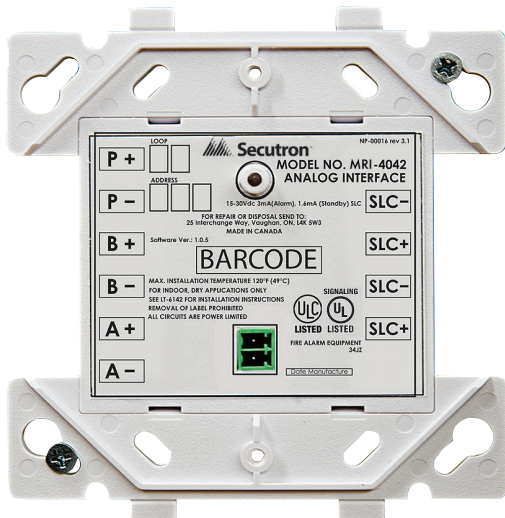


**MRI-4042  
CONVENTIONAL ZONE MODULE**



**Description**

The MRI-4042 Analog interface module is designed to be used with a compatible fire alarm control unit, providing high rates of information exchange and fast and secure responses.

The MRI-4042 Conventional Zone Module allows a zone of conventional two-wire detectors to be interfaced to an intelligent loop. It can also be configured to work with 4-20mA devices.

An external listed power supply can be connected to several MIX- 4042 modules to provide power to the devices while remaining electrically isolated from the FACP.

Each MRI-4042 monitors the current used by the devices and reports alarms and troubles accordingly.

When configured for conventional devices, the module will automatically handle Class A or Class B lines.

The MRI-4042 has an internal EOL resistor for Class A lines. An MP-300 end of line resistor must be used for Class B wiring.

The module has a panel controlled LED indicator. The LED flashes during normal operation and stays ON steadily when the device is in alarm condition.

**Features**

- Any combination of MRI-4000 series devices up to 240 can be connected on a single SLC.
- Mounts in a standard 4" square or double gang electrical back box.
- Indicating LED provides module status.
- Compatible with conventional two wire or 4-20mA devices.
- Can be configured for one (1) Class A or one (1) Class B circuit with conventional devices

**Benefits**

- A single stocked device type covers two applications:
  - Conventional Zone Input Module
  - 4-20mA two-wire devices
- Compatible with a large array of two-wire devices. See Mircom document LT-1023.

The MRI-4042 supports 2-wire smoke detectors on a Class A/B loop, or alternatively, the MRI-4042 can be configured to support 4-20mA devices. Trouble and monitor event current threshold can be set at configuration time. Due to UL listing requirements, alarm compatibility with 4-20mA devices will be determined on demand.

The address of each module is set using the MIX-4090 programmer tool. For setting the address on this device, disconnect it from the loop, or ensure that the loop to which is connected is both disconnected from the panel and shorted across the SCL+ and SLC- inputs at the device. Failing to take either of these steps may change the address programming of previously configured sensors on the loop.



## Technical Specifications

SLC Specs	
Normal Operating Value	15 to 30 VDC
Standby Current	1.6mA
Alarm Current	3.0mA
Devices Specs	
EOL Resistance (Conventional Zone)	3900 Ohms
Max Wiring Resistance (4-20mA)	200 Ohms
Max Wiring Resistance (Conventional Zone)	100 Ohms
External Power Supply	24VDC nominal (18 to 30 V)
External Supply Current	23mA maximum at 30 VDC (E.O.L. only)
EOL Current (Conventional Only)	5mA maximum
Conventional Devices Current	3mA total or less
Max Short Circuit Current	70mA(55mA on devices line)
Temperature Range	32°F to 120°F (0°C to 49°C)
Humidity	10% to 93% Non-condensing
Wiring Range on all terminals	22 to 12 AWG
Dimensions	4.625"H x 4.25" W x 1.125" D
Mounting	Typically mounted on a standard 4" square box. Also compatible with double-gang electrical boxes or Mircom BB-400 surface mount box.

\* See Mircom document LT-1023 for compatible two wire devices

## Ordering Information

Model	Description
MRI-4042	Conventional Zone Module
MIX-4090	MRI-4000 Addressable Device Programmer
MP-302	EOL on mounting plate
BB-400	Surface Mount Electrical Box