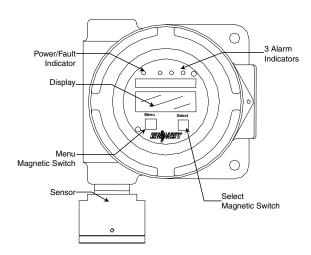


Explosion proof Sensor/Transmitter For H_2 , O_2 , CO, H_2S and Other Toxic Gases

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 minimum, loop 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 loop 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

| | Range | LED | LDL | Typical |
|------------------------------------|-------|-----------------|------|-------------|
| Gas | PPM | Alarms, PPM | PPM* | 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 | 8.0 | 1-2 yrs |

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

Electrochemical cell, disposable, plug-in type Sensor:

Temperature Range: -4° to 104° F (-20° to 40° C) **Humidity Range:** 5 to 90% rH, non-condensing

Pressure Range: Atmospheric ± 10%

8-character, single-line, backlit LCD Display: 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 Up to 2.000 feet (600 m)

from Controller: Consult factory for greater distance

24 VDC minimum, Loop powered Voltage:

4-20 mA Output:

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:

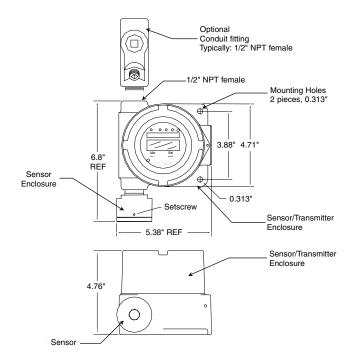
Approved for Class I, Div. 1, Groups B,C, & D

Classified to:

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

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

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



ORDERING INFORMATION

Sensor/Transmitter supplied with magnet and instruction manual

| Description | Part Number |
|---|--------------|
| EX-5175 Sensor/Transmitter, CO | . 10014-1200 |
| EX-5175 Sensor/Transmitter, H ₂ S | 10014-0200 |
| EX-5175 Sensor/Transmitter, 0_2^{-} | 10014-1100 |
| EX-5175 Sensor/Transmitter, NH ₃ | |
| EX-5175 Sensor/Transmitter, SO ₂ | . 10014-0500 |
| EX-5175 Sensor/Transmitter, H ₂ | 10014-1500 |
| EX-5175 Sensor/Transmitter, NO ₂ | 10014-1700 |
| EX-5175 Sensor/Transmitter, NO | . 10014-1750 |
| Replacement Parts & Accessories | |
| Replacement Magnet | 50030-001 |
| Instruction Manual | |
| Optional Sealing Fitting | 73152-000 |
| Replacement Sensors— See Price List | |
| Calibration Equipment | |
| Gas Regulator Assembly for 17 liter Cylinders | 02506-004 |
| Gas Regulator Assembly for 34 liter Cylinders | |
| Calibration Adapter for Sensor | |

| Gas Regulator Assembly for 17 liter Cylinders | . 02506-004 |
|--|-------------|
| Gas Regulator Assembly for 34 liter Cylinders | . 02506-002 |
| Calibration Adapter for Sensor | .03700-034 |
| Case – Holds Calibration Hardware and up to two 34 liter | 73083-000 |
| or two 17 liter Gas Cylinders | |

Case – Holds Calibration Hardware and up to four 17 liter...73083-002 Gas Cylinders, or two 58 liter Gas Cylinders

Calibration Gas Cylinders — See Price List



Specifications subject to change without notice

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