AM-5150

Single-Point Hazardous Gas Monitor/Alarm for Ambient Air

Available for % LEL Combustible Gases, or ppm levels of CO, H_2S, Hydrocarbons, Organic Solvents and other Toxic Gases

The AM-5150 features a rugged, long-life metal oxide semiconductor (MOS) sensor. The sensor is available either in a separate junction box for remote mounting up to several hundred feet from the monitor, or as an integral component attached to the instrument. The AM-5150 provides a digital display of gas concentrations, audio/visual alarms, relay contacts, plus analog and digital outputs.

Optional Remote Sensor with Junction Box

MONITOR SPECIFICATIONS

Range and Alarms:	See table on back
Alarm Levels:	Three
Alarm Adjustment:	All three alarms are user adjustable
Audible Alarm:	105 dB at 30 cm (12 inches), factory set to activate at Alarm 1, user adjustable
Visual Gas Alarm:	3 Red LEDs
Visual Power/Fault:	Green/Red LED
Display:	8 Character, high contrast dot matrix LCD with backlight
Temp. Range:	32° to 122°F (0° to 50°C)
Outputs: Relays:	4 Form C, 10A SPDT contacts, 3 gas alarms and 1 fault
Analog:	4-20 mA
Digital:	RS-485 Modbus
Power:	100-240 VAC and/or 24 VDC, 15W
Power Connection:	Supplied with strain relief for 0.20 to 0.35 inch diameter cable
Enclosure:	Polycarbonate
Size, Instrument Only:	7 x 5 x 3 inches (18 x 13 x 8 cm)
Weight:	2 lbs. (0.9 kg)

SENSOR SPECIFICATIONS

Sensor:	Metal oxide semiconductor (MOS)
Response Time:	t_{90} = 30 to 180 sec., depending on type of gas and calibration
Accuracy:	+/- 15% of reading
Temperature Range:	-4° to +122°F (-20° to +50°C) for remote sensor
Rating:	Designed for Class 1, Groups A, B, C & D

REMOTE SENSOR ASSEMBLY

|	
Enclosure:	Aluminum
Dimensions:	6.7 x 4.4 x 3 inches (17 x 11 x 8 cm)
Weight:	4 lbs. (1.8 kg)
Wiring:	4-conductor; HV TYPE SENSORS:16 AWG for up to 500 feet to monitor; LV TYPE SENSORS:16 AWG for up to 50 feet to monitor; (for longer distances, consult factory)

FEATURES

- ■ **Compact Design**
- ■ **Digital Display**
- ■ **User Programmable Alarms & Relays**
- ■ **4-20 mA Output**
- ■ **RS-485 Digital Communication Capability**
- ■ **100-240 VAC, 24 VDC Power Options**
- ■ **"Intelli-Cal" Push-Button Calibration Procedure**
- ■ **3 Alarm Levels**
- ■ **Protected Maintenance Functions**
- ■ **Audio and Visual Alarms**
- ■ **High Integrity Polycarbonate Enclosure**
- ■ **High Capacity Relays**
- ■ **Available with Remote or Optional Integral Sensor**

ENMET CORPORATION

AM-5150 *Hazardous Gas Monitor/Alarm*

INTERNAL FEATURES & OPTIONAL INTEGRAL SENSOR
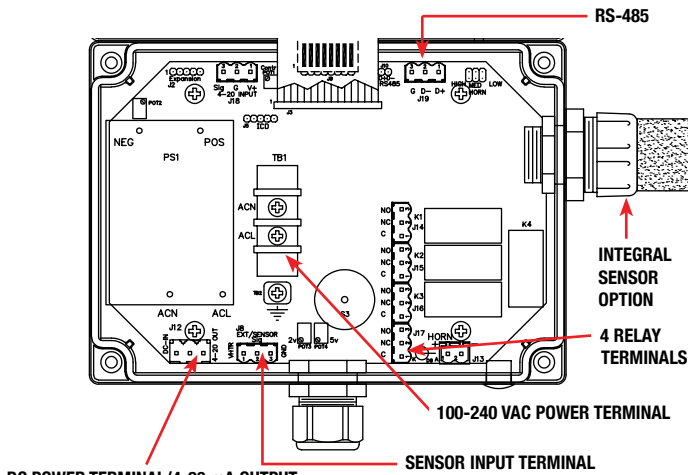
| Position	Function
1	+24 VDC power
2	GND
3	4-20 mA out

NOTE: Loss of primary power renders continuous gas monitors inoperative. Contact factory for specifications and pricing for backup battery systems compatible with ENMET monitors.
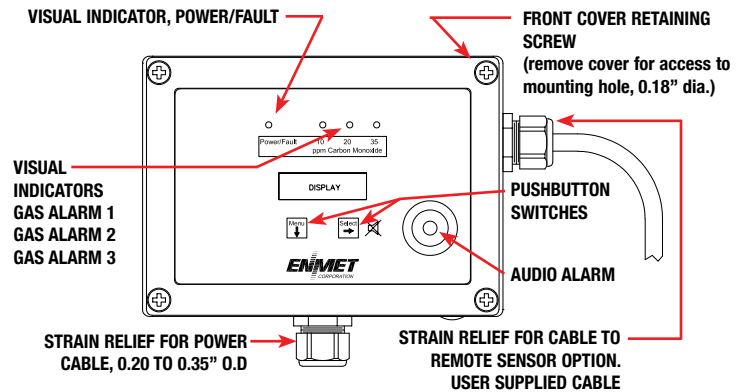
DIMENSIONS *IN INCHES*
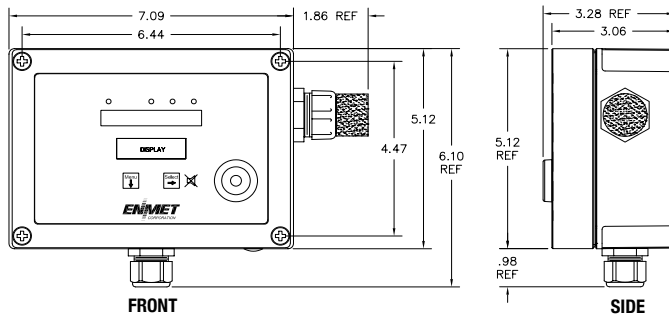
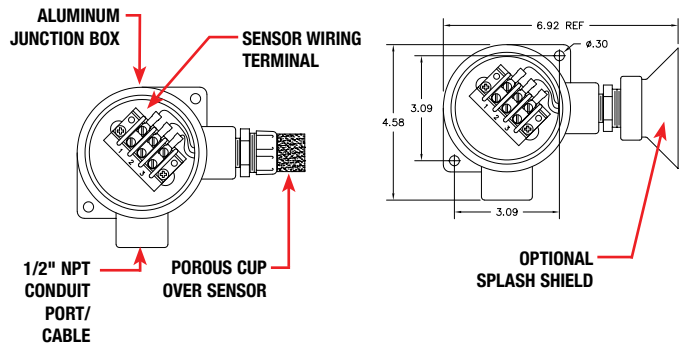**AM-5150 MONITOR WITH ATTACHED MOS SENSOR**

CALIBRATION CYLINDERS AND HARDWARE

CALIBRATION REGULATOR & HUMIDIFIER ASSEMBLY P/N 03700-001

17 LITER GAS CYLINDER
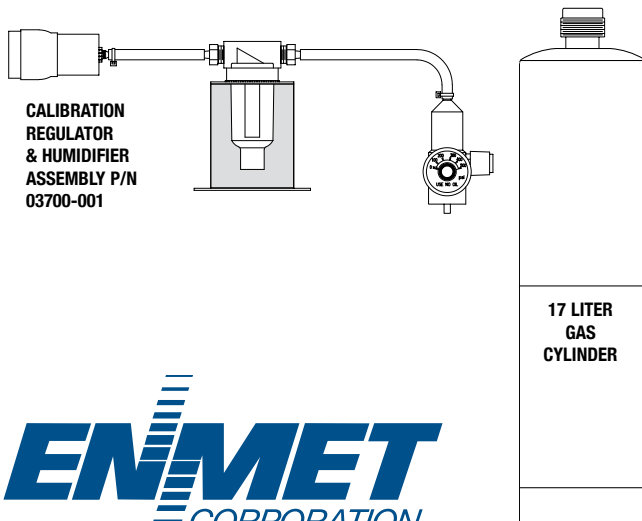
EXTERNAL FEATURES

OPTIONAL REMOTE SENSOR

EXAMPLES, TYPICAL CONFIGURATIONS

GAS	rD*	RANGE	ALARM POINTS
Acetone	2.0	0-2000 ppm	500, 750, 1000 ppm
Butane	2.0	0-50% LEL	10, 20, 40% LEL
Carbon monoxide	1.0	0-200 ppm	25, 35, 100 ppm
Hydrogen sulfide	1.2	0-50 ppm	10, 15, 20 ppm
Isopropanol	2.1	0-400 ppm	100, 200, 300 ppm
Methane	0.6	0-50% LEL	10, 20, 40% LEL
Propane	1.6	0-50% LEL	10, 20, 40% LEL
R-134a	3.5	0-2000 ppm	500, 750, 1000 ppm

relative density compared to air at 1.0

ORDERING INFORMATION

Instruments	Part No.
AM-5150 Monitor with remote HV sensor	10040-008
AM-5150 Monitor with integral HV sensor	10040-018
AM-5150 Monitor with remote LV sensor	10040-009
AM-5150 Monitor with integral LV sensor	10040-019

Calibration Gas & Hardware	
Calibration Regulator & Humidifier for 17 liter cylinder	03700-001
Calibration Gas, 17 liter	See Price List
Zero Gas, 20.9% O_2, 17 liter	03296-209
Calibration Equipment Case	73083-000

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