

Infrared Single Gas Transmitter, FX-IR™

Unique single gas transmitter with dual infrared technology for the detection of hydrocarbon gases



Key Features

- Dual detector infrared technology to monitor hydrocarbon gases in virtually any environment
- Immune to catalyst poisons such as silicone & chlorinated hydrocarbons
- Can operate in oxygen deficient or inert atmospheres
- Excellent long term stability
- Non-intrusive calibration via a magnetic wand eliminates the need to declassify hazardous areas

The Thermo Scientific Infrared Single Gas Transmitter, FX-IR uses dual infrared technology to detect hydrocarbon gases.

This unique transmitter is calibrated to either hexane, methane, or propane standards in lower explosive limits (LEL) or parts per million (ppm) ranges.

This dual infrared design provides excellent long-term stability, eliminating the need for frequent calibration and providing additional sensitivity for the harshest environment.

Additional features include:

- Housed in a rugged copper-free aluminum enclosure (weather & explosion proof)
- Housing suitable for indoor or outdoor installation in hazardous environment
- Liquid Crystal Display (LCD) with back light
- Minimum five year expected sensor life
- Connect to Thermo's controllers, PLC (Programmable Logic Controllers), or DCS (Distributive Control System)
- Industry standard 4 to 20 mA output
- User friendly - simple to operate

Infrared Single Gas Transmitter, FX-IR™

To maintain optimal product performance, you need immediate access to experts worldwide, as well as priority status when your air quality equipment needs repair or replacement. We offer comprehensive, flexible support solutions for all phases of the product life cycle. Through predictable, fixed-cost pricing, our services help protect the return on investment and total cost of ownership of your Thermo Scientific air quality products.

Product Specifications

Sensor	Dual detector infrared
Analog Output	4-20 mA
Relay Outputs	Optional Local Alarm Relay Module contains three SPDT (Form C) relays housed in a separate explosion-proof junction box. Each relay rated at 10A/30 Vdc, 10A/250 VAC
Accuracy	±5% of reading
Repeatability	±3% of reading
Response Time	60% of full response in 12 seconds
Warm-Up	Less than five minutes
Drift	Less than 5% of full scale/year
Operating Temperature	-22°F to 140°F (-30°C to 60°C)
Humidity	0 to 95% RH, non-condensing
Alarm	Low/High Gas & Sensor Failure Indicator with visual LED
Display	1 x 16 character LCD with backlight
Alarm Delay	User selectable
Controls	Four push-button switches to set up various parameters (range, alarm setting, alarm delay, and alarm latching) Magnetic switch for non-intrusive calibration
Power Consumption	7 watts @ 24 Vdc
Input Power	10-28 Vdc
Dimensions	6.2 in (158 mm) L x 4.6 in (117 mm) H x 10 in (254 mm) W
Weight	5 pounds (2.3 kg)
Case Materials	Aluminum - high impact, chemical, EMI & RFI resistant
Approvals	UL classified for Class I, Division 1, Groups B, C, & D.
Warranty	One year (materials and workmanship)

Gas	Formula	Standard Range
Hexane	C ₆ H ₁₄	0 to 1000 ppm in 10 ppm increments
Hexane	C ₆ H ₁₄	0 to 100% LEL in 1% increments
Methane	CH ₄	0 to 5000 ppm in 50 ppm increments
Methane	CH ₄	0 to 100% LEL in 1% increments
Propane	C ₃ H ₈	0 to 2000 ppm in 20 ppm increments
Propane	C ₃ H ₈	0 to 100% LEL in 1% increments

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This product is manufactured in a plant whose quality management system is ISO 9001 certified.

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