**MMX-1E & MMX-102E**

**Monitor & Micro Monitor Analogue Addressable Module**

Section: Intelligent/Addressable Devices

**FEATURES**

- **Analogue addressable communications**
- **Built-in type identification automatically identifies this device as a monitor module to the control panel**
- **Stable communication technique with high noise immunity**
- **Rotary DECADE 01 to 99 address switches**
- **Common mounting for control, monitor, isolator, and conventional zone monitor**
- **Visible LED blinks every time the module is addressed (optional), and illuminates steady on alarm**
- **Powered directly by 2-wire loop. No additional power required**
- **Built-in functional test switch activated by external magnet (MMX-1E)**
- **SEM screws with clamping plates for ease of wiring (MMX-1E)**
- **LPCB and VdS approved**

**GENERAL**

The MMX-1E Monitor and MMX-102E Micro Monitor modules are designed for use with any NOTIFIER protocol fire alarm control panel.

These modules monitor a single input Device Circuit of normally-open dry-contact alarm activation devices.

These modules use one of 99 available module addresses on a loop and respond to regular polls from the control panel reporting its type and the status (open/normal/short) of its input device circuit.

Two rotary switches enable direct dial entry of DECADE address (01-99) and a label is provided to mark the loop number, address, and device type.

A flashing LED on the MMX-1E Monitor module indicates that the module is in communication with the control panel. The LED latches steady on alarm (subject to current limitations).

**FEATURES**

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**INSTALLATION**

The MMX-1E mounts in the NOTIFIER Multi-Mount Enclosure or an SMB500. The SMB500 may then be installed in a 19" Rack Assembly using NOTIFIER 19" Rack mounting adapters.

The MMX-102E mounts in a standard single-gang electrical knock-out box behind the device being monitored. Due to the small size and light weight it does not need to be rigidly mounted.

Maximum input circuit length is approximately 750 metres or 2500 feet (20 Ohms maximum).

A 47K End-of-Line Resistor (provided) must be fitted to the Monitor modules to terminate the circuit.

Mounting hardware and installation instructions are provided with each module.
**SPECIFICATIONS**

- **Dimensions**
  - MMX-1E: 116 (w) x 118 (h) x 33 (d).
  - Weight: 150 g.
  - MMX-102E: 48 (w) x 40 (h) x 13 (d).
  - Weight: 33 g.

- **Current Consumption**
  - 300 µA @ 24 VDC (without communication); 375 µA @ 24 VDC (one communication every 5 sec.).
  - Maximum Alarm Current: 5 mA @ 24 VDC (with LED enabled).

- **Operating Voltage**
  - 15 to 32 VDC peak.

- **Environmental Limits**
  - -10°C to 60°C operating temperature.
  - **Note:** Do not install the MMX-102E in locations where normal ambient temperature range extends beyond 0°C to 50°C.
  - 10% to 93%, non-condensing relative humidity.

**ORDERING INFORMATION**

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<td>MMX-1E Intelligent Monitor module. Mounting options specified below.</td>
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<tr>
<td>MMX-102E</td>
<td>MMX-102E Intelligent Micro Monitor module.</td>
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**Mounting Box:**

- 002-445 NOTIFIER Multi-Mount Enclosure. For use with upto two MMX-1E's.
- SMB500 Surface Mount Box. For use with MMX-1E.

**Accessories:**

- 020-595 NOTIFIER 6U x 19” Rack Adapter Plate.
- 230-539-009 Universal Mounting Plate, requires SMB500.

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**Wiring Diagram**

- **MMX-1E**

  ![Wiring Diagram for MMX-1E](image)

- **MMX-102E**

  ![Wiring Diagram for MMX-102E](image)