

## SE-5175

Remote Gas Monitoring Sensor Transmitter for H<sub>2</sub>, O<sub>2</sub>, CO, H<sub>2</sub>S and Other Toxic Gases



### PRODUCT HIGHLIGHTS

- Electrochemical sensor
- Three alarm LEDs
- 24 VDC, 4-20 mA
- Fiberglass reinforced polyester enclosure
- Stainless steel sensor head

SE-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,

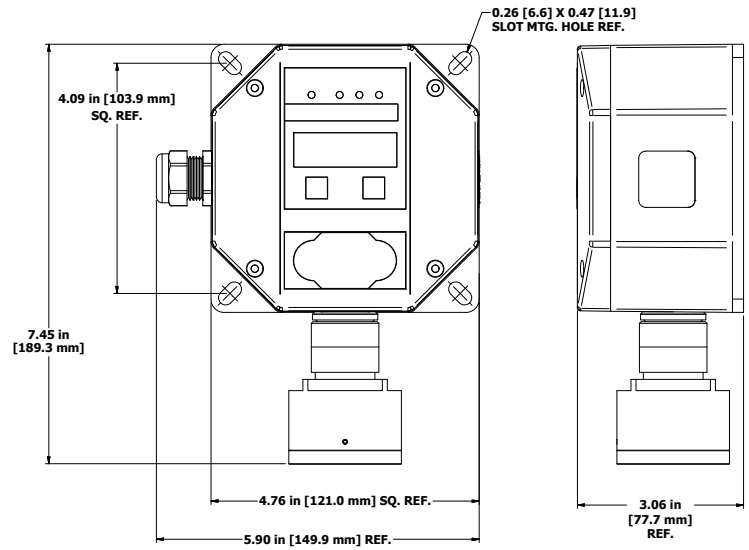
digitally displayed and transmitted as a 4-20 mA output signal. The SE-5175 sensor transmitter operates on 24 VDC power and features three LED alarm point indicators, 4-20 mA output and optional alarm relay board. This sensor transmitter can be connected to various single and multi-channel ENMET controllers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

# SE-5175

## GENERAL SPECIFICATIONS

<b>Sensor Type:</b>	Electrochemical Cell
<b>Display:</b>	Backlit LCD
<b>Alarm Indicators:</b>	3 LEDs at programmable set points
<b>Menu/Calibration:</b>	Pushbutton switch actuated
<b>Voltage:</b>	24 VDC powered
<b>Output:</b>	4-20 mA
<b>Installation:</b>	3-wire
<b>Connection:</b>	Cable strain relief (1 supplied)
<b>Temperature Range:</b>	-4 to +104°F (-20 to +40°C)
<b>Enclosure:</b>	Fiberglass reinforced polyester
<b>Sensor Head:</b>	Stainless steel
<b>Weight:</b>	2 lbs (0.9 Kg)
<b>Option:</b>	Audible alarm, 105 dB at 12 inches (30 cm)

## DIMENSIONS



## ORDERING INFORMATION BY GAS

SE-5175 Sensor Transmitter, factory calibrated, supplied with manual:

Gas	Range PPM	LED Alarms, PPM	LDL* PPM	Typical Sensor Life	Part No.
Ammonia, NH <sub>3</sub>	100	25, 50, 75	6	1 year	10032-2400
Carbon monoxide, CO	500	35, 50, 200	4	2-3 yrs	10032-1200
Hydrogen, H <sub>2</sub>	2000	200, 500, 1000	24	1-2 yrs	10032-1500
Hydrogen sulfide, H <sub>2</sub> S	100	10, 20, 50	4	2-3 yrs	10032-0200
Nitric oxide, NO	100	25, 50, 75	4	1-2 yrs	10032-1750
Nitrogen dioxide, NO <sub>2</sub>	30.0	3, 5, 10	1.2	1-2 yrs	10032-1700
Oxygen, O <sub>2</sub> (% by vol.)	30.0%	17, 19.5, 23.5%	0.2%	1.5-2 yrs	10032-1100
Sulfur dioxide, SO <sub>2</sub>	30.0	2, 5, 10	0.8	1-2 yrs	10032-0500

\*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 SE-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 SE-5175	04546-004

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.