and outdoors.
- The Translator is fitted with two orthogonal antennae which reduce radio fade and ensure reliable radio communication.

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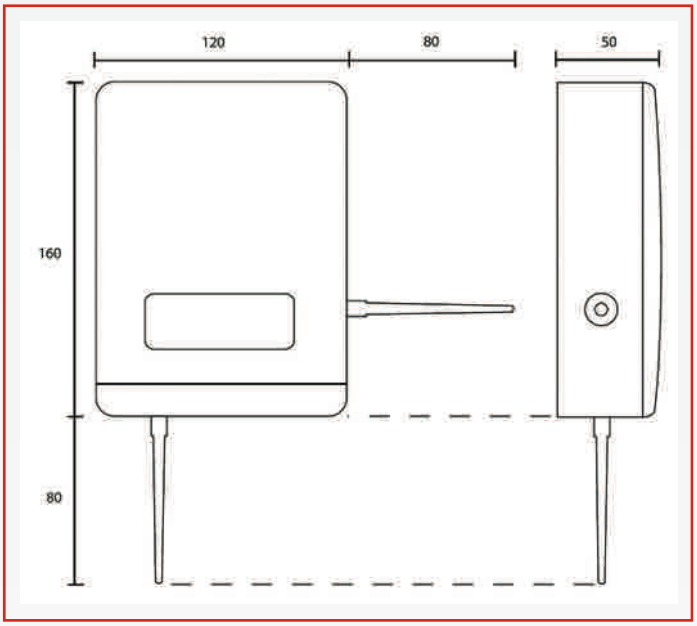


LED Indication

DL1	Communication with Control Panel
DL2	Hardware Fault Indication
DL3	Device Low Battery Fault, Yellow LED
DL4	Radio Programming in Progress
DL5	Field Device Investigation

Technical Specifications

Communication range with the Field Devices	150M (open space)
Communication range with Expander Module	300M (open space)
Operating Frequency	868-870 MHz
Modulation Type	Frequency Modulation
Number of Operating Channels	7
Time Period Between Wireless Signal Transmissions	From 7 sec. to 2 min
Dimensions	160mm x 120mm (excluding Aerials)
Operating Temperature Range	-30°C to +50°C
Radiated Power	0.01 - 10mW
Current Consumption	17mA
Operating Voltage	15-42 V dc
IP Rating	IP68

EUW-EM-01

Wireless Expander Module

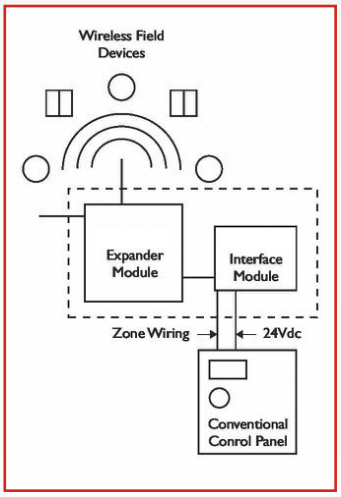
Key features

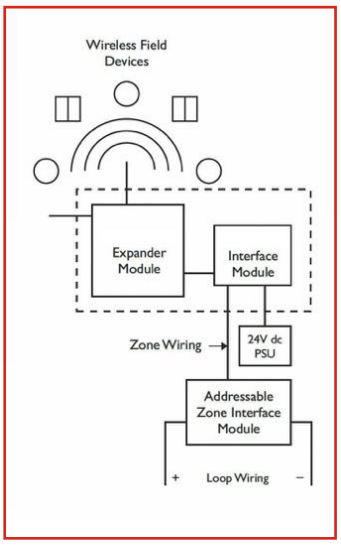
- Bi-directional wireless communication
- Self optimising wireless amplitude and frequency
- IP68 protection for exterior mounting
- Makes additions to addressable or conventional systems easy and cost effective
- Designed in accordance with prEN54:25
- “Microcell” technology allows flexible system design and improved performance on all sizes of system
- Fully compatible with all Hyfire system devices
- Site programmable via PC link or Wireless Keypad

Compatible Accessories

EUW-CI-01

Conventional Interface Module





The EUW-EM-01, when used, increases radio coverage of a EUW-W2W-01 Translator Module, allowing the use of the system in larger buildings and difficult wireless environments. Multiple expanders can be utilised in a micro cell structure to provide a solution to large complex systems.

Additional Information

- Up to 7 Expander Modules may be configured to any one Translator Module forming a micro cell cluster
- Each cluster can be programmed with up to 32 radio field devices. These devices can comprise of any combination of detectors, call point and input modules, and include up to 16 sounders and output devices.
- The Expander Module relays the intelligent device information from the field devices to the loop Translator Module using a highly stable bi-directional radio communication protocol.
- The system parameters are programmed into the Expander Module via a RS232 PC link or Wireless Keypad.
- When fitted with the EUW-CI-01 Conventional Interface module, the Expander has the facility to connect, via onboard relay contacts, wireless detectors and call points to either a conventional fire system zone or to an addressable interface module on an analogue fire system that does not support the Translator Module directly.

Design

- The unit is housed in an IP68 housing making it suitable for mounting in a wet environment or outdoors.
- The Expander is fitted with two orthogonal antennae reducing signal fading and ensuring reliable radio communications.

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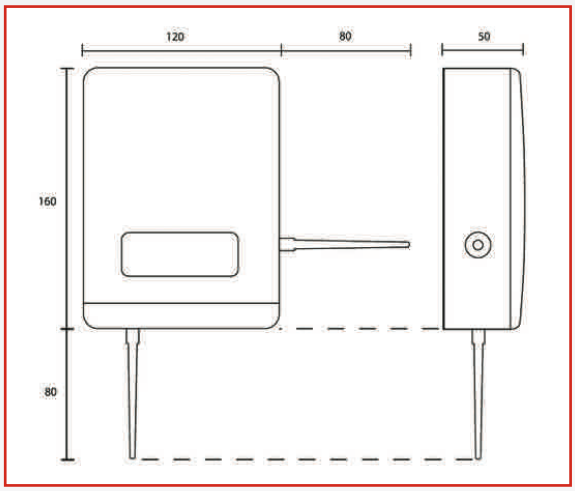

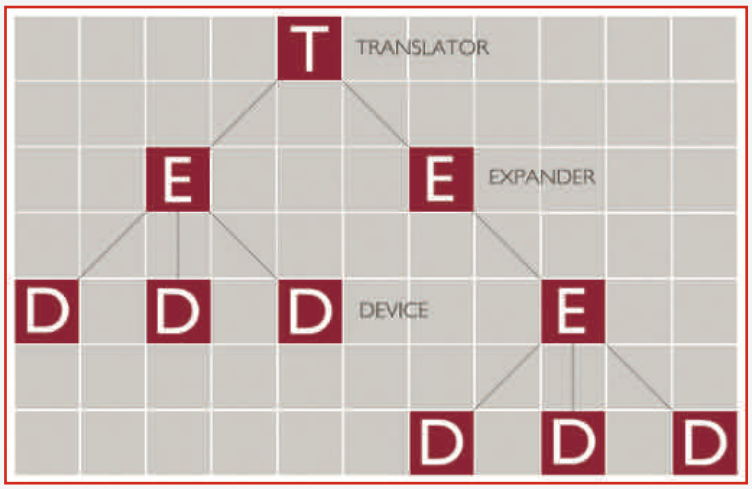

Technical Specifications

Communication range with the Translator Module	300M (open space)
Communication range with the Field Devices	150M (open space)
Operating Frequency	868-870 MHz
Modulation Type	Frequency Modulation
Number of Operating Channels	7
Time Period Between Wireless Signal Transmissions	From 7 sec. to 2 min
Dimensions	160mm x 120mm Excluding Aerials
Operating Temperature Range	-30°C to +50°C
IP Rating	68
Operating Voltage	10 - 27V dc
Current Consumption	16mA

EUW-CEM-02

Wireless to Conventional Interface

Key features

- Bi-directional wireless communication
- Self optimising wireless amplitude and frequency
- Automatic wireless channel hopping
- Fully intelligent
- High reliability and sensitivity
- Flexible on site device adjustment
- IP68 protection for exterior mounting
- Available in multiple protocols
- Makes additions to existing wired systems easy and cost effective
- Requires PSU

Indication

The unit has an inbuilt LCD display for indication of system status and for use when commissioning the unit. 5 LEDs indicate common system conditions.

Expander Modules

In cases where greater radio coverage is required the Translator may be used with one or more Expander Modules (EUW-EM-01).

PC Connection

The system has a RS232 connection to a PC. The PC link allows for complex system commisioning and provides a full set of survey and diagnostic tools.

The EUW-CEM-02 is a fully Intelligent wireless to conventional Interface module.. The module allows the use of fully intelligent radio field devices alongside standard hard wired devices.

Additional Information

The wireless to conventional Interface is intended to be used with a fire control panel the application provides a simple way of expanding a pre-existing conventional / addressable hard-wired system with 32 addressable radio field devices including detectors,sounder / beacons, manual call points and input / output modules

Design

- The unit is housed in an IP68 housing making it suitable for mounting in wet environments and outdoors.
- The Interface moduler is fitted with two orthogonal antennae which reduce radio fade and ensure reliable radio communication.

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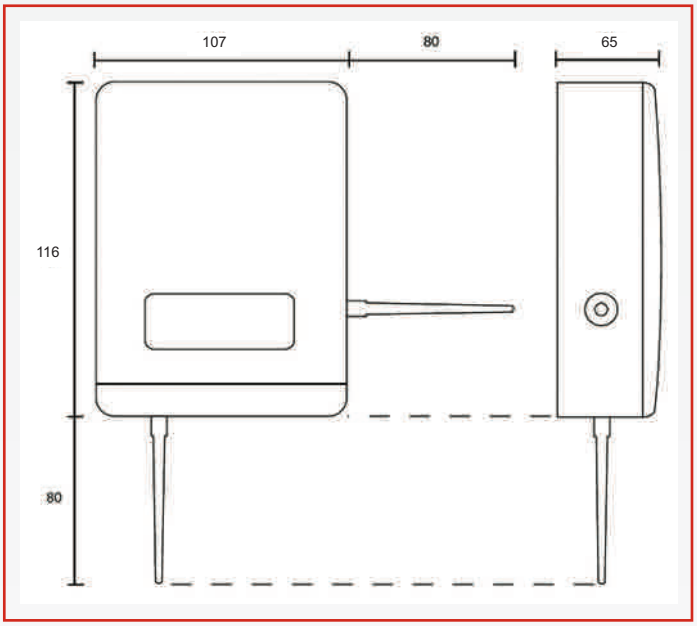


LED Indication

DL1	Communication with Control Panel
DL2	Hardware Fault Indication
DL3	Device Low Battery Fault, Yellow LED
DL4	Radio Programming in Progress
DL5	Field Device Investigation

Technical Specifications

Communication range with the Field Devices	150M (open space)
Communication range with Expander Module	300M (open space)
Operating Frequency	868-870 MHz
Modulation Type	Frequency Modulation
Number of Operating Channels	7
Time Period Between Wireless Signal Transmissions	From 7 sec. to 2 min
Dimensions	116mm x 107mm x 65mm
Operating Temperature Range	-30°C to +50°C
Radiated Power	0.01 - 10mW
Current Consumption	17mA
Operating Voltage	10-27 V dc
IP Rating	IP68

EUW-IM-01 & EUW-OM-01

Wireless Intelligent Module Range

Key features

- Bi-directional wireless communication
- Self optimising wireless amplitude and frequency
- Automatic wireless channel hopping
- Fully intelligent
- High reliability and sensitivity
- Input and Output circuits monitored for fire, fault and normal condition
- Makes additions to existing wired systems easy and cost effective
- Utilises standard low cost lithium battery technology
- Fully monitored primary and secondary power sources

Temperature Compensation

Temperature compensation gives reliable and steady operation in low and high temperatures and compensates for differences ,in temperature between the Translator and field device locations.

Power Supply

(Input Module only)
Dual 3 V Lithium batteries:
1 x Primary CR123A (1.2Ahr)
1 x Secondary CR2032A
(0.24Ahr)
(Output Module only
requires external 24V PSU

The Translator Modulemonitors the condition of both batteries and shows a discharge of either using an internal LED indicator as well as a fault indication at the Translator Module and Fire Detection Control Equipment.

Indication

- A bi-colour (red and green) LED indicator provides information regarding the operational modes and condition of power supplies.

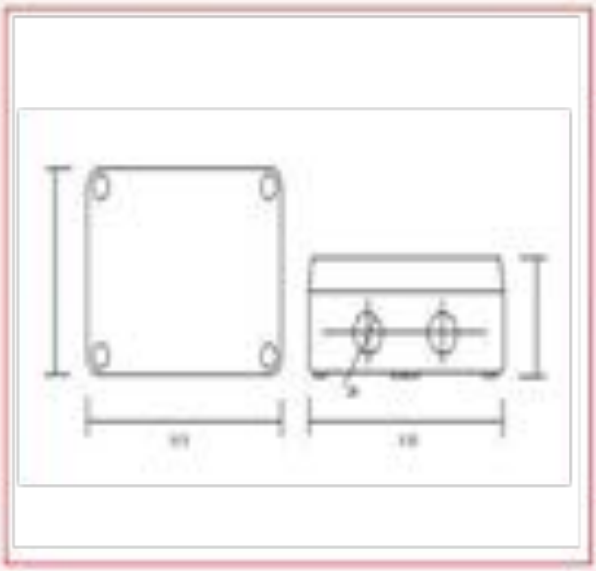
TheEUW module range consists of two variants: a single input unit and a single output unit. Both units are compatible with all loop Translator Modules and Expander Modules.

Additional Information

- The Module parameters are programmed via the Translator Module either by a wireless keypad, PC Link or its onboard keyboard.
- The Translator Module automatically manages the communication radiation power depending on the device communication quality.
- The Modules automatically adjusts the frequency and radiation in accordance with the signal quality received from the Translator Module.

Design

- The Input Module allows the connection of third party equipment and sytems to the fire system via a single channel monitored circuit.
- The single channel Output Module allows the switching of a load and can be configured to be either normally open or normally closed.
- Both Modules are fully controllable from the control panel via the cause and effect and offer the same level of flexibility as a standard addressable module.



LED Indication

Indication of device in standard mode following battery installation	Green LED Fast Blinking
Installation of device in programming mode following battery switch on	Red LED 4 Short Flashes
Device in Self Adjustment Mode	Red LED on with Occasional Blink

Technical Specifications

Communication range with the Translator Module	150M (open space)
Operating Frequency	868-870 MHz
Modulation Type	Frequency Modulation
Number of Operating Channels	7
Time Period Between Wireless Signal Transmissions	From 12 sec. to 2 min.
Estimated Battery Life (Dependant on time period between wireless signal transmissions) Primary Cell (CR123A) Secondary Cell (CR2032A)	 Between 3 and 5 years 2 months
Dimensions	35mm x 110mm
Operating Temperature Range	-30°C to +50°C
Radiated Power	0.01 - 10mW
Output Module Switching Capacity	3A @ 30V dc
Output Module PSU Requirement	10-27V dc

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Certification

Eurotech products are fully compliant with the highest standards of third party test and fire detection certification.

Because fire detection systems are about protecting lives and livelihoods, Eurotech's customers need to be assured that the products they are buying have been properly designed, manufactured and quality controlled to a consistently high standard. Eurotech can prove this with all of its products being assessed and approved by third parties, giving them quality marks from the LPCB, VdS, BSI and NF.

Fire detection manufacturers may only use these marks once their products have been fully tested by an independent third party laboratory to a recognised standard. A successful factory production audit also has to be completed at the manufacturer's premises, which themselves have to be ISO 9000 compliant.
Once the tests and inspections are complete, a third party certification body will review all of the results and award a certificate. Although the manufacturer can now apply the certification body's quality mark to the product, the process does not end there.
Maintaining the use of a quality mark means a continual process of quality control. Any design changes to the certificated product have to be agreed by the certification body and annual factory and product audits are required. The end result? Complete assurance for Eurotech's customers.


BRE Global Limited & LPCB

EC-CERTIFICATE OF CONFORMITY

0832 - CPD - 1298

EURV-PH Analogue addressable photoelectric smoke and Class A1R heat detector for use in fire detection and alarm systems

Eurotech Fire Systems Limited
19/20 Stratfield Park, Elettra Avenue, Waterlooville, Hampshire PO7 7XN

Nittan (UK) Limited
Hipley Street, Old Woking, Surrey GU22 9LQ

EN 54 - 5: 2000 + A1: 2002 - Fire detection and fire alarm systems - Heat detectors - Point detectors
EN 54 - 7: 2000 + A1: 2002 + A2: 2006 - Fire detection and fire alarm systems - Smoke detectors - Point detectors using scattered light, transmitted light or ionization


BRE Global Limited & LPCB

EC-CERTIFICATE OF CONFORMITY

0832 - CPD - 1297

EURVC-P Conventional photoelectric smoke detector for use in fire detection and alarm systems

Eurotech Fire Systems Limited
19/20 Stratfield Park, Elettra Avenue, Waterlooville, Hampshire PO7 7XN

Nittan (UK) Limited
Hipley Street, Old Woking, Surrey GU22 9LQ

EN 54 - 7: 2000 + A1: 2002 + A2: 2006 - Fire detection and fire alarm systems - Smoke detectors - Point detectors using scattered light, transmitted light or ionization


BRE Global Limited & LPCB

EC-CERTIFICATE OF CONFORMITY

0832 - CPD - 1295

EURV-P Analogue addressable photoelectric smoke detector for use in fire detection and alarm systems

Eurotech Fire Systems Limited
19/20 Stratfield Park, Elettra Avenue, Waterlooville, Hampshire PO7 7XN

Nittan (UK) Limited
Hipley Street, Old Woking, Surrey GU22 9LQ

EN 54 - 7: 2000 + A1: 2002 + A2: 2006 - Fire detection and fire alarm systems - Smoke detectors - Point detectors using scattered light, transmitted light or ionization

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LPCB

This is to Certify

EUROTECH FIRE SYSTEMS LTD
19/20 Stratfield Park, Elettra Avenue, Waterlooville,
Hampshire, PO7 7XN United Kingdom

is authorised to use the LPCB mark in association with the product(s) listed in this certificate and appendix.

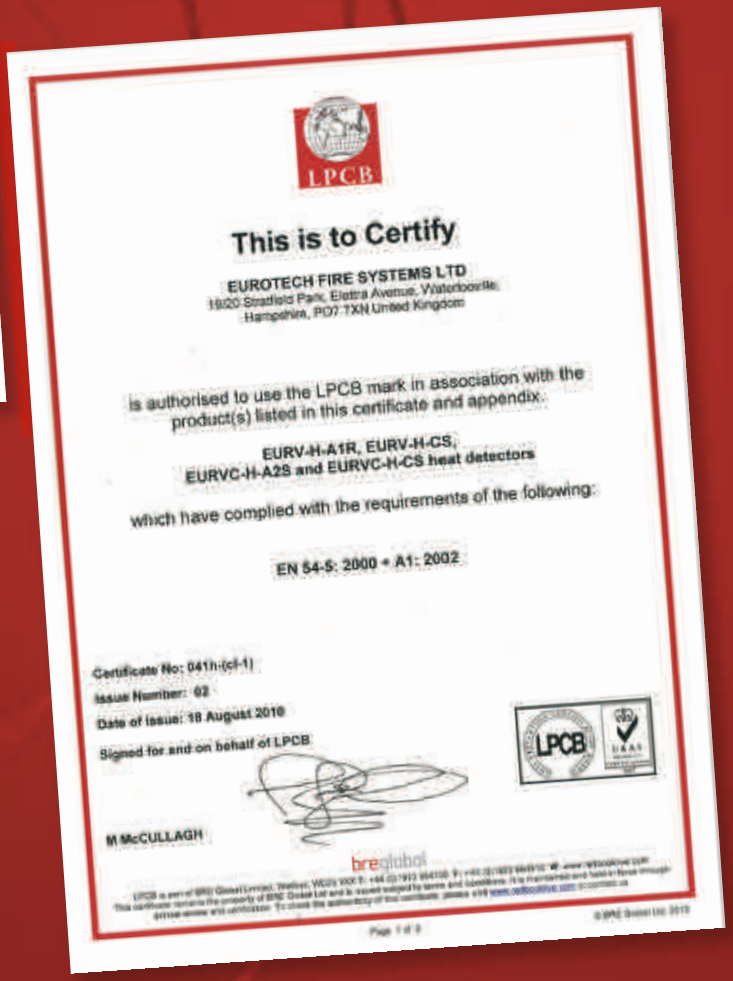
EURVC-P and EURV-P smoke detectors

which have complied with the requirements of the following:

EN 54-7: 2000 + A1: 2002 + A2: 2006

Certificate No: 842a-(cl-2)
Issue Number: 02
Date of Issue: 18 August 2010
Signed for and on behalf of LPCB

M McCULLAGH



LPCB

This is to Certify

EUROTECH FIRE SYSTEMS LTD
19/20 Stratfield Park, Elettra Avenue, Waterlooville,
Hampshire, PO7 7XN United Kingdom

is authorised to use the LPCB mark in association with the product(s) listed in this certificate and appendix.

EURV-H-A1R, EURV-H-CS,
EURVC-H-A2S and EURVC-H-CS heat detectors

which have complied with the requirements of the following:

EN 54-5: 2000 + A1: 2002

Certificate No: 041h-(cl-1)
Issue Number: 02
Date of Issue: 18 August 2010
Signed for and on behalf of LPCB

M McCULLAGH

This is to Certify

EUROTECH FIRE SYSTEMS LTD
19/20 Stratfield Park, Elettra Avenue, Waterlooville
Hampshire, PO7 7XN United Kingdom

is authorised to use the LPCB mark in association with the product(s) listed in this certificate and appendix

EURV-P and EURVC-P smoke detectors

which have complied with the requirements of the following:

EN 54-7: 2000 + A1: 2002 + A2: 2006

Certificate No: 0411-(cl-1)
Issue Number: 03
Date of issue: 18 August 2010
Signed for and on behalf of LPCB

M McCULLAGH

This is to Certify

EUROTECH FIRE SYSTEMS LTD
19/20 Stratfield Park, Elettra Avenue, Waterlooville
Hampshire, PO7 7XN United Kingdom

is authorised to use the LPCB mark in association with the product(s) listed in this certificate and appendix

EURV-PH heat detector

which has complied with the requirements of the following:

EN 54-5: 2000 + A1: 2002
EN 54-7: 2000 + A1: 2002 + A2: 2006
CEA 4021: 1999

Certificate No: 0419-(cl-1)
Issue Number: 02
Date of issue: 18 August 2010
Signed for and on behalf of LPCB

M McCULLAGH

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BRE Global Limited & LPCB

EC-CERTIFICATE OF CONFORMITY

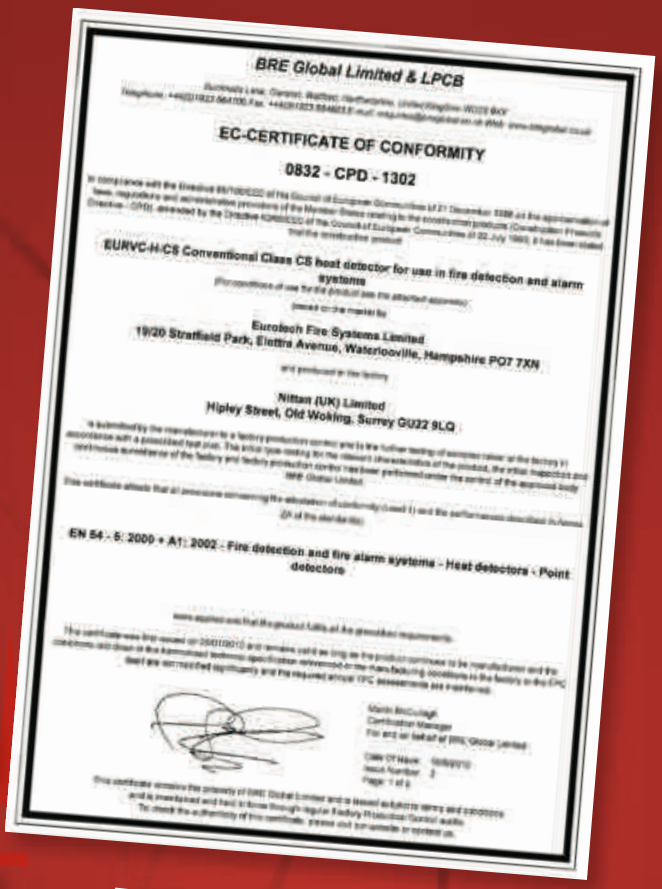
0832 - CPD - 1303

EURV-ABS Addressable Base Sounder for use in fire detection and alarm systems

Eurotech Fire Systems Limited
19/20 Stratfield Park, Elettra Avenue, Waterlooville, Hampshire PO7 7XN

Nittan (UK) Limited
Hipley Street, Old Woking, Surrey GU22 9LQ

EN 54 - 3: 2001 + A1: 2002 - Fire detection and fire alarm systems - Fire alarm devices - Sounders



BRE Global Limited & LPCB

EC-CERTIFICATE OF CONFORMITY

0832 - CPD - 1302

EURVC-H-CS Conventional Class CS heat detector for use in fire detection and alarm systems

Eurotech Fire Systems Limited
19/20 Stratfield Park, Elettra Avenue, Waterlooville, Hampshire PO7 7XN

Nittan (UK) Limited
Hipley Street, Old Woking, Surrey GU22 9LQ

EN 54 - 5: 2000 + A1: 2002 - Fire detection and fire alarm systems - Heat detectors - Point detectors

BRE Global Limited & LPCB

EC-CERTIFICATE OF CONFORMITY

0832 - CPD - 1301

EURVC-H-A2S Conventional Class A2S heat detector for use in fire detection and alarm systems

Eurotech Fire Systems Limited
19/20 Stratfield Park, Elettra Avenue, Waterlooville, Hampshire PO7 7XN

Nittan (UK) Limited
Hipley Street, Old Woking, Surrey GU22 9LQ

EN 54 - 5: 2000 + A1: 2002 - Fire detection and fire alarm systems - Heat detectors - Point detectors

BRE Global Limited & LPCB

EC-CERTIFICATE OF CONFORMITY

0832 - CPD - 1300

EURV-H-CS Analogue addressable Class CS heat detector for use in fire detection and alarm systems

Eurotech Fire Systems Limited
19/20 Stratfield Park, Elettra Avenue, Waterlooville, Hampshire PO7 7XN

Nittan (UK) Limited
Hipley Street, Old Woking, Surrey GU22 9LQ

EN 54 - 5: 2000 + A1: 2002 - Fire detection and fire alarm systems - Heat detectors - Point detectors

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Case Studies

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Eurotech & MDA Case Study

It's the perfect job for a busy London architectural design practice: refurbishing an ordinary-looking, reasonable quality modern town house into a stylish, super-luxury, multi-million-pound property which makes the most of light and space.

Everything is installed – lighting, plumbing, security systems and, with the help of specialist consultants, a hard-wired fire detection system. With just weeks to go to completion, the client decides to swap the layout of two rooms. No problem; the changes are made and all is ready – except that, because of the changes, the building regulations inspector now demands a fire system with detection points in every habitable room.

This was the challenge faced by designer Louise McDonnell, Director of McDonnell Associates. "We always respond to our client needs, but every system we use has to be robust, easy to maintain, sustainable and a Eurotech Wireless Fire Detector sits discreetly on the beam above the stairwell future-proof", says Louise.

"We were being asked to replace the fire detection system we had already installed with a new system that met all our standards. This would require routing and chasing-in new wiring in a complex six-storey property that was now decoratively complete." MCD were under added pressure because the client was looking to sell the property and had an interested buyer. Open spaces and mezzanine levels mean added challenges for a fire detection system

Turning again to her fire consultants, Louise was advised to contact Eurotech Fire Systems Ltd. Vincent Agius, Eurotech's Sales Manager, takes up the story. "Louise called us and explained the problem. We surveyed the property and recommended Eurotech's wireless fire detection system which is robust and can be installed quickly."

The time from confirmation of the order to the system being ready to install took less than two days. The installation itself required just one day on site. "Because the system is wireless, we were able to speed up the process by programming the detectors and panel off-site", explains Vincent.

"This meant that everything was ready to go when we arrived at the property and we were only on-site for a minimal amount of time, which kept us out of the way of the other trades putting last minute touches to the interior."
The result was a relieved designer, a satisfied inspector and a delighted client who successfully sold the property. "Eurotech were fantastic," says Louise. "I knew very little about wireless fire detection systems before I spoke to them. Now I'd design them into almost any building – why would you use anything else? A robust, reliable detection system is required to match the standards of the design and build.

"What's really important is that it meets our 'robust but simple' criteria", Louise continues.


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White Fire Equipment Trading LLC


Programming Features


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