

EX-5175

Explosionproof Remote Gas Monitoring Sensor Transmitter for H₂, O₂, CO, H₂S and Other Toxic Gases



PRODUCT HIGHLIGHTS

- Electrochemical sensor
- Three alarm LEDs
- 24 VDC, 4-20 mA
- NEMA 4X, NEMA 7 and IP66 rated enclosure
- Non-intrusive calibration
- Approved for Class I, Division 1, Groups B, C & D

EX-5175 remote gas monitoring sensor transmitter 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,

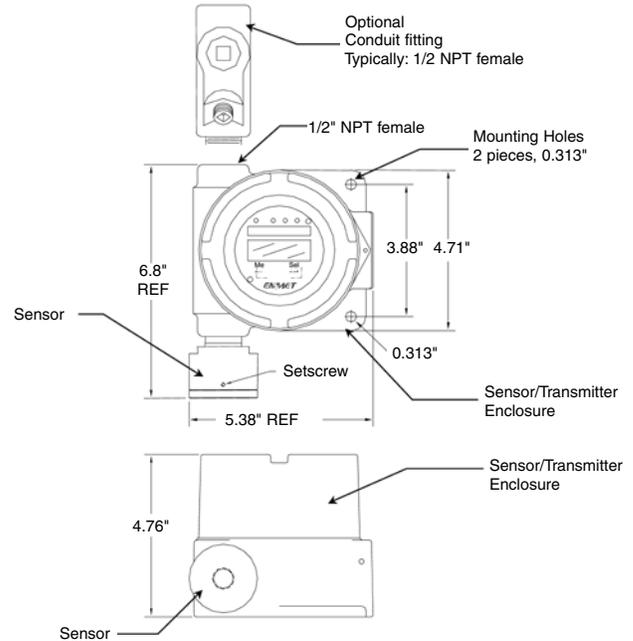
digitally displayed and transmitted as a 4-20 mA output signal. The EX-5175 sensor transmitter operates on 24 VDC power and features three LED alarm point indicators and 4-20 mA output. This sensor transmitter can be connected to various single and multi-channel ENMET controllers or computer-based instrumentation, such as PLCs, SCADAs, BMSs, etc.

EX-5175

GENERAL SPECIFICATIONS

Sensor Type:	Electrochemical Cell
Display:	Backlit LCD
Alarm Indicators:	3 LEDs at programmable set points
Menu/Calibration:	Magnet-actuated switches
Voltage:	24 VDC powered
Output:	4-20 mA
Installation:	3-wire
Connection:	1/2 inch NPT, conduit
Temperature Range:	-4 to +104°F (-20 to +40°C)
Weight:	5.5 lbs (2.5 Kg)
Approvals:	Class I, Division 1, Group B, C, D
Classified to:	UL 916 and UL 1203 CSA C22.2, No. 0-10, 30-M1986 and 142-M1987

DIMENSIONS



ORDERING INFORMATION BY GAS

EX-5175 Sensor Transmitter, factory calibrated, supplied with calibration magnet and manual:

Gas	Range PPM	LED Alarms, PPM	LDL* PPM	Typical Sensor Life	Part No.
Ammonia, NH ₃	100	25, 50, 75	6	1 year	10014-2400
Carbon monoxide, CO	500	35, 50, 200	4	2-3 yrs	10014-1200
Hydrogen, H ₂ , 0-2000 ppm	2000	200, 500, 1000	24	1-2 yrs	10014-1500
Hydrogen, H ₂ , 0-9999 ppm					10014-1503
Hydrogen sulfide, H ₂ S	100	10, 20, 50	4	2-3 yrs	10014-0200
Nitric oxide, NO	100	25, 50, 75	4	1-2 yrs	10014-1750
Nitrogen dioxide, NO ₂	30.0	3, 5, 10	1.2	1-2 yrs	10014-1700
Oxygen, O ₂ (% by vol.)	30.0%	17, 19.5, 23.5%	0.2%	1.5-2 yrs	10014-1100
Sulfur dioxide, SO ₂	30.0	2, 5, 10	0.8	1-2 yrs	10014-0500

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

Calibration Equipment and Accessories

Sampling/Calibration Adapter for EX-5175 Sensor/Transmitters	03700-034
Gas Regulator Assembly for 34 liter aluminum gas cylinders	02506-002
Gas Regulator Assembly for 34 liter steel gas cylinders	02506-004
Optional Splash Guard for EX-5175	04546-004
Optional Sealing Fitting	73152-000
Replacement Magnet	50030-001

Replacement sensor and calibration gas ordering specifications are gas/calibration dependent; consult ENMET



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