**DDM800**

**Generation 6 MX Universal Fire & Gas Detector Module**

**Features**

- Compatible with MX Addressable Loop on SIMPLEX 4100ESi, VIGILANT MX1 and VIGILANT MX4428 fire panels
- Interface for two zones of conventional detectors
- Programmable inputs as smoke/heat/CO detectors and MCP for fast alarms*1
- Loop powered or external 24Vdc
- Built-in loop short-circuit isolator
- Wide range of compatible detectors

The DDM800 – Universal Fire & Gas Detector Module is an MX addressable module designed to monitor and signal alarms from:

- One or two conventional 2-wire detector circuits, or
- One or two 4-20 mA sensors (MX4428)*2

The DDM800 module may be used to connect two circuits of conventional 20V detectors and interface them with an MX addressable fire alarm system.

These circuits are compatible with a wide range of detectors, and include support for fast alarms on 15V/Indicating Manual Call Points (MCP), Intrinsically Safe isolators and detectors, and AVF on smoke detectors*1.

The DDM800 can be MX Loop–powered or use an external 24Vdc power supply. When loop–powered a special low voltage mode can be used with the Tyco 614 series detectors for operation over the full voltage range of the MX Loop.

Using an external 24V supply allows a wide range of detectors to be connected, and for the detector circuits to be electrically isolated from the MX Loop.

In 4-20mA mode the DDM800 can support a single 4-20mA source (e.g., gas sensor, flame sensor) on each circuit, operating in either current sink or current source mode*2. The DDM800 has an insertion loss of 4V, providing compatibility with a wide range of sensors from a 24V supply.

**Specifications**

**DDM800 Module**
- M520 Ancillary Cover
- K2142 Back Box
- DIN Rail Mntg Brkt
- D800 Ancillary Housing
- MX1 Loop/MX Module Brkt
- MX Module x4 Mountg Brkt

- 4x DDM800 Mntd on FP1062

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**Part Numbers**

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The DDM800 has an integral MX loop short-circuit isolator. When a section of the MX loop adjacent to the DDM800 is shorted, the isolator trips, isolating the shorted section and illuminating the yellow LED.

The DDM800 may be fitted to the M520 cover and K2142 back box, D800 Ancillary housing, or DIN rail bracket, or for MX1; 2 modules can be fitted to FP1027 or 4 fitted to FP1062.

Wiring
DDM800 simplified wiring diagrams.

A pre-wired bracket with 4x DDM800 fitted and wired for MX1 is available as FP1063. Alternatively the DDM800 may be custom mounted on stand-offs.

*1 Available options depend on panel type used. Refer specific panel manuals.

*2 4–20mA mode supported by MX4428 only. Refer to Panel Design manuals for details.

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VIGILANT, a respected regional brand of Johnson Controls, is a technology leader in the Australian and New Zealand fire detection markets with AS and NZS product approvals. The VIGILANT product line includes a comprehensive range of MX TECHNOLOGY fire detection products and the market-leading OER90 voice evacuation systems. VIGILANT product is widely supported throughout Australia and New Zealand by a network of installation companies, service companies and distributors.

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