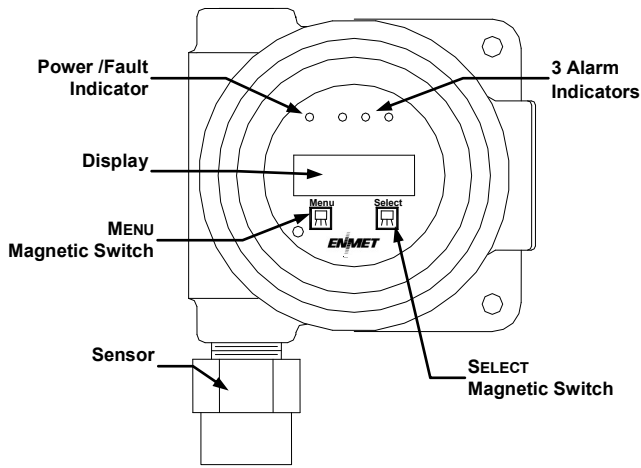


# EX-5150-MOS

## SENSOR/TRANSMITTER FOR % LEL or PPM Hydrocarbons and Organic Solvents

### FEATURES

- Solid-State Sensor
- Explosionproof Design
- NEMA-4X Enclosure
- 4-20 mA Output
- Liquid Crystal Display
- Non-Intrusive Calibration



### Examples of Some Typical Calibrations

TOXIC		COMBUSTIBLE	
Gas/Vapor	Range	Gas/Vapor	Range
Acetone	2000 ppm	Acetone	50% LEL
Ammonia	300 ppm	Isopropyl alcohol	50% LEL
Methyl alcohol	400 ppm	Propane	50% LEL
Methyl chloride	200 ppm	Butane	50% LEL
Toluene	400 ppm	Toluene	50% LEL
MEK	400 ppm	Gasoline	50% LEL
Styrene	200 ppm	Styrene	50% LEL
Methylene chloride	200 ppm	Methane	50% LEL
Xylene	400 ppm	Xylene	50% LEL

In general, the EX-5150-MOS can be calibrated for Combustible Hydrocarbons, Halogenated Hydrocarbons, Jet Fuels, Refrigerants, Organic Solvents, Esters, Ethers, Alcohols, Ketones, some common inorganic compounds, such as, CO, H<sub>2</sub>S, and certain other compounds and mixtures.

### Metal Oxide Semiconductor (MOS) Sensor

An MOS sensor consists of a heated mixed metal oxide element that decreases in resistance in the presence of many gases and vapors. These sensors are broad range in their response characteristics. Different types of MOS sensors are available which can be optimized for a particular gas, but they are inherently non-specific.

The MOS sensor can provide monitoring capability similar to that of the classic catalytic bead or hot-wire sensor, but it can be calibrated for either % LEL or ppm detection levels of a wide range of hydrocarbons and organic solvents. The MOS sensor can also be used for detecting certain common inorganic toxic gases, including NH<sub>3</sub>, CO, H<sub>2</sub>S, etc.

MOS sensors operate at lower temperatures than catalytic bead/hot-wire sensors, which makes them less prone to poisoning. The MOS sensor is therefore the sensor of choice in applications where, for example, lead, phosphates or sulfur-containing compounds are present. Silicones, which are used in a wide range of oils, lubricants, adhesives, and many other products, can poison hot-wire sensors and also influence the performance of MOS sensors under certain conditions.

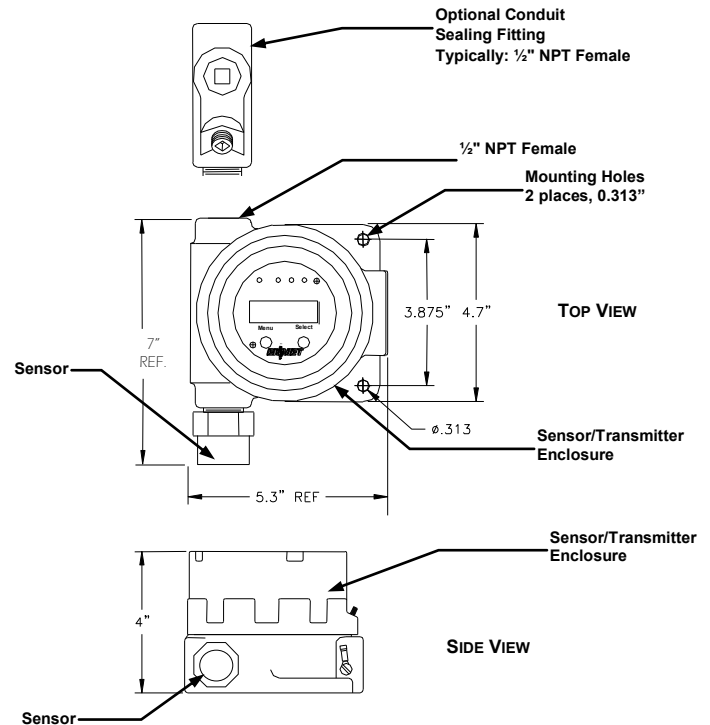


# EX-5150-MOS

Sensor/Transmitter for % LEL or PPM  
Hydrocarbons & Organic Solvents

## SPECIFICATIONS

<b>Power Requirement:</b>	24 VDC
<b>Output:</b>	4-20 mA
<b>Installation:</b>	3-wire, typically 16 to 18 AWG, depending upon distance
<b>Connection:</b>	1/2 inch NPT, conduit
<b>Display:</b>	8-character, single-line, backlit LCD
<b>Alarm Indicators:</b>	LEDs
<b>Menu/Calibration:</b>	Magnet actuated switches
<b>Sensor:</b>	Metal Oxide Semiconductor (MOS)



## RELATED PRODUCTS

### CONTROLLERS:



LC-8, 8-Channel Controller Shown

Various controllers, from 1-8 channels are available from ENMET. Controllers supply 24 VDC power for sensor/transmitters, and they provide central audio/visual alarms, digital displays, digital and analog outputs, and alarm relays.

### GAS SAMPLERS:

The use of a sample draw system generally improves the performance of all sensor/transmitters, and is required for some gases. ENMET offers both 24 VDC powered samplers, and Venturi type pumps for use in hazardous locations.

**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

Description	Part Number
EX-5150-MOS Sensor/Transmitter	10014-008

### Options, Accessories & Replacement Parts

Optional Sealing Fitting	73152-000
Optional Alarm Relay PCB	05006-002
Optional Splash Guard	04546-006
Optional Sampling Adapter	03045-000
Replacement Magnet	50030-001
Instruction Manual	80003-097

### Calibration Equipment

Complete Assembly includes Calibration Adapter, Humidifier and Regulator for 34 liter steel gas cylinders ( for gases other than Toluene & Ammonia)	03700-001
Complete Assembly includes Calibration Adapter, Humidifier and Regulator for 34 liter aluminum gas cylinder, Toluene (see P/N 03386-100 below)	03700-009
Calibration Gas, 34 liter aluminum cylinder, 100 ppm Toluene, C7H8	03386-100
Case – Holds Calibration Hardware & up to two 34 liter Gas Cylinders	73083-000

**Additional Calibration Gas Cylinders — See Price List**

Specifications subject to change without notice

