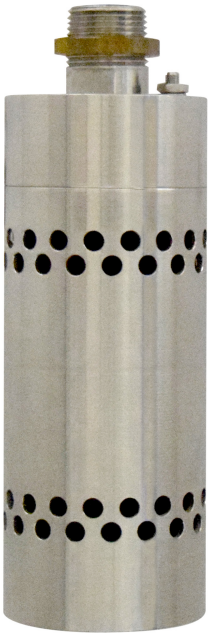
IR-6000

Infrared Hydrocarbon Sensor/Transmitter 0-100% LEL



FEATURES

- Infrared sensing technology
- Low maintenance
- Immune to poisoning
- Designed for harsh environments
- Explosionproof
- Fast response time
- Self-compensating optical bench
- No moving parts
- Heated optical chamber
- Low power consumption
- Operates in constant hydrocarbon background
- Operates in anaerobic atmospheres
- 4 to 20 mA output
- 0 to 100% LEL detection range
- Digital display option available
- Stainless steel construction

DESCRIPTION / OPERATION

The IR-6000 hydrocarbon detector is a single source dual wavelength instrument. The sensing and reference elements are self-compensating for optical integrity and other signal inhibitors. The 4-20 mA analog output can be connected to various single and multi-channel ENMET Controllers available from ENMET. These controllers furnish 24 Vdc power for sensor/transmitters and provide a digital display of gas concentration, audio/visual alarm and relays.

TYPICAL APPLICATIONS

The IR-6000 hydrocarbon detector is designed to be used in the same applications where catalytic bead type combustible gas sensors have been applied. A partial list of example applications would include:

- Refineries
- Gas turbines
- Drilling and production platform
- Chemical plants
- Fuel loading facilities
- Compressor stations
- Oil well logging
- Wastewater treatment facilities
- LNG/LPG processing and storage facilities
- Transportation facilities

ENMET

Creative Gas Detection Solutions

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IR-6000 Sensor/Transmitter

SPECIFICATIONS

Operating Voltage:	24 Vdc (18-32 Vdc)
Current Draw:	210 mA avg, 400 mA peak
Power Consumption:	5 W max.
Analog Output:	4-20 mA
Range:	0-100% LEL
Standard Calibrations:	Methane, Propane and Butane
Other Available Calibrations:	Hexane, Isobutane, Ethane, Octane, Ethanol, Ethylene, Benzene, Methanol, Ethylene oxide, Ethyl benzene, 1-Butene, Toluene, Cyclohexanone, Propylene, Xylene, Cyclohexanol, n-Butane, Heptane, Dimethylpropane

Please note that this list is not all inclusive. The IR-6000 can be calibrated for most hydrocarbons, provided a calibration gas is available. For more information, please contact ENMET.

Accuracy:	± 3% 0 to 50% LEL ± 5% 51 to 100% LEL
Response Time:	T50 < 5 seconds T90 < 10 seconds
Temperature Rating:	- 40°F to + 158°F (- 40°C to + 70°C)
Humidity:	0-99% (non-condensing)
Housing Construction:	316 stainless steel.
Approvals:	CSA
Classification:	Class 1, Div. 1, Groups B, C & D
Ingress Rating:	IP54
Mounting:	3/4" NPT
Size:	6.5" x 2.6" (165 mm x 66 mm)
Weight:	2 lbs. (0.9 kg.)

OPTIONAL CONTROLLERS FOR IR-6000 SENSOR/TRANSMITTERS

ENMET as a variety of controllers designed to facilitate monitoring of many different toxic and combustible gases. Single and multi-channel systems are available.

CONTROLLER FEATURES

- Audio and visual alarms
- 4-20 mA output
- Digital display
- Wall mount
- For 24 Vdc, 2, 3 and 4-wire sensor/transmitters

CONTROLLER MODELS AVAILABLE:

CP-10:	1 Channel
CP-60:	1-3 Channels
LC Series:	1, 2, and 4 Channels
LC-8:	8 Channels

OTHER SENSOR/TRANSMITTERS AVAILABLE FROM ENMET

FEATURES

- 24 Vdc power
- 4-20 mA output
- Electrochemical sensors for toxic gases, H_2 & O_2
- Excellent selectivity
- IR CO_2 sensor

AVAILABLE FOR THESE GASES (PARTIAL LIST):

AsH_3 B_2H_6 Cl_2 ClO_2 CO CO_2 $COCl_2$ ETO HCN HCl HF H_2 H_2S NH_3 NO NO_2 N_2H_4 O_2 O_3 PH_3 SiH_4 SO_2 VCM VOCs F_2 SiH_2Cl_2 HBr BCl_3 SiF_4 WF_6 H_2Se Si_2H_6 Br_2 I_2 NF_3 SF_6 TEOS HCHO

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Specifications subject to change without notice