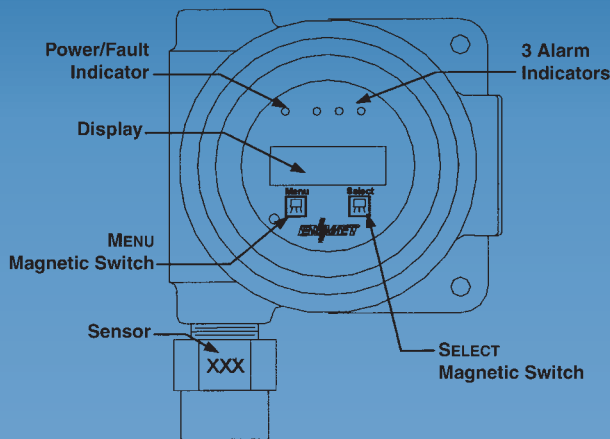


EX-5150-MOS

SENSOR/TRANSMITTER For 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	100% LEL
Ammonia	300 ppm	Isopropyl alcohol	100% LEL
Methyl alcohol	400 ppm	Propane	100% LEL
Methyl chloride	200 ppm	Vinyl acetate	100% LEL
Toluene	400 ppm	Toluene	100% LEL
MEK	400 ppm	Gasoline	100% LEL
Styrene	100 ppm	Butane	100% LEL
R-134A	1000 ppm	Methane	100% LEL
HFE-7100	100 ppm	Hydrogen	100% LEL
Methylene chloride	200 ppm	Hexane	100% LEL
Xylene	400 ppm	Xylene	100% LEL

In general, the EX-5150-MOS can be calibrated for Combustible Hydrocarbons, Halogenated Hydrocarbons, Jet Fuels, Refrigerants, Organic Solvents, Esters, Ethers, Alcohols, Ketones, CO, H₂S, and other compounds and mixtures.



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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 toxic gases, including NH₃, CO, H₂S, 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. Applications for monitoring of hydrogen and hydrocarbon gases where silicones are present in the environment should be discussed with ENMET.

EX-5150-MOS

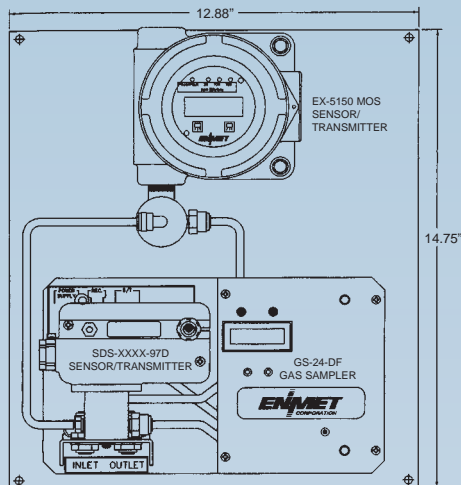
SENSOR/TRANSMITTER For PPM Hydrocarbons & Organic Solvents

SPECIFICATIONS

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

OPTIONS & RELATED PRODUCTS

GAS SAMPLERS:



Numerous sample draw options are offered, including venturi and 24 Vdc pumps. The system shown above has two sensor/transmitters, SDS-XXXX-97D and EX-5150-MOS.

CONTROLLERS:

MX-32, MX-42A, MX-48 and MX-52
 Controllers are available, 1 to 16 Channels.

TOXIC GAS SENSOR/TRANSMITTER:

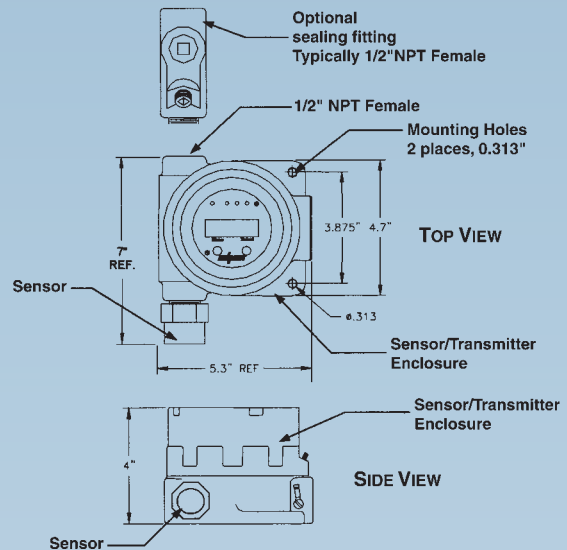
SDS-XXXX-97D Series Sensor/Transmitters are available for monitoring oxygen and a wide range of toxic gases.

COMBUSTIBLE SENSOR/TRANSMITTER:

The EX-5100 utilizes a pellistor/catalytic sensor for % LEL hydrocarbons.

INFRARED SENSOR/TRANSMITTER:

The IR-6000 is an infrared based sensor/transmitter for % LEL hydrocarbons.



ORDERING INFORMATION

Description	Part Number
EX-5150-MOS, HV (Calibration Dependent).....	10014-008
EX-5150-MOS, LV (Calibration Dependent).....	10014-009
Replacement Magnet.....	50030-001
Instruction Manual.....	80003-097
Optional Sealing Fitting.....	73152-000
Optional Relay PC Board.....	05006-001

Replacement Sensor - Check Manual

Sensor, HV, Fluorocarbons/Refrigerants.....	03032-830
Sensor, HV, Fluorocarbons/Refrigerants.....	03032-832
Sensor, HV, Fluorocarbons/Refrigerants.....	03033-018
Sensor, HV, NH3.....	03033-019
Sensor, LV.....	03033-109
Sensor, HV.....	03033-812
Sensor, HV.....	03033-813

Calibration Equipment

Calibration Adapter, Humidifier and Regulator for 17 liter Gas Cylinders, for gases other than Toluene & Ammonia	03700-001
Calibration Adapter, Humidifier and Regulator for 17 liter Gas Cylinders, Toluene.....	03700-005
Calibration Adapter, Humidifier and Regulator for 58 liter Gas Cylinders, NH3 (See P/N 03230-300, 300/200ppm)..	03700-009

Case - Holds Calibration Hardware and up to two 34 liter or two 17 liter Gas Cylinders.....	73083-000
Case - Holds Calibration Hardware and up to four 17 liter Gas Cylinders, or two 58 liter Gas Cylinders.....	73083-002

Calibration Gas Cylinders — See Price List

SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE

