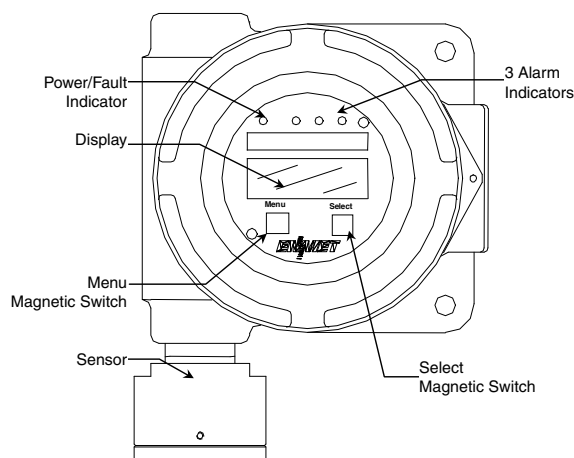


EX-5130

Sensor/Transmitter For Reactive Gases In Hazardous Locations

FEATURES

- Three Alarm LEDs
- 24 VDC, 4-20 mA
- NEMA 4X and NEMA 7 Transmitter Enclosure
- Liquid Crystal Display
- Non-intrusive Calibration
- Designed 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)
- Design:** Explosionproof transmitter enclosure, with sensor connected to internal intrinsic safety barrier



THE EX-5130* IS AVAILABLE FOR:

GAS	RANGE
Arsine, AsH ₃	0.50 ppm
Bromine, Br ₂	10.0 ppm
Chlorine, Cl ₂	10.0 ppm
Ethylene oxide, ETO	10.0 ppm
Hydrogen bromide, HBr	30.0 ppm
Hydrogen chloride, HCl	30.0 ppm
Hydrogen fluoride, HF	10.0 ppm
Ozone, O ₃	1.00 ppm

The EX-5130 Series Sensor/Transmitters utilize electrochemical type cells to detect the target gas. These cells consist of electrodes, electrolyte and an air/liquid separation barrier. To enable the reactive gases to reach the sensor, the normal sintered metal disk is removed from in front of the sensor. The sensor is connected to an internal intrinsic safety 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 venturi-type gas samplers and 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 systems can also be connected to various computer-based instrumentation, PLCs, etc.

* It is recommended that a gas sampler be used with the sensor/transmitter for detecting these gases.



EX-5130 Sensor/Transmitter For Reactive Gases In Hazardous Locations

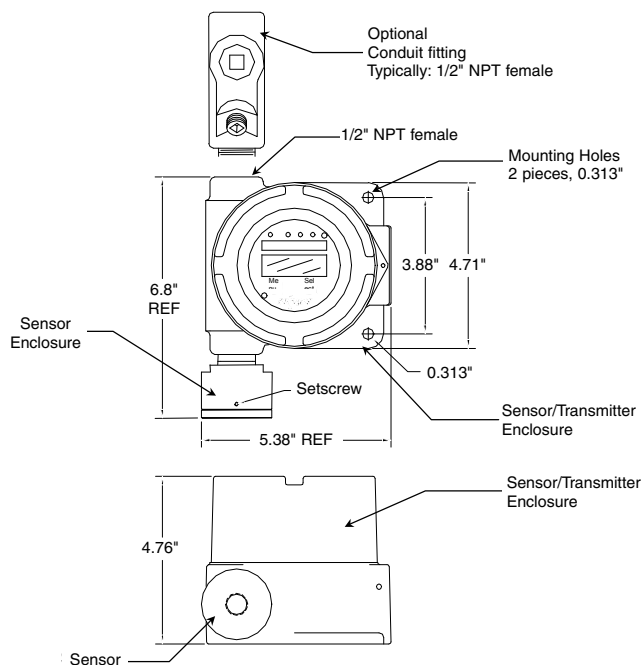
SPECIFICATIONS

Gas	Range PPM	LED Alarms, PPM	LDL (1) PPM	Typical Sensor Life
Arsine, AsH ₃ (2)	0.50	0.05, 0.1, 0.4	0.04	1-1.5 yrs
Bromine, Br ₂ (2)	10.0	0.5, 1, 5	0.4	1-2 yrs
Chlorine, Cl ₂ (2)	10.0	0.5, 1, 5	0.4	1-2 yrs
Ethylene oxide, ETO (3)	10.0	3, 5, 9	1.2	1-2 yrs
Hydrogen bromide, HBr (2)	30.0	5, 10, 20	0.8	1-2 yrs
Hydrogen chloride, HCl (2)	30.0	5, 10, 20	0.8	1-2 yrs
Hydrogen fluoride, HF (3)	10.0	3, 6, 9	0.8	1-1.5 yrs
Ozone, O ₃ (3)	1.00	0.1, 0.5, 0.75	0.04	1-1.5 yrs

- (1) Lower Detectable Limit calculated from baseline noise level, thermal drift and interference data used to derive zero point deviation estimates.
- (2) For best performance, it is recommended that a sample draw system be used for monitoring these gases.
- (3) Monitoring of these gases requires the use of a sample draw system.

- 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:** Up to 2,000 feet (600 m) from controller;
Consult factory for greater distance
- Voltage:** 24 VDC minimum, Loop 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
- Design:** Transmitter enclosure is approved for Class I, Div. 1, Groups B,C, & D
The electrochemical sensor is connected to an internal intrinsic safety barrier.

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-5130 Sensor/Transmitter, AsH ₃	See note..... 10013-4001
EX-5130 Sensor/Transmitter, Br ₂	See note..... 10013-0100
EX-5130 Sensor/Transmitter, Cl ₂	See note..... 10013-0100
EX-5130 Sensor/Transmitter, ETO.....	See note..... 10013-5200
EX-5130 Sensor/Transmitter, HBr.....	See note..... 10013-0400
EX-5130 Sensor/Transmitter, HCl.....	See note..... 10013-0400
EX-5130 Sensor/Transmitter, HF.....	See note..... 10013-0700
EX-5130 Sensor/Transmitter, O ₃	See note..... 10013-0800

NOTE: Gas samplers— contact ENMET

Replacement Parts & Accessories

Sensor Sampling Adapter.....	03700-034
Replacement Magnet.....	50030-001
Instruction Manual.....	80003-093
Optional Sealing Fitting.....	73152-000

Replacement Sensors — See Price List

Calibration Equipment — See Price List

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

Calibration Gas Cylinders, Ozone Generator and HF Permeation Tube Kits — See Price List

Specifications subject to change without notice

