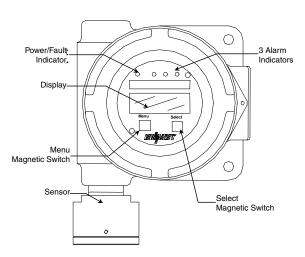
EX-5120

Infrared Hydrocarbon Sensor/Transmitter

FEATURES

- **Infrared Sensor**
- **Three Alarm LEDs**
- NEMA 4X, NEMA 7 and **IP66 Rated Enclosure**
- 24 VDC, 4-20 mA
- **Immune to Poisoning**
- **Operates in Anaerobic Atmospheres**
- **Minimal Maintenance**

- **Liquid Crystal Display**
- **Non-intrusive Calibration**
- **Designed for Class I,** Division 1, Groups B, C, & D
- **Non-contact Sensor Technology**
- **Operates in Continuous Hydrocarbon Environment**
- **■** Long-term Stability



EXAMPLES of Some Typical Calibrations

Gas/Vapor	Range: % Vol.	Range: % LEL
Methane, CH ₄	0-5.0	0-100
Methane, CH ₄	0-100	_
Propane, C ₃ H ₈	0-2.1	0-100
Propane, C ₃ H ₈	0-100	_
Propylene, C ₃ H ₆	0-2.0	0-100
Butane, C ₄ H ₁₀	0-1.6	0-100
Pentane, C ₅ H ₁₂	0-1.5	0-100
Ethane, C ₂ H ₆	0-3.0	0-100

Some other calibrations (% by volume) available:

Ethylene	0-3%	Ethanol	0-5%
Isopropanol	0-2%	ETO	0-3%
Hexane	0-1%	Acetic acid	0-4%
Methanol	0-5.5%	Toluene	0-1.1%

Also, Methyl bromide, CH₃Br, 0-25,000 ppm.



Description/Operation

The EX-5120 incorporates a sensor that operates on the NDIR principle to monitor the concentration of hydrocarbon gas. It can be calibrated for a specific gas, such as methane, but it also responds to some other hydrocarbon gases, including propane, butane, etc. The sensor features an integral semiconductor for temperature compensation, a durable tungsten filament IR light source, filter and a dual temperature-compensated pyroelectric infrared detector.

The EX-5120 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 ENMET controllers or computer-based instrumentation, such as PLCs, etc.



EX-5120 Infrared Hydrocarbon Sensor/Transmitter

SPECIFICATIONS

24 VDC powered Voltage:

Output: 4-20 mA

Installation: 3-wire, typically 16 to 18 AWG.

depending upon distance

Connection: 1/2 inch NPT, conduit **Humidity:** 0-95%rH, non-condensing Temperature Range: -4 to +122°F (-20 to +50°C) Response Time, Ton: <30 seconds, @500 cc/min.

Display: 8-character, single-line, backlit LCD Alarm Indicators: 3 LEDs at programmable set points

Menu/Calibration: Magnet-actuated switches

Infrared (IR) Sensor Type:

Accuracy: ± 2% @68°F, 1 bar, 2.5% CH₄ Performance: ± 2% FSD, or ± 10% of reading to mid-scale, ± 15% of reading from 50 to 100% FSD, whichever is

greater, over range of -4 to +122°F.

IR Sensor:

Approvals & Certifications*

Enclosure:

ATEX certifications: Class I, Groups B, C, D I M2 EExd I Class II. Groups E. F. G. Canelec: EEx d IIC, IP66 II 2 G EEx d IIC

Certifications: IECEx certifications: FM Standard 3615 Ex d I and/or Ex d IIC

CSA Standard C22.2 No. 30

UL Recognized: UL Standard 1203

Class I, Groups A, B, C, D CENELEC EN 50014, 50018

T4 with 60°C ambient

OPTIONS & RELATED PRODUCTS

CONTROLLERS:

CP-10, CP-60 and LC Series Controllers are available, 1 to 8 Channels.

TOXIC GAS SENSOR/TRANSMITTER:

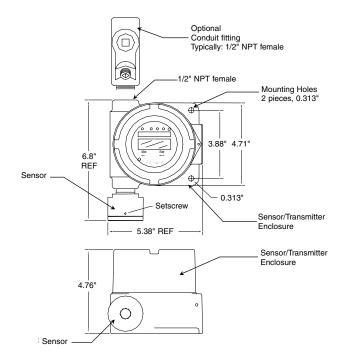
The EX-5175 utilizes electrochemical sensors for oxygen, CO, H₂S and other toxic gases.

MOS SENSOR/TRANSMITTER:

The EX-5155 utilizes a metal oxide semiconductor (MOS) sensor ppm (toxic) level detection of organic solvents and hydrocarbons.

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-5120 Sensor/Transmitter	10014-003
supplied with magnet and instruction manual	

Replacement Parts & Accessories

Replacement Magnet	50030-001
Instruction Manual	80003-092
Sensor Sampling Adapter	03700-034
Optional Splash Guard	04546-004
Optional Sealing Fitting	73152-000
Sensor (gas/calibration dependent, consult ENMET)	03056-XXX

Calibration Equipment

Gas Regulator Assembly for 34 liter steel gas cylinders	02506-004
Also order P/N 03700-034	
Sampling/Calibration Adapter for Sensor	03700-034
Case – Holds Calibration Hardware and up to two	
34 liter Gas Cylinders	73083-000
Calibration Gas, 34 liter steel cylinder, 50%LEL Methane	03220-050
Calibration Gas, 34 liter steel cylinder, 50%LEL Propane	03221-050
Calibration Gas, 34 liter steel cylinder, 50%LEL Butane	03282-050

See Price List for other Calibration Gases

*Approvals and certifications apply to the sensor and enclosure as individual components, not for the combined unit.

Specifications subject to change without notice

P.O. Box 979, Ann Arbor, MI 48106-0979 734-761-1270 FAX: 734-761-3220 www.enmet.com