Product Information



EX-5120

Infrared Combustible Hydrocarbon Detection



PRODUCT HIGHLIGHTS

- Infrared sensor
- Three alarm LEDs
- 24 VDC, 4-20 mA
- NEMA 4X, NEMA 7, IP66
- · Immune to poisoning
- Non-intrusive calibration
- · Instrinsically Safe

EX-5120 uses a NDIR (Non Dispersive Infrared) sensor to monitor for hydrocarbon gases. NDIR has a key monitoring advantage as it can operate in anaerobic atmospheres. 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 NDIR sensor features an integral semiconductor for temperature compensation, a durable tungsten filament IR light source, filter and a dual temperature-compensated pyroelectric detector. EX-5120 offers the long-term calibration stability of NDIR and threrefore requires less 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.

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

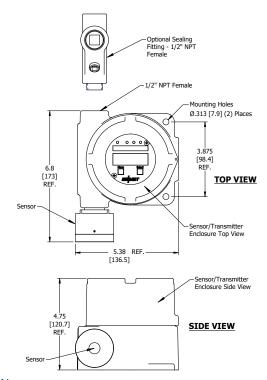
IR Sensor:

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 Part No.

EX-5120 Sensor Transmitter, factory calibrated, supplied with calibration magnet and manual 10014-0

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 10014-003 03700-034 02506-004 04546-004 73152-000 50030-001

TYPICAL CALIBRATIONS

Gas/Vapor	% Vol.	% LEL	Gas/Vapor	% Vol.	% LEL
Acetone	0-3.0	0-100	Isopropyl alcohol, (IPA)	0-2.0	0-100
Butane	0-2.0	0-100	Methane	0-5.0	0-100
Cyclopentane	0-2.0	0-100	Methane	0-100	_
Chloromethane	0-8.0	0-100	Methanol	0-6.0	0-100
Dichloroethane	0-12.0	0-100	Methyl alcohol	0-6.0	0-100
Ethane	0-3.0	0-100	Methyl ethyl ketone	0-2.0	0-100
Ethanol	0-5.0	0-100	Natural Gas	0-5.0	0-100
Ethyl alcohol	0-5.0	0-100	Pentane	0-2.0	0-100
Ethyl Acetate	0-3.0	0-100	Propane	0-2.0	0-100
Ethylene	0-3.0	0-100	Propane	0-100	_
Ethylene oxide	0-3.0	0-100	Propylene	0-2.0	0-100
Hexane	0-1.0	0-100	Toluene	0-2.0	0-100
Isopropanol	0-2.0	0-100	Xvlene	0-2.0	0-100

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.

