

# MORLEY-IAS FIRE DETECTION AND ALARM SYSTEMS

Product Catalogue



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## **ADDRESSABLE FIRE DETECTION AND ALARM SYSTEMS**

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## **SPECIALIST DETECTION AND ASSOCIATED SYSTEMS**

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# NON-ADDRESSABLE FIRE DETECTION AND ALARM SYSTEMS



**Horizon Range**



**FEATURES**

- Zones configurable for delay, coincidence, short-circuit alarm, capacitor or resistive end of line
- Fire and fault outputs - volt-free relay or monitored (optional)
- Auxiliary power output for ancillary equipment
- 2 configurable inputs for ancillary equipment (e.g. class change, alert, etc.)
- Space for two option modules
- Optional 8-way relay module, common or zonal switching
- Optional 1.5A 4-way sounder module, common or zonal switching
- Simple to install
- Robust fire resistant ABS moulded enclosure
- Battery space for up to 72 hours stand-by
- 2, 4 or 8 zone versions available

**2, 4 & 8 ZONE CONVENTIONAL FIRE ALARM CONTROL PANELS**

Developed with efficiency in mind, HRZ2-8 zone non-intelligent fire alarm panels offer both installers and end users a technically advanced range of functions while remaining easy to install, program and operate. A full range of non-intelligent detectors, advanced non-intelligent detectors, beam detectors, manual call points, duct mounting applications, audible and visible alarm devices are available for use with the panels.

TECHNICAL DATA	
DIMENSIONS (H X W X D)	318 x 356 x 96 mm
WEIGHT	2 Kg (approx, no batteries fitted)
CONSTRUCTION	Fire retardant, ABS plastic moulded enclosure, sealed to IP30
CABLE ENTRY	18 x 20mm knockouts in top of enclosure 25 x 50 mm knockout in rear of enclosure
OPERATING TEMPERATURE	+5°C to +45°C
RELATIVE HUMIDITY	5% to 95% non condensing
APPROVED TO	EN54-12, EN54-17
OPERATING VOLTAGE	230 Vac 50/60 Hz (±15%)
INTERNAL POWER SUPPLY	Output voltage +18.5 to +28.5 Vdc Output Current 1.8 Amps maximum Maximum Alarm load: 1 Amp
STANDBY BATTERIES	Minimum capacity 2 x 12 V 2.8Ah Maximum capacity 2 x 12 V 7 Ah
STANDBY BATTERY TYPE	Sealed lead acid
DETECTION CIRCUITS	2, 4 or 8 detection circuits 2 mA per circuit (typically >20 detectors)
DIGITAL INPUTS	22 configurable inputs (Class Change, Alert, Evacuate, Reset)
DIGITAL INPUT TRIGGER	Extended closing contact
SOUNDER OUTPUTS	2 monitored outputs. 0.5 Amps per circuit
AUXILIARY OUTPUT	+18.5 to +28.5 Vdc, 0.5 Amp. (max)

**002-492-222**

**HRZ-2E, 2 ZONE NON-ADDRESSABLE CONTROL PANEL**

HRZ-2e, 2 zone Non-Addressable fire alarm control panel. 2 detection zones, 2 sounder outputs, surface mounting, fire and fault relays.

**002-492-242**

**HRZ-4E, 4 ZONE NON-ADDRESSABLE CONTROL PANEL**

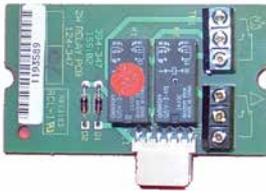
HRZ-4e, 4 zone Non-Addressable fire alarm control panel. 4 detection zones, 2 sounder outputs, surface mounting, fire and fault relays.

**002-492-282**

**HRZ-8E, 8 ZONE NON-ADDRESSABLE CONTROL PANEL**

HRZ-8e, 8 zone Non-Addressable fire alarm control panel. 8 detection zones, 2 sounder outputs, surface mounting, fire and fault relays.

**020-713**



**FIRE & FAULT RELAY MODULE**

Fire and fault relay outputs for the HRZ series panels.

**TECHNICAL DATA**

<b>WEIGHT</b>	65g
<b>DIMENSIONS</b>	(W x H x D) 65 mm x 37 mm x 12 mm
<b>CONNECTION</b>	Connects directly to the panel using the SK2
<b>RELAY CONTACTS</b>	Rated 30VDC/1A

**020-747**



**8 WAY INPUT / OUTPUT CARD**

8 relay outputs which are configurable as N/O or N/C by jumper links (1A @ 30VDC). Link setting allows 4 function presets to be configured for all 8 relays. Can also deliver 4 Inputs and 4 Outputs alternatively

**TECHNICAL DATA**

<b>WEIGHT</b>	210g
<b>MAX CURRENT (PER PCB)</b>	Quiescent :0.1mA Alarm /all active: 80.1mA
<b>RELAY CONTACTS</b>	Rated 30VDC/1A

**020-772**



**4 WAY SOUNDER OUTPUT CARD**

Provides 4 monitored circuits with provision for external PSU and 2 digital inputs.

**TECHNICAL DATA**

<b>SOUNDER PCB OUTPUTS</b>	26 - 28.5VDC
<b>DIP SWITCH 6 SET TO &gt;250mA</b>	4 x 1A (maximum of 1.5A in total for 2 or more outputs)
<b>DIP SWITCH 6 SET TO &lt;250mA</b>	4 x 250mA
<b>DIGITAL INPUTS:</b>	2 x 5-32VDC
<b>SOUNDER PCB INPUT</b>	20-30VDC, 5A
<b>MAX CURRENT (PER PCB)</b>	Quiescent: 47mA Alarm/all active: 1547mA

**020-865**

**SPARE RED CONTROLS KEY**

Pack of 10

**020-743**

**CAPACITOR KIT FOR DETECTORS**

Capacitor kit for detectors not compatible with capacitive EOL monitoring. Includes 8 x 10 µf capacitors. Active EOL's required - See part number 020-417.

**020-745-008**

**SPARE INSTALLATION KIT**

8 capacitor EOL, battery lead, Allen key, panel control key and sounder EOL resistors.

**020-417**

**ACTIVE END OF LINE KIT**

Active End of Line kit for Non-Addressable panels

**2020PT**



**OPTICAL THERMAL MULTI CRITERIA DETECTOR**

The 2020PT multi-criteria detector uses a state of the art optical chamber and a thermal element combined with sophisticated algorithms to provide quick and accurate detection of fires. The combination of photoelectric and thermal characteristics provides a faster response to 'real fire' situations, while at the same time reducing the risk of unwanted alarms.

**TECHNICAL DATA**

<b>WEIGHT</b>	78g (plus 45g for standard base)
<b>HEIGHT</b>	40.5mm (plus 9.5mm for standard base)
<b>DIAMETER</b>	102mm
<b>OPERATING VOLTAGE RANGE</b>	14 to 28VDC (Nominal 24VDC)
<b>MAXIMUM STANDBY CURRENT</b>	75µA @ 24VDC
<b>MAXIMUM ALARM CURRENT</b>	70mA @ 28VDC

**2020P**



**OPTICAL DETECTOR**

The 2020P photoelectric smoke detector uses a state of the art optical chamber combined with an application specific integrated circuit (ASIC) to provide quick and accurate detection of fires.

**TECHNICAL DATA**

<b>WEIGHT</b>	75g (plus 45g for standard base)
<b>HEIGHT</b>	32mm (plus 9.5mm for standard base)
<b>DIAMETER</b>	102mm
<b>OPERATING VOLTAGE RANGE</b>	14 to 28VDC (Nominal 24VDC)
<b>MAXIMUM STANDBY CURRENT</b>	60µA @ 24VDC
<b>MAXIMUM ALARM CURRENT</b>	70mA @ 28VDC

**2020R**



**RATE OF RISE THERMAL A1R (58°C) DETECTOR**

The 2020R thermal detector uses a state of the art thermal element combined with an application specific integrated circuit (ASIC) to provide quick and accurate detection of fires. The detector incorporates both rate of rise and static elements.

**TECHNICAL DATA**

<b>WEIGHT</b>	70g (plus 45g for standard base)
<b>HEIGHT</b>	40.5mm (plus 9.5mm for standard base)
<b>DIAMETER</b>	102mm
<b>OPERATING VOLTAGE RANGE</b>	14 to 28VDC (Nominal 24VDC)
<b>MAXIMUM STANDBY CURRENT</b>	70µA @ 24VDC
<b>MAXIMUM ALARM CURRENT</b>	70mA @ 28VDC

**2020F**



**FIXED TEMPERATURE THERMAL A2S (58°C) DETECTOR**

The 2020F 58°C fixed temperature thermal detector uses a state of the art thermal element combined with an application specific integrated circuit (ASIC) to provide quick and accurate detection of fires.

**TECHNICAL DATA**

<b>WEIGHT</b>	70g (plus 45g for standard base)
<b>HEIGHT</b>	40.5mm (plus 9.5mm for standard base)
<b>DIAMETER</b>	102mm
<b>OPERATING VOLTAGE RANGE</b>	14 to 28VDC (Nominal 24VDC)
<b>MAXIMUM STANDBY CURRENT</b>	70µA @ 24VDC
<b>MAXIMUM ALARM CURRENT</b>	70mA @ 28VDC

**2020HF**



**HIGH FIXED TEMPERATURE THERMAL BS (78°C) DETECTOR**

The 2020HF 78°C fixed temperature thermal detector uses a state of the art thermal element combined with an application specific integrated circuit (ASIC) to provide quick and accurate detection of fires.

**TECHNICAL DATA**

<b>WEIGHT</b>	70g (plus 45g for standard base)
<b>HEIGHT</b>	40.5mm (plus 9.5mm for standard base)
<b>DIAMETER</b>	102mm
<b>OPERATING VOLTAGE RANGE</b>	14 to 28VDC (Nominal 24VDC)
<b>MAXIMUM STANDBY CURRENT</b>	75µA @ 24VDC
<b>MAXIMUM ALARM CURRENT</b>	70mA @ 28VDC

**2020BSD**



**DETECTOR MOUNTING BASE FITTED WITH SCHOTTKY DIODE**

Detector mounting base fitted with schottky diode. For Vision detectors.

**2020B**



**DETECTOR MOUNTING BASE**

Standard detector mounting base for Vision detectors.

**ECO1000RTU A**



**REMOTE TEST TOOL**

Remote laser test tool for Vision detectors

**M1A-R470FG-STCK-01**



**FLUSH CALL POINT**

Flush call point with 470 Ohm resistor and N.O. contact. Resettable element. (Old PN: MCP1A-R470FG-01)

**TECHNICAL DATA**

<b>DIMENSIONS</b>	(W x H x D) 89 mm x 93 mm x 27.5 mm
<b>WEIGHT</b>	110g
<b>OPERATING VOLTAGE</b>	24VDC Nominal
<b>OPERATING TEMPERATURE RANGE</b>	- 10°C to +55°C

**M1A-R470SG-STCK-01**



**SURFACE CALL POINT**

Surface call point with 470 Ohm resistor and N.O. contact. Resettable element. (Old PN: MCP1A-R470SG-01)

**TECHNICAL DATA**

<b>DIMENSIONS</b>	(W x H x D) 89 mm x 93 mm x 59.5 mm
<b>WEIGHT</b>	160g
<b>OPERATING VOLTAGE</b>	24VDC Nominal
<b>OPERATING TEMPERATURE RANGE</b>	- 10°C to +55°C

**W1A-R470SG-STCK-01**



**SURFACE OUTDOOR CALL POINT (IP67)**

Surface outdoor call point with 470 Ohm resistor and N.O. contact. Supplied with glass. (Old PN: WCP1A-R470SG-01)

**TECHNICAL DATA**

<b>DIMENSIONS</b>	(W x H x D) 97.5 mm x 93 mm x 71 mm
<b>WEIGHT</b>	270g
<b>OPERATING VOLTAGE</b>	24VDC Nominal
<b>OPERATING TEMPERATURE RANGE</b>	-30°C to +70°C

**M1A-Y470SG-K013-14**



**SURFACE YELLOW CALL POINT**

Surface yellow call point with 470 Ohm resistor and N.O. contact. Labeled „Extinguishant Release“ and supplied with glass. (Old PN: MCP1A-Y470SG-14)

**TECHNICAL DATA**

<b>DIMENSIONS</b>	(W x H x D) 89 mm x 93 mm x 59.5 mm
<b>WEIGHT</b>	160g
<b>OPERATING VOLTAGE</b>	24VDC Nominal
<b>OPERATING TEMPERATURE RANGE</b>	- 10°C to +55°C

**M1A-R470SG-K013-81****INTRINSICALLY SAFE INDOOR CALL POINT**

Intrinsically safe indoor call point, 470 Ohm. ATEX Approved (Old PN: MCP1A-R470SG-01IS).

An Intrinsically Safe version of our indoor call point is available for installation in hazardous areas. These call points are manufactured to protect against other hazards, as defined in paragraph 1.2.7 of annex II of the ATEX Directive 94/9/EC. They are intended for use within Intrinsically Safe (I.S.) systems using suitable I.S. barriers.

**TECHNICAL DATA**

<b>DIMENSIONS</b>	(W x H x D) 89 mm x 93 mm x 59.5 mm
<b>WEIGHT</b>	180g
<b>OPERATING VOLTAGE</b>	24VDC Nominal
<b>OPERATING TEMPERATURE RANGE</b>	-10°C to +55°C

**W1A-R470SG-K013-81****INTRINSICALLY SAFE OUTDOOR CALL POINT (IP67)**

Intrinsically safe outdoor call point, 470 Ohm. (Old PN: WCP1A-R470SG-01IS).

An Intrinsically Safe version of our outdoor call point is available for installation in hazardous areas. These call points are manufactured to protect against other hazards, as defined in paragraph 1.2.7 of annex II of the ATEX Directive 94/9/EC. They are intended for outdoor use within Intrinsically Safe (I.S.) systems using suitable I.S. barriers.

**TECHNICAL DATA**

<b>DIMENSIONS</b>	(W x H x D) 97.5 mm x 93 mm x 71 mm
<b>WEIGHT</b>	270g
<b>OPERATING VOLTAGE</b>	24VDC Nominal
<b>OPERATING TEMPERATURE RANGE</b>	-25°C to +70°C

**Key Switches**



**K20SRS-11**

**K20SWS-11**

**INTRINSICALLY SAFE INDOOR CALL POINT**

The robust switching device comprises a main housing and escutcheon plate. It is fitted to the plate which simply snaps into the main

housing and is permanently located in place with fixing screws. All keyswitches are supplied with 2 sturdy keys

**TECHNICAL DATA**

<b>DIMENSIONS</b>	(W x H x D) 89 mm x 93 mm x 59.5 mm
<b>WEIGHT(IN PACK BOX)</b>	166g
<b>OPERATING VOLTAGE</b>	24VDC Nominal
<b>OPERATING TEMPERATURE RANGE</b>	- 10°C to +55°C

**INDOOR KEY SWITCH RED**

Indoor key switch red, key removable in both positions, single pole.

**INDOOR KEY SWITCH WHITE**

Indoor key switch white, key removable in both positions, single pole.

**PS200**



**CALL POINT COVER**

Transparent protective hinged cover

**PS031W**



**SINGLE TERMINAL SURFACE BACK BOX (RED)**

Single terminal surface back box for call points/key switches. (Old PN: SR1T)

**TECHNICAL DATA**

**DIMENSIONS**

(W x H x D) 87 mm x 87 mm x 32 mm

**PS032W**



**SINGLE TERMINAL SURFACE BACK BOX (WHITE)**

Single terminal surface back box for key switches, white.

(Picture shows full assembly for illustrative purposes only)

**TECHNICAL DATA**

**DIMENSIONS**

(W x H x D) 87 mm x 87 mm x 32 mm

**MUS158**



**EN54 PT.11 GLASSES**

Pack of 50 EN54 Pt.11 glasses (Unbranded).

**PS230**



**RESETTABLE ELEMENTS.**

Pack of ten resettable elements.

**6500R**



**FEATURES**

- 4 fixed sensitivity/threshold adjustment
- 2 automatic variable sensitivity modes
- Operates in the Infra-Red light spectrum
- Numerical indicators to aid beam alignment
- Fault and alarm LED indicators visible from the front and bottom
- ± 10° horizontal & vertical beam alignment

**OPTICAL BEAM DETECTOR**

Non-Addressable reflective IR beam detector, complete with reflector for up to 70 Metres. Use BEAM-LRK for 70 to 100 Metres. Optical beam detector based on reflective technology. Supplied as a combined transmitter/receiver unit with a standard reflector. The Infra-Red transmitter generates a beam of light towards a high efficiency reflector. The reflector returns the beam to the receiver where an analysis of the received signal is made. The change in the strength of the received signal is used to determine the alarm condition.

**TECHNICAL DATA**

<b>DIMENSIONS</b>	Detector (WxHxD): 190mm x 254mm x 84mm Reflector (WxH): 200 x 230
<b>WEIGHT</b>	1.7kg
<b>IP RATING</b>	IP54
<b>OPERATING TEMPERATURE</b>	-30°C to +55°C
<b>RELATIVE HUMIDITY</b>	0% to 95% (non condensing)
<b>APPROVED TO</b>	EN54-12

**6500RS**



**OPTICAL BEAM DETECTOR (SUPPLIED WITH SERVO TEST FACILITY)**

Non-Addressable reflective IR beam detector, complete with reflector for up to 70 Metres. Use BEAM-LRK for 70 to 100 Metres. Unit supplied with servo test facility.

**6500-LRK**



**LONG RANGE REFLECTOR KIT FOR 70 TO 100 METRES.**

The BEAM-LRK kit contains 3 reflectors (200mm x 230mm).

In combination with the short range reflector supplied with the beam, the 4 reflectors mounted in square form one big reflector surface which extends the beam range over 70m, up to a maximum distance of 100m.

**6500-MMK**



**MULTI MOUNT KIT FOR IR REFLECTIVE BEAM**

Used for wall mount and ceiling mount applications.

Must be used together with surface mounting box BEAM-SMK.

**BEAMHK**



**HEATER KIT FOR BEAM DETECTOR**

Avoid condensation problems in non heated rooms. Requires 24V supply

**TECHNICAL DATA**

<b>VOLTAGE</b>	15 to 32V
<b>CURRENT</b>	92mA max at 32V
<b>POWER CONSUMPTION</b>	Nominal: 1.6W at 24V Maximum: 3W at 32V

**BEAMHKR**



**HEATER KIT FOR BEAM REFLECTOR**

Avoid condensation problems in non heated rooms. Requires 24V supply

**TECHNICAL DATA**

<b>VOLTAGE</b>	15 to 32V
<b>CURRENT</b>	450mA max at 32V
<b>POWER CONSUMPTION</b>	Nominal: 7.7W at 24V Maximum: 15W at 32V

**6500-SMK**



**SURFACE MOUNT KIT FOR IR REFLECTIVE BEAM DETECTOR**

Surface Mount Kit for IR reflective beam detector. Allows direct surface cable entry.  
(Required when using the multi-mount kit)

**RTS151KEY**



**REMOTE ANNUNCIATOR AND CONTROL UNIT FOR BEAM DETECTORS**

Remote test station for beam and duct sensors.  
Dimensions (W x H x D) 70mm x 117mm x 46 mm

**WM2348E**

**SINGLE TERMINAL BACK BOX**

Single terminal back box for mounting RTS151KEY

**D2E**



**FEATURES**

- Photoelectric, integrated low-flow technology
- Air velocity rating from 1.5m/s to 20.3m/sec
- Versatile mounting options: square or rectangular configuration
- Clear cover for convenient visual inspection

**DUCT DETECTOR HOUSING COMPLETE WITH B401 BASE**

The duct detector samples air passing through a duct and gives dependable performance for shutdown of fans, blowers or airco systems, so preventing the spread of toxic smoke and fire gases through the protected area.

Complete with B401 base for Non-addressable detectors. (Detector not supplied). Requires DSTXX duct sampling tube (listed below) and detectors.

**TECHNICAL DATA**

<b>DIMENSIONS (RECTANGULAR)</b>	(WxHxD): 370mm x 127mm x 6.4mm
<b>DIMENSIONS (SQUARE)</b>	(WxHxD): 197mm x 229mm x 6.4mm
<b>WEIGHT</b>	0.82kg
<b>OPERATING TEMPERATURE</b>	-20°C to 70°C
<b>RELATIVE HUMIDITY</b>	0% to 95% (non condensing)
<b>AIR DUCT VELOCITY</b>	1.5 to 20.3 m/sec

**2351E A**



**LOW PROFILE NON-ADDRESSABLE OPTICAL SMOKE DETECTOR**

The 2351E photoelectric detector incorporates an Application Specific Integrated Circuit (ASIC). Combined with the latest state of the art optical chamber the detector provides efficient and accurate detection of fires with a high level of resilience to non-fire environmental influences.

**TECHNICAL DATA**

<b>DIAMETER</b>	102mm
<b>HEIGHT</b>	38mm
<b>WEIGHT</b>	105g
<b>OPERATING VOLTAGE</b>	8 to 30VDC (Nominal 12/24VDC)
<b>TYPICAL STANDBY CURRENT</b>	50µA @ 24VDC (LED no blink)
<b>MAXIMUM ALARM CURRENT (LED ON)</b>	80mA @ 24VDC (Limited by panel)
<b>TEMPERATURE RANGE</b>	-30°C to 70°C
<b>HUMIDITY</b>	5 to 95% Relative Humidity (non condensing)

**DST-1, DST-1.5, DST-3, DST-5, DST-10**



**AIR SAMPLING TUBES**

Metal sampling tube required for DNRE duct detector.

**TECHNICAL DATA**

<b>DIAMETER</b>	18mm
<b>LENGTH</b>	DST-1: 30 cm DST-1.5: 45.7 cm DST-3: 91.6 cm DST-5: 152 cm DST-10: 325.5 cm

**KFB6**



**FIRE BELL**

Robust motor driven fire alarm bell offers excellent sonorous tone, high sound output and proven reliability, 24Vdc, 15mA, 94dBA @ 1m.

**TECHNICAL DATA**

<b>DIMENSIONS</b>	6" (150mm)
<b>RATED VOLTAGE</b>	20.4 Vdc - 27.6 Vdc
<b>SOUND OUTPUT</b>	6.5 dB (A)

**74430-88NM**



**SOLENOID FIRE BELL 24V**

Electronic Solenoid Bell 24V DC, Red IP21

**TECHNICAL DATA**

<b>VOLTAGE</b>	24Vdc
<b>CURRENT</b>	25 - 35mA
<b>SOUND OUTPUT</b>	93 - 95dB(A)

**74432-88NM**



**SOLENOID FIRE BELL 24V IP44**

Electronic Solenoid Bell 24V DC, Red Weather Resistant IP44

**TECHNICAL DATA**

<b>VOLTAGE</b>	24Vdc
<b>CURRENT</b>	25 - 35mA
<b>SOUND OUTPUT</b>	93 - 95dB(A)

**74333-50NM**



**SOLENOID FIRE BELL 240V IP44**

Electronic Solenoid Bell 240V AC Grey Weather Resistant IP44

**TECHNICAL DATA**

<b>VOLTAGE</b>	240Vac
<b>CURRENT</b>	20 - 30mA
<b>SOUND OUTPUT</b>	93 - 95dB(A)

**74431-66NM**



**SOLENOID FIRE BELL 12V**

Electronic Solenoid Bell 12V DC, Grey IP21

**TECHNICAL DATA**

<b>VOLTAGE</b>	12Vdc
<b>CURRENT</b>	55 - 65mA
<b>SOUND OUTPUT</b>	93 - 95dB(A)

## Sounders



### FEATURES

- Simple, fast & flexible installation
- Suitable for wall and ceiling mount
- 32 tones, including a bell tone
- Two stage sounders enable alert and alarm sequences to be set for phased evacuation
- Synchronised sounder output
- Approved to EN54-3

## NON-ADDRESSABLE SOUNDERS

High quality devices designed to alert building occupants of an emergency. The product features a new folded horn design which provides outstanding sound output at low current draw. With its modern design, global tone set and extensive installer-friendly features, the sounder is the logical choice for specifiers, installers and distributors.

Includes (low profile or deep) base,

### TECHNICAL DATA

<b>DIMENSIONS (Ø x H)</b>	100 mm x 77 mm (low profile base) 100 mm x 102 mm (deep base)
<b>WEIGHT</b>	190g (low profile base); 197g (deep base)
<b>CURRENT</b>	31mA at 29 VDC (Tone 8)
<b>OPERATING VOLTAGE RANGE</b>	9-29VDC
<b>MAX. SOUND OUTPUT</b>	107dB (A) @ 1m (Tone 23)
<b>NUMBER OF TONES</b>	32, including a bell tone

### CWSO-RR-S1



## RED SOUNDER

Red EN54-3 approved low profile wall and ceiling mount sounder, 32 tones including new bell tone, suitable for 12 and 24V systems. Low profile base included.

### CWSO-RR-W1



## RED SOUNDER IP65

Red IP65 EN54-3 deep base wall and ceiling mount sounder, 32 tones including new bell tone, suitable for 12 and 24V systems. Deep base included.

### CWSO-WW-S1



## WHITE SOUNDER

White EN54-3 approved low profile wall and ceiling mount sounder, 32 tones including new bell tone, approved to EN54-3 suitable for 12 and 24V systems. Low profile base included.

### DBS1224B4W



## BASE SOUNDER - CEILING MOUNT

Detector Base Sounder designed and approved to EN 54-3 for mounting under detector base. Three selectable tones, as well as maximum volume in the switch base adjustable. Size and mounting are compatible with VISION (2020) detectors..

If required the SC085 White cover plate can be ordered separately.

**Strobes**



**FEATURES**

- Simple, fast & flexible installation
- Suitable for wall and ceiling mount
- Advanced optics ensure superior light coverage
- Synchronised flash exceeds EN54-23 standard
- Approved to EN54-23, C & W categories

**NON-ADDRESSABLE STROBES**

The conventional beacons feature high output LEDs, advanced optics and an innovative lens design, providing outstanding Omni-directional light coverage at low current draw. Specifically designed for, and approved to meet EN54-23, the beacons delivers outstanding quality, reliability and long operational life.

Includes (low profile or deep) base,

**TECHNICAL DATA**

<b>DIMENSIONS (Ø x H)</b>	100 mm x 72 mm (low profile base) 100 mm x 97 mm (deep base)
<b>WEIGHT</b>	164g (low profile base); 171g (deep base)
<b>CURRENT</b>	26mA at 29 VDC
<b>OPERATING VOLTAGE RANGE</b>	9-29VDC
<b>FLASH FREQUENCY</b>	0.5Hz
<b>APPROVED TO</b>	EN54-23 C & W categories

**CWST-RW-S5**



**WHITE STROBE**

Cool White flash EN54-23 W-2.4- 9.0 and C-3-9.5 / C-6-9.5 /C-9-9.5 class approved strobe with clear lens and red body, provides omni directional wall and ceiling mounting to ensure correct installation first time, comes with softstart feature as standard and suitable for 12 and 24V systems. Low profile base included.

**CWST-RW-W5**



**WHITE STROBE IP65**

Cool White flash IP65 deep base EN54-23 W-2.4- 9.0 and C-3-9.5 / C-6-9.5 /C-9-9.5 class approved strobe with clear lens and red body, provides omni directional wall and ceiling mounting to ensure correct installation first time, comes with softstart feature as standard and suitable for 12 and 24V systems. Deep base included..

**CWST-RR-S5**



**RED STROBE**

Red flash EN54-23 W-2.4- 6.7 and C-3-9.4 / C-6-8.6 class approved strobe with clear lens and red body, provides omni directional wall and ceiling mounting to ensure correct installation first time, comes with softstart feature as standard and suitable for 12 and 24V systems. Low profile base included.

**CWST-RR-W5**



**RED STROBE IP65**

Red flash IP65 deep base EN54-23 W-2.4- 6.7 and C-3-9.4 / C-6-8.6 class approved strobe with clear lens and red body, provides omni directional wall and ceiling mounting to ensure correct installation first time, comes with soft start feature as standard and suitable for 12 and 24V systems. Deep base included.

**Sounder Strobes**



**FEATURES**

- Simple, fast & flexible installation
- Suitable for wall and ceiling mount
- 32 tones, including a bell tone
- Advanced optics ensure superior light coverage
- Synchronised flash exceeds EN54-23 standard
- Approved to EN54-3 (sounder) and EN54-23, C & W categories (strobe)

**NON-ADDRESSABLE SOUNDER STROBES**

The conventional sounder beacon is ideal for applications where a dual purpose audible and visual alarm device is required. The product features a new folded horn design, high output LEDs, advanced optics and an innovative lens design, providing outstanding sound output and omni-directional light coverage at low current draw. Specifically designed and approved to meet both EN54-3 and EN54-23, the sounder beacons deliver outstanding quality, reliability and extended operational life. Includes (low profile or deep) base,

**TECHNICAL DATA**

<b>DIMENSIONS (Ø x H)</b>	100 mm x 98 mm (low profile base) 100 mm x 122 mm (deep base)
<b>WEIGHT</b>	248g (low profile base); 255g (deep base)
<b>CURRENT</b>	49mA at 29 VDC (class W) tone 7
<b>OPERATING VOLTAGE RANGE</b>	12-29VDC
<b>MAX. SOUND OUTPUT</b>	107dB (A) @ 1m (Tone 23)
<b>NUMBER OF TONES</b>	32, including a bell tone
<b>FLASH FREQUENCY</b>	0.5Hz

**CWSS-RW-S5**



**SOUNDER STROBE - RED BODY, WHITE FLASH**

Red body with cool white flash EN54-Pt.3 and Pt.23 W-2.4-8.9 and C-3-10 / C-6-10 class approved sounder strobe with clear lens, provides omni directional wall and ceiling mounting, comes with softstart feature as standard and suitable for 12 and 24V systems. Low profile base included.

**CWSS-RW-W5**



**SOUNDER STROBE - RED BODY, WHITE FLASH, IP65**

Red body with cool white flash, IP65 deep base, EN54-Pt.3 and Pt.23 W-2.4-8.9 and C-3-10 / C-6-10 class approved sounder strobe with clear lens, provides omni directional wall and ceiling mounting, comes with softstart feature as standard and suitable for 12 and 24V systems. Deep base included.

**CWSS-RR-S5**



**SOUNDER STROBE - RED BODY, RED FLASH**

Red body with red flash EN54-Pt.3 and Pt.23 W-2.4-6.8 and C-3-8.9 / C-6-8.2 class approved sounder strobe with clear lens, provides omni directional wall and ceiling mounting, comes with softstart feature as standard and suitable for 12 and 24V systems. Low profile base included.

**CWSS-RR-W5**



**SOUNDER STROBE - RED BODY, RED FLASH, IP65**

Red body with red flash, IP65 deep base, EN54-Pt.3 and Pt.23 W-2.4-6.8 and C-3-8.9 / C-6-8.2 class approved sounder strobe with clear lens, provides omni directional wall and ceiling mounting, comes with softstart feature as standard and suitable for 12 and 24V systems. Deep base included.

**CWSS-WW-S5**



**SOUNDER STROBE - WHITE BODY, WHITE FLASH**

White body with cool white flash EN54-Pt.3 and Pt.23 Pt.23 W-2.4-8.9 and C-3-10 / C-6-10 class approved sounder strobe with clear lens, provides omni directional wall and ceiling mounting, comes with softstart feature as standard and suitable for 12 and 24V systems. Low profile base included.

**CWSS-WW-W5**



**SOUNDER STROBE - WHITE BODY, WHITE FLASH, IP65**

Cool White flash IP65 deep base EN54-23 W-2.4- 9.0 and C-3-9.5 / C-6-9.5 / C-9-9.5 class approved strobe with clear lens and red body, provides omni directional wall and ceiling mounting to ensure correct installation first time, comes with softstart feature as standard and suitable for 12 and 24V systems. Deep base included..

**CSR**



**RED BASE**

Red low profile base, provides multiple cable entry points and a range of fixing centres, suitable for use with all commonly encountered fire cable sizes & ranges. Pack of 5

**CSW**



**WHITE BASE**

White low profile base, provides multiple cable entry points and a range of fixing centres, suitable for use with all commonly encountered fire cable sizes & ranges. Pack of 5

**CWR**



**RED DEEP BASE IP65**

Red Deep IP65 base, provides cable access for indoor surface & applications up to IP65, suitable for use with all commonly encountered fire cable sizes & ranges. Pack of 5

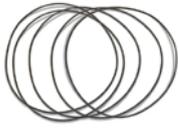
**CWW**



**WHITE DEEP BASE IP65**

White Deep IP65 base, provides cable access for indoor surface & applications up to IP65, suitable for use with all commonly encountered fire cable sizes & ranges. Pack of 5

**PS188**



**DEEP BASE O-RING**

Deep base O-Ring. If the IP65 option is required, the o-ring seal must be fitted to the base. Pack of 5

**PS189**



**DEEP BASE GASKET**

Deep base Gasket accessory can be installed between the base and the mounting surface to provide the appropriate seal. Pack of 5.

**SC076**



**EARTH STRAP**

Earth strap. Pack of 5



# **ADDRESSABLE FIRE DETECTION AND ALARM SYSTEMS**

### DXc Intelligent Multi-Protocol Fire Alarm Control Panel



The Honeywell Morley-IAS DX Connection panel is ideally suitable for use in the protection of small to medium sized buildings. All in all, a compact, high performance, feature rich, economical fire alarm control panel designed to help for both the installer and the end user.

The DX Connexion range of fire alarm control panels have been developed to be the most time efficient fire panel on the market to install. Simply fix the control panel to the wall, connect the field wiring, and in as few as four button presses later you can have a compliant, working fire alarm system.

The panel's large graphical display provides a clear menu structure making the whole initial set-up process quick, clear and intuitive.

Programming the control panel couldn't be easier. Text can be quickly inserted from the panel's mobile phone style keypad to identify the exact location of each field device. Alternatively, with the use of the DX Connexion PC tools, text can be input easily. All panel features and system cause and effect can be programmed via either the panels large LCD display or by using the Windows configuration tool.

### 714-001-111



#### FEATURES

- Networking up to 16 loops
- Optional 40, 80 or 160 zone alarm LEDs
- 6x40 characters, blue liquid crystal display with backlight illumination
- Option to upload company logo
- Configuration by Keypad and PC
- 160 Fire Zones
- RS-485 port for peripheral connection
- 2 programmable output sounder circuits (monitored)
- Fire, Fault and Auxiliary relays
- Loop-Battery calculator for reliable system design
- 7 day timer
- Onboard diagnostic
- Specification: EN54-2, EN54- 4
- LPCB approved

### DXc1 SINGLE LOOP CONTROL PANEL

Addressable single loop, multi protocol fire detection system supporting Apollo, System Sensor and Hochiki protocols. Two sounder circuits (1A max), 2A power source, general relay (Alarm and Fault), one programmable relay, fixed auxiliary output and resettable 24V 250mA output, 2 keys and two inputs for programmable functions, 240x64 pixels LCD graphic display, integrated USB port for PC programming and an RS485 port for repeaters. It can operate as a stand-alone or networked system with other DXc series panels up to 16 loops.

The CD contains loop and battery calculator, manuals and programming software allowing the display to be customized and address labels to be imported from an Excel file.

#### TECHNICAL DATA

<b>OPERATING VOLTAGE</b>	230 V, 50-60 Hz AC (+15%,-15% tolerance)
<b>MAX PSU RATING</b>	2 A / 24 V DC
<b>SOUNDER CKT RATING</b>	1 A
<b>AUXILIARY OUTPUT</b>	24 V DC / 250 mA
<b>LOOP LOAD</b>	500 mA
<b>AMBIENT TEMPERATURE</b>	0°C ... 40°C
<b>HUMIDITY</b>	5% ... 95% non-condensing
<b>BATTERY CAPACITY</b>	2 x 12 V / 7 Ah
<b>DIMENSION</b>	H: 260 mm W: 390 mm D: 147 mm
<b>WEIGHT</b>	4 kg
<b>HOUSING MATERIAL</b>	Mild Steel (rear enclosure), ABS plastic front cover complying BS EN60950
<b>COLOUR</b>	gray white, similar to RAL 9002
<b>INGRESS PROTECTION</b>	IP30
<b>CABLE ENTRY</b>	25 x 20 mm knock-outs at the top and 2 x 20 mm knock-outs at the bottom

### 714-001-221



#### FEATURES

- Networking up to 16 loops
- Optional 40, 80 or 160 zone alarm LEDs
- 6x40 characters, blue liquid crystal display with backlight illumination
- Option to upload company logo
- Configuration by Keypad and PC
- 160 Fire Zones
- RS-485 port for peripheral connection
- 2 programmable output sounder circuits (monitored)
- Fire, Fault and Auxiliary relays
- Loop-Battery calculator for reliable system design
- 7 day timer
- Onboard diagnostic
- Specification: EN54-2, EN54- 4
- LPCB approved

### DXc2 TWO LOOP CONTROL PANEL

Addressable two loop, multi protocol fire detection system supporting Apollo, System Sensor and Hochiki protocols. Two sounder circuits (1A max), 2A power source, general relay (Alarm and Fault), one programmable relay, fixed auxiliary output and resettable 24V 250mA output, 2 keys and two inputs for programmable functions, 240x64 pixels LCD graphic display, integrated USB port for PC programming and an RS485 port for repeaters. It can operate as a stand-alone or networked system with other DXc series panels up to 16 loops.

The CD contains loop and battery calculator, manuals and programming software allowing the display to be customized and address labels to be imported from an Excel file.

#### TECHNICAL DATA

<b>OPERATING VOLTAGE</b>	230 V, 50-60 Hz AC (+15%,-15% tolerance)
<b>MAX PSU RATING</b>	4 A / 24 V DC
<b>SOUNDER CKT RATING</b>	1 A
<b>AUXILIARY OUTPUT</b>	24 V DC / 250 mA
<b>LOOP LOAD</b>	500 mA
<b>AMBIENT TEMPERATURE</b>	0°C ... 40°C
<b>HUMIDITY</b>	5% ... 95% non-condensing
<b>BATTERY CAPACITY</b>	2 x 12 V / 17 Ah
<b>DIMENSION</b>	H: 391.5 mm W: 390 mm D: 147 mm
<b>WEIGHT</b>	4.5 kg
<b>HOUSING MATERIAL</b>	Mild Steel (rear enclosure), ABS plastic front cover complying BS EN60950
<b>COLOR</b>	gray white, similar to RAL 9002
<b>INGRESS PROTECTION</b>	IP30
<b>CABLE ENTRY</b>	25 x 20 mm knock-outs at the top and 2 x 20 mm knock-outs at the bottom

### 714-001-241



#### FEATURES

- Networking up to 16 loops
- Optional 40, 80 or 160 zone alarm LEDs
- 6x40 characters, blue liquid crystal display with backlight illumination
- Option to upload company logo
- Configuration by Keypad and PC
- 160 Fire Zones
- RS-485 port for peripheral connection
- 2 programmable output sounder circuits (monitored)
- Fire, Fault and Auxiliary relays
- Loop-Battery calculator for reliable system design
- 7 day timer
- Onboard diagnostic
- Specification: EN54-2, EN54- 4
- LPCB approved

### DXc4 FOUR LOOP CONTROL PANEL

Addressable four loop, multi protocol fire detection system supporting Apollo, System Sensor and Hochiki protocols. Two sounder circuits (1A max), 2A power source, general relay (Alarm and Fault), one programmable relay, fixed auxiliary output and resettable 24V 250mA output, 2 keys and two inputs for programmable functions, 240x64 pixels LCD graphic display, integrated USB port for PC programming and an RS485 port for repeaters. It can operate as a stand-alone or networked system with other DXc series panels up to 16 loops.

The CD contains loop and battery calculator, manuals and programming software allowing the display to be customized and address labels to be imported from an Excel file.

TECHNICAL DATA	
OPERATING VOLTAGE	230 V, 50-60 Hz AC (+15%,-15% tolerance)
MAX PSU RATING	4 A / 24 V DC
SOUNDER CKT RATING	1 A
AUXILIARY OUTPUT	24 V DC / 250 mA
LOOP LOAD	500 mA
AMBIENT TEMPERATURE	0°C ... 40°C
HUMIDITY	5% ... 95% non-condensing
BATTERY CAPACITY	2 x 12 V / 17 Ah
DIMENSION	H: 391.5 mm W: 390 mm D: 147 mm
WEIGHT	4.5 kg
HOUSING MATERIAL	Mild Steel (rear enclosure), ABS plastic front cover complying BS EN60950
COLOR	gray white, similar to RAL 9002
INGRESS PROTECTION	IP30
CABLE ENTRY	25 x 20 mm knock-outs at the top and 2 x 20 mm knock-outs at the bottom

### 795-102



### 40 ZONE LED CARD

DXc Control panels are supplied without zone LEDs. Two zone LED kits are available that include PCB, ribbon cable, zone number labels & fixings. Zone LED PCB is fitted to the lower half of the front door.

*Pictured - rear view of front door with zone LED kit fitted*

### 795-124



### 80 ZONE LED CARD

DXc Control panels are supplied without zone LEDs. Two zone LED kits are available that include PCB, ribbon cable, zone number labels & fixings. Zone LED PCB is fitted to the lower half of the front door.

*Pictured - rear view of front door with zone LED kit fitted*

**795-099**



**DXC NETWORK CARD KIT**

The DXc Network card to connect panels together to create a DXc panel Network. One Network card is required per panel. The DXc network is a peer to peer network with shared zones and keyboard, where each panel is equal in the network.

**795-122**



**DXC RS232 CARD**

RS232 Card allowing the connection of a serial device to the panel such as BMS system or AMX fire graphics software..

**795-132**



**SYSTEM IO CARD INTERFACE**

For use with DXc1-M (714-001-214) & DXc2-M (714-001-224) only. I/O card for EN54-13 compliant sounder circuits, Fire Routing interface, Fault Routing interface and Fire Protection interface. Routing Termination units may be required depending on application. Allows compliance with EN54-2 OWR 7.9.1 and 7.9.2, OWR 7.10, OWR 8.9..

**020-773**

**ROUTING TERMINATION UNIT 1 (RTU01)**

Routing Termination Unit 1 (RTU01). Use on the Fault Routing output on the 795-132 to allow full monitoring of the transmission path to transmission device. Allows compliance with EN54-2 OWR 8.9

**020-773-001**

**ROUTING TERMINATION UNIT 1 (RTU02)**

Routing Termination Unit 2 (RTU02). Use on the Fire Routing output on the 795-132 to allow full monitoring of the transmission path when using third party transmission devices. Allows compliance with EN54-2 OWR 7.9.1 and 7.9.2

**709-601-001**



**ACTIVE REPEATER PANEL**

The nine LED indicators provide a quick summary of the general system status for the user. The compact design makes it very easy to install and commission the Series repeaters. The repeater's event log can store up to 150 most recent events; this also aids commissioning.

Silence, Mute, Reset, Accept, Evacuate and Test Controls. 24 Vdc supply required.

165 x 254 x 50mm (H x W x D).

Requires an RS485 card fitted in control panel.

**709-701-001**



**PASSIVE REPEATER PANEL**

This is an indication only repeater. The back lit LCD and the common system status LED's follow the indication on the main fire alarm panel. Furthermore the passive repeater has configuration and test functions such as Lamp Test, LCD Test, and Buzzer Test.

24 Vdc supply required.

165 x 254 x 50mm (H x W x D).

Requires an RS485 card fitted in control panel.

**020-909**



**DXC COMPACT MIMIC DRIVER**

Allows geographic 'floor map' zonal indicators to be built for situations where increased clarity of the fire location is required above that given by the standard numbered zonal indicators.

Provides 16 LED outputs, common fire, fault, test, disablement and power OK output. Accepts keyswitch inputs to enable evacuate, silence, lamp test, mute and reset. Connects directly to the RS485 port provided as standard on the DXc panels. Expandable with up to 9 additional expansion mimic boards (020-910) each providing 16 additional outputs to create up-to a 160 zone system.. Requires 24 Vdc.

**020-910**



**DXC EXPANSION MIMIC PCB**

Provides 16 additional programmable LED outputs. Requires Compact Mimic driver board (020-909).

**795-121**



**DXC EXTENSION BOX**

Increases the enclosure size of a DXc1, Dxc2, or Dxc4 control panel to accommodate larger batteries, relays or other equipment by fitting the extension back box, 263 x 390 x 147 (H x W x D).

This Extension Box is supplied without covers. Two covers must be used with the box. Any combination of the three listed below can be used: 795-101, 795-103, 795-116.

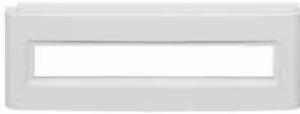
**795-101**



**COVER BLANK FOR EXTENSION BOX**

Cover Kit, blank cover

**795-116**



**CUSTOM KEY PLATE COVER**

The custom key plate cover is supplied with a painted metal plate. The metal plate can be removed and drilled to accept key switches or indicators and labelled accordingly by the installer. The custom key plate cover can be used to replace the blank cover supplied with the DXc2/4 control panels or used with the extension backbox, part No. 795-121.

**795-118**



**DXC KEY SWITCH KIT**

DXc Control panels can be fitted with an optional key switch kit. It is fitted by removing the existing label and replacing with a new label supplied with the kit. The flying lead (fitted with a plug) pushes on to the two pins situated at the bottom of the main display PCB.

**797-090**



**DXC EXTENSION EN54-4 COMPLIANT PSU BACKBOX**

Increases the enclosure size of a Dxc2, or Dxc4 control panel to accommodate an additional pair of 17Ah batteries to provide increased system battery standby of upto 34Ah at 24V (depending on the batteries fitted in the panel) . This unit is supplied with the backbox, two cover blanks and an additional power supply unit (PSU). 263 x 390 x 147 (H x W x D).

**795-112**



**FLUSH BEZEL KIT FOR DXC1**

Flush bezel kit for DXc1 (small enclosure)  
Dimensions (W x H): 471.5mm x 342 mm.

**795-113**



**FLUSH BEZEL KIT FOR DXC 2/4**

Flush bezel kit for DXc 2/4 (medium enclosure)  
Dimensions (W x H): 471.5mm x 473.5 mm

**795-114**



**FLUSH BEZEL KIT FOR DXC 1 WITH EXTENSION BACKBOX FITTED**

Flush bezel kit for DXc 1 panel that has the additional extension back box 795-121 fitted  
Dimensions (W x H): 471.5mm x 605.5 mm

**795-115**



**FLUSH BEZEL KIT FOR DXC 2/4 WITH THE EXTENSION BACKBOX FITTED**

Flush bezel kit for DXc 2/4 with the extension backbox fitted (medium enclosure)  
Dimensions (W x H): 471.5mm x 737.5 mm

**795-120**



**RACK MOUNT BRACKET FOR DXC2/4**

Bracket allowing DXc panels to be mounted in a standard 19" rack  
Colour: grey (RAL 9002)  
Height: 9 U  
weight: approx. 2.50 kg

**795-097**

**DXC SOFTWARE PROGRAMMING KIT**

DXc Software programming kit (SPK) supports System Sensor, Apollo and Hochiki protocols

**020-891**



**USB ISOLATED UPLOAD/DOWNLOAD LEAD**

The USB upload/download lead provides the interface between a PC and Honeywell Morley-IAS fire alarm control panel and is required to upload and download panel configuration from the DXc free configuration tool, to update panel firmware or to download history logs.

**795-108-001**



**DXC REPLACEMENT TEXT INSERTS**

DXc replacement text inserts, pack includes all text inserts/slide-in labels including both blank and numbered labels for Zone LEDs. Pack also includes the User Reference Guide and the Quick Start Manual.

**795-106**

**1**

**DXC1 SPARE PSU**

DXc1 Spare Power supply unit (PSU) for 1 loop panel

**795-109-001**

**2**

**DXC REGION 1, SPARE 1 LOOP BASE CARD**

DXc region 1, 1 loop base card

**795-107**

**3**

**DXC2/4 SPARE PSU**

DXc2/4 Spare Power supply unit (PSU) 2/4 loop panel

**795-110-001**

**4**

**DXC REGION 1, SPARE 2 LOOP BASE CARD**

DXc region 1, 2 loop base card

**795-111**

**5**

**DXC 2 LOOP EXPANSION CARD**

DXc 2 Loop Expansion Card for use with the DXc4 only



**1**

**2**

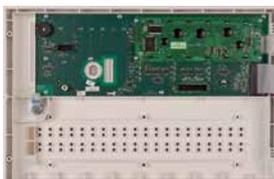


**3**

**4**

**5**

**795-104**



**DXC REPLACEMENT DOOR**

A replacement door is available for DXc control panels. The fits all three variants of the panel, DXc1, DXc2 & DXc4 and is supplied complete with display PCB, fascia label, ribbon cable and lock.



### ZXSe Intelligent Multi-Protocol Fire Alarm Control Panel



The ZX range of 1, 2 or 5 loop modular, scalable intelligent fire alarm control panels is suitable for protecting all types of medium to large properties. These panels are easy to install and maintain, making them an obvious choice for new projects and refurbishments.

The initial installation of the system is aided by sophisticated features like AUTOLEARN. An internal routine that will automatically detect all the devices on the detection and peripheral loops saving valuable commissioning time.

An off-line configuration tool is included to further enhance the process, making text entry and specific, complex device programming easier. Complex cause and effect programming is simplified through a clearly designed user interface. Once completed the configuration of the panel can be saved for future reference. Enhanced features allow the complete archiving of the control panel history log.

As the installation grows the ZXSe panel can expand with the building or site by adding additional devices, loop cards, printers or repeater panels. Additionally, further ZXSe panels can be networked together allowing an even bigger system to be created.

### 722-001-301



**FEATURES**

- Scalable platform which can support up to 99 on a single network
- Simple integration with VA/PA and other systems
- Seamless support of industry leading detection device protocols
- Easy to follow menu supports all standard maintenance activities
- Wide range of supporting equipment, such as printers, mounting accessories and repeaters provides maximum system flexibility
- Simple programming with the off-line system configuration tool
- Design to EN54 Parts 2 & 4

### 722-002-301

### 720-001-301



**FEATURES**

- Scalable platform which can support up to 99 on a single network
- Simple integration with VA/PA and other systems
- Seamless support of industry leading detection device protocols
- Easy to follow menu supports all standard maintenance activities
- Wide range of supporting equipment, such as printers, mounting accessories and repeaters provides maximum system flexibility
- Simple programming with the off-line system configuration tool
- Design to EN54 Parts 2 & 4

### 720-002-301

#### ZX1SE MULTI-PROTOCOL SINGLE LOOP CONTROL PANEL.

The ZX1Se is an intelligent fire alarm control panel. It has been designed and constructed around proven and reliable microprocessor technology. This simple approach has produced a modular, scalable fire alarm platform suitable for protecting all types of premises.

230Vac, 2 sounder circuits, 4 line display and networking capability, 400 x 400 x 135mm (H x W x D). Order loop cards separately. Languages supplied: English, Italian, Spanish, Portuguese, Polish, Dutch, Slovenian and Croatian.

Supplied with 20 zonal LED's , not expandable.

TECHNICAL DATA	
<b>DIMENSIONS (HXWXD)</b>	400 mm x 400 mm x 135 mm
<b>OPERATING VOLTAGE</b>	230V 50Hz AC
<b>WEIGHT</b>	10 kg without batteries
<b>CONSTRUCTION</b>	Sheet steel painted, sealed to IP30
<b>LOOP CAPACITY</b>	1 loop max. 460mA
<b>MAX. PSU RATING</b>	2.5A total, comprising battery charger: 0.5A
<b>STANDBY BATTERIES</b>	max. 2 x 12Ah/12V
<b>OPERATING TEMPERATURE</b>	0°C to +40°C
<b>RELATIVE HUMIDITY</b>	max. 85% (non-condensing)

#### ZX1SE WITH STAINLESS STEEL DOOR AND BEZEL

Specification as 722-001-301 complete with Stainless Steel door and bezel.

#### ZX2SE MULTI-PROTOCOL 1-2 LOOP CONTROL PANEL.

The ZX2Se is an intelligent fire alarm control panel. It has been designed and constructed around proven and reliable microprocessor technology. This simple approach has produced a modular, scalable fire alarm platform suitable for protecting all types of premises.

ZX2Se 1-2 loop control panel. 230Vac, 2 sounder circuits, 4 line display and networking capability. 400 x 400 x 135mm (H x W x D). Order loop cards separately. Languages supplied: English, Italian, Spanish, Portuguese, Polish, Dutch, Slovenian and Croatian.

Supplied with 20 zonal LED's , not expandable..

TECHNICAL DATA	
<b>DIMENSIONS (HXWXD)</b>	400 mm x 400 mm x 135 mm
<b>OPERATING VOLTAGE</b>	230V 50Hz AC
<b>WEIGHT</b>	10 kg without batteries
<b>CONSTRUCTION</b>	Sheet steel painted, sealed to IP30
<b>LOOP CAPACITY</b>	1 or 2 loops max. 460mA
<b>MAX. PSU RATING</b>	2.5A total, comprising battery charger: 0.5A
<b>STANDBY BATTERIES</b>	max. 2 x 12Ah/12V
<b>OPERATING TEMPERATURE</b>	0°C to +40°C
<b>RELATIVE HUMIDITY</b>	max. 85% (non-condensing)

#### ZX2SE WITH STAINLESS STEEL DOOR AND BEZEL

Specification as 720-001-301 complete with Stainless Steel door and bezel.

### 721-001-301



#### FEATURES

- Scalable platform which can support up to 99 on a single network
- Simple integration with VA/PA and other systems
- Seamless support of industry leading detection device protocols
- Easy to follow menu supports all standard maintenance activities
- Wide range of supporting equipment, such as printers, mounting accessories and repeaters provides maximum system flexibility
- Simple programming with the off-line system configuration tool
- Design to EN54 Parts 2 & 4

### ZX5SE MULTI-PROTOCOL 1-5 LOOP CONTROL PANEL.

The ZX5Se is an intelligent fire alarm control panel. It has been designed and constructed around proven and reliable microprocessor technology. This simple approach has produced a modular, scalable fire alarm platform suitable for protecting all types of premises.

ZX5Se 1-5 loop control panel. 230Vac, 4 sounder circuits, 4 line display and networking capability. 6 Amp PSU with 460mA loop capability 500 x 500 x 195mm (H x W x D). Order loop cards separately. Languages supplied: English, Italian, Spanish, Portuguese, Polish, Dutch, Slovenian and Croatian. Supplied with 20 zonal LED's , expandable to 40 or 80 with part numbers 795-077-020 or 795-077-060..

TECHNICAL DATA	
<b>DIMENSIONS (HXWXD)</b>	500 mm x 500 mm x 195 mm
<b>OPERATING VOLTAGE</b>	230V 50Hz AC
<b>WEIGHT</b>	20 kg without batteries
<b>CONSTRUCTION</b>	Sheet steel painted, sealed to IP30
<b>LOOP CAPACITY</b>	5 loop max. 460mA
<b>MAX. PSU RATING</b>	8.6A total, comprised of 2.25A min @ 25V (panel supply) 2.5A min @ 35V (loop supply) 1.66A min @ 12V (printer supply) 2.2A min charger current
<b>STANDBY BATTERIES</b>	max. 2 x 24Ah/12V
<b>OPERATING TEMPERATURE</b>	0°C to +40°C
<b>RELATIVE HUMIDITY</b>	max. 85% (non-condensing)

### 721-002-301



### ZX5SE WITH STAINLESS STEEL DOOR AND BEZEL

Specification as 721-001-301 complete with Stainless Steel door and bezel.

### 721-001-140



#### FEATURES

- Scalable platform which can support up to 99 on a single network
- Simple integration with VA/PA and other systems
- Seamless support of industry leading detection device protocols
- Easy to follow menu supports all standard maintenance activities
- Wide range of supporting equipment, such as printers, mounting accessories and repeaters provides maximum system flexibility
- Simple programming with the off-line system configuration tool
- Design to EN54 Parts 2 & 4

### ZX5SE MULTI-PROTOCOL 1-5 LOOP 140 ZONE LED CONTROL PANEL.

The ZX5Se is an intelligent fire alarm control panel. It has been designed and constructed around proven and reliable microprocessor technology. This simple approach has produced a modular, scalable fire alarm platform suitable for protecting all types of premises.

ZX5Se 1-5 loop control panel. 230Vac, 4 sounder circuits, 4 line display and networking capability. 6 Amp PSU with 460mA loop capability 500 x 500 x 195mm (H x W x D). Order loop cards separately. Languages supplied: English, Italian, Spanish, Portuguese, Polish, Dutch, Slovenian and Croatian. Supplied with 20 zonal LED's , expandable to 40 or 80 with part numbers 795-077-020 or 795-077-060..

TECHNICAL DATA	
<b>DIMENSIONS (HXWXD)</b>	500 mm x 500 mm x 195 mm
<b>OPERATING VOLTAGE</b>	230V 50Hz AC
<b>WEIGHT</b>	20 kg without batteries
<b>CONSTRUCTION</b>	Sheet steel painted, sealed to IP30
<b>LOOP CAPACITY</b>	5 loop max. 460mA
<b>MAX. PSU RATING</b>	8.6A total, comprised of 2.25A min @ 25V (panel supply) 2.5A min @ 35V (loop supply) 1.66A min @ 12V (printer supply) 2.2A min charger current
<b>STANDBY BATTERIES</b>	max. 2 x 24Ah/12V
<b>OPERATING TEMPERATURE</b>	0°C to +40°C
<b>RELATIVE HUMIDITY</b>	max. 85% (non-condensing)

### 721-001-200



#### FEATURES

- Scalable platform which can support up to 99 on a single network
- Simple integration with VA/PA and other systems
- Seamless support of industry leading detection device protocols
- Easy to follow menu supports all standard maintenance activities
- Wide range of supporting equipment, such as printers, mounting accessories and repeaters provides maximum system flexibility
- Simple programming with the off-line system configuration tool
- Design to EN54 Parts 2 & 4

### ZX5SE MULTI-PROTOCOL 1-5 LOOP 200 ZONE LED CONTROL PANEL.

The ZX5Se is an intelligent fire alarm control panel. It has been designed and constructed around proven and reliable microprocessor technology. This simple approach has produced a modular, scalable fire alarm platform suitable for protecting all types of premises.

ZX5Se 1-5 loop 200 Zone LED control panel. 230Vac, 4 sounder circuits, 4 line display and networking capability. 6 Amp PSU with 460mA loop capability 500 x 500 x 195mm (H x W x D). Order loop cards separately. Languages supplied: English, Italian, Spanish, Portuguese, Polish, Dutch, Slovenian and Croatian. supplied with 200 Zone led's.

#### TECHNICAL DATA

<b>DIMENSIONS (HXWXD)</b>	500 mm x 500 mm x 195 mm
<b>OPERATING VOLTAGE</b>	230V 50Hz AC
<b>WEIGHT</b>	20 kg without batteries
<b>CONSTRUCTION</b>	Sheet steel painted, sealed to IP30
<b>LOOP CAPACITY</b>	5 loop max. 460mA
<b>MAX. PSU RATING</b>	8.6A total, comprised of 2.25A min @ 25V (panel supply) 2.5A min @ 35V (loop supply) 1.66A min @ 1.2V (printer supply) 2.2A min charger current
<b>STANDBY BATTERIES</b>	max. 2 x 24Ah/12V
<b>OPERATING TEMPERATURE</b>	0°C to +40°C
<b>RELATIVE HUMIDITY</b>	max. 85% (non-condensing)

### 795-066-100



### LOOP DRIVER CARD FOR APOLLO PROTOCOL

Loop driver card for Apollo Discovery or XP95 protocols, 460mA.

The Apollo Loop Driver is a plug-in card for use in the ZXSe series intelligent multi-protocol fire alarm control panels. This card allows ZXSe series control panels to support input/output points from Apollo, XP95 and Discovery series addressable devices.

### 795-058-105



### LOOP DRIVER CARD FOR HOCHIKI PROTOCOL

Loop driver card for Hochiki ESP protocol, 460mA.

The Hochiki Loop Driver is a plug-in card for use in the ZXSe series intelligent multi-protocol fire alarm control panels. This card allows ZXSe series control panels to support input/output points from Hochiki ESP series addressable devices.

### 795-068-100



### LOOP DRIVER CARD FOR SYSTEM SENSOR PROTOCOL

System Sensor Protocol Loop driver card for 460mA.

The System Sensor Driver is a plug-in card for use in the ZXSe series intelligent multi-protocol fire alarm control panels. This card allows ZXSe series control panels to support input/output points from System Sensor CLIP and Advanced series addressable devices.

**795-004-001**



**RS 485 COMMUNICATION MODULE.**

The RS485 communication module supports two-wire RS485 multi-drop transmission between networked ZX2Se/ZXSe/ZX5Se control panels, between ZX series control panels and repeaters or between ZX series control panels and serial peripheral devices.

**795-005**



**RS 232 COMMUNICATION MODULE.**

The RS232 communication module supports a single point-to-point communication between ZX series panels. The panels can also be installed remotely if a suitable modem and leased or private line are used. The RS232 module also supports a single point-to-point transmission between a ZX2Se/ZX5Se control panel and graphic front end.

**795-077-020**



**20 ZONE LED CARD**

20 Zone LED Card, includes PCB, ribbon cable & fixings. Zone LED PCB is fitted below the display card and increases the total number of zone LEDs to 40.

**795-077-060**



**60 ZONE LED CARD**

60 Zone LED Card, includes PCB, ribbon cable & fixings. Zone LED PCB is fitted below the display card and increases the total number of zone LEDs to 80.

**795-051-001**



**INTERNAL PRINTER**

Internal Printer for use with ZX5Se panels. When using panels fitted with greater than 80 zonal LEDs use external printer 795-060-002.

The 40 character internal printer can be installed directly in a ZX5Se panel to provide hard copy print-out of the events at the panel. The printer and the interface card are mounted on the door of the ZX5Se in the space provided below the zone indicators.

**796-017**

**PRINTER PAPER ROLL**

Printer paper roll and printer ribbon for ZXe/ZXSe internal printer. (795-051-001).

**795-014**



**4 WAY, PROGRAMMABLE OUTPUT RELAY MODULE**

4 Way, Programmable Output Relay Module, PCB only. Requires 24 Vdc supply and an RS485 card to be fitted in the control panel. Consists of 4 relay outputs built on a single printed circuit board. Each output relay provides single pole double throw (SPDT) switching action for other locally powered equipment. The form C relay contacts are designed to switch resistive loads of up to 1A/24V ac/dc.

**795-015**



**4 WAY, PROGRAMMABLE SOUNDER MODULE**

4 Way, Programmable Sounder Module, PCB only. Requires 24 Vdc supply and an RS485 card to be fitted in the control panel.  
The 4-way sounder card consists of 4 supervised sounder outputs built on a single printed circuit board. Each sounder output provides a supervised 24Vdc polarity reversal circuit. This output can be used to drive bells, electronic sounders and strobes. Each output circuit can provide up to 1A with a maximum of 3A spread over all four outputs.

**795-038-001**



**HI-485 COMMUNICATION MODULE**

Hi-485 communication module, pcb only. Requires an RS485 card to be fitted in the control panel.  
The Hi-485 nodes are able to detect and isolate transmission line faults such as short and open circuits on the network wiring. The Hi-485 modules also act as signal repeaters/boosters, which enable "High Integrity" loops of up to 12 km (39,370 ft) to be constructed.

**797-077**



**ZX1(S)e & 2(S)e BATTERY BOX / MOUNTING ENCLOSURE**

ZX1(S)e & 2(S)e Battery box or mounting enclosure. Size 400 x 400 x 135mm (H x W x D).

**797-078**



**ZX5(S)e BATTERY BOX / MOUNTING ENCLOSURE**

ZX5(S)e Battery box or mounting enclosure. Size 500 x 500 x 185mm (H x W x D).

**797-076**



**L' SHAPED MOUNTING BRACKET**

L' shaped mounting bracket to fit peripheral pcb's into Zxe/ZX5e/ZXSe.

**709-601-001**



**ACTIVE REPEATER PANEL**

The nine LED indicators provide a quick summary of the general system status for the user. The compact design makes it very easy to install and commission the Series repeaters. The repeater's event log can store up to 150 most recent events; this also aids commissioning. Silence, Mute, Reset, Accept, Evacuate and Test Controls. 24 Vdc supply required. 165 x 254 x 50mm (H x W x D). Requires an RS485 card fitted in control panel.

**709-701-001**



**PASSIVE REPEATER PANEL**

This is an indication only repeater. The back lit LCD and the common system status LED's follow the indication on the main fire alarm panel. Furthermore the passive repeater has configuration and test functions such as Lamp Test, LCD Test, and Buzzer Test. 24 Vdc supply required. 165 x 254 x 50mm (H x W x D). Requires an RS485 card fitted in control panel.

**709-752**



**STAINLESS STEEL SEMI-FLUSH ACTIVE REPEATER**

Morley-IAS Stainless steel semi-flush Active repeater. Silence, Mute, Reset, Accept, Evacuate and Test controls. Requires a 24Vdc supply and a RS485 card when used with ZX control panels. 165 x 254 x 50mm (H x W x D).

**795-060-002**



**EXTERNAL PRINTER**

External printer. 230Vac, requires 6V 1.1Ah battery (not-supplied). 170 x 400 x 135mm (H x W x D).

**796-042**

**THERMAL PRINTER PAPER ROLL**

Thermal printer paper roll for ZX External printer (795-060-002).

**795-057**



**MODBUS INTERFACE MODULE.**

The modbus interface unit connects to the RS485 peripheral bus of a fire control panel and allows panel interrogation by a modbus (RTU) control system. Requires an RS485 card fitted in control panel.

**795-067-001**

**EXTERNAL PAGING INTERFACE MODULE.**

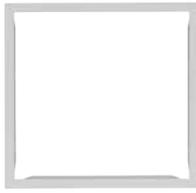
External Paging Interface Module. 175 x 250 x 75mm. (H x W x D). Supports SCOPE, ASCOM/TELENOVA and HLSUK paging products. Requires RS485 card to be fitted in control panel. If you require this unit when using a HLSUK paging system please contact your Morley-IAS business manager.

**795-045**

**RS485 TO RS232 CONVERTER.**

RS485 to RS232 converter.

**797-061**



**ZX1(S)E/ZX2(S)E BEZEL KIT**

Semi flush mounting kit for ZX1(S)e or ZX2(S)e control panel. Bezel dimensions 450 x 450 mm (H x W)

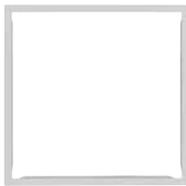
**797-063**



**ZX1SE AND ZX2SE GLASS DOOR KIT**

Comprises a new inner door and plaxiglass window allowing controls to protected and recessed within the existing enclosure.

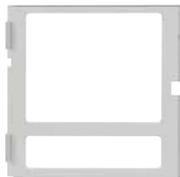
**797-062**



**ZX5SE BEZEL KIT**

Semi flush mounting kit for ZX5(S)e control panel. Bezel dimensions 550 x 550mm (H x W).

**797-064**



**ZX5SE GLASS DOOR KIT**

Comprises a new inner door and plaxiglass window allowing controls to protected and recessed within the existing enclosure.

**020-600-002**



**BEZEL KIT FOR ACTIVE OR PASSIVE REPEATERS**

Semi-flush mounting, 218 x 307 mm (H x W).

**ZXSE – SOFTWARE**

<b>795-082</b>	Engineer's SPK (Software Programming Kit). CD containing Fire 6, Fire 5, Fire 4, Fire 3 and Dimension configuration tools.
<b>020-891</b>	Morley-IAS USB Upload / Download Lead. The lead provides the interface between a PC and any Morley-IAS fire alarm control panel.
<b>796-860</b>	ZX Series V8.60 replacement software (set of two EPROMS)
<b>796-855</b>	ZX Series V8.55 replacement software (set of two EPROMS)
<b>796-850</b>	ZX Series V8.50 replacement software (set of two EPROMS)
<b>796-845</b>	ZX Series V8.45 replacement software (set of two EPROMS)
<b>796-706</b>	ZX Series V7.06 replacement software (set of two EPROMS)

**ZX RANGE SPARE PARTS**

<b>797-021</b>	Spare key for ZX series control panels. Quantity 1.
<b>020-825</b>	Lock and key for ZX series control panels.
<b>796-045</b>	Micro processor pcb for ZX series control panels. Supplied without software.
<b>796-177</b>	2 Amp PSU for post-Jan 2010 ZX1Se/2Se. PSU only this part does not come with chassis plate.
<b>796-181</b>	ZX5Se 4 Line Display including display plate and overlay.
<b>796-183</b>	ZX1Se and ZX2Se 4 Line Display including display plate and overlay.
<b>796-171</b>	Single loop base pcb for ZX1Se.
<b>796-170</b>	2 loop base card for ZX2Se.
<b>796-162</b>	5 loop base pcb for ZX5e/ZX5Se.
<b>795-136</b>	ZX1/2SE Back Box. Includes the metal work only.
<b>795-141</b>	ZX1/2SE Door. Metal work only.
<b>795-137</b>	ZX5SE Back Box. Metal work only.
<b>795-142</b>	ZX5SE Door. Metal work only.
<b>795-138</b>	ZX10SE Back Box. Metal work only.
<b>020-835</b>	Spare key switch and keys (901) for Morley repeaters 709-601-001
<b>795-044-001</b>	Loop driver card for Nittan protocol.
<b>796-178</b>	Spare PSU for ZX5Se post-Jan 2010. PSU only this part does not come with chassis plate.
<b>795-016</b>	Sounder booster PSU. Enclosure comprising 24Vdc PSU/Charger and single sounder circuit controller. 500 x 500 x 180mm (H x W x D).



**22051E-26**



**S200A OPTICAL SMOKE SENSOR - WHITE**

Low profile Optical Smoke Sensor - White. Requires B501AP base

The S200A photoelectric smoke detector has a completely new detection chamber design, the result of many years of research and development. This delivers improved responsiveness, reduced sensitivity to changes caused by settling dust and reduced false alarms resulting from ingress of insect and other debris. The plug-in unit uses sophisticated processing circuitry that incorporates smoothing filters to help eliminate transient environmental noise conditions that can be the cause of unwanted alarms.

**TECHNICAL DATA**

HEIGHT	52mm installed in B501AP base
DIAMETER	102mm installed in B501AP base
WEIGHT	97g (inc base)
MAX WIRE GAUGE FOR TERMINALS	2.5mm <sup>2</sup>
COLOUR	White
MATERIAL	PC/ABS
OPERATING VOLTAGE RANGE	15 to 32Vdc
MAXIMUM STANDBY CURRENT	200µA at 24Vdc (no communications) 300µA at 24Vdc ( LED blink enabled, once every 5s)
LED CURRENT	3.5mA at 24Vdc
TEMPERATURE RANGE	-30°C to +70°C
HUMIDITY	10 to 93% relative humidity (non-condensing)

**22051EI-26**

**S200A OPTICAL SMOKE SENSOR WITH ISOLATOR - WHITE**

Low profile Optical Smoke Sensor cw Isolator - White. Requires B501AP base.

**22051TE-26**



**S200A OPTICAL/THERMAL MULTI SENSOR - WHITE**

Multi-sensor combined optical smoke sensor and thermal sensor in a single housing, - White, Requires B501AP base

The S200A multi-criteria , photo, thermal detector uses thermal assistance to the core photoelectric smoke detector to give enhanced false alarm immunity and faster response to a wide range of incipient fires. The unit combines two separate sensing elements that are managed by embedded software to act as a single unit. Conforms to EN54-7, a 58°C fixed temperature and rate of rise thermal assistance conforming to EN54-5

**SENSITIVITY SETTINGS**

ALARM LEVEL 1	1%/ft smoke
ALARM LEVEL 2	2%/ft smoke
ALARM LEVEL 3	3%/ft smoke
ALARM LEVEL 4	3%/ft smoke
ALARM LEVEL 5	3%/ft smoke
ALARM LEVEL 6	Class A1R

**TECHNICAL DATA**

HEIGHT	61mm installed in B501AP base
DIAMETER	102mm installed in B501AP base
WEIGHT	99g (inc base)
MAX WIRE GAUGE FOR TERMINALS	2.5mm <sup>2</sup>
COLOUR	White
MATERIAL	PC/ABS
OPERATING VOLTAGE RANGE	15 to 32Vdc
MAXIMUM STANDBY CURRENT	200µA at 24Vdc (no communications) 300µA at 24Vdc ( LED blink enabled, once every 5s)
LED CURRENT	3.5mA at 24Vdc
TEMPERATURE RANGE	-30°C to +70°C
HUMIDITY	10 to 93% relative humidity (non-condensing)

**22051TEI-26**

**S200A OPTICAL/THERMAL MULTI SENSOR WITH ISOLATOR - WHITE**

Multi-sensor combined optical smoke sensor and thermal sensor c/w Isolator in a single housing, - White, Requires B501AP base

### 22051TLE-26



#### SENSITIVITY SETTINGS

ALARM LEVEL 1	Low false alarm resistance, high photoelectric only sensitivity. 1%/ft smoke
ALARM LEVEL 2	Medium false alarm resistance, medium photoelectric only sensitivity. 2%/ft smoke
ALARM LEVEL 3	Standard false alarm resistance, low photoelectric only sensitivity. 3%/ft smoke
ALARM LEVEL 4	High false alarm resistance, low photoelectric only sensitivity. 3%/ft smoke
ALARM LEVEL 5	Very high false alarm resistance, low photoelectric only sensitivity. 3%/ft smoke
ALARM LEVEL 6	Heat sensor - Class A1R

### S200A SMOKE/THERMAL/IR SENSOR - WHITE

The S200A multi-criteria, multi-sensor, photo, thermal and infra-red detector offers comparable speed of response to the ionisation technology for a fast flaming fire and is less susceptible to false alarms.

The integration of continual monitoring for all three major elements of a fire enables the device to respond far more quickly to an actual fire and has the highest immunity to nuisances. Based upon the sensor signals, the program dynamically changes sensor thresholds, sensor gain, time delays, combination, sampling rates and averaging rates.

#### TECHNICAL DATA

HEIGHT	63mm installed in B501AP base
DIAMETER	102mm installed in B501AP base
WEIGHT	102g (inc base)
MAX WIRE GAUGE FOR TERMINALS	2.5mm <sup>2</sup>
COLOUR	White
MATERIAL	PC/ABS
OPERATING VOLTAGE RANGE	15 to 32Vdc
MAXIMUM STANDBY CURRENT	200µA at 24Vdc (no communications) 300µA at 24Vdc ( LED blink enabled, once every 5s)
LED CURRENT	3.5mA at 24Vdc
TEMPERATURE RANGE	-30°C to +70°C
HUMIDITY	10 to 93% relative humidity (non-condensing)

### 22051TLEI-26

### S200A SMOKE/THERMAL/IR SENSOR WITH ISOLATOR - WHITE

S200A multi-criteria, multi-sensor, photo, thermal and infra-red detector with isolator

### 52051E-26



### S200A HEAT SENSOR 58 °C TYPE A1R - WHITE

Heat sensor. 58 °C - White. Type A1R. Requires B501AP, base.

Fixed temperature analogue addressable sensor employing low mass thermistors and microprocessor technology for fast response.

#### TECHNICAL DATA

HEIGHT	61mm installed in B501AP base
DIAMETER	102mm installed in B501AP base
WEIGHT	88g (inc base)
MAX WIRE GAUGE FOR TERMINALS	2.5mm <sup>2</sup>
COLOUR	White
MATERIAL	PC/ABS
OPERATING VOLTAGE RANGE	15 to 32Vdc
MAXIMUM STANDBY CURRENT	200µA at 24Vdc (no communications) 300µA at 24Vdc ( LED blink enabled, once every 5s)
LED CURRENT	3.5mA at 24Vdc
TEMPERATURE RANGE	-30°C to +70°C
HUMIDITY	10 to 93% relative humidity (non-condensing)

### 52051EI-26

### S200A HEAT SENSOR 58 °C TYPE A1R WITH ISOLATOR- WHITE

Heat sensor. 58 °C with isolator - White. Type A1R. Requires B501AP, base.

**52051HTE-26**



**S200A HEAT SENSOR 78 °C WHITE. TYPE BS- WHITE**

Heat high temperature sensor, 78 °C - White. Type BS. Requires B501AP base.  
 Fixed temperature analogue addressable sensor employing low mass thermistors and microprocessor technology for fast response.

TECHNICAL DATA	
HEIGHT	61mm installed in B501AP base
DIAMETER	102mm installed in B501AP base
WEIGHT	88g (inc base)
MAX WIRE GAUGE FOR TERMINALS	2.5mm <sup>2</sup>
COLOUR	White
MATERIAL	PC/ABS
OPERATING VOLTAGE RANGE	15 to 32Vdc
MAXIMUM STANDBY CURRENT	200µA at 24Vdc (no communications) 300µA at 24Vdc ( LED blink enabled, once every 5s)
LED CURRENT	3.5mA at 24Vdc
TEMPERATURE RANGE	-30°C to +70°C
HUMIDITY	10 to 93% relative humidity (non-condensing)

**52051RE-26**



**S200A HEAT SENSOR 58 °C AND ROR TYPE A1R - WHITE**

Heat sensor. 58 °C and Rate of Rise - White. Type A1R. Requires B501AP, base.  
 Rate of Rise temperature analogue addressable sensor employing low mass thermistors and microprocessor technology for fast response.

TECHNICAL DATA	
HEIGHT	61mm installed in B501AP base
DIAMETER	102mm installed in B501AP base
WEIGHT	88g (inc base)
MAX WIRE GAUGE FOR TERMINALS	2.5mm <sup>2</sup>
COLOUR	White
MATERIAL	PC/ABS
OPERATING VOLTAGE RANGE	15 to 32Vdc
MAXIMUM STANDBY CURRENT	200µA at 24Vdc (no communications) 300µA at 24Vdc ( LED blink enabled, once every 5s)
LED CURRENT	3.5mA at 24Vdc
TEMPERATURE RANGE	-30°C to +70°C
HUMIDITY	10 to 93% relative humidity (non-condensing)

**B501AP**



**ANALOGUE SENSOR BASE**

Analogue sensor base with SEMS screw connections for isolated and non-isolated detectors and address identification label. PURE WHITE.  
Dimensions (Ø x h): 102 mm x 22.5 mm

**B524IEFT-1WH**



**DEEP ANALOGUE SENSOR BASE WITH FET ISOLATOR,**

Deep analogue sensor base with built in FET isolator, with SEMS screw connections and address identification label. Requires an RS485 card fitted in control panel.

**WB-1AP**



**WET BASE SHROUD**

Adapter base enclosure for humid environments to allow condensation run off and rear seal. For use with standard B501AP base. Conduit entry only.

**RI/W/3V**



**REMOTE INDICATOR**

Remote LED (flush mounting). Requires a single gang backbox for mounting.

### W5A-RP01SG-K013-01



**FEATURES**

- Unique 'Plug & Play' installation concept
- Fully approved to EN54, Part 11
- Backward compatible as replacement for previous products
- Integral alarm/communication LED
- Anti-tamper facility
- Optional cover for two action operation

### W5A-RP02SG-K013-01



**FEATURES**

- Unique 'Plug & Play' installation concept
- Fully approved to EN54, Part 11
- Backward compatible as replacement for previous products
- Integral alarm/communication LED
- Anti-tamper facility
- Optional cover for two action operation

### M5A-RP01FG-K013-01



**FEATURES**

- Unique 'Plug & Play' installation concept
- Fully approved to EN54, Part 11
- Backward compatible as replacement for previous products
- Integral alarm/communication LED
- Anti-tamper facility
- Optional cover for two action operation

### ADDRESSABLE WATERPROOF CALL POINT

Addressable waterproof call point, IP 67

Weather proof call point designed to provide a manual alarm interface to Morley-IAS fire alarm control panels where additional protection against the environment is necessary. Surface mounting and rated to IP67. The enclosure is suitable for single or dual cable entry and is supplied with an earth continuity link plate.

**TECHNICAL DATA**

<b>DIMENSIONS (HXWXD)</b>	93 mm x 97.5 mm x 65.5 mm
<b>WEIGHT</b>	270g
<b>OPERATING TEMPERATURE</b>	-30°C to +70°C
<b>COLOUR</b>	RAL3001

### ADDRESSABLE WATERPROOF CALL POINT WITH ISOLATOR

Addressable waterproof call point with built in isolator, IP67

Weather proof call point designed to provide a manual alarm interface to Morley-IAS fire alarm control panels where additional protection against the environment is necessary. Surface mounting and rated to IP67. The enclosure is suitable for single or dual cable entry and is supplied with an earth continuity link plate.

**TECHNICAL DATA**

<b>DIMENSIONS (HXWXD)</b>	93 mm x 97.5 mm x 65.5 mm
<b>WEIGHT</b>	270g
<b>OPERATING TEMPERATURE</b>	-30°C to +70°C
<b>COLOUR</b>	RAL3001

### ADDRESSABLE MANUAL CALL POINT - GLASS ELEMENT

Addressable manual call point. Glass element included. Requires PSO31W for surface mounting or a single gang backbox for flush mounting. IP24

Designed to provide a manual alarm interface to Morley-IAS fire alarm control panel. Installation efficiency, flexibility and compliance with the latest standards are at the heart of the call point range.

**TECHNICAL DATA**

<b>DIMENSIONS (HXWXD)</b>	Semi-flush mounting: 89 mm x 93 mm x 27.5 mm Surface mounting: 89 mm x 93 mm x 59.5 mm
<b>WEIGHT</b>	Flush: 110g / Surface: 160g
<b>OPERATING TEMPERATURE</b>	-10°C to +55°C
<b>COLOUR</b>	RAL3001

### M5A-RP02FG-K013-01



**FEATURES**

- Unique 'Plug & Play' installation concept
- Fully approved to EN54, Part 11
- Backward compatible as replacement for previous products
- Integral alarm/communication LED
- Anti-tamper facility
- Optional cover for two action operation

### M5A-RP01FF-K013-01



**FEATURES**

- Unique 'Plug & Play' installation concept
- Fully approved to EN54, Part 11
- Backward compatible as replacement for previous products
- Integral alarm/communication LED
- Anti-tamper facility
- Optional cover for two action operation

### M5A-RP02FF-K013-01



**FEATURES**

- Unique 'Plug & Play' installation concept
- Fully approved to EN54, Part 11
- Backward compatible as replacement for previous products
- Integral alarm/communication LED
- Anti-tamper facility
- Optional cover for two action operation

## ADDRESSABLE MANUAL CALL POINT - GLASS ELEMENT - ISOLATOR

Addressable manual call point with built in isolator. Glass element included. Requires PS031W for surface mounting or a single gang backbox for flush mounting. IP24

Designed to provide a manual alarm interface to Morley-IAS fire alarm control panel. Installation efficiency, flexibility and compliance with the latest standards are at the heart of the call point range.

TECHNICAL DATA	
<b>DIMENSIONS (HXWXD)</b>	Semi-flush mounting: 89 mm x 93 mm x 27.5 mm Surface mounting: 89 mm x 93 mm x 59.5 mm
<b>WEIGHT</b>	Flush: 110g / Surface: 160g
<b>OPERATING TEMPERATURE</b>	-10°C to +55°C
<b>COLOUR</b>	RAL3001

## ADDRESSABLE MANUAL CALL POINT - FLEXIBLE ELEMENT

Addressable manual call point. Flexible element included. Requires PS031W for surface mounting or a single gang backbox for flush mounting. IP24

Designed to provide a manual alarm interface to Morley-IAS fire alarm control panel. Installation efficiency, flexibility and compliance with the latest standards are at the heart of the call point range.

TECHNICAL DATA	
<b>DIMENSIONS (HXWXD)</b>	Semi-flush mounting: 89 mm x 93 mm x 27.5 mm Surface mounting: 89 mm x 93 mm x 59.5 mm
<b>WEIGHT</b>	Flush: 110g / Surface: 160g
<b>OPERATING TEMPERATURE</b>	-10°C to +55°C
<b>COLOUR</b>	RAL3001

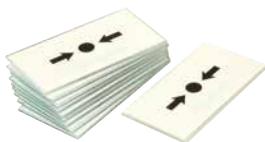
## ADDRESSABLE MANUAL CALL POINT - FLEXIBLE ELEMENT- ISOLATOR

Addressable manual call point with built in isolator. Flexible element included. Requires PS031W for surface mounting or a single gang backbox for flush mounting. IP24

Designed to provide a manual alarm interface to Morley-IAS fire alarm control panel. Installation efficiency, flexibility and compliance with the latest standards are at the heart of the call point range.

TECHNICAL DATA	
<b>DIMENSIONS (HXWXD)</b>	Semi-flush mounting: 89 mm x 93 mm x 27.5 mm Surface mounting: 89 mm x 93 mm x 59.5 mm
<b>WEIGHT</b>	Flush: 110g / Surface: 160g
<b>OPERATING TEMPERATURE</b>	-10°C to +55°C
<b>COLOUR</b>	RAL3001

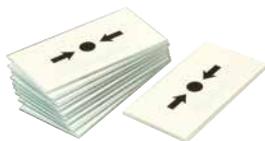
**MUS158**



**ANALOGUE SENSOR BASE**

Pack of 50 EN54 Pt.11 glasses (Unbranded).

**PS230**



**DEEP ANALOGUE SENSOR BASE WITH FET ISOLATOR,**

Pack of ten resettable elements.

**PS200**



**CALL POINT COVER**

Transparent protective hinged cover

**PS031W**



**REMOTE INDICATOR**

Single terminal surface back box for call points.

### WST-PC-N00



#### FEATURES

- High output LED array technology
- Rotary decade address switches
- Lower power requirements
- Optional built-in isolator
- Specification EN54-17
- LPCB approved

### WSS-PC-N00



#### FEATURES

- 32 built-in tones
- Rotary decade address switches
- Low power requirements
- Optional IP65 rating
- Anti-Tamper feature
- Specification EN54-3, EN54-23
- LPCB approved

### WSS-PR-N00



#### FEATURES

- 32 built-in tones
- Rotary decade address switches
- Low power requirements
- Optional IP65 rating
- Anti-Tamper feature
- Specification EN54-3
- LPCB approved

### ADDRESSABLE WALL MOUNTED VAD

Wall VAD - Wall mounted, addressable loop powered

EN54-23 O class compliant (W-1.68-1.68)

Clear lens with red flash. Not isolated.

#### TECHNICAL DATA

<b>DIMENSIONS</b>	Height: 51mm Diameter:121mm
<b>WEIGHT</b>	168g
<b>STANDBY CURRENT</b>	120µA
<b>MAX. CURRENT CONSUMPTION</b>	5.21mA
<b>OPERATING TEMPERATURE</b>	-25°C to +70°C
<b>HUMIDITY</b>	Max. 95% relative humidity (non-condensing)

### ADDRESSABLE WALL MOUNTED SOUNDER VAD

Wall Sounder VAD - Wall mounted, addressable, loop powered sounder, EN54-3 approved, with Visual Alarm Device (VAD), EN54-23 O class compliant (W-1.9-1.9). Clear lens with red flash. Not isolated.

#### TECHNICAL DATA

<b>DIMENSIONS</b>	Height: 64mm Diameter:121mm
<b>WEIGHT</b>	238g
<b>STANDBY CURRENT</b>	120µA
<b>MAX. CURRENT CONSUMPTION</b>	14.5mA (High Volume Tone 11 @15V)
<b>OPERATING TEMPERATURE</b>	-25°C to +70°C
<b>HUMIDITY</b>	Max. 95% relative humidity (non-condensing)
<b>MAX. SOUND OUTPUT</b>	97 dB(A) ±3dB @1m (High Volume, Tone 8 @24V)

### ADDRESSABLE WALL MOUNTED SOUNDER VID

Wall Sounder VID - Wall mounted, addressable, loop powered sounder, EN54-3 approved, with visual indicating device (VID), RED lens. Not isolated\*.

This product is not approved to EN54-23 (Visual Alarm Device) and must not be used as a visual alarm device to provide a primary warning notification of fire

#### TECHNICAL DATA

<b>DIMENSIONS</b>	Height: 64mm Diameter:121mm
<b>WEIGHT</b>	238g
<b>STANDBY CURRENT</b>	120µA
<b>MAX. CURRENT CONSUMPTION</b>	14.5mA (High Volume Tone 11 @15V)
<b>OPERATING TEMPERATURE</b>	-25°C to +70°C
<b>HUMIDITY</b>	Max. 95% relative humidity (non-condensing)
<b>MAX. SOUND OUTPUT</b>	97 dB(A) ±3dB @1m (High Volume, Tone 8 @24V)

### WSS-PR-100



**FEATURES**

- 32 built-in tones
- Rotary decade address switches
- Low power requirements
- Optional IP65 rating
- Anti-Tamper feature
- Specification EN54-3
- LPCB approved

### ADDRESSABLE WALL MOUNTED SOUNDER VID WITH ISOLATOR

Wall Sounder VID - Wall mounted, addressable, loop powered sounder, EN54-3 approved, with visual indicating device (VID), RED lens. With built in isolator.

This product is not approved to EN54-23 (Visual Alarm Device) and must not be used as a visual alarm device to provide a primary warning notification of fire

**TECHNICAL DATA**

<b>DIMENSIONS</b>	Height: 64mm Diameter:121mm
<b>WEIGHT</b>	238g
<b>STANDBY CURRENT</b>	225µA
<b>MAX. CURRENT CONSUMPTION</b>	14.5mA (High Volume Tone 11 @15V)
<b>OPERATING TEMPERATURE</b>	-25°C to +70°C
<b>HUMIDITY</b>	Max. 95% relative humidity (non-condensing)
<b>MAX. SOUND OUTPUT</b>	97 dB(A) ±3dB @1m (High Volume, Tone 8 @24V)

### WSO-PR-N00



**FEATURES**

- 32 built-in tones
- Rotary decade address switches
- Low power requirements
- Optional IP65 rating
- Anti-Tamper feature
- Specification EN54-3
- LPCB approved

### ADDRESSABLE WALL MOUNTED SOUNDER

Wall Sounder - Wall mounted, addressable, loop powered sounder, EN54-3 approved, RED Not isolated

By utilising the latest developments in piezoelectric transducer the sounder is highly efficient. Current consumption is minimised, enabling the maximum number of devices to be installed on a loop, without compromising on sound levels.

**TECHNICAL DATA**

<b>DIMENSIONS</b>	Height: 64mm Diameter:121mm
<b>WEIGHT</b>	238g
<b>STANDBY CURRENT</b>	120µA
<b>MAX. CURRENT CONSUMPTION</b>	11.4mA (High Volume Tone 21 @24V)
<b>OPERATING TEMPERATURE</b>	-25°C to +70°C
<b>HUMIDITY</b>	Max. 95% relative humidity (non-condensing)
<b>MAX. SOUND OUTPUT</b>	97 dB(A) ±3dB @1m (High Volume, Tone 8 @24V)

### WSO-PR-100



**FEATURES**

- 32 built-in tones
- Rotary decade address switches
- Low power requirements
- Optional IP65 rating
- Anti-Tamper feature
- Specification EN54-3
- LPCB approved

### ADDRESSABLE WALL MOUNTED SOUNDER WITH ISOLATOR

Wall Sounder - Wall mounted, addressable, loop powered sounder, EN54-3 approved, RED With built-in isolation.

By utilising the latest developments in piezoelectric transducer the sounder is highly efficient. Current consumption is minimised, enabling the maximum number of devices to be installed on a loop, without compromising on sound levels.

**TECHNICAL DATA**

<b>DIMENSIONS</b>	Height: 64mm Diameter:121mm
<b>WEIGHT</b>	238g
<b>STANDBY CURRENT</b>	225µA
<b>MAX. CURRENT CONSUMPTION</b>	11.4mA (High Volume Tone 21 @24V)
<b>OPERATING TEMPERATURE</b>	-25°C to +70°C
<b>HUMIDITY</b>	Max. 95% relative humidity (non-condensing)
<b>MAX. SOUND OUTPUT</b>	97 dB(A) ±3dB @1m (High Volume, Tone 8 @24V)

### WSO-PP-N00



**FEATURES**

- 32 built-in tones
- Rotary decade address switches
- Low power requirements
- Optional IP65 rating
- Anti-Tamper feature
- Specification EN54-3
- LPCB approved

### ADDRESSABLE WALL MOUNTED SOUNDER - WHITE

Wall Sounder - Wall mounted, addressable, loop powered sounder, EN54-3 approved, WHITE, Not isolated Choice of sound output levels and tones selectable from the device or panel. Requires B501AP base

**TECHNICAL DATA**

<b>DIMENSIONS</b>	Height: 64mm Diameter:121mm
<b>WEIGHT</b>	238g
<b>STANDBY CURRENT</b>	120µA
<b>MAX. CURRENT CONSUMPTION</b>	11.4mA (High Volume Tone 21 @24V)
<b>OPERATING TEMPERATURE</b>	-25°C to +70°C
<b>HUMIDITY</b>	Max. 95% relative humidity (non-condensing)
<b>MAX. SOUND OUTPUT</b>	97dB(A) ±3dB @1m (High Volume, Tone 8 @24V)

### WSO-PP-100



**FEATURES**

- 32 built-in tones
- Rotary decade address switches
- Low power requirements
- Optional IP65 rating
- Anti-Tamper feature
- Specification EN54-3
- LPCB approved

### ADDRESSABLE WALL MOUNTED SOUNDER WITH ISOLATOR - WHITE

Wall Sounder - Wall mounted, addressable, loop powered sounder, EN54-3 approved, WHITE, with built in loop isolation. Choice of sound output levels and tones selectable from the device or panel. Requires B501AP base

**TECHNICAL DATA**

<b>DIMENSIONS</b>	Height: 64mm Diameter:121mm
<b>WEIGHT</b>	238g
<b>STANDBY CURRENT</b>	225µA
<b>MAX. CURRENT CONSUMPTION</b>	11.4mA (High Volume Tone 21 @24V)
<b>OPERATING TEMPERATURE</b>	-25°C to +70°C
<b>HUMIDITY</b>	Max. 95% relative humidity (non-condensing)
<b>MAX. SOUND OUTPUT</b>	97 dB(A) ±3dB @1m (High Volume, Tone 8 @24V)

### DSS-PC-N00



**FEATURES**

- 32 built-in tones
- Rotary decade address switches
- Low power requirements
- Optional IP65 rating
- Anti-Tamper feature
- Specification EN54-3
- LPCB approved

### ADDRESSABLE DETECTOR BASE SOUNDER VAD

Base Sounder VAD - Pure White / Clear Lens / Non-Isolating. Loop-powered EN54-23 Open Category Detector Base Sounder Strobe in pure white clear lens. Non-isolated. Choice of sound output levels and tones selectable from the device or panel. Requires B501AP base

**TECHNICAL DATA**

<b>DIMENSIONS</b>	Height: 55mm Diameter:121mm
<b>WEIGHT</b>	199g
<b>STANDBY CURRENT</b>	450µA
<b>MAX. CURRENT CONSUMPTION</b>	10mA (High Volume Tone 13 @ 24V)
<b>OPERATING TEMPERATURE</b>	-25°C to +70°C
<b>HUMIDITY</b>	Max. 95% relative humidity (non-condensing)
<b>MAX. SOUND OUTPUT</b>	96dB (A) ±3dB @ 1m (High Volume, Tone 13 @ 24V)

### DSS-PC-100



**FEATURES**

- 32 built-in tones
- Rotary decade address switches
- Low power requirements
- Optional IP65 rating
- Anti-Tamper feature
- Specification EN54-3
- LPCB approved

### ADDRESSABLE DETECTOR BASE SOUNDER VAD WITH ISOLATOR

Base Sounder VAD – Pure White / Clear Lens / Isolating. Loop-powered EN54-23 Open Category Detector Base Sounder Strobe in pure white clear lens. Isolated version. Choice of sound output levels and tones selectable from the device or panel. Requires B501AP base

**TECHNICAL DATA**

<b>DIMENSIONS</b>	Height: 55mm Diameter:121mm
<b>WEIGHT</b>	199g
<b>STANDBY CURRENT</b>	450µA
<b>MAX. CURRENT CONSUMPTION</b>	10mA (High Volume Tone 13 @ 24V)
<b>OPERATING TEMPERATURE</b>	-25°C to +70°C
<b>HUMIDITY</b>	Max. 95% relative humidity (non-condensing)
<b>MAX. SOUND OUTPUT</b>	96dB (A) ±3dB @ 1m (High Volume, Tone 13 @ 24V)

### BSO-PP-N00



**FEATURES**

- 32 built-in tones
- Rotary decade address switches
- Low power requirements
- Optional IP65 rating
- Anti-Tamper feature
- Specification EN54-3
- LPCB approved

### ADDRESSABLE DETECTOR BASE SOUNDER

Base Sounder – Addressable loop powered base sounder, EN54-3 approved. WHITE. Not isolated. Choice of sound output levels and tones selectable from the device or panel. Requires B501AP base

**TECHNICAL DATA**

<b>DIMENSIONS</b>	Height: 64mm Diameter:121mm
<b>WEIGHT</b>	202g
<b>STANDBY CURRENT</b>	120µA
<b>MAX. CURRENT CONSUMPTION</b>	< 10.5mA (High Volume Tone 21 @24V)
<b>OPERATING TEMPERATURE</b>	-25°C to +70°C
<b>HUMIDITY</b>	Max. 95% relative humidity (non-condensing)
<b>MAX. SOUND OUTPUT</b>	95dB(A) ±3dB @1m (High Volume, Tone 8 @24V)

### BSO-PP-100



**FEATURES**

- 32 built-in tones
- Rotary decade address switches
- Low power requirements
- Optional IP65 rating
- Anti-Tamper feature
- Specification EN54-3
- LPCB approved

### ADDRESSABLE DETECTOR BASE SOUNDER WITH ISOLATOR

Base Sounder – Addressable loop powered base sounder, EN54-3 approved. WHITE. Not isolated. Choice of sound output levels and tones selectable from the device or panel. Requires B501AP base

**TECHNICAL DATA**

<b>DIMENSIONS</b>	Height: 64mm Diameter:121mm
<b>WEIGHT</b>	202g
<b>STANDBY CURRENT</b>	225µA
<b>MAX. CURRENT CONSUMPTION</b>	< 10.5mA (High Volume Tone 21 @24V)
<b>OPERATING TEMPERATURE</b>	-25°C to +70°C
<b>HUMIDITY</b>	Max. 95% relative humidity (non-condensing)
<b>MAX. SOUND OUTPUT</b>	95dB(A) ±3dB @1m (High Volume, Tone 8 @24V)

**BRR**



**ADDRESSABLE DEEP BASE FOR DETECTOR AND AV, RED**

Supplied with standard B501AP base

**BPW**



**ADDRESSABLE DEEP BASE FOR DETECTOR AND AV, WHITE**

Supplied with standard B501AP base

**WRR**



**ADDRESSABLE SEALED DEEP BASE FOR DETECTOR AND AV, RED**

Supplied with standard B501AP base

**IBS-LIDDW**



**IVORY COVER PLATE FOR BASE SOUNDERS**

Pack of 10

**IBS-LIDPW**



**WHITE COVER PLATE FOR BASE SOUNDERS. PACK OF 10.**

Pack of 10

### 6500-26



**FEATURES**

- 4 fixed sensitivity/threshold adjustment
- 2 automatic variable sensitivity modes
- Operates in the Infra-Red light spectrum
- Numerical indicators to aid beam alignment
- Standby, fault and alarm LED indicators visible from the front and bottom
- ± 10° horizontal & vertical beam alignment
- Approved to EN54-12

### OPTICAL BEAM DETECTOR - LOOP POWERED

Optical beam detector based on reflective technology. Supplied as a combined transmitter/receiver unit with a standard reflector suitable for distances from 10m to 70m. The Infra-Red transmitter generates a beam of light towards a high efficiency reflector. The reflector returns the beam to the receiver where an analysis of the received signal is made. The change in the strength of the received signal is used to determine the alarm condition.

**TECHNICAL DATA**

<b>DIMENSIONS</b>	Detector (WxHxD): 190mm x 254mm x 84mm Reflector (WxH): 200 x 230
<b>WEIGHT</b>	1.7kg
<b>STANDBY CURRENT CONSUMPTION</b>	2mA @ 24 VDC (No communications, LED off)
<b>MAX. CURRENT CONSUMPTION</b>	8.5mA (LED on):
<b>OPERATING VOLTAGE RANGE</b>	15 to 32 VDC (24VDC nominal)
<b>OPERATING TEMPERATURE</b>	-30°C to +55°C
<b>RELATIVE HUMIDITY</b>	0% to 95% (non condensing)
<b>APPROVED TO</b>	EN54-12, EN54-17

### 6500-LRK



### LONG RANGE REFLECTOR KIT FOR 70 TO 100 METRES.

The BEAM-LRK kit contains 3 reflectors (200mm x 230mm).

In combination with the short range reflector supplied with the beam, the 4 reflectors mounted in square form one big reflector surface which extends the beam range over 70m, up to a maximum distance of 100m.

### 6500-MMK



### MULTI MOUNT KIT FOR IR REFLECTIVE BEAM

Used for wall mount and ceiling mount applications.

Must be used together with surface mounting box BEAM-SMK.

### BEAMHK



### HEATER KIT FOR BEAM DETECTOR

Avoid condensation problems in non heated rooms. Requires 24V supply

**TECHNICAL DATA**

<b>VOLTAGE</b>	15 to 32V
<b>CURRENT</b>	92mA max at 32V
<b>POWER CONSUMPTION</b>	Nominal: 1.6W at 24V Maximum: 3W at 32V

### BEAMHKR



#### HEATER KIT FOR BEAM REFLECTOR

Avoid condensation problems in non heated rooms. Requires 24V supply

##### TECHNICAL DATA

<b>VOLTAGE</b>	15 to 32V
<b>CURRENT</b>	450mA max at 32V
<b>POWER CONSUMPTION</b>	Nominal: 7.7W at 24V Maximum: 15W at 32V

### 6500-SMK



#### SURFACE MOUNT KIT FOR IR REFLECTIVE BEAM DETECTOR

Surface Mount Kit for IR reflective beam detector. Allows direct surface cable entry.  
(Required when using the multi-mount kit)

### RTS151KEY



#### REMOTE ANNUNCIATOR AND CONTROL UNIT FOR BEAM DETECTORS

Remote test station for beam and duct sensors.  
Dimensions (W x H x D) 70mm x 117mm x 46 mm

## DNRE



### FEATURES

- Photoelectric, integrated low-flow technology
- Air velocity rating from 1.5m/s to 20.3m/sec
- Versatile mounting options: square or rectangular configuration
- Clear cover for convenient visual inspection

## DUCT DETECTOR HOUSING COMPLETE WITH B501AP BASE

The duct detector samples air passing through a duct and gives dependable performance for shutdown of fans, blowers or airco systems, so preventing the spread of toxic smoke and fire gases through the protected area.

Complete with B501AP base for Addressable 22051E-26 or 22051EI- 26 detectors. (Detector not supplied). Requires DSTXX duct sampling tube (listed below) and 22051E-26 or 22051EI-26 detectors.

### TECHNICAL DATA

<b>DIMENSIONS (RECTANGULAR)</b>	(WxHxD): 370mm x 127mm x 6.4mm
<b>DIMENSIONS (SQUARE)</b>	(WxHxD): 197mm x 229mm x 6.4mm
<b>WEIGHT</b>	0.82kg
<b>OPERATING TEMPERATURE</b>	-20°C to 70°C
<b>RELATIVE HUMIDITY</b>	0% to 95% (non condensing)
<b>AIR DUCT VELOCITY</b>	1.5 to 20.3 m/sec

## DST-1, DST-1.5, DST-3, DST-5, DST-10



## AIR SAMPLING TUBES

Metal sampling tube required for DNRE duct detector.

### TECHNICAL DATA

<b>DIAMETER</b>	18mm
<b>LENGTH</b>	DST-1: 30 cm DST-1.5: 45.7 cm DST-3: 91.6 cm DST-5: 152 cm DST-10: 325.5 cm



### System Sensor Addressable Modules

The System Sensor range of addressable input/output modules are available in single and multi-way models within the same mechanical package, reducing both the cost of installation and the mounting space required.

Their unique mechanical design allows each module to be mounted in either a wall box, on a DIN rail or within any type of enclosure. Irrespective of the mounting method chosen, the address switch is both visible and accessible for selection.

To help engineers in the maintenance and fault-finding process, both the LEDs and the switches can be viewed without having to remove the cover of the surface mounting box. The LEDs, provide diagnostic information regarding the status of each individual input/output.

For ease of installation, testing and maintenance, the field wiring terminals are of plug-in design.

### M210E-CZR



#### FEATURES

- Monitors open circuit and short circuit faults
- Zone powered from comms line or 24V PSU
- Compatible with:
  - IS non-addressable detectors
  - S300/ECO1000 detectors
  - 6500R and 6500RS optical beam detectors

### NON-ADDRESSABLE ZONE MONITOR MODULE

The M210E-CZR non-addressable zone monitor module allows a zone of IS non-addressable detectors to be connected to a System Sensor analogue addressable system.

The non-addressable zone can be powered from the analogue communication line or from an external power supply. Complete with end of line resistors, plug-in screw connections, direct decade address entry

#### TECHNICAL DATA

<b>DIMENSIONS</b>	(WxHxD): 94 mm x 93 mm x 23 mm
<b>WEIGHT</b>	90g
<b>CURRENT CONSUMPTION</b>	310 µA @ 24 VDC (no comm.); 510 µA @ 24 VDC (one comm.every 5 sec. with LED blink enabled).
<b>OPERATING VOLTAGE RANGE</b>	15 to 30 VDC peak
<b>OPERATING TEMPERATURE</b>	-20°C to +60°C
<b>RELATIVE HUMIDITY</b>	0% to 95% (non-condensing)
<b>APPROVED TO</b>	EN54-17 & EN54-18

### M210E



#### FEATURES

- Single input monitor module.

### SINGLE INPUT MONITOR MODULE

Single input monitor module.

The M210E module monitors a single input device circuit of normally open dry contact alarm activation devices. Requires M200E-SMB for surface mounting or M200E-DIN for mounting to DIN rails.

#### TECHNICAL DATA

<b>DIMENSIONS</b>	(WxHxD): 94 mm x 93 mm x 23 mm
<b>WEIGHT</b>	90g
<b>CURRENT CONSUMPTION</b>	310 µA @ 24 VDC (no comm.); 510 µA @ 24 VDC (one comm.every 5 sec. with LED blink enabled).
<b>OPERATING VOLTAGE RANGE</b>	15 to 30 VDC peak
<b>OPERATING TEMPERATURE</b>	-20°C to +60°C
<b>RELATIVE HUMIDITY</b>	0% to 95% (non-condensing)
<b>APPROVED TO</b>	EN54-17 & EN54-18

### M220E



**FEATURES**

- Dual input monitor module

#### DUAL INPUT OR MONITOR MODULE.

The M220E dual monitor module provides two supervised input device circuits of normally open dry contact alarm activation devices.

Requires M200E-SMB for surface mounting or M200E-DIN for mounting to DIN rails.

TECHNICAL DATA	
<b>DIMENSIONS</b>	(WxHxD): 94 mm x 93 mm x 23 mm
<b>WEIGHT</b>	90g
<b>CURRENT CONSUMPTION</b>	340 µA @ 24 VDC (no comm.); 600 µA @ 24 VDC (one comm.every 5 sec. with LED blink enabled).
<b>OPERATING VOLTAGE RANGE</b>	15 to 30 VDC peak
<b>OPERATING TEMPERATURE</b>	-20°C to +60°C
<b>RELATIVE HUMIDITY</b>	0% to 95% (non-condensing)
<b>APPROVED TO</b>	EN54-17 & EN54-18

### M221E



**FEATURES**

- Dual input, single output module

#### DUAL INPUT AND SINGLE CONTROL OUTPUT COMBINATION MODULE

The M221E module monitors two input circuits from external devices; and also provides an unmonitored single pole volt-free changeover contact for external devices.

Requires M200E-SMB for surface mounting or M200E-DIN for mounting to DIN rails.

TECHNICAL DATA	
<b>DIMENSIONS</b>	(WxHxD): 94 mm x 93 mm x 23 mm
<b>WEIGHT</b>	90g
<b>CURRENT CONSUMPTION</b>	340 µA @ 24 VDC (no comm.); 660 µA @ 24 VDC (one comm.every 5 sec. with LED blink enabled).
<b>OPERATING VOLTAGE RANGE</b>	15 to 30 VDC peak
<b>OPERATING TEMPERATURE</b>	-20°C to +60°C
<b>RELATIVE HUMIDITY</b>	0% to 95% (non-condensing)
<b>APPROVED TO</b>	EN54-17 & EN54-18

### IM-10EA



#### TEN INPUT MONITOR MODULE

The IM-10 provides an interface with normally open contact devices. The first address is set from 01 to 90; the other modules are automatically assigned the next nine addresses; up to four unused addresses can be disabled. The supervised state: normal, open circuit fault or short circuit alarm is sent back to the control panel. Requires back box 797-065

TECHNICAL DATA	
<b>DIMENSIONS</b>	H147mm x W185mm x D25mm
<b>VOLTAGE</b>	15 to 32V
<b>CURRENT</b>	92mA max at 32V
<b>CURRENT CONSUMPTION</b>	3.50mA (Blinking LED once every 5 seconds) 60mA at 32V assuming all ten LEDs solid on

**M501MEA**



**ADDRESSABLE "MINI" INPUT MODULE**

Intelligent mini monitor module with 1 monitored input circuit, to supervise alarm initiating devices or technical signals that have voltage free contact. It connects directly to the intelligent communication loop.

**TECHNICAL DATA**

<b>WEIGHT</b>	57g
<b>DIMENSIONS</b>	(W x H x D) 71mm x 33mm x 15mm

**MMX-10ME**



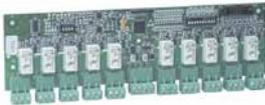
**10 WAY ADDRESSABLE MONITOR (INPUT) CARD**

10 way Addressable monitor (input) card (unboxed) complete with end of line resistors, individual input disable switches, plug in screw connections and on board LED's with the facility for external LED's.

**TECHNICAL DATA**

<b>DIMENSIONS</b>	(W x H x D) 233mm x 70mm x 13mm
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**CMX-10RME**



**10 WAY RELAY CONTROL (OUTPUT) CARD**

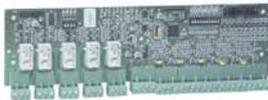
10 way relay control (output) card (unboxed P.C.B.) contact rating 30 Vdc, 1 A.. Complete with individual input disable switches, plug in screw connections and on board LED's with the facility for external LED's. Each output is individually addressed and controlled by the control equipment. This provides a cost effective, compact solution for installations requiring multiple switching and / or monitoring at a single location.

Each module card utilises up to 10 consecutive addresses with the base address being set by DIP switch although any of the 10 addresses may be individually disabled allowing the use of this address by other modules on that loop.

**TECHNICAL DATA**

<b>DIMENSIONS</b>	(W x H x D) 233 mm x 70 mm x 13 mm
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**MCX-55ME**



**5 WAY ADDRESSABLE INPUT & 5 WAY OUTPUT CARD**

Each input and output are individually addressed and controlled by the control equipment and provide a cost effective, compact solution for installations requiring multiple switching and / or monitoring at a single location.

Inputs may be configured to monitor for open circuit, short circuit and active (fire) conditions. Each output consists of a form C (change over) relay contact providing both normally open and normally closed contacts rated 2A at 30Vdc.

**TECHNICAL DATA**

<b>DIMENSIONS</b>	(W x H x D) 233 mm x 70 mm x 13 mm
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### M201E



**FEATURES**

- Single output control module

### OUTPUT CONTROL MODULE

The M201E control module provides a monitored single output circuit for use with polarised loads (sounder circuit) which requires a suitable power source (7VDC - 30VDC) for the connected load. Alternatively the same device may be placed in to an unsupervised mode which can then be used to control any switched load up to 2A @ 30VDC.

Requires M200E-SMB for surface mounting or M200E-DIN for mounting to DIN rails.

**TECHNICAL DATA**

<b>DIMENSIONS</b>	(WxHxD): 94 mm x 93 mm x 23 mm
<b>WEIGHT</b>	102g
<b>CURRENT CONSUMPTION</b>	310 µA @ 24 VDC (no comm.); 510 µA @ 24 VDC (one comm.every 5 sec. with LED blink enabled).
<b>OPERATING VOLTAGE RANGE</b>	15 to 30 VDC peak
<b>OPERATING TEMPERATURE</b>	-20°C to +60°C
<b>RELATIVE HUMIDITY</b>	0% to 95% (non-condensing)

### M201E-240



**FEATURES**

- Mains Switching Output Module
- Tri-colour LEDs
- Built-in short circuit isolators
- Decade address switches
- Approved to CEA GEI 1-082 and CEA GEI 1-084

### OUTPUT CONTROL MODULE. 240 VAC RELAY CONTACT

The M201E-240 is a loop-powered device controlling an unsupervised double pole (one normally open, one normally closed) output suitable for managing 240VAC loads. The output relay is a bistable device, latching in the on or off state on command from the control panel.

The module is supplied in a wall mounting box as standard with a grounding terminal provided.

**TECHNICAL DATA**

<b>DIMENSIONS</b>	(WxHxD): 139 mm x 40 mm x 134 mm
<b>WEIGHT</b>	195g
<b>CURRENT CONSUMPTION</b>	275 µA @ 24 VDC (no comm.); 445 µA @ 24 VDC (one comm.every 5 sec. with LED blink enabled).
<b>OPERATING VOLTAGE RANGE</b>	15 to 30 VDC peak
<b>RELAY SPECIFICATIONS</b>	5A at 30VDC, 5A at 250VAC, resistive load 1 x NO and 1 x NC contacts
<b>OPERATING TEMPERATURE</b>	-20°C to +60°C
<b>RELATIVE HUMIDITY</b>	0% to 95% (non-condensing)

### M201E-240-DIN



**FEATURES**

- DIN rail mount 240V mains Switching Output Module
- Tri-colour LEDs
- Built-in short circuit isolators
- Decade address switches
- Approved to CEA GEI 1-082 and CEA GEI 1-084

### OUTPUT CONTROL MODULE. 240 VAC RELAY CONTACT (DIN ENCLOSURE)

The M201E-240-DIN has the same features and capabilities as the M201E-240 but is designed to mount directly on to a standard 35mm 'Top Hat' DIN rail. The module is supplied unboxed for installation in a suitable enclosure.

**TECHNICAL DATA**

<b>DIMENSIONS</b>	(WxHxD): 48 mm 125 mm x 76 mm
<b>WEIGHT</b>	140g
<b>CURRENT CONSUMPTION</b>	275 µA @ 24 VDC (no comm.); 445 µA @ 24 VDC (one comm.every 5 sec. with LED blink enabled).
<b>OPERATING VOLTAGE RANGE</b>	15 to 30 VDC peak
<b>RELAY SPECIFICATIONS</b>	5A at 30VDC, 5A at 250VAC, resistive load 1 x NO and 1 x NC contacts
<b>OPERATING TEMPERATURE</b>	-20°C to +60°C
<b>RELATIVE HUMIDITY</b>	0% to 95% (non-condensing)

### CR-6EA



**FEATURES**

- Individual LED indicators
- Unused addresses may be disabled
- Rotary address switches
- Removable plug-in terminal blocks

### SIX WAY CHANGEOVER RELAY OUTPUT

Six way changeover relay output with built-in loop isolation. Complete with rotary address switch and plug-in terminal blocks.

The CR-6EA consists of six Form C relays. The first address is set from 01 to 94; the other modules are automatically assigned the next five addresses; up to three unused addresses can be disabled. A single isolated set of dry relay contacts, which can be wired as normally open or normally closed, is provided for each address. The module enables the control panel to switch the contacts on demand. The controlled circuit is not supervised. Requires M200-SMB-MM for mounting.

**TECHNICAL DATA**

<b>DIMENSIONS</b>	(WxHxD): 147 mm x 173 mm x 32 mm
<b>MAXIMUM CURRENT</b>	1.49mA (Blinking LED once every 5 seconds) 36mA at 32V assuming all six relays have switched once and all six LEDs solid on
<b>RELAY CURRENT</b>	30mA/relay pulse 15.6ms duration, pulse under panel control
<b>RELAY CONTACT RATINGS</b>	Relay Contact Ratings 3A at 30VDC Resistive Load
<b>OPERATING TEMPERATURE</b>	-0°C to +50°C
<b>RELATIVE HUMIDITY</b>	0% to 95% (non-condensing)

### SSE-DRS-1



**FEATURES**

- Additional failsafe mechanism to meet the code of practice requirements of BS7273-4 section 5.
- Dual time delay settings in line with BS-7273-4
- Additional volt free relay

### BS7273 DOOR RELEASE SYSTEM

BS7273 Door Release system. Comprising DRM-1 door release module and M201 single output model prewired and mounted in SMB6-V0 surface mount box. Used provide a compliant solution to BS7273-4 Category A requirements. Powered from the 12-24v door magnet supply. System Sensor protocol

**TECHNICAL DATA**

<b>DIMENSIONS</b>	(WxHxD): 170mm x 245mm x 100mm
<b>WEIGHT</b>	700g
<b>OPERATING TEMPERATURE</b>	-5°C to +45°C
<b>RELATIVE HUMIDITY</b>	5% to 95% (non-condensing)

### DRM-1



**FEATURES**

- Additional failsafe mechanism to meet the code of practice requirements of BS7273-4 section 5.
- Dual time delay settings in line with BS-7273-4
- Additional volt free relay
- Din rail mountable
- Compatible with System Sensor module enclosure range

### BS7273 DOOR RELEASE MODULE

Additional failsafe to be used in conjunction with System Sensor output modules to provide a compliant solution to BS7273-4 Category A requirements.

Powered from the 12-24v door magnet supply.

**TECHNICAL DATA**

<b>DIMENSIONS</b>	(WxHxD): 93mm x 94mm x 23mm
<b>WEIGHT</b>	93g
<b>MAX CURRENT DRAW FROM DOOR SUPPLY</b>	35mA @12V (Auxiliary relay enabled) 25mA @12V (Auxiliary relay enabled) 25mA @24V (Auxiliary relay enabled) 20mA @24V (Auxiliary relay enabled)
<b>MAXIMUM DOOR OUTPUT CONTINUOUS CURRENT</b>	Current limited at 1 Amp
<b>AUXILIARY RELAY</b>	Maximum rated continuous current 1 Amp Maximum voltage 30V AC or DC
<b>OPERATING TEMPERATURE</b>	-5°C to +45°C
<b>RELATIVE HUMIDITY</b>	5% to 95% (non-condensing)

### M200E-SMB



#### SURFACE MOUNTING BOX

Surface mounting box for M2xx series modules.

##### TECHNICAL DATA

<b>DIMENSIONS</b>	(WxHxD): 139 mm x 134 mm x 40 mm
<b>IP RATING</b>	IP50

### M200E-DIN



#### DIN RAIL MOUNTING CLIP

DIN rail mounting clip for M2xx series modules.

### 797-065



#### MULTI-MOUNT ENCLOSURE

Multi-Mount Enclosure. Metal, Morley light grey. The enclosure is capable of housing: one MMX-10ME, CMX-10RME or MCX-55 module

### M200XE



#### LOOP ISOLATION MODULE

Loop isolation module. Provides monitoring and isolation of short circuits on the loop. Requires M200E-SMB for surface mounting or M200E-DIN for mounting to DIN rails. Pictured mounted on M200E-DIN (not included)

##### TECHNICAL DATA

<b>DIMENSIONS</b>	(WxHxD): 93mm x 94mm x 23mm
<b>WEIGHT</b>	62g
<b>OPERATING TEMPERATURE</b>	-20°C to 60°C
<b>HUMIDITY</b>	5% to 95% Relative Humidity

## POL200-TS



### FEATURES

- Verification and maintenance
- Colour touch-screen
- User-friendly functionality
- Compatibility with CLIP / OPAL /
- ADVANCED Notifier, Morley-IAS, System Sensor and Honeywell protocols
- Testing of loop faults, short circuits from positive and / or negative to shielding
- Detailed information and device control
- Status log
- Internal memory and
- USB port for PC connection (update or download recordings)
- 12VDC power supply or internal batteries

## LOOP DIAGNOSTIC TOOL

The POL-200-TS loop tester is a versatile measurement and analysis tool that assists technicians with the installation and maintenance of fire re detection systems. The POL-200-TS recognizes all addressable loop elements with the CLIP / OPAL / ADVANCED Notifier, MorleyIAS, System Sensor and Honeywell protocols. In addition, the loop tester is portable and easy to use so you can work loop by loop before the panel is installed from any location on the loop.

### TECHNICAL DATA

<b>DIMENSIONS</b>	97 mm (h) x 177 mm (L) x 44 mm (p) (including protective case)
<b>WEIGHT</b>	550g (including batteries)
<b>BATTERY LIFE</b>	Up to 6 h with battery charged to 100%, depending on the activation of outputs/sirens, LEDs
<b>BATTERY TYPE</b>	6 type AA, Ni-MH 1.2 V (2000 mA) rechargeable Energizer, Duracell or Panasonic batteries
<b>SCREEN</b>	Colour TFT 4.3" (98 x 56 mm) resistive screen 480 x 268 pixels

### 22051E-RF-26



**FEATURES**

- Wireless mesh network bidirectional communication technology
- Two communication paths to each wireless device
- 18RF channels at 868MHz
- Up to 400m free air communication range
- Average 5 year battery service life

### AGILE WIRELESS PHOTO DETECTOR

Agile Photo Detector. Wireless optical smoke detector for the System Sensor Agile wireless system. Powered by 4 x CR123A 3v batteries

**TECHNICAL DATA**

<b>DIMENSIONS</b>	Height(incl.base): 70mm Diameter:102mm
<b>WEIGHT</b>	190g (with batteries)
<b>SUPPLY</b>	4 CR123A 3V Batteries
<b>RADIO FREQUENCY</b>	865-870 MHz
<b>OPERATING TEMPERATURE</b>	-30°C to +60°C
<b>HUMIDITY</b>	10-93% relative humidity (non-condensing)

### 22051TLE-RF-26



**FEATURES**

- Wireless mesh network bidirectional communication technology
- Two communication paths to each wireless device
- 18RF channels at 868MHz
- Up to 400m free air communication range
- Average 5 year battery service life

### AGILE WIRELESS PHOTO -THERMAL-IR DETECTOR

Agile Photo-Thermal-IR Detector. Wireless Optical, Thermal & Infra-Red detector for the System Sensor Agile wireless system. Powered by 4 x CR123A 3v batteries

**TECHNICAL DATA**

<b>DIMENSIONS</b>	Height(incl. base): 70mm Diameter:102mm
<b>WEIGHT</b>	190g (with batteries)
<b>SUPPLY</b>	4 CR123A 3V Batteries
<b>RADIO FREQUENCY</b>	865-870 MHz
<b>OPERATING TEMPERATURE</b>	-30°C to +60°C
<b>HUMIDITY</b>	10-93% relative humidity (non-condensing)

### 52051RE-RF



**FEATURES**

- Wireless mesh network bidirectional communication technology
- Two communication paths to each wireless device
- 18RF channels at 868MHz
- Up to 400m free air communication range
- Average 5 year battery service life

### AGILE WIRELESS RATE OF RISE HEAT DETECTOR

Agile Rate of Rise Heat Detector. Wireless 'Rate of Rise' heat detector for the System Sensor Agile wireless system. Powered by 4 x CR123A 3v batteries

**TECHNICAL DATA**

<b>DIMENSIONS</b>	Height(incl. base): 70mm Diameter:102mm
<b>WEIGHT</b>	190g (with batteries)
<b>SUPPLY</b>	4 CR123A 3V Batteries
<b>RADIO FREQUENCY</b>	865-870 MHz
<b>OPERATING TEMPERATURE</b>	-30°C to +60°C
<b>HUMIDITY</b>	10-93% relative humidity (non-condensing)

### 52051E-RF



**FEATURES**

- Wireless mesh network bidirectional communication technology
- Two communication paths to each wireless device
- 18RF channels at 868MHz
- Up to 400m free air communication range
- Average 5 year battery service life

### AGILE 58°C FIXED TEMPERATURE HEAT DETECTOR

Agile Rate of Rise Heat Detector. Wireless 'Rate of Rise' heat detector for the System Sensor Agile wireless system. Powered by 4 x CR123A 3v batteries

**TECHNICAL DATA**

<b>DIMENSIONS</b>	Height(incl. base): 70mm Diameter:102mm
<b>WEIGHT</b>	190g (with batteries)
<b>SUPPLY</b>	4 CR123A 3V Batteries
<b>RADIO FREQUENCY</b>	865-870 MHz
<b>OPERATING TEMPERATURE</b>	-30°C to +60°C
<b>HUMIDITY</b>	10-93% relative humidity (non-condensing)

### R5A-RF



**FEATURES**

- Wireless mesh network bidirectional communication technology
- Two communication paths to each wireless device
- 18RF channels at 868MHz
- Up to 400m free air communication range
- Average 5 year battery service life

### AGILE MANUAL CALL POINT

Waterproof Manual Call Point for the System Sensor Agile wireless system. With magnetic anti-tamper mechanism and IP67-rating. Powered by 4 x CR123A 3v batteries.

**TECHNICAL DATA**

<b>DIMENSIONS</b>	Height: 94mm Length: 99mm Depth:71mm
<b>WEIGHT</b>	318g (with batteries)
<b>SUPPLY</b>	4 CR123A 3V Batteries
<b>RADIO FREQUENCY</b>	865-870 MHz
<b>OPERATING TEMPERATURE</b>	-30°C to +60°C
<b>HUMIDITY</b>	10-93% relative humidity (non-condensing)

### WSO-XX-RF



**FEATURES**

- Wireless mesh network bidirectional communication technology
- Two communication paths to each wireless device
- 18RF channels at 868MHz
- Up to 400m free air communication range
- Average 5 year battery service life

### AGILE MANUAL CALL POINT

Agile Wireless Wall Mounted Addressable Sounder - for the System Sensor Agile wireless system. Powered by 4 x CR123A 3v batteries\*

WSO-RR-RF: RED Agile Wireless Addressable Sounder

WSO-WW-RF: WHITE Agile Wireless Addressable Sounder

**TECHNICAL DATA**

<b>DIMENSIONS</b>	Height: 75mm Diameter:121mm
<b>WEIGHT</b>	373g (with batteries)
<b>SUPPLY</b>	4 CR123A 3V Batteries
<b>RADIO FREQUENCY</b>	865-870 MHz
<b>OPERATING TEMPERATURE</b>	-30°C to +60°C
<b>HUMIDITY</b>	10-93% relative humidity (non-condensing)

### M200G-RF-26



**FEATURES**

- Wireless mesh network bidirectional communication technology
- Two communication paths to each wireless device
- 18RF channels at 868MHz
- Up to 400m free air communication range
- Average 5 year battery service life

### AGILE GATEWAY

Agile Gateway. Loop-powered Gateway device for System Sensor Agile wireless system. Up to 8 Gateways may be used on the same loop. This requires a B501AP base.

Compatible with DXc panels only.

**TECHNICAL DATA**

<b>DIMENSIONS</b>	Height(incl. base): 42mm Diameter:102mm
<b>WEIGHT</b>	90g
<b>SUPPLY</b>	Communication Line Supply Range: 24V Stand by Current: 230 µA
<b>RADIO FREQUENCY</b>	865-870 MHz
<b>OPERATING TEMPERATURE</b>	-30°C to +60°C
<b>HUMIDITY</b>	10-93% relative humidity (non-condensing)

### M200F-RF



**FEATURES**

- Wireless mesh network bidirectional communication technology
- Two communication paths to each wireless device
- 18RF channels at 868MHz
- Up to 400m free air communication range
- Average 5 year battery service life

### AGILE REPEATER

Agile Repeater. Network Repeater for extending the range of System Sensor Agile wireless networks. Powered by 4 x CR123A 3v batteries.

**TECHNICAL DATA**

<b>DIMENSIONS</b>	Height(incl. base): 52mm Diameter:102mm
<b>WEIGHT</b>	181g (with batteries)
<b>SUPPLY</b>	4 CR123A 3V Batteries
<b>RADIO FREQUENCY</b>	865-870 MHz
<b>OPERATING TEMPERATURE</b>	-30°C to +60°C
<b>HUMIDITY</b>	10-93% relative humidity (non-condensing)

### M200I-RF



**FEATURES**

- Wireless mesh network bidirectional communication technology
- Two communication paths to each wireless device
- 18RF channels at 868MHz
- Up to 400m free air communication range
- Average 5 year battery service life

### AGILE WIRELESS REMOTE INDICATOR

Agile Wireless Remote Indicator for System Sensor Agile wireless systems. Indicates the status of up to four System Sensor Agile wireless detectors via three coloured LEDs.

**TECHNICAL DATA**

<b>DIMENSIONS</b>	Height: 51mm Length: 95mm Depth:37mm
<b>WEIGHT</b>	100g (with batteries)
<b>SUPPLY</b>	2 CR123A 3V Batteries
<b>RADIO FREQUENCY</b>	865-870 MHz
<b>OPERATING TEMPERATURE</b>	-10°C to +60°C
<b>HUMIDITY</b>	10-93% relative humidity (non-condensing)

**B501RF**



**AGILE WIRELESS DETECTOR/REPEATER BASE**

Agile Wireless Detector/Repeater Base. Base for Notifier Agile wireless detectors, repeater and sounder.

**B501RF-RR**



**AGILE WIRELESS DETECTOR/REPEATER BASE**

Agile Wireless Detector/Repeater Base. Base for Notifier Agile wireless sounders red.

**M200WC-RF-PRO**



**AGILE USB DONGLE**

Agile USB Dongle RF 868 MHz System Sensor PRO

**POLE HWKIT**



**TELESCOPIC ACCESS POLE**

POLE. Telescopic access pole for setup and maintenance of Notifier Agile wireless systems. Extends from 1.5 to 5.2m in length.

**CUP HWKIT**



**CUP FOR SETUP AND MAINTENANCE**

CUP. Cup for setup and maintenance of Notifier Agile wireless detectors. For use with telescopic pole (POLE HWKIT)

**SOLOADAPT HKWKIT**



**ADAPTOR FOR NO CLIMB SOLO POLES**

Adapter for No Climb Solo poles - for use with CUP HWKIT

**AMX Alarm Management System**



AMX is a pictorial and textual aid for managing alarm activations in your work place. It can be programmed to suit any applications including: Hospitals, Universities, Prisons, Hotels, Industrial and Commercial buildings.

In an emergency, both information and control are paramount, without knowing what has occurred and where it happens it is difficult to provide an effective resolution of the situation. AMX is designed to present the information in a simple, clear and user friendly way, allowing rapid comprehension of the situation.

In addition to the basic function of displaying alarms at a common location, the system also offers the ability to record and analyse both alarms and non-alarm events. This provides the building’s engineers or management with the tools they need to analyse alarms, faults, review events, assess problems and plan their maintenance and false alarm prevention strategies.

AMX is designed to present information in a simple, clear and user friendly environment. Alarm information can be presented to users as both graphical and text instructions, allowing rapid comprehension of the situation.

Clear, concise information and instructions with optional control functions are available to manage the incident. (Visualise the situation.)

With the latest edition of our remote monitoring units, it is now possible to connect the serial data from the panels via an ethernet connection utilising the local area network or communication via Interweb. This new way of connecting the workstation to the fire system allows users to have real time event information, enabling them to proactively manage their system and receive vital system data no matter where they’re located.

**Incident Management**

Incident management is just one element provided by the system, AMX allows you to document and audit the history of the system using the powerful comprehensive logging facilities. Classify each alarm according to it’s nature – False alarm due to burnt toast, False alarm with good intentions, etc. Utilise the built in classifications or create your own. Highlight areas that generate the highest number of alarms to improve your system’s performance.

**PC Specification (standalone)**

<b>PROCESSOR</b>	Intel Pentium or equivalent 2 GHz or better 64 bit
<b>OPERATING SYSTEM</b>	Windows 8, Windows 10
<b>MEMORY</b>	1 GB min.
<b>DISK SPACE</b>	1 TB minimum
<b>GRAPHICS</b>	1024x768 – 16 million colours
<b>SOUND CARD</b>	Windows Compatible
<b>LOUDSPEAKERS</b>	Any amplifier and speakers
<b>MONITOR</b>	Any
<b>POINTING DEVICE</b>	A mouse is essential
<b>PRINTER</b>	Optional
<b>RS 232 SERIAL PORTS</b>	1-6 (application dependant)
<b>RS 485 SERIAL PORTS</b>	Subject to system configuration
<b>LAN PORT</b>	Optional
<b>USB PORT</b>	One minimum
<b>CD ROM</b>	Yes
<b>BACKUP DEVICE</b>	External disk or USB memory stick (flash drive)
<b>PCI EXPANSION SLOTS</b>	Only for RS484 interfaces

**Software and Dongle Packages**

ZXAMXL1	Morley ZXse AMX Level 1 (1 panel) software and regular licence enables the display of key information from their analogue addressable fire detection and fire alarm system. Can be upgraded with the features below to extend the software capabilities.
ZXAMXL2	Morley ZXse AMX Level 2 (up to 3 panels) software and regular licence enables the display of key information from their analogue addressable fire detection and fire alarm system. Can be upgraded with the features below to extend the software capabilities.
ZXAMXL3	Morley ZXse AMX Level 3 (up to 16 panels) software and regular licence enables the display of key information from their analogue addressable fire detection and fire alarm system. Can be upgraded with the features below to extend the software capabilities.
ZXAMXL4	Morley ZXse AMX Level 4 (up to 99 panels) software and regular licence enables the display of key information from their analogue addressable fire detection and fire alarm system. Can be upgraded with the features below to extend the software capabilities.
DXCAMXL1	Morley DXc AMX Level 1 (1 panel) software and regular licence enables the display of key information from their analogue addressable fire detection and fire alarm system. Can be upgraded with the features below to extend the software capabilities.
DXCAMXL2	Morley DXc AMX Level 2 (up to 3 panels) software and regular licence enables the display of key information from their analogue addressable fire detection and fire alarm system. Can be upgraded with the features below to extend the software capabilities.
DXCAMXL3	Morley DXc AMX Level 3 (up to 15 panels) software and regular licence enables the display of key information from their analogue addressable fire detection and fire alarm system. Can be upgraded with the features below to extend the software capabilities.

**Remote Connection Hardware**

ZXSWMK1	Morley Zxse RMU Module Kit. Provides an IP interface from your panel to your AMX graphics package. Supports a single panel only.
ZXSWMK5	Morley ZXse RMU Module Kit. Provides an IP interface from your panels to your AMX graphics package. Supports a network of two to five panels.
ZXSWMK15	Morley Zxse RMU Module Kit. Provides an IP interface from your panels to your AMX graphics package. Supports a network of six to fifteen panels.
ZXSC99	Morley ZXse Cube. Provides an IP interface from your panels to your AMX graphics package. Supports a network of up to ninety nine panels.
DXCSWMK1	Morley DXc RMU Module Kit. Provides an IP interface from your panel to your AMX graphics package. Supports a single panel only.
DXCSWMK5	Morley DXc RMU Module Kit. Provides an IP interface from your panels to your AMX graphics package. Supports a network of two to five panels.
DXCSWMK15	Morley DXc RMU Module Kit. Provides an IP interface from your panels to your AMX graphics package. Supports a network of six to fifteen panels.
AMXECHO	Morley Echoback device disablement logging activation,
CONSWM4	Convention RMU Module Kit provides an IP interface for up to four volt free inputs to your AMX graphics package.



# **SPECIALIST DETECTION AND ASSOCIATED SYSTEMS**

**FSL Flame Detectors**



**FEATURES**

- UV, UV/IR and IR3 Flame Detectors to cover a wide range of applications
- Robust, simple to install & set-up; Wide angle and fast speed of response
- Automatic test and test lamps for simple check and maintenance.

**FSL100-UV**

**LIGHT INDUSTRIAL/COMMERCIAL FLAME DETECTORS**

Honeywell’s FSL100 range of Light Industrial/Commercial Flame Detectors enables simple coverage of fire hazard areas across many fire hazard applications. Installation, set-up and operation are simple. Wide solid area coverage and fast speed of response optimises safety. With inbuilt automatic test and test lamps available to cover all models, reliability is ensured. Certified to FM 3260 and EN54-10 for flame Detector performance. Hazardous Area ATEX Zone 2/22, FM Class1, 2 & 3 Div2

**TECHNICAL DATA**

<b>RANGE</b>	35 m (IR3), 25 m (UV, UV/IR) alarming within 10 seconds to a 0.1 m <sup>2</sup> n-heptane fire
<b>CONE OF VISION</b>	90° minimum horizontal and vertical
<b>POWER</b>	10-28 VDC (12-24 VDC nominal)
<b>DIMENSIONS</b>	125 x 80 x 57 mm
<b>WEIGHT</b>	465 g
<b>OPERATING TEMPERATURE</b>	-40 °C to +70 °C

**FLAME UV 25M ZONE 2/22 RED**

Effective solution for materials burning with low temperatures, e.g. Sulphur. Alarms to fires from heavy hydrocarbons (wood, paper, petroleum, etc.), light hydrocarbons (methanol, methane, etc.), and hydrogen

Good resistance against the influences of direct and reflected sunlight, artificial light, such as fluorescent tubes and glass covered halogen lamps

**FSL100-UVIR**

**FLAME UV/IR 25M ZONE 2/22 RED**

Analysis of the flame flicker-frequency for improved false alarm rejection. Dual sensing methodology enables a wide range of hydrocarbon and non-hydrocarbon fires to be effectively detected

Good resistance against the influences of direct and reflected sunlight, artificial light, such as fluorescent tubes and glass covered halogen lamps, arcs and electric discharges, radiation from electric welding provided that the electric welding takes place at a distance more than 10 feet from the flame detector.

**FSL100-IR3**

**FLAME IR3 35M ZONE 2/22 RED**

Analysis of the flame flicker frequency for improved false alarm rejection

Particularly suited to liquid hydrocarbon and dirty fires. Affected less by window contamination or smoky fires.

Good resistance against the influences of direct and reflected sunlight, artificial light, such as fluorescent tubes and glass covered halogen lamps, arcs and electric discharges, radiation from electric welding provided that the electric welding takes place at a distance more than 10 feet from the flame detector.

**FS24X Flame Detectors**



**FEATURES**

- Detects hydrocarbon and non-hydrocarbon fuel fires in all environmental conditions
- Wide operating temperature range
- Optimal false alarm rejection
- Minimal maintenance for trouble-free operation
- Suitable for a wide variety of applications

**FS24X-911-23-6**

**FS24X-911-24-6**

**FS20X Flame Detectors**



**FEATURES**

- Detects hydrocarbon and non-hydrocarbon fuel fires in all environmental conditions
- Wide operating temperature range
- Arc welding immunity
- False alarm rejection
- Minimal maintenance for trouble-free operation

**FS24X-911-23-6**

**FS24X-911-24-6**

**TRIPLE IR WIDE BAND SENSING FLAME DETECTOR**

FS24X provides wideband Multi-Spectrum Triple IR (IR/IR/IR/Visible) flame detection. It is part of our FSX family of advanced technology Electro-Optical fire detectors. Using our patented\* WideBand IR™, WideBand 4.3 micron IR™, and Visible detection technology, the FS24X sets the standard for flame detection. Sophisticated software algorithms and dual microprocessors ensure that the FS24X has the highest fire detection performance combined with optimal false alarm rejection.

The WideBand IR™ Infrared technology using high-speed solid-state Quantum sensors allows detection of all types of fires, hydrocarbon and non-hydrocarbon, in all weather conditions.

**TECHNICAL DATA**

<b>SENSITIVITY</b>	Very high (60m), high (45m), medium (30m) and low (15m) - switch selectable
<b>CONE OF VISION</b>	90° cone of vision, ± 45° from on axis
<b>POWER</b>	24 Vdc nominal (18-32 Vdc) - regulated
<b>RESPONSE TIME</b>	3-5 Seconds to 0.1 m <sup>2</sup> n-Heptane fire at 30 m 3-10 Seconds to 0.1 m <sup>2</sup> n-Heptane fire at 60 m
<b>WEIGHT</b>	Aluminum: 1.6 kg ; Stainless Steel: 3.2 kg
<b>OPERATING TEMPERATURE</b>	-60°C to +85°C

**FLAME IR3 60M ZONE 1 RED ALUMINIUM**

FS24X wideband Multi-Spectrum Triple IR (IR/IR/IR/Visible) flame detection - Aluminium

**FLAME IR3 60M ZONE 1 STAINLESS STEEL**

FS24X wideband Multi-Spectrum Triple IR (IR/IR/IR/Visible) flame detection - Stainless steel

**ADVANCED MULTI SPECTRUM (UV/DUAL IR/VIS) FLAME DETECTOR**

The FS20X detector is a Multi-Spectrum and UV/Dual IR/VIS and flame detector with a proven UV solar-blind sensor. FS20X delivers a faster response and fewer false alarms, performs in a wider ambient temperature range, with a much longer detection range compared to conventional UV/IR detectors.

The FS20X detector using advanced algorithms for signal processing and fire and flame analysis to alarm to most fires in all industrial environmental conditions

**TECHNICAL DATA**

<b>SENSITIVITY</b>	Very high (60m), high (45m), medium (30m) and low (15m) - switch selectable
<b>CONE OF VISION</b>	90° cone of vision, ± 45° from on axis
<b>POWER</b>	24 Vdc nominal (18-32 Vdc) - regulated
<b>RESPONSE TIME</b>	3-5 Seconds to 0.1 m <sup>2</sup> n-Heptane fire at 30 m 3-10 Seconds to 0.1 m <sup>2</sup> n-Heptane fire at 60 m
<b>WEIGHT</b>	Aluminum: 1.6 kg ; Stainless Steel: 3.2 kg
<b>OPERATING TEMPERATURE</b>	-40 to +85°C

**FLAME IR3 60M ZONE 1 RED ALUMINIUM**

FS20X Multi-Spectrum and UV/Dual IR/VIS and flame detector with a proven UV solar-blind sensor- Aluminium

**FLAME IR3 60M ZONE 1 STAINLESS STEEL**

FS20X Multi-Spectrum and UV/Dual IR/VIS and flame detector with a proven UV solar-blind sensor- Stainless steel

**FLAME DETECTION ACCESSORIES**

TL-2055	Flame FS20X/24X Test lamp Hazardous Area
TL-1055	Flame FS20X/24X Test lamp Safe Area
SM4	Flame FS20X/24X Swivel Mount SS.
FSX-A001	Flame FSX Diagnostic Kit c/w Interface Module, RS485/USB Cable, PSU, Win PC Software
PSU-12	Flame Charger kit for TL test lamp
FS24X-911-10-6	Flame Electronics Module for FS24X detector
FS20X-211-10-6	Flame Electronics Module for FS20X Detector
DASA6-N	Flame FS20X/24X Dust Airshield with fitting for 6mm hose
SH-001	Flame FS20X/24X Sunshield
FSL100-SM21	Flame FSL100 Swivel Mount
FSL100-TL	Flame FSL100 Test Lamp
FSL100-TLBT	Flame 12V DC Battery for FSL test lamp
FSL100-TLBU	Flame H3 Bulb for FSL test lamp
FSL100-TLCH	Flame Charger kit for FSL test lamp

**OSID**



**FEATURES**

- Maximum detection range of 150 m or the OSI-10
- Dual wavelength LED-based smoke detection
- Optical imaging with CMOS imaging chip
- On-board event log for fault and alarm diagnostics
- High tolerance to false alarm due to building movement
- High tolerance to transient dust, steam and intrusion of solid objects
- Easy alignment with large adjustment and viewing angles
- No need for precise alignment
- Automatic commissioning in under ten minutes

**OPEN AREA SMOKE DETECTION**

Open-area Smoke Imaging Detection (OSID) is an innovative system for reliable, cost-effective smoke detection for large, open spaces requiring standard sensitivity detection.

In its simplest configuration, OSID uses one imager, a camera-like device with a wide field of view, and a wired or battery-powered emitter roughly aligned on the opposite wall within the protected area. The emitter sends both infrared and ultraviolet coded light signals to the imager. If the light reception is altered due to the presence of genuine smoke particles, the imager will go into alarm.

**TECHNICAL DATA**

<b>SUPPLY VOLTAGE</b>	20 to 30 VDC (24 VDC nominal)
<b>IMAGER CURRENT CONSUMPTION</b>	Nominal (at 24 VDC): 8mA (1 Emitter) 10mA (7 Emitters) Peak (at 24 VDC) during training mode: 31mA
<b>EMITTER CURRENT CONSUMPTION</b>	Wired Version (at 24 VDC): 350mA Std Power, 800mA High Power Battery Version (1.9 - 3.2 VDC): OSE-RBA Built-in Battery: -SP Version: 5-year battery life -HP Version: 3-year battery life
<b>DIMENSIONS (WHD)</b>	Emitter / Imager: 208 mm x 136 mm x 96 mm
<b>OPERATING TEMPERATURE</b>	-10 °C to 55 °C
<b>HUMIDITY</b>	10 to 95% RH (non-condensing)

**OSE-SP-01**



**EMITTER - ALKALINE BATTERY**

Alkaline Battery for Standard Power Emitter

**OSE-HP-01**



**EMITTER - HIGH POWER, ALKALINE BATTERY**

Alkaline Battery for High Power Emitter

**OSE-HPW**



**EMITTER - HIGH POWER, WIRED**

24 Vdc Power Supply for High Power Emitter. Enables double the detection ranges on the OSI-90

**OSE-SPW**



**EMITTER - STANDARD POWER, WIRED**

24 Vdc Power Supply for Standard Power Emitter

**OSID-EHE**



**EMITTER ENVIRONMENTAL HOUSING IP66**

IP66-rated Environmental Housing for Emitters. Protects OSID Emitters from dust and water ingress

**OSI-10**



**IMAGER - 7° COVERAGE**

Imager with a 7° field of view providing distances 30m to 150 m. NB: Not suitable for use with High Powered Emitters.

**OSI-90**



**IMAGER - 80° COVERAGE**

Imager with an 80° field of view providing distances 6m to 68m. Distances: 6-34m with OSE-SP-01 / OSE-SPW, 12-68m with OSE-HPW, 12-50m with OSE-HP-01. OSI-90 can operate with up to 7 Emitters.

**OSID-EHI**



**IMAGER ENVIRONMENTAL HOUSING IP66**

IP66-rated Environmental Housing for Emitters. Protects OSID Imagers from dust and water ingress.

**OSID ACCESSORIES**

OSE-ACF	Anti-condensation film for Emitters. An easy applicable film that provides condensation resistance for the lenses of OSID Emitters.
OSEH-ACF	Anti-condensation film for OSID-EHE and OSID-EHI environmental housings. An easy applicable film that provides condensation resistance for the lenses of OSID Environmental Housings
OSP-001	FTDI Cable 1.5m. 1.5m cable for connecting a PC to the Imager for use with OSID Diagnostic software. Cable may be extended by a further 20m when using an active USB amplifier.
OSP-002	Laser Alignment tool. A simple and effective tool for fast alignment of OSID devices. Aligns and locks the eyeball. Also activates Emitters when locked.
OSI-LS	Light shield for Imagers. Shield for use with Imagers where light interference is likely to be an issue.
OSID-INST	OSID Installation Kit. Kit including: Laser Alignment Tool, Test Filter, PC Cable, Cleaning Cloth, Reflectors and Manual.
OSE-RBA	Spare alkaline battery pack for Emitter units. Replacement Alkaline Battery pack for Emitters.

**FAAST LT-200**



**FEATURES**

- High sensitivity LED Detection Chamber specially designed to cover Class C.
- Includes a high power output IR LED and high gain IR receiver amplifier
- Single & Dual channel versions with independent channels including fan, sensor and flow monitoring
- Provides pre-alarm functionality for graduated alarm thresholds
- Ultrasonic airflow sensing with expanded monitoring range

**ASPIRATING SYSTEMS**

The FAAST LT-200 Aspirating Smoke Detector is designed with the installer and end user in mind. It serves the wide variety of Class C applications where maintenance is difficult, where traditional smoke detection methods are inappropriate or prone to fail due to harsh environments or areas where aesthetics matter. It is also suitable for smaller mission critical applications where very early warning – Class A or B detection is required.

**TECHNICAL DATA**

<b>DIMENSIONS</b>	(WxHxD): 356 mm 403 mm x 135 mm
<b>WEIGHT</b>	Approx. 6.5 kg (incl. sensors)
<b>EXTERNAL SUPPLY VOLTAGE</b>	18.5-31.5 V
<b>OPERATING CURRENT</b>	1 Channel - 170mA @ 24 VDC (excluding sounders) 2 Channel - 270mA @ 24 VDC (excluding sounders)
<b>MAX ALARM CURRENT</b>	1 Channel - 360mA @ 24 VDC (excluding sounders) 2 Channel - 570mA @ 24 VDC (excluding sounders)
<b>OPERATING TEMPERATURE</b>	-10°C to +55°C
<b>RELATIVE HUMIDITY</b>	0% to 93% (non-condensing)

**FL0111E-HS-EB**

**FAAST LT-200 - 1 CHANNEL**

FAAST LT-200 - 1 Channel - (160m 18 holes) c/w Earth bar

**FL0112E-HS-EB**

**FAAST LT-200 - 1 CHANNEL - DOUBLE KNOCK**

FAAST LT-200 - 1 Channel - D.Knock - (160m 18 holes) c/w Earth bar

**FL0122E-HS-EB**

**FAAST LT-200 - 2 CHANNEL**

FAAST LT-200 - 2 Channel - (160m 18 holes per channel) c/w Earth bar

**FAAST ACCESSORIES**

F-BO-AFE70-2	FAAST Blowthrough System
F-BO-AFE70-3	FAAST Automatic Purging Unit- Freezer Applications
F-A3384-000	Air Filter for FAAST 7100E, 8100E & 9400X
FL-IF-6	Integral replacement filter for FAAST LT aspiration detectors (1pc)
F-LT-EB	Earth bar for FAAST LT units
F-SEN-SSE	Replacement HSS Sensor for FLOxxxE-HS(-EB)
F-INF-25	External Pipe Filter
F-INF-25-RF	External Filter replacement filter pack (4pcs)
FLT2-AB-SA1	FAAST LT200 Standalone single channel accessories box
FLT2-AB-SA2	FAAST LT200 Standalone dual channel accessories box
G07-0199-000	FAAST LT Replacement Fan Gasket
P87-0511-011	FAAST LT Replacement Fan Assembly

**VEP-A00-1P**



**FEATURES**

- Flair detection technology delivers reliable very early warning in a wide range of environments with minimal nuisance alarms
- Multi stage filtration and optical protection with clean air barriers ensures lifetime detection performance
- Four alarm levels and a wide sensitivity range deliver optimum protection for the widest range of applications
- Intuitive LCD icon display provides instant status information for immediate response

**VESDA-E VEP WITH LEDS, 1 PIPE**

The VESDA-E VEP series of smoke detectors bring the latest and most advanced detection technology to provide very early warning and the best nuisance alarm rejection to a wide range of applications. Built on the Flair detection technology and years of application experience, VEP detectors achieve consistent performance over their lifetime via absolute calibration. In addition, the VEP delivers a range of revolutionary features that provide user value.

**TECHNICAL DATA**

<b>SUPPLY VOLTAGE</b>	18-30 VDC (24 V Nominal)
<b>POWER CONSUMPTION @ 24 VDC</b>	Quiscent 8.8W, Alarm 9.6W
<b>DIMENSIONS (WHD)</b>	350 mm x 225 mm x 135 mm
<b>WEIGHT</b>	4.0 kg
<b>OPERATING CONDITIONS</b>	Ambient: 0°C to 39°C Sampled Air: -20°C to 60°C Tested to: -20°C to 55°C Humidity: 10% to 95% RH, non-condensing
<b>AREA COVERAGE</b>	1,000 m <sup>2</sup>
<b>PIPE LENGTH (LINEAR)</b>	100m
<b>PIPE LENGTH (BRANCHED)</b>	130m
<b>NO. OF HOLES (A/B/C)</b>	30/40/50

**VEP-A00-P**



**FEATURES**

- Flair detection technology delivers reliable very early warning in a wide range of environments with minimal nuisance alarms
- Multi stage filtration and optical protection with clean air barriers ensures lifetime detection performance
- Four alarm levels and a wide sensitivity range deliver optimum protection for the widest range of applications
- Intuitive LCD icon display provides instant status information for immediate response

**VESDA-E VEP WITH LEDS, 4 PIPE**

The VESDA-E VEP series of smoke detectors bring the latest and most advanced detection technology to provide very early warning and the best nuisance alarm rejection to a wide range of applications. Built on the Flair detection technology and years of application experience, VEP detectors achieve consistent performance over their lifetime via absolute calibration. In addition, the VEP delivers a range of revolutionary features that provide user value.

**TECHNICAL DATA**

<b>SUPPLY VOLTAGE</b>	18-30 VDC (24 V Nominal)
<b>POWER CONSUMPTION @ 24 VDC</b>	Setting 1 - Quiscent 7.0W, Alarm 7.8W Setting 5 - Quiscent 8.8W, Alarm 9.6W
<b>DIMENSIONS (WHD)</b>	350 mm x 225 mm x 135 mm
<b>WEIGHT</b>	4.0 kg
<b>OPERATING CONDITIONS</b>	Ambient: 0°C to 39°C Sampled Air: -20°C to 60°C Tested to: -20°C to 55°C Humidity: 10% to 95% RH, non-condensing
<b>AREA COVERAGE</b>	2,000 m <sup>2</sup>
<b>PIPE LENGTH (LINEAR)</b>	280m
<b>PIPE LENGTH (BRANCHED)</b>	560m
<b>NO. OF HOLES (A/B/C)</b>	20/80/100

**VEP-A10-P**



**FEATURES**

- Flair detection technology delivers reliable very early warning in a wide range of environments with minimal nuisance alarms
- Multi stage filtration and optical protection with clean air barriers ensures lifetime detection performance
- Four alarm levels and a wide sensitivity range deliver optimum protection for the widest range of applications
- Intuitive LCD icon display provides instant status information for immediate response

**VESDA-E VEP WITH 3.5" DISPLAY, 4 PIPE**

The VESDA-E VEP series of smoke detectors bring the latest and most advanced detection technology to provide very early warning and the best nuisance alarm rejection to a wide range of applications. Built on the Flair detection technology and years of application experience, VEP detectors achieve consistent performance over their lifetime via absolute calibration. In addition, the VEP delivers a range of revolutionary features that provide user value.

**TECHNICAL DATA**

<b>SUPPLY VOLTAGE</b>	18-30 VDC (24 V Nominal)
<b>POWER CONSUMPTION @ 24 VDC</b>	Setting 1 - quiescent 8.2W, Alarm 10.0W Setting 5 - Quiescent 10.4W, Alarm 11.6W
<b>DIMENSIONS (WHD)</b>	350 mm x 225 mm x 135 mm
<b>WEIGHT</b>	4.1 kg
<b>OPERATING CONDITIONS</b>	Ambient: 0°C to 39°C Sampled Air: -20°C to 60°C Tested to: -20°C to 55°C Humidity: 10% to 95% RH, non-condensing
<b>AREA COVERAGE</b>	2,000 m <sup>2</sup>
<b>PIPE LENGTH (LINEAR)</b>	280m
<b>PIPE LENGTH (BRANCHED)</b>	560m
<b>NO. OF HOLES (A/B/C)</b>	20/80/100

**VEU-A00**



**FEATURES**

- Flair detection technology delivers reliable very early warning in a wide range of environments with minimal nuisance alarms
- Multi stage filtration and optical protection with clean air barriers ensures lifetime detection performance
- Four alarm levels and an ultra wide sensitivity range deliver optimum protection for the widest range of applications
- Intuitive LCD icon display provides instant status information for immediate response on for immediate response

**VESDA-E VEU WITH LED'S**

The VEU series of aspirating smoke detectors are the premium detector of the VESDA-E range. An Ultra-wide sensitivity range; 15 times greater than VESDA VLP, and provision for more sampling holes provide an increased coverage in high airflow applications by at least 40%. Considerably longer linear pipe runs and extended branched pipe network configurations cater perfectly to applications with higher ceilings providing an increased coverage by up to 80% whilst allowing convenient detector mounting for ease of service and maintenance. A range of revolutionary new features provide unsurpassed detection performance, flexibility, field programmability, connectivity and reduced total cost of ownership.

**TECHNICAL DATA**

<b>SUPPLY VOLTAGE</b>	18-30 VDC (24 V Nominal)
<b>POWER CONSUMPTION @ 24 VDC</b>	Setting 1 - Quiscent 7.0W, Alarm 7.8W Setting 5 - Quiscent 8.8W, Alarm 9.6W Setting 10 - Quiscent 14.7W, Alarm 15.5W
<b>DIMENSIONS (WHD)</b>	350 mm x 225 mm x 135 mm
<b>WEIGHT</b>	4.83 kg
<b>OPERATING CONDITIONS</b>	Ambient: 0°C to 39°C Sampled Air: -20°C to 60°C Tested to: -20°C to 55°C Humidity: 10% to 95% RH, non-condensing
<b>AREA COVERAGE</b>	6,500 m <sup>2</sup>
<b>PIPE LENGTH (LINEAR)</b>	1 Pipe 160 m 2 Pipes 150 m 3 Pipes 130 m 4 Pipes 100 m
<b>MAXIMUM PIPE LENGTH</b>	Total Pipe Length (with branches): 800 m
<b>NO. OF HOLES (A/B/C)</b>	80/80/100

**VEU-A10**



**FEATURES**

- Flair detection technology delivers reliable very early warning in a wide range of environments with minimal nuisance alarms
- Multi stage filtration and optical protection with clean air barriers ensures lifetime detection performance
- Four alarm levels and an ultra wide sensitivity range deliver optimum protection for the widest range of applications
- Intuitive LCD icon display provides instant status information for immediate response on for immediate response

**VESDA-E VEU WITH 3.5" DISPLAY**

The VEU series of aspirating smoke detectors are the premium detector of the VESDA-E range. An Ultra-wide sensitivity range; 15 times greater than VESDA VLP, and provision for more sampling holes provide an increased coverage in high airflow applications by at least 40%. Considerably longer linear pipe runs and extended branched pipe network configurations cater perfectly to applications with higher ceilings providing an increased coverage by up to 80% whilst allowing convenient detector mounting for ease of service and maintenance. A range of revolutionary new features provide unsurpassed detection performance, flexibility, field programmability, connectivity and reduced total cost of ownership.

**TECHNICAL DATA**

<b>SUPPLY VOLTAGE</b>	18-30 VDC (24 V Nominal)
<b>POWER CONSUMPTION @ 24 VDC</b>	Setting 1 - Quiscent 8.2W, Alarm 10.4W Setting 5 - Quiscent 10.0W, Alarm 11.6W Setting 10 - Quiscent 15.8W, Alarm 16.6W
<b>DIMENSIONS (WHD)</b>	350 mm x 225 mm x 135 mm
<b>WEIGHT</b>	4.9 kg
<b>OPERATING CONDITIONS</b>	Ambient: 0°C to 39°C Sampled Air: -20°C to 60°C Tested to: -20°C to 55°C Humidity: 10% to 95% RH, non-condensing
<b>AREA COVERAGE</b>	6,500 m <sup>2</sup>
<b>PIPE LENGTH (LINEAR)</b>	1 Pipe 160 m 2 Pipes 150 m 3 Pipes 130 m 4 Pipes 100 m
<b>MAXIMUM PIPE LENGTH</b>	Total Pipe Length (with branches): 800 m
<b>NO. OF HOLES (A/B/C)</b>	80/80/100

**VESDA-E ACCESSORIES**

VSP-961	VESDA-E Exhaust adaptor US
VSP-962	VESDA-E Filter
VSP-962-20	VESDA-E Filter - 20 Pieces
VSP-963	VESDA-E Aspirator
VSP-964	VESDA-E Smoke Detection Chamber
VSP-965	VESDA-E Sampling Module
VSP-960	Mounting Bracket

**VLI-880, VLI885**



**FEATURES**

- Suitable for Class 1 Division 2 applications - Groups A,B,C & D
- Up to 2000 m<sup>2</sup> coverage
- Up to 4 inlet pipes
- Total pipe length up to 360 m
- Five (5) high intensity status LEDs for greater visibility

**VESDA VLI**

The VESDA VLI by Xtralis is an industry first early warning aspirating smoke detection (ASD) system, designed to protect industrial applications and harsh environments of up to 2000 m<sup>2</sup>

The VLI detector combines a fail-safe Intelligent Filter (patent pending) with an advanced clean-air barrier for optics protection allowing the use of absolute detection and a long detection chamber life without the need for re-calibration

**TECHNICAL DATA**

<b>SUPPLY VOLTAGE</b>	18-30 VDC
<b>POWER CONSUMPTION @ 24 VDC</b>	10 W quiescent, 10.5 W with alarm (max)
<b>DIMENSIONS (WHD)</b>	426.5 mm x 316.5 mm x 180 mm
<b>WEIGHT</b>	6.035 kg
<b>OPERATING CONDITIONS</b>	Tested to -10°C to 55°C Recommended Detector Ambient: 0°C to 39°C Sampled Air: -20°C to 60°C Humidity: 10% to 95% RH, non-condensing
<b>AREA COVERAGE</b>	2,000 m <sup>2</sup>
<b>TOTAL PIPE LENGTH</b>	380m
<b>MAX. SINGLE PIPE LENGTH</b>	120m

**VESDA-VLI ACCESSORIES**

VLI-885	VESDA VLI with VESDAnet1
VRT-Q00	VESDA VLI Remote Display 7 Relays
VRT-T00	VESDA VLI Remote Display No Relays
VSP-030	VLI Intelligent Filter
VSP-031	VLI Secondary Foam Filter
VSP-032	VLI Aspirator
VSP-033	VLI Chamber Assembly
VSP-034	VLI VESDAnet Card
VSP-035	VLI Remote Display Module Spare
VSP-036	VLI Ultrasonic Flow Manifold Spare

**ASPIRATING PIPEWORK**

<b>RED90</b>	90 Degree Bend (ea)
<b>RED90ELB</b>	90 Degree Elbow (ea)
<b>RED45</b>	45 Degree Bend (ea)
<b>REDUN</b>	Socket Union (ea)
<b>REDCLIP</b>	Pipe Clip (ea)
<b>REDSOC</b>	Jointing Socket (ea)
<b>REDTP</b>	T Piece (ea)
<b>REDENDC</b>	End Cap (ea)
<b>RED3MP</b>	Pipe 3 Metres (ea)
<b>RED10MMCAP</b>	RED 10MM CAPILLARY PIPE (100 METRE)
<b>REDLDP010N</b>	10mm OD Natural Capillary Pipe (100 Metre) (equivalent to 221-036)
<b>REDASPO25C</b>	Conical Sample Point Head Only (for 10mm OD tube) (equivalent to 144-013)
<b>REDASPO25F</b>	Flush Sample Point Head only (for 10mm OD tube) (equivalent to PIP-015)
<b>REDCTII0250</b>	25mm/10mm Red Capillary Tee (equivalent to PIP-016)
<b>REDAST025I</b>	25mm Red Air Sampling TEST POINT.
<b>REDFSK</b>	Flush Sampling Kit
<b>REDBOIFR0250</b>	RED 25mm Union with Flow Restrictor (equivalent to VSP-870)
<b>REDFR0250</b>	Red Flow Restrictor Disc (pack of 10) (equivalent to VSP-871)
<b>REDCAP010N</b>	Discreet end cap for 10mm OD tube (Clear) (equivalent to 222-059)
<b>REDCSK</b>	Conical Sampling Kit
<b>REDDSK</b>	Capillary Kit with Discrete Sample Point- Red- c/w reducing T piece and 10mm Pipe x 1.5M
<b>REDPIPC</b>	Pipe Cutters
<b>REDEXSOC</b>	25mm Inline Expansion Socket 100mm
<b>REDFCR0320</b>	25mm Intumesent 2hr Fire Collar (equivalent to PIP-020)
<b>REDFLXI25B</b>	25mm Flexible 1m Long Bend (equivalent to PIP-021)
<b>REDALTO250</b>	Airline Adaptor Tee (equivalent to PIP-022)
<b>RED22P025I</b>	25mm 2 Way Ball Valve (equivalent to PIP-023)
<b>REDSGVD025I</b>	25mm x 12" Condensation Valve Trap with Ball Valve (equivalent to PIP-025)*
<b>REDFLEX-30</b>	25mm Flexible Connector 30cm
<b>REDCEM</b>	Cement 250ml
<b>REDCT100</b>	Cable Ties x 100 (equivalent to PIP-013)
<b>REDMAB0250</b>	Plain Red ABS 3/4"x 25mm Adaptor
<b>VSP-860</b>	Refrigerated storage sampling kit

**ASPIRATING PIPEWORK**

<b>WHT3MP</b>	Pipe 3 Metres, WHITE
<b>WHT45</b>	45 Degree Bend, WHITE
<b>WHT90</b>	90 Degree Bend, WHITE
<b>WHT90ELB</b>	90 Degree Elbow, WHITE
<b>WHTAST025I</b>	25mm White Air Sampling Test Point (equivalent to PIP-018-W)
<b>WHTFLXI25B</b>	25mm Flexible 1m Long Bend (equivalent to PIP-021-W)
<b>WHTALT0250</b>	Airline Adaptor Tee (equivalent to PIP-022)
<b>WHTFLEX-30</b>	25mm Flexible Connector 30cm (equivalent to PIP-026-W)
<b>WHTCLIP</b>	Pipe Clip, WHITE
<b>WHTCSK</b>	Conical Sampling Kit, WHITE
<b>WHTENDC</b>	End Cap, WHITE
<b>WHTFSK</b>	Flush Sampling Kit, WHITE
<b>WHTCTII0250</b>	25mm/10mm White Capillary Tee (equivalent to PIP-016-W)
<b>WHTSOC</b>	Jointing Socket, WHITE
<b>WHTTP</b>	T Piece, WHITE
<b>WHTUN</b>	Socket Union, WHITE

**STANDARD AND FREEZER HOLE REDUCING CLIPS**

<b>F-PC-0</b>	Standard-Clip for ASD pipework 0.0mm
<b>F-PC-2.0</b>	Standard-Clip for ASD pipework 2.0mm
<b>F-PC-2.5</b>	Standard-Clip for ASD pipework 2.5mm
<b>F-PC-3.0</b>	Standard-Clip for ASD pipework 3.0mm
<b>F-PC-3.5</b>	Standard-Clip for ASD pipework 3.5mm
<b>F-PC-4.0</b>	Standard-Clip for ASD pipework 4.0mm
<b>F-PC-4.5</b>	Standard-Clip for ASD pipework 4.5mm
<b>F-PC-5.0</b>	Standard-Clip for ASD pipework 5.0mm
<b>F-PC-5.5</b>	Standard-Clip for ASD pipework 5.5mm
<b>F-PC-6.0</b>	Standard-Clip for ASD pipework 6.0mm
<b>F-PC-6.5</b>	Standard-Clip for ASD pipework 6.5mm
<b>F-PC-HE-2.0</b>	Freezer clip for ASD pipework 2.0mm
<b>F-PC-HE-2.5</b>	Freezer clip for ASD pipework 2.5mm
<b>F-PC-HE-3.0</b>	Freezer clip for ASD pipework 3.0mm
<b>F-PC-HE-3.5</b>	Freezer clip for ASD pipework 3.5mm
<b>F-PC-HE-4.0</b>	Freezer clip for ASD pipework 4.0mm
<b>F-PC-HE-4.5</b>	Freezer clip for ASD pipework 4.5mm
<b>F-PC-HE-5.0</b>	Freezer clip for ASD pipework 5.0mm
<b>F-PC-HE-5.5</b>	Freezer clip for ASD pipework 5.5mm
<b>F-PC-HE-6.0</b>	Freezer clip for ASD pipework 6.0mm
<b>F-PC-HE-6.5</b>	Freezer clip for ASD pipework 6.5mm



An extensive range of VESDA and FFAST aspirating spares and accessories are available. Please contact us for full details.

**EVCS-CMPT**



**FEATURES**

- BS5839 part 9 compliant
- Monitored handset
- EN54-4 PSU
- Controls up to 5 outstations
- 5 line keys, 1 fault accept
- 17 status LEDs
- Relay outputs

**EVCS-MSWM**



**FEATURES**

- Multiple handsets with up to 8 distributed throughout the system
- Up to 160 outstations via 20 Network Exchange units with V4.21 software
- Up to 256 outstations via 32 Network Exchange units with V5.0 software
- 4 line x 20 character backlit display

**EVCS-MS**



**FEATURES**

- Complies with regulations & recommendations
- Dual loop pull cord
- High contrast labels
- Blue indication

**COMPACT 5 MASTER HANDSET**

The Compact 5 is ideal for smaller installations which require up to 5 outstations or Emergency Assist Alarms.

Requires 2 x 12v, 15Ah batteries

Accessories

EFVCC5-FC - Compact 5 Stainless Panel Cover

EFVCC5-FB - Compact 5 Semi Flush Bezel

**TECHNICAL DATA**

<b>DIMENSIONS</b>	Height 280mm x Width 397mm x Depth 77mm
<b>INTERNAL POWER SUPPLY</b>	24 V dc
<b>POWER SUPPLY VOLTAGE</b>	230 V ac +/- 10% 50/60 Hz
<b>CHARGE CURRENT</b>	250 mA (max)

**NETWORK 8 MASTER HANDSET (WALL)**

Designed to comply with BS5839 Part 9 2011 the network 8 EVCS System, is designed to assist fire fighters within high rise buildings or large sites where radio communication may not be possible. Where both a fire telephone and disabled refuge system are fitted to a building BS5839 Part 9 specifies these should form a single system.

**TECHNICAL DATA**

<b>DIMENSIONS</b>	Height 300mm x Width 350mm x Depth 90mm
<b>POWER SUPPLY VOLTAGE</b>	11V to 18V DC
<b>POWER SUPPLY CURRENT</b>	88mA @ 12V

**NETWORK 8 MASTER HANDSET (DESK)**

The desk Network 8 Master Handset operates as a system exchange from which calls from individual outstations may be answered or dialled directly using its reference number or selected from a calling directory stored in the unit. Its distributed loop architecture provides a competitive system for systems from 8 to 256 communication points as well as multiple control locations.

**TECHNICAL DATA**

<b>DIMENSIONS</b>	Height 265mm x Width 275mm x Depth 130mm
<b>POWER SUPPLY VOLTAGE</b>	11V to 18V DC
<b>POWER SUPPLY CURRENT</b>	88mA @ 12V

**EVCS-XC**



**FEATURES**

- Modular scalable system architecture for efficient installation
- Loop based network for fault resilience
- Up to 160 outstations via 20 Network Exchange units with V4.21 software
- Up to 256 Outstations via 32 Network Exchange units with V5.0software.

**NETWORK 8 EXCHANGE UNIT**

EVCS Network 8 is a system for larger Disabled Refuge and Emergency telephone installations. Its distributed loop architecture provides a competitive scalable system for up to 256 communication points.

**TECHNICAL DATA**

<b>DIMENSIONS</b>	Height: 296mm Width 210mm Depth 82mm
<b>WEIGHT</b>	1.6 Kg
<b>POWER SUPPLY VOLTAGE</b>	230V AC ± 20%

**EVCS-HSP**



**FEATURES**

- High volume ringer
- Status LED
- Telecoil for hearing impaired users
- Lock door option available

**TYPE A OUTSTATION**

The EVCS Type A Outstation is designed to fully comply with BS5839 Part 9:2011 for use as a Fire Telephone system, Disabled Refuge Call system or as a combined system when both Fire Telephones and Disabled Refuge Points are required.

**TECHNICAL DATA**

<b>DIMENSIONS</b>	Height: 320mm Width:152mm Depth: 85mm
<b>WEIGHT</b>	1.4Kg (no batteries)

**EVCS-HFW**



**FEATURES**

- Telephone type handset
- Handset when 'off hook'
- Fitted with a standard firemans key lock to prevent unauthorised use
- Telecoil for hearing impaired users
- 4-line alphanumeric display (2

**TYPE A OUTSTATION IP65**

The EVCS-HFW is a Type A EVCS outstation compatible with the Compact and Network systems. It is supplied in an IP65 case fitted with a standard firemans key lock to prevent unauthorised use.

**TECHNICAL DATA**

<b>DIMENSIONS</b>	Height: 300mm Width:200mm Depth: 120mm
<b>WEIGHT</b>	2.5 Kg
<b>OUTSTATION CABLES DISTANCE</b>	500 mm

**EVCS-HSB**



**FEATURES**

- Available in Red, Green and Stainless Steel finishes
- Loop output for hearing impaired users
- Tactile braille signage

**EVCS-WJP**



**FEATURES**

- Flexible roaming phone
- Low noise high quality telephone jack
- Telecoil for hearing impaired users
- Stainless steel jack plate
- Surface or flush mounted

**EVCS-TAP**



**FEATURES**

- Complies with regulations & recommendations
- Dual loop pull cord
- High contrast labels
- Blue indication

**TYPE B OUTSTATION**

The EVCS Type B Outstation is designed to fully comply with BS5839 for use as a Fire Telephone system, Disabled Refuge Call system or as a combined system when both Fire Telephones and Disabled Refuge Points are required.

**TECHNICAL DATA**

<b>DIMENSIONS</b>	Height 135mm x Width 135mm x Depth 45mm
<b>WEIGHT</b>	1105g

**ROAMING HANDSET & JACK PLATE**

Honeywell EVCS systems cover a wide range of building types and sizes providing Emergency voice communication between personnel and the Fire and Rescue Services. For larger systems the Network 8 is ideally suited and the Roaming Handset and Jack Plate are an efficient way to provide a network Fire telephone system communication points

**TECHNICAL DATA**

<b>DIMENSIONS JACK PLATE</b>	Height: 86mm Width:86mm Depth: 25mm
<b>WEIGHT</b>	140g
<b>DIMENSIONS ROAMING HEADSET</b>	Height: 210mm Width:66mm Depth: 45mm
<b>WEIGHT</b>	700g

**EMERGENCY ASSIST ALARM**

The Emergency Assist Alarm Stand Alone Kit provides the perfect solution for conformity with the Building Regulations Document M and Equality Act 2010. This is a simple 2 wire system that has been specifically designed to meet the needs of disabled service users and conforms to all the relevant requirements; Disability Rights Commission code of practice, English Tourism Council Recommendations and RNIB signage guidelines.

**EVCS-MPX-16**



**FEATURES**

- Up to 16 digital outstations per panel
- 4 core loop configuration
- Soft addressing of outstations
- SD card integration

**NETWORK 16 MASTER PANEL**

The Network 16 system is a Digital Loop based system comprising of master panel (EVCS-MPX-16), Network Exchange Units (EVCS-NSX-16) and Digital Type A (EVCS-HSA-RS-D and Type B (EVCS-CSB-GS-D, EVCS-CSB-GF-D).

Network 16 is designed to ensure simplicity of future expansion, a maximum of 16 outstations of various types can be controlled from one master panel.

Loop wiring ensures the system is fault tolerant through the use of short circuit isolators, and continuous fault monitoring ensures high availability. The system uses digital audio transmission to maintain audio quality and intelligibility when it matters most.

Also Available:  
 MX16-BEZ: Semi-flush bezel  
 MX16-SSC: Stainless Steel Flush Cover

**TECHNICAL DATA**

<b>DIMENSIONS</b>	Height: 487mm Width:355mm Depth: 158mm
<b>WEIGHT WITH BATTERY</b>	6.7 Kg
<b>POWER SUPPLY</b>	2.7 W
<b>OPERATING TEMPERATURE</b>	-5° C to +40° C

**EVCS-HSA-RS-D**



**FEATURES**

- Use as a fire telephone or disabled refuge call point.
- Easy identification of outstation in use.
- Up to 16 digital outstations per panel

**DIGITAL TYPE A OUTSTATION**

The EVCS Type A Digital Outstation is designed to fully comply with BS5839 Part 9:2011 for use as a Fire Telephone system, Disabled Refuge Call system or as a combined system when both Fire Telephones and Disabled Refuge Points are required.

Also available:  
 EVCS-HSA-SS-D: Digital Type A Outstation-Stainless Steel Surface Mount  
 TA16-BEZ: Flush Surround - Red  
 TA16-SS-BEZ: Flush Surround - Stainless Steel

**TECHNICAL DATA**

<b>FINISH &amp; MOUNTING</b>	Red Surface Mount
<b>CABLING</b>	Enhanced FP200 2X2 / 4X1 Core; 1.5 sq mm
<b>CONFIGURATION &amp; DISTANCE</b>	Loop configuration; Maximum distance between two units - 200 metre
<b>DIMENSION</b>	H 320 X W 152 X D 114 mm (2.2 Kg)
<b>KNOCKOUTS</b>	4 x 20 mm dia

**EVCS-CSB**



**FEATURES**

- Full duplex operation for 2-way voice communication.
- Large tactile braille signage.
- Status LED

**DIGITAL TYPE B OUTSTATION**

The EVCS Type B Digital Outstation is designed to fully comply with BS5839 for use as a Fire Telephone system, Disabled Refuge Call system or as a combined system when both Fire Telephones and Disabled Refuge Points are required.

EVCS-CSB-GS-D: Digital Type B Outstation-Green Surface Mount  
 EVCS-CSB-GF-D: Digital Type B Outstation-Green Flush Mount  
 EVCS-CSB-RS-D: Digital Type B Outstation-Red Surface Mount  
 EVCS-CSB-RF-D: Digital Type B Outstation-Red Flush Mount

**TECHNICAL DATA**

<b>FINISH AND MOUNTING</b>	Red, Green, Surface, Flush
<b>CABLING</b>	Enhanced FP200 2X2 / 4X1 Core; 1.5 sq mm
<b>CONFIGURATION &amp; DISTANCE</b>	Loop configuration; Maximum distance between two units - 200 metre
<b>DIMENSIONS</b>	H 136 X W 136 X D 56 mm (0.6 Kg)
<b>KNOCKOUTS</b>	5 x 20 mm dia; 1 x 25 mm dia, 6 x 20mm dia

**HLS-RES-PL**



**FEATURES**

- Paging System consists of a wall-mount enclosure , power supply and transmitter
- Status indicator LED for Power and Transmission
- 230V AC mains power supply with fused spur option
- An optional antenna (dipole) installed external to equipment enclosure
- Alphanumeric Pagers (supplied separately)

**HLS-RES-LI**



**FEATURES**

- Paging System consists of a wall-mount enclosure , power supply and transmitter
- Status indicator LED for Power and Transmission
- 230V AC mains power supply with fused spur option
- An optional antenna (dipole) installed external to equipment enclosure
- RS232 data port input and programming\*

**HLS-RES-AI**



**FEATURES**

- Adheres to BS 5839 and meets Equality Act 2010 recommendations
- RS232 data port input and programming
- Four contact closure alarms
- Compliance with the requirements of BS 5839 part 1 low battery audible alarm in the event of mains failure

**RESPONSE PLUS PAGING SYSTEM**

The Response Plus can be used to support four dry volt free contacts and serial data input. The contacts can be set to normally open (N/O) or normally closed (N/C) as required. When activated these will send pre-programmed messages to a particular pager address (this could be to an individual pager or group of pagers at the same time).

- HLS-RES-PL: Response Plus Unit 4W 4 Contacts (only)
- HLS-RES-PL-MORD-A: Response Plus Unit RS232 / 4 Contacts ZX1/2/5 SE & DXc (all events)
- HLS-RES-PL-MORB-A: Response Plus Unit RS232 / 4 Contacts ZX1/2/5 SE & DXc (fire only)

TECHNICAL DATA	
<b>DIMENSIONS</b>	Height: 262mm Width:155mm Depth: 50mm
<b>POWER SUPPLY</b>	240VAC
<b>POWER OUTPUT</b>	500mW to 4W ±1dB 50 Ω
<b>TEMPERATURE RANGE</b>	-10°C to +60°C

**RESPONSE LINK PAGING SYSTEM**

The Response Link is an entry level paging system that supports four dry volt free contacts only, which can be set to normally open (N/O) or normally closed (N/C) as required.

TECHNICAL DATA	
<b>DIMENSIONS</b>	Height: 262mm Width:155mm Depth: 50mm
<b>POWER SUPPLY</b>	240VAC
<b>POWER OUTPUT</b>	500mW
<b>TEMPERATURE RANGE</b>	-10°C to +60°C

**RESPONSE AID PAGING SYSTEM**

The Response Aid Paging System provides an easy-to-use, cost effective solution to support deaf and hard of hearing people in case of a fire emergency. The unit has the capability of 3 dry contacts.

- HLS-RES-PL: Response Aid Unit Hearing impaired - Contact only
- HLS-RES-AID-MORD-A: Response Aid Unit RS232 / 3 Contacts ZX1/2/5 SE & DXc (all events)
- HLS-RES-AID-MORB-A: Response Aid Unit RS232 / 3 Contacts ZX1/2/5 SE & DXc (fire only)

TECHNICAL DATA	
<b>DIMENSIONS</b>	Height: 333mm Width:265mm Depth: 78mm
<b>POWER SUPPLY</b>	100 - 240VAC
<b>POWER OUTPUT</b>	500mW to 4W ±1dB 50 Ω
<b>TEMPERATURE RANGE</b>	-10°C TO +60°C

### HLS-RES-PAGRD



**FEATURES**

- 4-line alphanumeric display (20 characters per line / 15 characters bold)
- Up to 50 memory storage (upto 64 characters per message dependent on Protocol and Pager type)
- Time and date display and stamping
- Unread message reminder alert / automatic message detection

### PAGER RED (FOR RESPONSE PLUS & LINK ONLY)

The Response pagers are simple, compact and discreet personal devices for short messages. They're lightweight, comfortable to wear and come with a robust belt/pocket clip.

**TECHNICAL DATA**

<b>DIMENSIONS</b>	Height: 75mm Width:50mm Depth: 15mm
<b>WEIGHT WITH BATTERY</b>	112 grams
<b>FREQUENCY</b>	433Mhz - 470Mhz
<b>BATTERY TYPE</b>	1 x AA
<b>OPERATING TEMPERATURE</b>	-20°C to +50°C

### HLS-RES-PAGBL



**FEATURES**

- 4-line alphanumeric display (20 characters per line / 15 characters bold)
- Up to 50 memory storage (upto 64 characters per message dependent on Protocol and Pager type)
- Time and date display and stamping
- Unread message reminder alert / automatic message detection

### PAGER BLACK (FOR RESPONSE AID ONLY)

The Response pagers are simple, compact and discreet personal devices for short messages. They're lightweight, comfortable to wear and come with a robust belt/pocket clip.

**TECHNICAL DATA**

<b>DIMENSIONS</b>	Height: 75mm Width:50mm Depth: 15mm
<b>WEIGHT WITH BATTERY</b>	112 grams
<b>FREQUENCY</b>	433Mhz - 470Mhz
<b>BATTERY TYPE</b>	1 x AA
<b>OPERATING TEMPERATURE</b>	-20°C to +50°C

### HLS-RES-PAG-XXX



**FEATURES**

- Up to 2-mile range with unique ID to prevent signal interference
- Built with high quality materials for maximum durability and industry leading
- Replace your own batteries to reduce downtime and cost
- Out-of-range and search ensures guest contact and minimises pager loss.

### RECHARGEABLE TFT DISPLAY PAGER

Designed for busy staff who rely on instant communication, the rechargeable TFT pager is the most robust pager for your paging system.

HLS-RES-PAG-FIRE: Rechargeable TFT Display Pager - Fire Marshall use (black)  
 HLS-RES-PAG-ECA: Rechargeable TFT Display Pager - Equalities Compliance Act use (black)

**TECHNICAL DATA**

<b>DIMENSIONS</b>	Height: 95mm Width 44mm Depth 8.3mm
<b>WEIGHT</b>	0.11 Kg

**HLS-RES-CHAR15**



**FEATURES**

- Backlit for enhanced visibility
- Durable for high volume use
- Space saving tower rack

**15 WAY CHARGING RACK (TFT PAGER)**

Charging rack for TFT Pagers that comes with 15 slots and charges pagers in 2 hours.

**TECHNICAL DATA**

<b>DIMENSIONS</b>	Height: 295mm Width:101.6mm Depth: 152mm
<b>WEIGHT</b>	1.25 Kg

**HLS-RES-SK**



**FEATURES**

- Quick set up (no PC required on site)
- 4w transmitter as standard
- Flexibility to decrease to 500mW using the provided software (used for Response Link site surveys)

**SITE SURVEY KIT**

The Response Paging Site Survey Kit is a simple and convenient solution for those conducting regular paging site surveys.

**TECHNICAL DATA**

<b>DIMENSIONS</b>	289mm (L) x 361mm (W) x 165mm (D)
<b>POWER SUPPLY</b>	240VAC or 12v battery (min 3.2 amps)
<b>POWER OUTPUT</b>	500mW to 4W ±1dB 50
<b>FREQUENCY RANGE</b>	UHF: 427.5 – 475MHz, synthesized

**HLS-RES-REPEAT**



**DUPLEX REPEATER**

The Duplex Repeater is a purpose designed repeater for the Honeywell Response Paging System. It's used to extend radio coverage with the Response Paging family on fire event messages

**TECHNICAL DATA**

<b>DIMENSIONS</b>	272mm x 258mm x 78mm
<b>POWER SUPPLY</b>	AC power supply 100 – 240V AC 50/60Hz 0.7A
<b>FREQUENCY RANGE</b>	450 - 470 MHz
<b>TEMPERATURE LIMITS</b>	-10°C to +50°C

**HLS-RES-REC**



**FEATURES**

- Control equipment by turning the on-board relay on or off upon receipt of a control
- Send the Commands to a PC via the serial output of the paging receiver for remote serial control applications

**OUTPUT CONTROL PAGING RECEIVER C/W PSU**

The Output Paging Receiver is a high sensitivity, ultra low current paging receiver.

The Output Control Paging Receiver is a cost effective remote switching solution which is simple to install and can be configured using any serial terminal program.

**TECHNICAL DATA**

<b>DIMENSIONS</b>	Height: 66mm Width:50mm Depth: 26mm
<b>SUPPLY VOLTAGE</b>	10v to 17v, Nominal 12V. If relay operation is not required 4-17V can be used
<b>FREQUENCY BANDS</b>	VHF: 136 - 174MHZ UHF: 440 - 470MHz
<b>OUTPUTS</b>	3. One relay and two open collector
<b>TEMPERATURE LIMITS</b>	-10°C to +50°C

## VARIODYN D1



### FEATURES

- Control and Indicating Equipment Certified to EN54 Part 16
- Flexible systems that supports both simple and the most complex communication needs
- High quality digital audio
- Touchscreen Graphical User Interface that manages the entire system
- Dedicated Honeywell design and project support

## SCALABLE PUBLIC ADDRESS / VOICE ALARM SYSTEM

Selecting, designing and commissioning a VA/PA system can be complicated. At Honeywell we have a team of experts that will help you build the most suitable system for your building.

The first step is to decide exactly what type of VA/PA system you'll need. This will largely depend on the size and complexity of your building.

The following three types of systems are available that start from small 'Stand Alone' packages suitable for single storey buildings such as shops and offices and move up to custom made 'Networked Systems' that will consist of a number of systems linked together for large structures such as exhibition halls and airports.

Voice Alarm is increasingly important in the safe management of buildings.

A voice message informs occupants exactly what to do in an emergency and it is a long established fact that people respond more quickly and are more likely to take the correct action during an evacuation if voice messages are used instead of tone sounders.

A comprehensive range of loudspeakers, amplifiers, control devices and call stations is available. Please contact us for full details.



**EN54 CERTIFIED LOUDSPEAKER RANGE**

LSC-506	5" Ceiling Speaker 6W complete with Fire Dome (EN54 - 24)
582470	6W Cabinet Speaker
582473	10W Uni Directional Speaker
582474	20W Uni Directional Speaker
582475	20W Bi Di Speaker
582476	20W Column Speaker
582477	40W Column Speaker
582423	Wall mounting 10W round loudspeaker (EN54 -24)
582425	6 W 6.5" flush-mounted wall loudspeaker (EN 54-24)
582408.SAFE	6 W 6.5" shallow ceiling loudspeaker EN 54
582408.FD	Steel fire dome for 582408.SAFE
582432	30W Horn loudspeaker IP66 (EN54-24)
582480	24w Coaxial x" Ceiling Loudspeaker
582479	15w Horn loudspeaker
LSC-606	6.5" Ceiling loudspeaker 6W with Fire Dome (EN54 - 24)
LSC-606/DC	6.5" Ceiling Speaker 6W with Fire Dome (EN54 - 24) With Capacitor for DC Surveillance



# ANCILLARIES

## ANCILLARIES

### POWER SUPPLIES AND BATTERIES

<b>HLSPS25</b>	2.5 Amp EN54-4 Power supply unit. Two 1.1 Amp or one 2.2 Amp outputs (selectable). Fault relay output and charger inhibit input to allow 300mA extra output current. (space for up to 17Ah batteries)
<b>HLSPS50</b>	5 Amp EN54-4 Power supply unit. Two 2.2 Amp or one 4.4 Amp outputs (selectable). Fault relay output and charger inhibit input to allow 600mA extra output current (space for up to 17Ah batteries)
<b>RB12</b>	1.2Ah 12V Sealed Lead Acid battery. Prices are subject to monthly review.
<b>RB28</b>	2.8Ah 12V Sealed Lead Acid battery. Prices are subject to monthly review.
<b>RB70</b>	7Ah 12V Sealed Lead Acid battery. Prices are subject to monthly review.
<b>RB120</b>	12Ah 12V Sealed Lead Acid battery. Prices are subject to monthly review.
<b>RB170</b>	17Ah 12V Sealed Lead Acid battery. Prices are subject to monthly review.
<b>RB240</b>	24Ah 12V Sealed Lead Acid battery. Prices are subject to monthly review.
<b>RB380</b>	38Ah 12V Sealed Lead Acid battery. Prices are subject to monthly review.

### DOOR RETENTION

<b>04390-55</b>	Door retention unit, 240Vac, white.
<b>04390-31</b>	Door retention unit, 24Vdc, white.
<b>04390-92</b>	Floor mounting bracket for door retainers DR/W.
<b>04390-41</b>	Door holder 24VDC Floor mounted
<b>04390-99</b>	Door holder PLT assembly

### TRANSFORMER RECTIFIERS

<b>HLS-PSU-TR20</b>	24V 2Amp Transformer-Rectifier
<b>HLS-PSU-TR40</b>	24V 4Amp Transformer-Rectifier

### MISCELLANEOUS

<b>REL/T/245</b>	24Vdc relay with 5 amp rated V/F changeover contacts (240Vac 3A), in enclosure (polarised suppressed).
<b>RI/W/3V</b>	Remote LED (flush mounting). Requires a single gang backbox for mounting.
<b>HLS-DOCBOX</b>	Document box - Grey

**For more information**

[www.morley-ias.co.uk](http://www.morley-ias.co.uk)

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