ENMET

AM-5175

Single-Point Hazardous Gas Monitor for Ambient Air with Electrochemical Sensor

PRODUCT HIGHLIGHTS

- **Single-point highly specific gas monitoring**

- **Audio and visual alarms**

- **User programmable alarms and high capacity relays**

- **Proven electrochemical sensor technology**

- **Easy to install compact design**

- **Low maintenance field replacement sensor**

The AM-5175 is a compact area monitor that uses a electrochemical sensor for the detection of a wide variety of chemicals in the workplace. The AM-5175 can be factory configured to monitor for oxygen deficiency, carbon monoxide, hydrogen sulfide and other electroactive chemicals from percent levels to trace ppm levels.

The AM-5175 is easy to operate and designed for wall mount installation. It can be located in non-classified locations anywhere the threat exists. The AM-5175's detection is based on source gas diffusion into an area. By using state of the art electrochemical sensor technology, the AM-5175 can be optimized to meet your specific monitoring requirements.

Electrochemical sensors detect gases by diffusion through a permeable membrane.

Once the gas reaches the working electrode, an oxidation or reduction electrochemical reaction occurs.

This reaction causes the flow of electrons to generate an electric current proportional to the concentration of gas as referenced by calibration, reporting the concentration in parts per million (ppm) for toxic gas sensors or percent by volume for oxygen sensors.
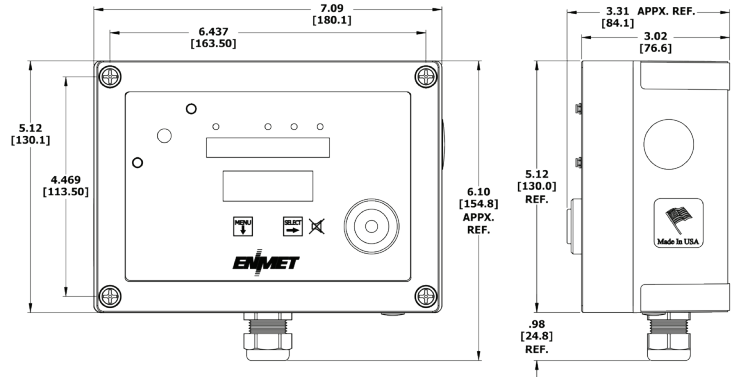
The AM-5175 includes a backlit digital display and has both audio and visual alarms. Additionally, there are three programable relays which can activate remote safety or warning equipment such as exhaust fans or strobe lights. The AM-5175 is a highly effective, easy to operate and low-cost solution for single-point ambient air monitoring.

AM-5175

GENERAL SPECIFICATIONS

Display:	High-contrast, backlit
Alarms:	Visual Gas Alarms: 3 red LEDs Audible: 105 dB at 30 CM (12 inches) All three alarms are user adjustable
Alarm Relays:	4 Form C, 10A SPDT contacts, 3 gas alarms and 1 fault
Operating Power:	100 to 240 VAC and/or 24 VDC, 15 Watts
Power Connection:	Supplied with a line cord and strain relief for: 0.20" to 0.35" OD Cable
Sensor Type:	Electrochemical
Inputs/Outputs:	Analog: 4-20 mA Digital: RS-485 Modbus
Operating Temperature:	32° to +104°F (0° to +40°C)
Enclosure:	Polycarbonate
Dimensions:	7.1 W x 6.1 H x 3.5 D inches (18.2 W x 15.5 H x 8.9 D cm)
Weight:	2 lbs. (0.9 kg)

DIMENSIONS

AM-5175 Area Monitor

EXAMPLES OF SOME TYPICAL CALIBRATIONS

Gas	Range	Alarm Points
Oxygen	0-30% by Vol	17%, 19.5%, 23.5%
Carbon Monoxide	0-500 ppm	35, 50, 200 ppm
Hydrogen sulfide	0-50 ppm	10, 15, 50 ppm
Hydrogen	0-2000 ppm	200, 500, 1000 ppm
Ammonia	0-100 ppm	25,50, 75 ppm
Chlorine	0-10 ppm	2, 5 10 ppm
Nitric oxide	0-100 ppm	25, 50, 75 ppm
Nitrogen dioxide	0-30 ppm	3, 5, 10 ppm
Sulfur dioxide	0-30 ppm	2, 5, 10 ppm

Contact ENMET regarding ranges and custom calibration requirements.

ORDERING INFORMATION

Description	Part No.
AM-5175 Monitor, Oxygen, O_2	10040-1100
AM-5175 Monitor, Carbon monoxide, CO	10040-1200
AM-5175 Monitor, Hydrogen sulfide, H_2S	10040-0200
AM-5175 Monitor, Hydrogen, H_2	10040-1500
AM-5175 Monitor, Ammonia, NH_3	10040-2400
AM-5175 Monitor, Chlorine, Cl_2	10040-0100
AM-5175 Monitor, Nitric oxide, NO	10040-1750
AM-5175 Monitor, Nitrogen dioxide, NO_2	10040-1700
AM-5175 Monitor, Sulfur dioxide, SO_2	10040-0500
Gas Regulator Assembly for 34 liter aluminum gas cylinders	04834-001
Gas Regulator Assembly for 34 liter steel gas cylinders	04834-004
Calibration Cover for AM-5175	03620-022
Calibration Equipment Case	73083-000

Calibration Gas and Accessories - See price list

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⚠ **WARNING:** Loss of primary power renders continuous gas monitors inoperative.
Contact factory for specifications and pricing for backup battery systems compatible with ENMET monitors.