

EX-5120

Remote Gas Monitoring Sensor Transmitter with Infrared Sensor for Hydrocarbons



PRODUCT HIGHLIGHTS

- Infrared sensor
- Three alarm LEDs
- 24 VDC, 4-20 mA
- NEMA 4X, NEMA 7 and IP66 rated enclosure
- Immune to poisoning
- Non-intrusive calibration
- Designed for Class I, Division 1, Groups B, C & D

EX-5120 remote gas monitoring sensor transmitter 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. This sensor transmitter can operate

in anaerobic atmospheres and in continuous hydrocarbon environments. This unit provides long-term stability and requires minimal maintenance.

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 single and multi-channel ENMET controllers or computer-based instrumentation, such as PLCs, SCADAs, BMSs, etc.

EX-5120

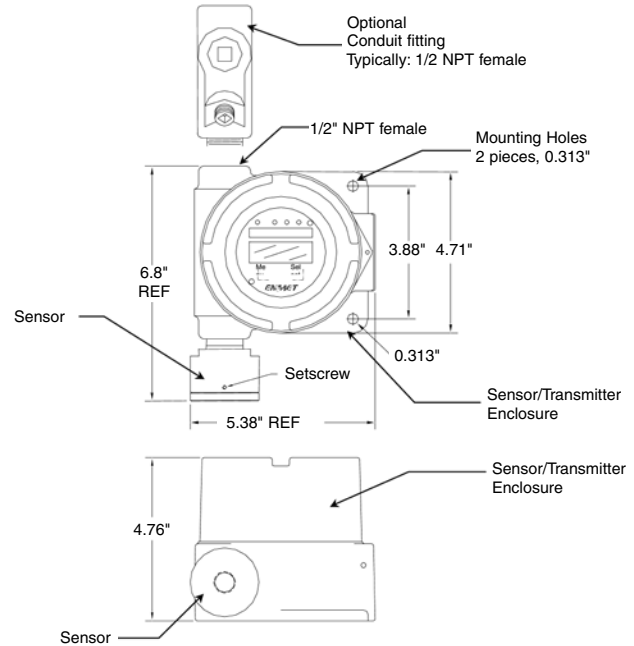
GENERAL SPECIFICATIONS

Sensor Type:	Infrared (NDIR)
Display:	Backlit LCD
Alarm Indicators:	3 LEDs at programmable set points
Menu/Calibration:	Magnet-actuated switches
Voltage:	24 VDC powered
Output:	4-20 mA
Installation:	3-wire
Connection:	1/2 inch NPT, conduit
Humidity Range:	0-95% rH, non-condensing
Temperature Range:	-4 to +122°F (-20 to +50°C)
Weight:	5.5 lbs (2.5 Kg)
Approvals & Certifications*:	
Enclosure:	
Class I, Groups B, C and D; Class II, Groups E, F and G; Class III Type 4X	
Class I, Zone 1, AEx d IIC	
Ex d IIC IEC 60529 IP66	

IR Sensor:
ATEX Approved: Ex I M2, Ex d I Mb and Ex II2 G, Ex d IIX Gb
Certificate No.: Sira 04ATEX1357U

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

DIMENSIONS



ORDERING INFORMATION

Description

EX-5120 Sensor Transmitter, factory calibrated, supplied with calibration magnet and manual
Sampling/Calibration Adapter for EX-5120 Sensor/Transmitters
Gas Regulator Assembly for 34 liter steel gas cylinders (Also order Calibration Adapter P/N 03700-034)
Optional Splash Guard for EX-5120
Optional Sealing Fitting
Replacement Magnet
Replacement sensor and calibration gas ordering specifications are gas/calibration dependent; consult ENMET

Part No.
10014-003
03700-034
02506-004
04546-004
73152-000
50030-001

EXAMPLES OF SOME TYPICAL CALIBRATIONS

Gas/Vapor	Range: % Vol.	Range: % LEL	Gas/Vapor	Range: % Vol.	Range: % LEL
Acetone, (CH ₃) ₂ CO	0-3.0	0-100	Isopropyl alcohol, IPA C ₃ H ₈ O	0-2.0	0-100
Butane, C ₄ H ₁₀	0-2.0	0-100	Methane, CH ₄	0-5.0	0-100
Cyclopentane, C ₅ H ₁₀	0-2.0	0-100	Methane, CH ₄	0-100	—
Chloromethane, (CH ₂ Cl) ₂ O	0-8.0	0-100	Methanol, CH ₃ OH	0-6.0	0-100
Dichloroethane, CHCl ₂ CH ₃	0-12.0	0-100	Methyl alcohol, CH ₃ OH	0-6.0	0-100
Ethane, C ₂ H ₆	0-3.0	0-100	Methyl ethyl ketone, C ₄ H ₈ O	0-2.0	0-100
Ethanol, CH ₃ CH ₂ OH	0-5.0	0-100	Natural Gas	0-5.0	0-100
Ethyl alcohol C ₂ H ₅ OH	0-5.0	0-100	Pentane, C ₅ H ₁₂	0-2.0	0-100
Ethyl Acetate, CH ₃ COOC ₂ H ₅	0-3.0	0-100	Propane, C ₃ H ₈	0-2.0	0-100
Ethylene, C ₂ H ₄	0-3.0	0-100	Propane, C ₃ H ₈	0-100	—
Ethylene oxide, ETO	0-3.0	0-100	Propylene, C ₃ H ₆	0-2.0	0-100
Hexane, C ₆ H ₁₄	0-1.0	0-100	Toluene, C ₇ H ₈	0-2.0	0-100
Isopropanol, C ₃ H ₈ O	0-2.0	0-100	Xylene, C ₈ H ₁₀	0-2.0	0-100
			Also, Methyl bromide, CH ₃ Br, 0-25,000 ppm		

Contact ENMET regarding ranges and custom calibration requirements.

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