

ANALOG INPUT MODULE



Features

- SEMS screws for easing wiring
- Panel controlled status LED
- Analog communications
- Rotary address switches
- Low standby current
- Mounts in standard 4 inch junction box

Description

The M500M-4-20 Analog Input Module allows the connection of 4-20 mA output sensors to a FleX-Net™ intelligent fire alarm control panel (FACP). The module converts the sensor output to a common communication protocol that can be interpreted by the FACP for monitoring and display. There are numerous sensors available in the marketplace that communicate using a 4-20 mA output, including gas sensors, temperature sensors, air speed sensors, and more.

The M500M-4-20 Module includes numerous safeguards and protective features to ensure troublefree operation. The module accepts both 3-wire (device sink) and 2-wire configurations. The external power supply is isolated from the communication line. In addition, a 500 mA current limiter and a cutoff circuit protect the module's electrical supply from short circuits. In the event of a short, the output voltage will cycle within safe limits until the short is removed. The output signal is sampled and filtered for transients and noise prior to passing the signal on to the FACP. If the current running through the sensing circuitry exceeds 25 mA, the output voltage will shut down and the short protection process will begin.

As with all of the intelligent modules, the M500M-4-20 Analog Input Module is rigorously designed and tested for electromagnetic compatibility and environmental reliability, in most cases exceeding industry standards. The device is equipped with a panel-controlled red LED for local status indication. The standard SEMS terminals will accept wiring from 18 AWG to 12 AWG.









Specifications

General Specifications	
Operating Voltage	15 to 32 VDC
Communication Line Loop Impedance	40 Ω max.
Temperature Range	14°F to 140°F (-10° to 60°C)
Relative Humidity	10% to 93% noncondensing
Shipping Weight	5.5 oz (156 g)
Dimensions	4.275 in W × 4.675 in H × 1.400 in D
Current Draw Specifications	
Standby Current	700 μA max @ 24 VDC (one communication every 5 sec. with LED enabled)
External Power Supply	12 to 28 VDC
External Supply Standby Current	10 mA @ 24 VDC (nominal - module only, does not include sensor current)
External Supply Sensor Current	500 mA (maximum)
LED Current	6mA (with LED latched on)

Ordering Information

Model	Description
M500M-4-20	Analog Input Module

Note: Add suffix "A" for Canadian ULC listed model.

NOT TO BE USED FOR INSTALLATION PURPOSES.



Canada

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