

MINERVA® MX

800 Series Ancillary Equipment

Features:

- Communication and control interface to MX Fire Controllers
- High systems integrity
- Allows remote sounder circuits
- Allows loop powering of sounders
- Monitoring of external equipment e.g. smoke dampers
- Reduced installation costs
- Removes the need for separate plant control circuits

800 Series Ancillary Equipment

An extensive range of ancillary modules has been specifically designed for use with the MX range of Fire Controllers.

The 800 range of ancillary modules provide the MX Fire Controller with a wide degree of systems application flexibility. This allows the field addressable loop from the control panel to both receive inputs to the system and control outputs from it.

This broad range of modules allows the scope of the fire detection system to be significantly extended beyond a simple fire detector alarm sounder based alarm system.

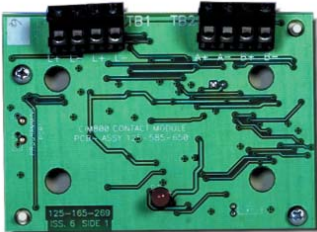
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The command modules enable fire doors to be closed, fire dampers to be controlled, plus provide an interface to shut down HVAC and other plant control equipment. Other applications include an interface between shopping centre tenants' premises and the landlords' central control system. With the high systems integrity offered on the MX Controller the command modules can also be used to control a public address based building evacuation system.

CIM800 Contact Input Module



The CIM800 is a flexible addressable input-monitoring device that fits in the standard ancillary housings. The CIM800 provides a single input to current MX panels though this can be implemented as two separately wired spurs (Style B) or as a loop (Style A).

Both spur and loop input wiring can be configured to monitor normally open or normally closed inputs. In addition both can be configured to initiate an alarm or short circuit fault message in the event of a short circuit on normally open monitoring circuits.

DIM800 Detector Input Module



The DIM800 is designed to power and monitor a circuit of low voltage conventional detectors and callpoints. The detection circuit is powered from an external 24V d.c. supply and is reset by the MX addressable panel. The DIM800 monitors the external 24V d.c. and provides a fault signal if it is lost. The input detection circuit can be wired as one or two spur circuits (Class B), one loop configured circuit (Class A) or one 4 wire detection circuit.

The DIM800 is designed to be compatible with most conventional detection products. Compatibility has been tested to date on the following products:

Compatible Thorn detectors: M300 Series, M600 Series, S100 Series, H Series, S23 1F, S23 1F+, CP200 Compatible Zettler detectors: M6 13 Series.

LI800 Line Isolator Module



The LI800 is designed to be used on all MX addressable loops. It monitors the line condition and upon detection of a short circuit it isolates the affected section whilst allowing the rest of the addressable loop to function normally.

The LI800 ensures that on a looped addressable system a short circuit fault cannot disable more detection devices than would be lost on a conventional non-addressable system in accordance with BS5839 Part 1.

RIM800 Relay Interface Module



The RIM800 provides a single programmable relay output from the MX DIGITAL addressable loop which can be programmed for a variety of applications including signalling fire conditions to plant, machinery, fire doors, dampers & security systems.

The RIM800 relay coil is monitored. The RIM800 relay contact is rated for 2A @ 24V d.c. but can be used to switch mains voltage when used with the HVR800.

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LPS800 Loop Powered Sounder Module



The LPS800 provides a single monitored sounder output circuit with up to 75mA of power sourced from the MX panel loop.

SNM800 Sounder Notification Module



The SNM800 is a remote addressable sounder circuit output device capable of switching sounder and speaker circuits up to 2A @ 24V d.c. or provide a monitored output facility for other applications. These can be used in addition to the two sounder circuits provided as standard on most MX detection panels.

The SNM800 can support sounder circuits wired as a spur (Class B – Style Y) or in a loop configuration (Class A – Style Z). The SNM800 can be configured with a RIM800 to provide a secure monitored extinguishing release solenoid control.

TM520 Timer Module



The TM520 provides an output that can be activated based on a delay time. If either the key-switch on the module is activated, or a predefined event within the control panel occurs then a timed delay (set between 10 minutes and 2 hours 10 minutes) is started. When the delay reaches zero the TM520 output is activated. The unit sounds an internal buzzer and shows a red LED when the output is active, and shows a yellow LED when the timer is counting down.

To provide a warning that the delay is nearly over, the red LED and the buzzer will pulse 5 minutes before the end of the delay .

The TM520 requires a separate 24V DC supply to operate. The module is not addressable and will therefore not take an address on the loop.

APM800 Addressable Power Supply Monitor Module



The APM800 is an MX addressable power supply monitoring module which is usually used with the PSM800 power supply module to make an addressable power supply. The APM800 is designed to fit to studs on the top of the PSM800.

The APM800 monitors the PSM800 for mains failure, earth fault, battery charger fault and battery fault. It can reset the PSM800 resettable 24Vd.c. output and initiate a battery test which then reports battery voltage and current to the controller.

SB520 Sounder Boost Module



The SB520 enables the SNM800 to drive sounder circuits with higher currents whilst maintaining the reverse polarity integrity line monitoring.

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MIM800 Mini-Input Module



The MIM800 is a small MX addressable module designed for monitoring a single input circuit. The MIM800 can monitor normally open or normally closed inputs and provides open and short circuit monitoring of the line.

The MIM800 is designed for fitting in small devices such as flow switches, special detection devices and explosion proof callpoints.

A variant of the MIM800 is used in all callpoints and pullstations.

HVR800 High Voltage Relay



The HVR800 is a non-addressable device which allows a low current mains rated relay to switch up to 10A. Alternatively a low voltage drive signal such as that provided by the RIM800 or 80 way mimic can be used to switch the integral mains relay.

SIO800 Single Input/Output Module



The SIO800 is designed to provide a monitored input and a volt free relay changeover output. It consists of an input for monitoring the status of a normally open contact and output changeover relay contact. The relay is controlled by a command sent from the MX Fire Controller via the addressable loop.

The state of the relay (activated, deactivated or stuck) is reported to the MX Fire Controller. The LED may be turned ON or OFF by the controller during a relay activated condition.

CP820 Indoor Callpoint



The CP820 is an indoor MX addressable manual callpoint with programmable status LED. The CP820 is designed for LPCB approvals. The CP820 provides high speed communication to the MX panel of a manual fire alarm.

CP830 Outdoor Callpoint



The CP830 is an outdoor MX addressable manual callpoint with programmable status LED. The CP830 is designed for LPCB approvals. The CP830 provides high speed communication to the MX panel of a manual fire alarm.

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MX Ancillary Module Housings

Double Gang Mounting Cover



The double gang mounting cover allows any of the 800 module range to be mounted individually onto a standard electrical double gang backbox.

The mounting cover allows either surface or flush mounting.

Ancillary Housing 8



The Ancillary Housing 8 can incorporate:- 8 x standard 800 Ancillary modules

Additionally a stacking kit is available that doubles the number of modules that can be accommodated within the Ancillary 8 housing.

Ancillary Housing 3



The Ancillary Housing 3 is a low cost plastic housing that can incorporate:- 3 x standard 800 Ancillary modules

D800 Ancillary Housing



The D800 Ancillary Housing is a surface mount IP55 plastic housing which will accommodate any one of the 800 module range except for the APM800/MIM800/TM520.

SPECIFICATIONS

MX Ancillary Module Technical Look-Up Table

Module	No. Of Inputs	No. Of Outputs	Output Rating Used	No Of Addresses	Powered From	Operating Temperature	Operating Humidity	Dimensions (mm)
CIM800	2	N/A	-	1	Loop	-25°C to +70°C	<95% RH	60 x 84 x 14
DIM800	2	N/A	-	1	24V dc PSU	-25°C to +70°C	<95% RH	60 x 84 x 14
LI800	N/A	N/A	-	-	Loop	-25°C to +70°C	<95% RH	60 x 84 x 14
LPS800	N/A	1	75mA at 24Vdc	1	Loop	-25°C to +70°C	<95% RH	60 x 84 x 14
RIM800	N/A	1	24Vdc 2A	1	Loop	-25°C to +70°C	<95% RH	60 x 84 x 14
SB520	N/A	1	15A for sounders	-	24V dc PSU	-25°C to +70°C	<95% RH	60 x 84 x 14
SNM800	N/A	1	2A for sounders	1	24V dc PSU	-25°C to +70°C	<95% RH	60 x 84 x 14
TM520	1	1	24Vdc 1A	-	24V dc PSU	-20°C to +70°C	<95% RH	87 x 148 x 14
APM800	N/A	N/A	N/A	1	PSM800	-25°C to +70°C	<95% RH	57 x 127 x 25
MIM800	1	1	4.5mA	1	Loop	-25°C to +70°C	<95% RH	13 x 48 x 57
HVR800	1	1	10A at 24Vdc/ 240Vac	-	24Vdc/ 24Vac/ 120Vac/ 240Vac	-25°C to +70°C	<95% RH	26.5x73.6x41.5
SIO800	1	1	24Vdc 2A	1	Loop	-25°C to +70°C	<95% RH	60 x 84 x 14
CP820	N/A	N/A	N/A	1	Loop	-25°C to +70°C	<95% RH	87 x 87 x 19
CP830	N/A	N/A	N/A	1	Loop	-25°C to +70°C	<95% RH	135 x 135 x 30

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