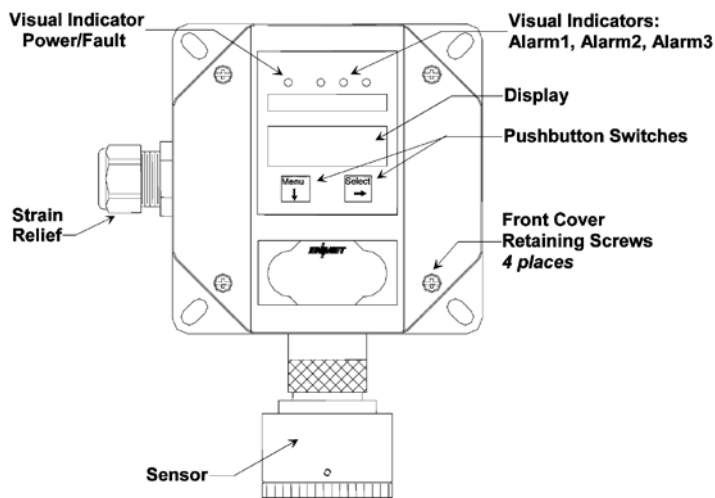


SE-5175

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

FEATURES

- Electrochemical Sensor
- Three Alarm LEDs
- Fiberglass-reinforced Polyester Enclosure
- Stainless Steel Sensor Head
- 24 VDC, 4-20mA
- Liquid Crystal Display



BASIC SPECIFICATIONS

Voltage:	24 VDC powered
Output:	4-20 mA
Display:	Backlit LCD
Alarm Indicators:	3 LEDs at programmable set points
Menu/Calibration:	Pushbutton switch actuated
Sensor Type:	Electrochemical Cell
Installation:	3-wire, shielded cable
Connection:	Cable Strain Relief (1 supplied)
Weight:	2 lbs (0.9 kg)



THE SE-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 SE-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.

SE-5175 Sensor/Transmitter For H₂, O₂, CO, H₂S and Other 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: Pushbutton switch actuated

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

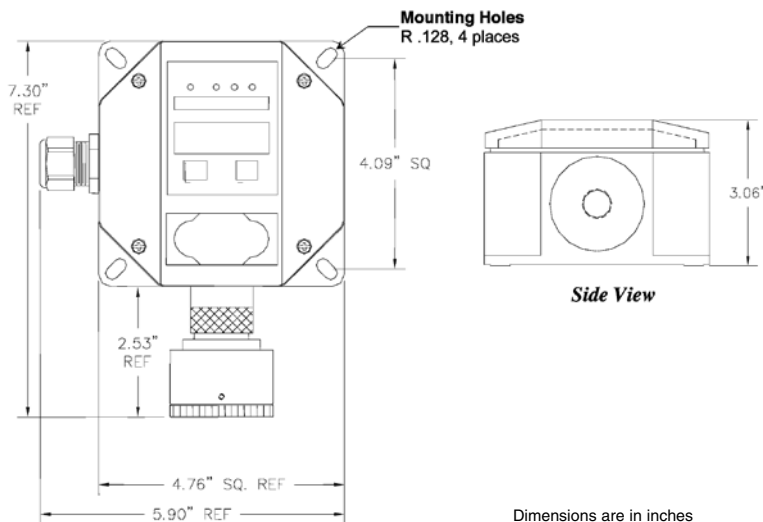
Current Draw: 45 mA maximum

Connection: 3-wire shielded cable, strain relief (1 supplied) for 24 VDC, 4-20 mA, 0.20" to 0.35" (5.1-8.9 mm) OD Cable

Weight: 2 lbs (0.9 kg)

Materials: Transmitter Enclosure: : Fiberglass-reinforced polyester
Sensor Head: Stainless Steel

Option: Audible Alarm 105 dB at 12 inches (30 cm)



ORDERING INFORMATION

Sensor/Transmitter supplied with instruction manual

Description	Part Number
SE-5175 Sensor/Transmitter, CO.....	10032-1200
SE-5175 Sensor/Transmitter, H ₂ S.....	10032-0200
SE-5175 Sensor/Transmitter, O ₂	10032-1100
SE-5175 Sensor/Transmitter, NH ₃	10032-2400
SE-5175 Sensor/Transmitter, SO ₂	10032-0500
SE-5175 Sensor/Transmitter, H ₂	10032-1500
SE-5175 Sensor/Transmitter, NO ₂	10032-1700
SE-5175 Sensor/Transmitter, NO.....	10032-1750

Calibration Equipment

Gas Regulator Assembly for 34 liter steel cylinders.....	02506-004
Gas Regulator Assembly for 34 liter aluminum cylinders.....	02506-002
Calibration Adapter for Sensor.....	03700-034
Case – Holds Calibration Hardware and up to two 34 liter gas cylinders.....	73083-000
Instruction Manual.....	80003-162

For calibration gas cylinders and replacement sensors see product Price List.

Specifications subject to change without notice



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