

**FX-IR™**

Infrared single gas transmitter

The FX-IR transmitter 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.

**Optional Accessories**

- Calibration kit
- Local alarm relay module
- Flow through adapter
- Air aspirated sample draw adapter

**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
- 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 backlight
- 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

The FX-IR gas transmitter is part of Thermo's complete gas detection family, which includes single gas portable monitors to multi-point integrated systems. You can be confident that our versatile solutions and worldwide customer support will ensure you maximum productivity.

### 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

Two years (materials and workmanship)

Gas	Formula	Standard Range
Hexane	C <sub>6</sub> H <sub>14</sub>	0 to 1,000 ppm in 10 ppm increments
		0 to 100% LEL in 1% increments
Methane	CH <sub>4</sub>	0 to 5,000 ppm in 50 ppm increments
		0 to 100% LEL in 1% increments
Propane	C <sub>3</sub> H <sub>8</sub>	0 to 2,000 ppm in 20 ppm increments
		0 to 100% LEL in 1% increments

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