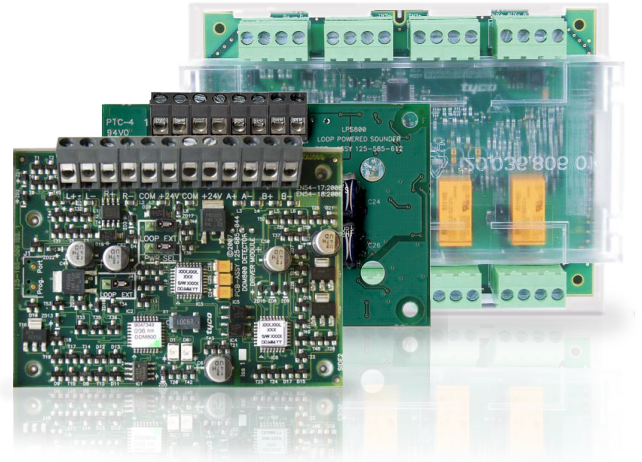


850 Series

Generation 6 *MX*
Ancillaries Range



Features

- // Compatible with *MX* Addressable Loop on SIMPLEX 4100ESi, VIGILANT *MX1* and VIGILANT *MX4428* panels¹
- // Comprehensive range
- // Common footprints
- // Range of mounting options
- // Up to 250 modules per *MX* loop³

The *MX* series of addressable ancillary modules provide an interface between compatible *MX* Fire Control and Indicating Equipment (CIE) and a wide range of field devices.

Each module has been specifically designed to provide a high degree of system flexibility, suitable for many applications.

Use of the *MX* ancillary modules enables the addressable loop from the CIE to both receive inputs and control outputs from the system.

The broad range of available modules allows the scope of the fire detection system to be significantly expanded beyond a simple fire detector alarm system.

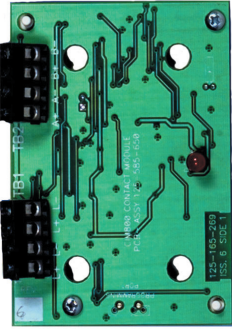
The modules can be programmed and tested using the 801AP *MX* Service Tool or 850EMT Engineering Management Tool.

MX Gen6 Module Functions

- Compatible with *MX* Addressable Fire Alarm Panels¹
- Communication and control/monitoring interface
- Supervision of control wiring
- Control of externally-powered sounders
- Control of loop-powered sounders
- Interface conventional detector circuits
- Monitor external equipment (smoke dampers, etc.)
- Removes the need for separate control circuits

1. Refer to Table 1 for specific compatibility

CIM800 Contact Input Module



The CIM800 Addressable Contact Input Module supervises 2 circuits of voltage-free contacts. The CIM800 can be configured to monitor:

- 2 circuits of multiple N/O contacts, with S/C alarm
- 2 circuits of multiple N/C contacts; O/C alarm
- 2 circuits with a single N/O contact; closing for alarm with S/C fault. (Requires a resistor in series with the alarm contact and special CIE programming).

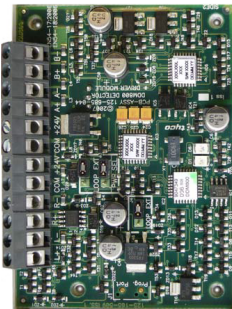
The CIM800 is fully loop powered, and the two inputs can be mapped to different zones on the CIE.

Technical Specification

| | |
|---------------------|------------------------|
| Quiescent Current | 275µA (max.) |
| Alarm Current | 2.8mA (max, LED on) |
| Circuit Resistance | 10 Ohm (max.) |
| ELD Resistor | 200 Ohm (supplied) |
| Alarm Resistor | 100 Ohm (s/c fault) |
| Ambient Temperature | -25°C to +70°C |
| Relative Humidity | 10% to 95% (non cond.) |
| Dimensions (HWD) | 61 x 84 x 25 mm |
| ActivFire Listed | afp-1446 |
| FPANZ Listed | VF/640 |

Part Number CIM800

DDM800 Universal Fire & Gas Detector Module



The DDM800 Universal Fire & Gas Detector Module is designed to monitor and signal two conventional 2-wire 20V fire detector circuits (or two 4-20mA current loop sensors on MX4428).

It can be loop powered for certain applications - especially the low-voltage (LV) mode using the Tyco 614 smoke and heat detectors, or powered from an external 24V supply to provide a wide range of detector compatibility including intrinsically safe (IS) detectors and reduced *MX* loop loading.

It includes a short circuit loop isolator such that if either side of the *MX* loop is shorted the DDM800 keeps working and protects the other side of the loop. A yellow indicator lights if the isolator is operated.

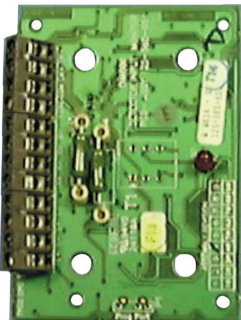
Technical Specification

| | |
|------------------------|------------------------|
| Quiescent Current | 1.2mA (Ext. powered) |
| Loop Alarm Current | 4.2mA (Ext. powered) |
| Detector Load | 2.5mA (std) |
| | 1.5mA (LV) |
| | 1.0mA (IS) |
| Detector ELD | 4k7 Ohm (5k6 IS) |
| External Supply | 21.9 - 29V |
| External PSU Current | 10mA + Detector Load |
| External Alarm Current | 52mA |
| Dimensions (HWD) | 61 x 84 x 25 mm |
| Wire Size (maximum) | 2.5sq. mm |
| Ambient Temperature | -25°C to +70°C |
| Relative Humidity | 10% to 95% (non cond.) |
| ActivFire Listed | afp-1446 |
| FPANZ Listed | VF/666 |

Part Numbers

| | |
|-------------|---------------------------------------|
| 577.800.006 | DDM800 Module |
| FP1063 | 4x DDM800 pre-wired on FP1062 Bracket |

DIM800 Detector Input Module



The DIM800 Detector Input Module interfaces two conventional detector circuits onto the *MX* addressable loop. Each circuit can support 3mA of detector quiescent current and requires a 4k7 Ohm End Of Line resistor. Unused circuits must be terminated with an ELD resistor. The DIM800 requires a suitably rated and separately protected external 24V supply to power the detector circuits.

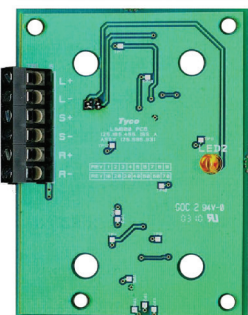
The two circuits are available as separate subpoints and can be mapped to different zones on the CIE.

Technical Specification

| | |
|---------------------------------|------------------------|
| Quiescent Current | 280µA (max.) |
| Loop Alarm Current | 280µA (max.) |
| Detector Load | 3mA (max per input) |
| Detector ELD | 4k7 Ohm |
| External Supply ¹ | 20 to 28.7Vdc |
| Ext. Current/Circuit | 7.5mA (normal) |
| Ext. Alarm Current ² | 30 to 50mA |
| Dimensions (HWD) | 61 x 84 x 25 mm |
| Ambient Temperature | -25°C to +70°C |
| Relative Humidity | 10% to 95% (non cond.) |
| ActivFire Listed | afp-1446 |
| FPANZ Listed | VF/643 |

Part Number DIM800

LIM800 Loop Isolator Module



The LIM800 Loop Isolator Module can be used to provide short circuit isolation between zones or portions of an *MX* addressable loop. LIM800s are installed at appropriate positions around the *MX* loop to monitor the loop voltage either side of the device. If a short circuit is detected, the two LIM800s either side of the short isolate the shorted section allowing the rest of the loop to be driven by the CIE.

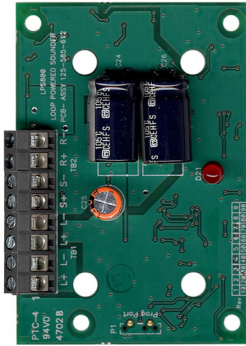
A yellow LED indicates when one of the outputs is shorted. The LIM800 includes an additional spur output that can be wired to additional *MX* devices (all in one zone). The LIM800 supports up to 100 IB units of *MX* load on each connection, so additional LIM800s can be installed on long sections of cable to isolate each block of devices.

Technical Specification

| | |
|------------------------|------------------------|
| Quiescent Current | |
| Normal | 80µA |
| Tripped (max) | 10mA |
| Series Resistance | 0.25 Ohm (max) |
| Equivalent Capacitance | 0.5nF |
| IB Units btwn Isolator | 100 (max.) |
| Dimensions (HWD) | 61 x 84 x 14 mm |
| Wire Size (maximum) | 2.5sq. mm |
| Ambient Temperature | -25°C to +70°C |
| Relative Humidity | 10% to 95% (non cond.) |
| ActivFire Listed | afp-1446 |
| FPANZ Listed | VF/657 |

Part Number 545.800.004

LPS800 Loop Powered Sounder Module



The LPS800 Loop Powered Sounder Driver Module provides a loop-powered controllable output that can supply up to 75mA to 24V rated load devices, such as sounders, relays, etc. It also provides supervision of the wiring to the loads. Therefore each load device must have an integral series diode, or one must be fitted externally to allow the reverse voltage supervision to work. A 22k Ohm End of Line Device (ELD) resistor is required.

The wiring to the load devices can be arranged as a spur (Class B), or as a loop (Class A) so that an open circuit does not stop operation of the devices.

Technical Specification

| | |
|-------------------------|---------------------------|
| Quiescent Current | 450µA |
| Op. Current (<8mA load) | 12mA |
| Op. Current (>8mA load) | Load Current + 4mA |
| Output Current (max.) | 75mA @ 24Vdc ⁴ |
| Output EOL | 22k Ohm 0.5W |
| Dimensions (HWD) | 61 x 84 x 25 mm |
| Wire Size (maximum) | 2.5sq. mm |
| Ambient Temperature | -25°C to +70°C |
| Relative Humidity | 10% to 95% (non cond.) |
| ActivFire Listed | afp-1446 |
| FPANZ Listed | VF/652 |

Part Number 577.800.011

MCP820 Indoor Manual Call Point



The MCP820 Addressable Manual Call Point is suitable for indoor applications. As supplied, it is suitable for flush mounting. A surface mounting back box is available separately. The MCP820 is designed to monitor and signal the condition of the switch contact that is operated by breaking a plastic coated glass frangible element (flexible plastic option available).

Any change in the status of the switch is immediately communicated to the Control and Indicating Equipment (CIE). The MCP820 has an integral short-circuit isolator for protecting the addressable loop wiring.

The CP820 is an alternative *MX* addressable call point which does not have an integral short circuit isolator.

Technical Specification

| | |
|---------------------|---------------------------------------|
| Quiescent Current | 275µA |
| Alarm Current | 2.8mA |
| Ingress Protection | IP24D |
| Dimensions (HWD) | 87x87x52 |
| Ambient Temperature | -25°C to +70°C |
| Relative Humidity | 10% to 95% (non cond.) |
| ActivFire Listed | afp-2874 (MCP820) afp-1503 (CP820) |

Part Numbers

| | |
|-------------|--------------------------|
| 514.800.611 | MCP820 |
| CP820 | CP820 (no S/C isolator) |
| SU0632 | Back Box |
| 515.001.025 | Spare Glass (Pkt 5) |
| 515.001.127 | Flexible Plastic Element |
| SU0615 | Transparent Hinged Cover |

MCP830 Outdoor Manual Call Point



The MCP830 Addressable surface mounting Manual Call Point has an International Protection rating of IP67, making it suitable for outdoor applications. It is designed to monitor and signal the condition of the switch contact that is operated by breaking a plastic coated frangible glass element (flexible plastic option available). Any change in the status of the switch is immediately communicated to the Control and Indicating Equipment (CIE). The MCP830 has an integral short-circuit isolator for protecting the addressable loop wiring. Note MCP830 does not have a formal UV exposure rating. Installation in full sun should be avoided.

The CP830 is an alternative IP67 *MX* addressable call point which does not have an integral short circuit isolator.

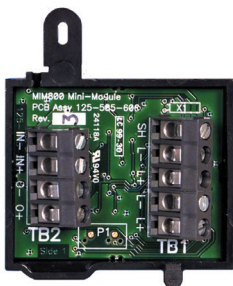
Technical Specification

| | |
|---------------------|---------------------------------------|
| Quiescent Current | 275µA (max.) |
| Alarm Current | 2.8mA (max.) |
| Ingress Protection | IP67 |
| Dimensions (HWD) | 93x98x73 mm |
| Ambient Temperature | -25°C to +70°C |
| Relative Humidity | 10% to 95% (non cond.) |
| ActivFire Listed | afp-2875 (MCP830) afp-2798 (CP830) |

Part Numbers

| | |
|---------------|---|
| 514.800.612 | MCP830 incl. Back Box |
| 518.800.604.Y | CP830 incl. Back Box (no S/C isolator) |
| 515.001.119 | Spare Glass (Pkt 5) |
| 515.001.127 | Flexible Plastic Element |
| SU0615 | Transparent Hinged Cover |

MIM800 Mini Input Module



The MIM800 Mini Input Module monitors a voltage-free contact and transmits its state to the CIE. It can be programmed to monitor either Normally Open (default) or Normally Closed contacts. The MIM800 can be programmed to monitor:

- 1 circuit of multiple N/O contacts, with S/C alarm
- 1 circuit of multiple N/C contacts, with O/C alarm
- 1 circuit with a single N/O contact, closing for alarm, with fault detection for short circuit.

The MIM800 has an output suitable for driving an LED. The MIM801 is also available; it is optimised for normally closed applications and can generate an interrupt (only used when a fast response is required) on an open circuit.

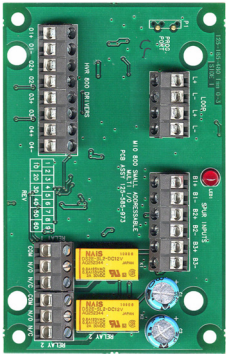
Technical Specification

| | |
|---------------------|------------------------------------|
| Quiescent Current | 275µA (typ) |
| Operated Current | 2.8mA (max. LED on) |
| Circuit Resistance | 10 Ohm (max.) |
| ELD Resistor | 200 Ohm (supplied) |
| Alarm Resistor | 100 Ohm (s/c fault) |
| Input Cable Length | 10m (maximum) |
| Dimensions (HWD) | 57 x 48 x 13 mm |
| Ambient Temperature | -25°C to +70°C |
| Relative Humidity | 10% to 95% (non cond.) |
| ActivFire Listed | afp-1446 |
| FPANZ Listed | VF/641 (MIM800) VF/645 (MIM801) |

Part Numbers

| | |
|--------|------------------|
| MIM800 | MIM800 |
| FP0837 | MIM801 (NZ only) |

MIO800 Multi-Input Output Module



The MIO800 Multi-Input/Output Module has three inputs and two outputs from latching relays. Each input and output can be programmed independently to provide customised functionality.

Each input supports:

- Multiple N/O contacts with S/C alarm
- Multiple N/C contacts with O/C alarm
- Single N/O contact, closing for alarm, with S/C fault
- Single N/C contact, opening for alarm, with S/C and O/C fault.

The two relay outputs are available as voltage-free change-over contacts, that are not suitable for switching mains voltage.

The on-board LED will turn on when any input is in the alarm condition, and can also be programmed to blink when polled by the CIE.

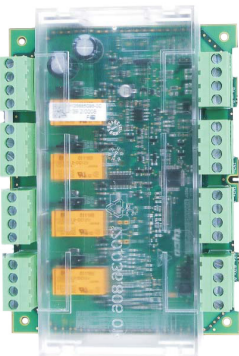
Technical Specification

| | |
|-----------------------------------|-------------------------|
| Quiescent Current | 480µA (max.) |
| Operated Current (LED on) | 3mA |
| Input EOL | 330 Ohm |
| Input Alarm Resistor | 150 Ohm |
| Circuit Resistance | 40 Ohm (max.) |
| Relay Contact Rating ⁵ | 2A @ 24Vdc ⁴ |
| Dimensions (HWD) | 72 x 110 x 18 mm |
| Wire Size (maximum) | 2.5sq. mm |
| Ambient Temperature | -25°C to +70°C |
| Relative Humidity | 10% to 95% (non cond.) |
| FPANZ Listed | VF/655 |

Part Numbers

| | |
|-------------|------------------|
| 555.800.065 | MIO800 |
| MIO800 | MIO800 (NZ only) |

QIO850 Quad Input/Output Module



The Quad Input / Output module provides four monitored inputs and four changeover relay outputs. The inputs can be used in different modes, supporting normally open or normally closed alarm contacts, short circuit alarm or fault, and open circuit fault. Interrupts can be enabled to supply immediate recognition.

The outputs can be voltage-free change-over contacts or a switched auxiliary supply (24V/48V selectable). Supervision of the auxiliary supply can be enabled to detect disconnection or failure. The QIO850 includes a *MX* loop short-circuit isolator and can be programmed using the IR link from the 850EMT.

The QIO850 is supplied in a plastic enclosure suitable for mounting on top-hat style DIN rails and includes demountable screw terminals. To assist commissioning and fault finding, on-board LED indicators show the state of each output.

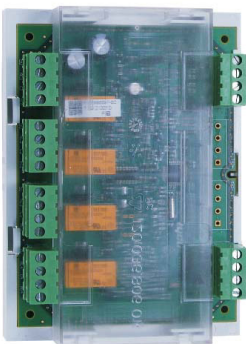
Technical Specification

| | |
|---------------------|--|
| Quiescent Current | |
| Normal | 1.1mA |
| Tripped (max) | 5.9mA |
| Relay Contacts | 2A @ 30Vdc (resistive) |
| Dimensions (HWD) | 103 x 134 x 49 mm (including enclosure and terminal connector) |
| Weight | 0.15g |
| Wire Size (maximum) | 2.5sq. mm |
| Ambient Temperature | -25°C to +70°C |
| Relative Humidity | 10% to 95% (non cond.) |
| ActivFire Listed | afp-2320 |

Part Number

555.800.071

QMO850 Quad Monitored Output Module



The Quad Monitored Output module provides 4 supervised switched outputs suitable for driving sounders, relays, indicators, etc.

The outputs are powered by a 24V/48V selectable power source, which is supervised for connection/failure. Each output is supervised for open circuit or short circuit faults.

The QMO850 includes an *MX* loop short-circuit isolator and can be programmed using the IR link from the 850EMT.

The QMO850 is supplied in a plastic enclosure suitable for mounting on top-hat style DIN rails and includes demountable screw terminals. To assist commissioning and fault finding, on-board LED indicators show the state of each output.

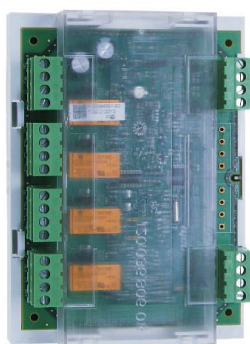
Technical Specification

| | |
|---------------------|--|
| Quiescent Current | |
| Normal | 2.1mA |
| Tripped (max) | 6.7mA |
| Relay Contacts | 2A @ 30Vdc (resistive) |
| Dimensions (HWD) | 103 x 134 x 49 mm (including enclosure and terminal connector) |
| Weight | 0.15g |
| Wire Size (maximum) | 2.5sq. mm |
| Ambient Temperature | -25°C to +70°C |
| Relative Humidity | 10% to 95% (non cond.) |
| ActivFire Listed | afp-2320 |

Part Number

555.800.070

QRM850 Quad Relay Output Module



The Quad Relay Output module provides four voltage-free change-over relay outputs or switched auxiliary supply (24V/48V selectable) outputs. Supervision of the auxiliary supply can be enabled to detect disconnection or failure. The QRM850 includes an *MX* loop short-circuit isolator and can be programmed using the IR link from the 850EMT.

The QRM850 is supplied in a plastic enclosure suitable for mounting on top-hat style DIN rails and includes demountable screw terminals. To assist commissioning and fault finding, on-board LED indicators show the state of each output.

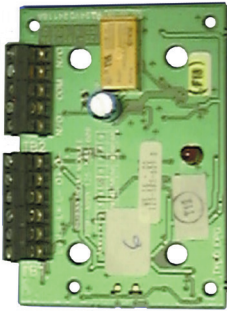
Technical Specification

| | |
|---------------------|--|
| Quiescent Current | |
| Normal | 1.1mA |
| Tripped (max) | 5.9mA |
| Relay Contacts | 2A @ 30Vdc (resistive) |
| Switching Power | 60W, 125VA (resistive) max. |
| Dimensions (HWD) | 103 x 134 x 49 mm (including enclosure and terminal connector) |
| Weight | 0.15g |
| Wire Size (maximum) | 2.5sq. mm |
| Ambient Temperature | -25°C to +70°C |
| Relative Humidity | 10% to 95% (non cond.) |
| ActivFire Listed | afp-2320 |

Part Number

555.800.073

RIM800 Relay Interface Module



The RIM800 Relay Interface Module provides one volt-free changeover contact which is not supervised. The relay is controlled by a command sent from the CIE via the addressable loop and may be used to signal a state to other systems (security system, for example) or to energise loads such as door holders. The relay operation is determined by the CIE programming. The RIM800 has a red LED which may be configured to indicate relay activation and CIE polling. Note that the RIM800 is not rated to switch mains voltage directly.

Technical Specification

| | |
|----------------------------|--------------------------------|
| Quiescent Current | 285µA (max.) |
| Operated Current | 2.8mA (max, LED on) |
| Relay Contact ⁵ | 2A @ 30Vdc (max.) ⁴ |
| Dimensions (HWD) | 61 x 84 x 25 mm |
| Ambient Temperature | -25°C to +70°C |
| Relative Humidity | 10% to 95% (non cond.) |
| ActivFire Listed | afp-1446 |
| FPANZ Listed | VF/642 |

Part Number RIM800

SNM800 Sounder Notification Module



The SNM800 Sounder Notification Module can be used to switch an external power source to sounders, extinguishing devices or other auxiliary equipment. The output is activated in response to a command from the CIE. The wiring to the controlled devices can be supervised for open and short circuit fault conditions and the external power source for the devices can be optionally supervised. Each output device (sounders etc.) must have a suitable diode wired in series (if not already contained in the device) so that the whole line is supervised up to the End of Line Device (2.7k Ohm resistor).

Technical Specification

| | |
|-----------------------------|--------------------------------|
| Quiescent Current | 450µA (max.) |
| Operating Current | 3mA (max, LED on) |
| Output Current ⁵ | 2A @ 30Vdc (max.) ⁴ |
| Output ELD | 27k Ohm 0.5W |
| External 24V Supply | 18 to 28Vdc |
| Dimensions (HWD) | 61 x 84 x 25 mm |
| Ambient Temperature | -25°C to +70°C |
| Relative Humidity | 10% to 95% (non cond.) |
| ActivFire Listed | afp-1446 |
| FPANZ Listed | VF/644 |

Part Number SNM800

VIO800 VESDA Interface Module



The VIO800 VESDA Interface Module is an arrangement of the MIO800 Addressable Multi-I/O Module. The MIO800 is supplied fitted on to a mounting bracket suitable for installation within all models of VESDA LaserPLUS or a LaserSCANNER which have relays fitted. The MIO800's inputs and outputs are wired to the relay outputs and control inputs of the LaserPLUS or LaserSCANNER to allow the compatible MX CIE to monitor and control the VESDA unit (VESDA not included). Wiring is not included.

Technical Specification

| | |
|---------------------|------------------------|
| Quiescent Current | 480µA |
| Operating Current | 3mA (max, LED on) |
| Dimensions (HWD) | 72 x 110 x 18 mm |
| Ambient Temperature | -25°C to +70°C |
| Relative Humidity | 10% to 95% (non cond.) |
| Wire Size (maximum) | 2.5sq. mm |
| ActivFire Listed | afp-2320 |
| FPANZ Listed | VF/655 |

Part Numbers

| | |
|-------------|------------------|
| 516.018.014 | VIO800 |
| VIO800 | VIO800 (NZ only) |

MX Module Housings



K2142 Double Gang Back Box

Technical Specification

| | |
|------------------|------------------|
| | K2142 |
| Dimensions (HWD) | 85 x 146 x 38 mm |
| Material | PC/ABS |
| Part Numbers | 517.035.010 |



M520 MX Module Cover including PCB cover & screws.

| | |
|------------------|------------------|
| | M520 |
| Dimensions (HWD) | 87 x 148 x 14 mm |
| Material | PC/ABS |
| Part Numbers | 517.035.007 |



517.035.011 K2214 Aluminium Back Box

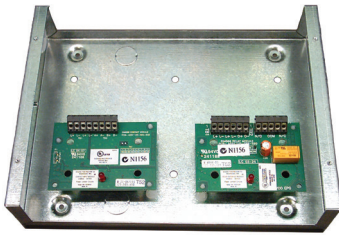
Technical Specification

| | |
|------------------|------------------|
| | K2214 |
| Dimensions (HWD) | 86 x 146 x 40 mm |
| Material | Aluminium |
| Part Numbers | 517.035.011 |



517.035.015 QFB/2 Flush Mount Back Box

| | |
|------------------|------------------|
| | QFB/2 |
| Dimensions (HWD) | 85 x 146 x 38 mm |
| Material | PC/ABS |
| Part Numbers | 517.035.015 |



FP0529 Empty Responder Box showing 2 standard MX modules fitted. The recommended module mounting combinations are:
 4x standard modules (61 x 84mm)
 or 2x large modules (MIO800)
 or 2x standard modules and 1x large module
 or 1x responder (ADR/MPP/MXP)
 Hardware included:-
 16 x HW0130 plastic PCB stand-offs
 2 x HW0168 1" body plugs, fitted to box
 4 x HW0310 M3 x 10 hex Nylon barrel nut
 1 ea. LB0283/LB0296/LB0370/LB0568 labels
 8 x SCO172 M3 x 6 Pan Head Phillips screws
 1x LT0401 Instructions.

Technical Specification

| | |
|------------------|-------------------|
| Dimensions (HWD) | 240x185x53 mm |
| Material | 1.2mm Galv. Steel |

Part Number FP0529

D800 Ancillary Housing



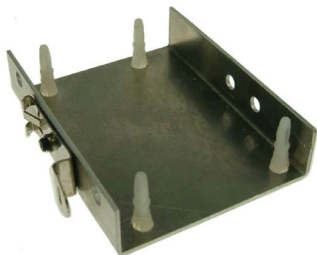
The D800 Ancillary Housing provides an IP55 rated enclosure for all unpackaged MX modules. It incorporates a window to view the module LED.

Technical Specification

| | |
|--------------------|-------------------|
| Dimensions (HWD) | 140 x 120 x 70 mm |
| Material | PC/ABS |
| Ingress Protection | IP55 |

Part Number 557.201.401

Mounting Brackets



547.004.002 DIN Rail Mounting Bracket



DIN Rail Mounting Bracket shown with RIM800 (not included).

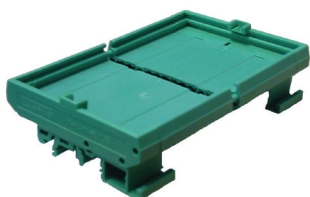
The **DIN Rail Mounting Bracket** can be used to mount standard sized MX Ancillary Modules (61 x 84mm) onto a standard 35mm DIN Rail by simply clipping the PCB onto four pre-fitted plastic pillars.

The **MX1 Loop Card/Module Bracket** provides an alternative module mounting facility for in-cabinet MX1 installations.

Part Numbers

| | |
|-------------|---|
| 547.004.002 | DIN Rail Bracket |
| FP1027 | MX1 Loop Card/2x Module Bracket (not shown) |
| FP1062 | MX1 Loop Card/4x Module Bracket (not shown) |

DIN Rail Mounting Kit (MIO800)



The DIN Rail Mounting Kit provides a convenient way to fix the large format modules (72 x 110mm) onto a standard DIN rail for in-cabinet installations. The MIO800 Module is fitted to the Mounting Kit by sliding the two Base elements onto the MIO800 PCB. Two foot elements are then attached into slots on the bottom side of the Base elements. Finally slide two Side elements onto the ends of the Base elements.

Technical Specification

| | |
|------------------|------------------|
| Dimensions (HWD) | 78 x 113 x 31 mm |
| Material | PC/ABS |

Part Numbers

| | |
|-------------|------------------------|
| 557.201.303 | DIN Rail Mounting Kit |
| DIN800 | DIN Rail Kit (NZ only) |

MX Loop Tester



The *MX* Loop Tester can be used to test, commission and fault-find a loop of *MX* analogue addressable detectors and ancillary devices, without having to connect the loop to a fire panel. Up to 250 *MX* devices may be connected. One Person Installation Mode allows new devices to be installed and field tested to confirm operation. Automatic Addressing Mode automatically sets the address of any un-programmed device that is added. Walk Test Mode provides a fast alarm response. A laptop (running a terminal program) connected to the unit can be used for operation, display and additional tests and commands.

Users outside Australia and New Zealand need to satisfy themselves that the mains adaptor meets local requirements.

Technical Specification

| | |
|------------------|---|
| Power Source | 24V batteries or 230VAC to 24V/3A plug pack |
| Dimensions (HWD) | |
| Unit only | 220x122x46mm |
| Carry Bag | 250x250x70mm |
| Weight | 2kg (excluding batteries) |

Part Numbers

| | |
|---------------------|------------------------|
| FPO898 ⁶ | Loop Tester |
| SU0256 | Spare 230VAC Plug Pack |

850EMT Engineering Management Tool



The 850EMTK *MX* Service Tool Kit consists of:

- 850EMT Service Tool
- 6x AA NiMH rechargeable batteries
- 230VAC mains adaptor
- 12Vdc car adaptor
- Ancillary programming lead
- Spare pins for the programming lead
- Carry case and shoulder strap.

Where 850 Series detectors are connected to a VIGILANT *MX 1* or SIMPLEX 4100ESI⁸ system, the 850EMT can be used to remotely interrogate, address and test the 850 Series detectors. Alternatively, any *MX* detector can be plugged on directly. *MX* modules are connected using an ancillary lead (supplied).

The 850EMT features a 90mm QVGA TFT backlit LCD alphanumeric display with a resolution of 320 x 240 pixels and 262k colours.

The ability of the 850EMT to communicate with the 850 series detectors using a bidirectional infrared wireless link is unique. This feature allows you to better manage the commissioning and servicing of 850 Series detectors from ground level without the requirements of high ladders or cherry pickers.

Programming, testing and verification of a detector can be carried out by a single visit to the device - from the ground. This is a major benefit: saving you time, costs and the health and safety of your commissioning technicians.

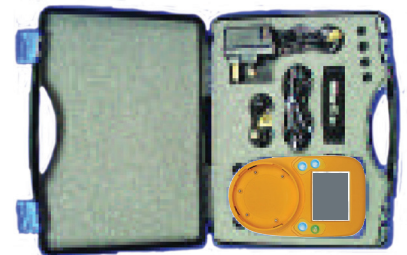
Users outside Australia and New Zealand need to satisfy themselves that the mains adaptor meets local requirements.

Technical Specification

| | |
|-------------------------------|------------------------|
| Batteries | 6xAA NiMH |
| Batt. Operating Time | up to 15 hours |
| Ambient Temperature | 0 to +50°C |
| Relative Humidity | 10% to 90% (non cond.) |
| Dimensions (HWD) ⁷ | 48 x 200 x 112 mm |
| Weight ⁷ | 500g incl. batteries |

Part Numbers

| | |
|-------------|----------------------|
| 850EMTK | Service Tool Kit |
| 516.800.922 | Ancillary Lead |
| 516.800.924 | Anc. Lead Spare Pins |



Notes:

1. Voltage restrictions for some detectors; refer to panel manuals.
2. External Supply Alarm / Short Circuit.
3. Maximum 250 modules on *MX 1* or 4100ESI; max. 200 modules on MX4428.
4. Output current is for a resistive load.
5. Relay must not be used to switch mains voltages.
6. FPO898 includes test unit, carry bag, 230VAC plug pack, manual and loom.
7. For 850EMT unit only.
8. IR programming is not supported on MX4428.

Typical Specifications unless otherwise stated:-

- (i) Operating voltage 20 to 40Vdc is supplied by *MX* addressable loop.
- (ii) Remote Indicator: E500 Mk2 Series.
- (iii) Devices are suitable for indoor applications only.
- (iv) Ambient temperature -25°C to +70°C.
- (v) Relative humidity 10% to 95% (non condensing).
- (vi) Up to 250 modules per *MX* detector loop (panel dependant)³.

| Table 1 MX Ancillary Device / MX Panel Compatibility | | | |
|---|------------|---------------|----------------|
| Compatibility | MX1 | MX4428 | 4100ESi |
| CP820 Call Point - Indoor | √ | √ | √ |
| CP830 Call Point - Outdoor | √ | √ | √ |
| CIM800 Contact Input Module | √ | √ | √ |
| DDM800 Universal Fire & Gas Detector Module | √ | √ | √ |
| DIM800 Detector Input Module | √ | √ | √ |
| LIM800 Loop Isolator module | √ | √ | √ |
| LPS800 Loop Powered Sounder Module | √ | √ | - |
| MCP820 S/C Isolator Call Point - Indoor | √ | √ | - |
| MCP830 S/C Isolator Call Point - Outdoor | √ | √ | - |
| MIM800 Mini Input Module | √ | √ | √ |
| MIO800 Multi Input/Output Module | √ | - | √ |
| QIO800 Quad Input/Output Module | √ | - | - |
| QMO800 Quad Monitored Output Module | √ | - | - |
| QRM800 Quad Relay Output Module | √ | - | - |
| RIM800 Relay Interface Module | √ | √ | √ |
| SNM800 Sounder Notification Module | √ | √ | √ |
| VIO800 VESDA Input Module | √ | - | √ |

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