



M2500 SMOKE DETECTOR

Ionization Sensor Technology, Long Sensor Life, Dual Smoke/Toxic Sensor Option, Low Power Consumption, Multi-System Compatible

Features

- Long sensor life
- Missing/Faulting Sensor Detection
- Forwards and backwards compatibility
- Low Power Consumption
- One Button Sensor Test
- Reliable and Stable Operation
- Automatic reset after power Interruption
- 2" Graphical Display (Backlit)
- Hand-Held IR programmer for setup and adjustments
- Dual Smoke/Toxic Sensor Option
- Four Open Collector Outputs
- Outputs, Analog, ModBus, Alarm 1, Alarm 2
- Four On-Board Dry Contact Digital Inputs

The M2500 Smoke Detector utilizes an, ionization based sensor. The M2500 Smoke detector has a quick response, low power consumption, and long-term stable operation. The M2500 operates over a broad range of temperatures and humidity conditions.

The M2500 offers ModBus communications, 4-20 mA output, and Conspec Legacy communications options.

Programmable options: four digital inputs, four digital outputs and two analog inputs, Alarm 1, and Alarm 2.

The M2500 has a one button sensor check and a simple smoke detector bump test.

The M2500 Smoke Detector has an optional Dual cell capability using smoke detection along with an additional toxic sensor/PPM monitor. Combinations such as Smoke/CO, Smoke/H2S, Smoke/O2 etc. give customers industry specific options for customized smoke detection and gas monitoring applications.

The Smoke/Toxic Sensor Options:

- CO
- H2S
- O2
- NO
- NO2
- SO2
- HCN
- HCL
- CL2



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Accessories

- P2384-1 Smoke Detector Tester Spray
- P2325-2 Replacement Smoke Sensor
- P1880 Calibration Gasses
- 911118M Infrared Remote
- Remote Cell Mounting
- 120V Internal Power Supply
- Optional Relay Outputs

Ionization Smoke Cell



The sensitivity rating for the smoke sensor used in all of Conspec's smoke monitors is 1.00 +/- 0.48 percent obscuration per foot. Therefore, each device will fall somewhere between 0.52 and 1.48 %/Ft. Tests show a tendency toward the lower end.

M2500 Mechanical Specifications	
Enclosure	NEMA 4X/IP54 Delrin/Fiberglass
Dimensions	Length 7.5", Width 5", Height 9"
Weight	Approximately 4 Pounds

M2500 Electrical Specifications	
Power Input	12-24 VDC (optional 120VAC)
Input	Ionization Sensor
Display	2 inch Graphical Backlit Display
Standard Output	4-20 Analog, ModBus, Output Alarm 1, Alarm 2
Digital Inputs	4 (Dry Contacts)
Digital Outputs	4 (Open Collector)
Analog Inputs	Smoke Sensor
Status LEDs	Bi-Color Status LED
Current	65 mA Full Scale
Cable Requirements	ModBus - 4-Conductor 18AWG 4-20 mA - 3-Conductor 18AWG
Conduit Entry	Two (3/4" Cable Grip)

M2500 Environmental Specifications	
Temp	-10 Degrees C to +50 Degrees C (14 degrees F to +120 degrees F)
Temperature Compensation	Full Temperature Range
Humidity	10% to 98% RH Non-Condensing

M2500 System Specifications	
Programming	Via (Non-Intrusive) Hand-Held Remote, Manual
Modes	3 Normal, Edit, Calibration (toxic)
Display	Multi-line Line, Backlit, Graphical LCD Display
Status LED's	Green-Power/normal, Red - Alarm1; Alarm2, Green/Red - Sensor Fail
Total Alarms	3 (Alarm 1, Alarm 2, & Sensor Fail)
Alarm Set Point #1, #2	Smoke: detected/not detected Toxic: ALM1, ALM2 User Defined

Conspec Controls offers a complete line of toxic and combustible gas transmitters.



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