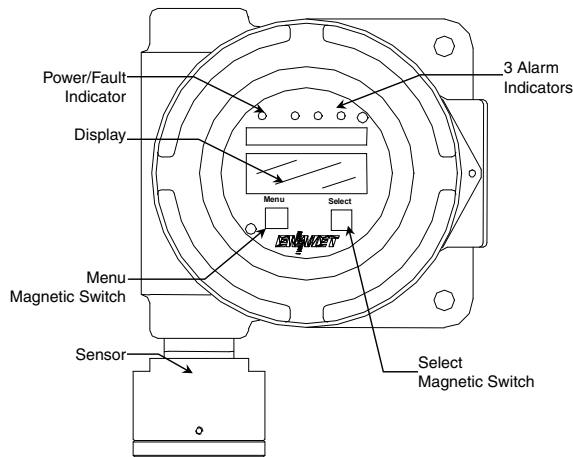


EX-5175

Explosionproof Sensor/Transmitter For H₂, O₂, CO, H₂S and Other Toxic Gases

FEATURES

- Three Alarm LEDs
- 24 VDC, 4-20 mA
- NEMA 4X, NEMA 7 and IP66 Rated Enclosure
- Liquid Crystal Display
- Non-Intrusive Calibration
- Approved for Class I, Division 1, Groups B, C, & D



BASIC SPECIFICATIONS

- Voltage:** 24 VDC powered
- Output:** 4-20 mA
- Display:** Backlit LCD
- Alarm Indicators:** 3 LEDs at programmable set points
- Menu/Calibration:** Magnet-actuated switches
- Sensor Type:** Electrochemical Cell
- Installation:** 3-wire
- Connection:** 1/2 inch NPT, conduit
- Weight:** 5.5 lbs (2.5 Kg)
- Approvals:**
Approved for Class I, Div. 1, Groups B,C, & D



THE EX-5175 IS AVAILABLE FOR:

GAS	RANGE
Ammonia, NH ₃	100 ppm
Carbon monoxide, CO	500 ppm
Hydrogen, H ₂	2000 ppm
Hydrogen sulfide, H ₂ S	100 ppm
Nitric oxide, NO	100 ppm
Nitrogen dioxide, NO ₂	30.0 ppm
Oxygen, O ₂ (% by volume)	30.0 %
Sulfur dioxide, SO ₂	30.0 ppm

The EX-5175 Series Sensor/Transmitters utilize electrochemical type cells to detect the target gas. These cells consist of electrodes, electrolyte and an air/liquid separation barrier. Gas molecules enter the cell and, as a result of an oxidation/reduction reaction, generate an electrical current proportional to the gas concentration. This current is measured, conditioned, converted to the gas concentration, digitally displayed and transmitted as a 4-20 mA output signal. ENMET offers a variety of multi-channel controller/alarm modules that provide the 24 VDC power and receive the 4-20 mA signal from the sensor/transmitters. These sensor/transmitters can also be connected to various computer-based instrumentation, PLCs, etc.



EX-5175 Explosionproof Sensor/Transmitter For H₂, O₂ & Toxic Gases

SPECIFICATIONS

Gas	Range PPM	LED Alarms, PPM	LDL PPM*	Typical Sensor Life
Ammonia, NH ₃	100	25, 50, 75	6	1 year
Carbon monoxide, CO	500	35, 50, 200	4	2-3 yrs
Hydrogen, H ₂	2000	200, 500, 1000	24	1-2 yrs
Hydrogen sulfide, H ₂ S	100	10, 20, 50	4	2-3 yrs
Nitric oxide, NO	100	25, 50, 75	4	1-2 yrs
Nitrogen dioxide, NO ₂	30.0	3, 5, 10	1.2	1-2 yrs
Oxygen, O ₂ (% by vol.)	30.0%	17, 19.5, 23.5%	0.2%	1.5-2 yrs
Sulfur dioxide, SO ₂	30.0	2, 5, 10	0.8	1-2 yrs

*Lower Detectable Limit calculated from baseline noise level, thermal drift and interference data used to derive zero point deviation estimates

Sensor: Electrochemical cell, disposable, plug-in type

Temperature Range: -4° to 104° F (-20° to 40° C)

Humidity Range: 5 to 90% rH, non-condensing

Pressure Range: Atmospheric ± 10%

Display: 8-character, single-line, backlit LCD

Alarm Indicators: 3 LEDs at programmable set points

Menu/Calibration: Magnet-actuated switches

Installation: 3-wire, typically 16 to 20 AWG, depending upon distance
Max. loop resistance: 300 ohms @24 VDC
Typical installation wire: 18 AWG (0.8 mm²)

Sensor Location from Controller: Up to 2,000 feet (600 m)
Consult factory for greater distance

Voltage: 24 VDC powered

Output: 4-20 mA

Current Draw: 45 mA maximum

Connection: 1/2 inch NPT, conduit

Weight: 5.5 lbs (2.5 Kg)

Materials: Transmitter Enclosure: Polyester Coated Aluminum.
Sensor Enclosure: Stainless Steel

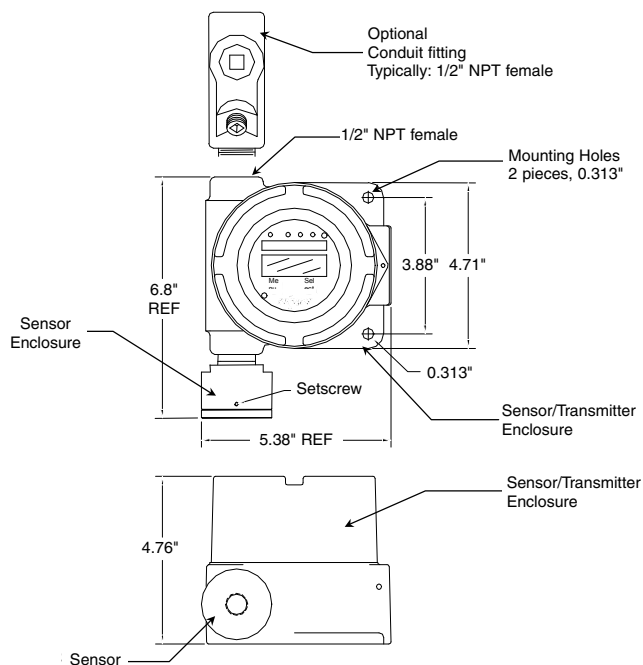
Approvals:

Approved for Class I, Div. 1, Groups B,C, & D

Classified to:

UL 916 (3rd ed.) and UL 1203 (4th ed.)

CSA 22.2, No. 0-M91, 30-M1986 and 142-M1987



ORDERING INFORMATION

Sensor/Transmitter supplied with magnet and instruction manual

Description	Part Number
EX-5175 Sensor/Transmitter, H ₂ S.....	10014-0200
EX-5175 Sensor/Transmitter, SO ₂	10014-0500
EX-5175 Sensor/Transmitter, O ₂	10014-1100
EX-5175 Sensor/Transmitter, CO.....	10014-1200
EX-5175 Sensor/Transmitter, H ₂ , 0-2000 ppm.....	10014-1500
EX-5175 Sensor/Transmitter, H ₂ , 0-9999 ppm.....	10014-1503
EX-5175 Sensor/Transmitter, NO ₂	10014-1700
EX-5175 Sensor/Transmitter, NO.....	10014-1750
EX-5175 Sensor/Transmitter, NH ₃	10014-2400

Replacement Parts & Accessories

Replacement Magnet.....	50030-001
Instruction Manual.....	80003-099
Optional Splash Guard.....	04546-004
Optional Sealing Fitting.....	73152-000

Replacement Sensors— See Price List

Calibration Equipment

Gas Regulator Assembly for 34 liter aluminum gas cylinders.....	02506-002
Gas Regulator Assembly for 34 liter steel gas cylinders.....	02506-004
Calibration Adapter for Sensor.....	03700-034
Case – Holds Calibration Hardware and up to two 34 liter gas cylinders.....	73083-000

Calibration Gas Cylinders — See Price List

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



Specifications subject to change without notice