

HALOGUARD® IR

Maximum Performance Photoacoustic Infrared Monitoring for Conservation Applications



Shown with optional NEMA 4/12 enclosure.

Complete
Submittal Information
Available at:
www.thermalgas.com

Photoacoustic IR Technology Enhances Selectivity & Sensitivity for:

- Refrigeration Equipment
- Machinery Rooms
- Cold Storage Areas
- Process Cooling
- Provides highly selective, very sensitive 1 ppm detection for all refrigerants. Optionally reports oxygen depletion.
- Meets ASHRAE Std. 15, in addition to mechanical, fire & building codes
- Single or multigas
- Single or multipoint sensing
- Alerts service personnel
- Features remote notification
- Upgradeable to newer refrigerants
- Reduces refrigerant loss
- Controls exposure risk

THERMAL GAS *Systems* inc.

Haloguard® Monitors

HALOGUARD® IR

Highly Selective, Very Sensitive 1 ppm Photoacoustic Infrared, 24-hour Refrigerant Leak Detection & Notification

The HALOGUARD® IR combines advanced microprocessor based digital signal processing and a highly selective and sensitive photoacoustic infrared cell to provide the newest, most sensitive system for continuous monitoring of any refrigerant gas.

The HALOGUARD® IR monitors single or multiple, local and remote locations and provides notification when gas concentration reaches preset alarm levels. Add individual, simultaneous monitoring of up to 3 different gases and up to 24 sample points by adding optional channel scanners and remote IR modules.

Alarm relays and analog outputs are designed to activate remote devices or to interface with an energy management (EMS) or building automation (BAS) system.

To find out more, contact Thermal Gas Systems today.

Features

- **Simple installation**
- **Easy field calibration**
- **Up to 500 ft. sample draw**
- **Three user alarms adjustable between 10 ppm & 100% of scale**
- **LCD shows PPM Concentration, Alarm, Test, Reset, and Fault Diagnostics**
- **Three flashing alarm LED's**
- **Fault, Ready & Power ON/OFF LED's**
- **Analog output for BAS/EMS interface or data logging**
- **Four alarm relays for ventilation, damper or remote notification**
- **Alarm Test & Reset/Silence push buttons**
- **High-intensity audible alarm**
- **Rugged enclosure**

Options

- **2, 4 or 8 channel scanner**
- **Remote IR module**
- **Oxygen depletion sensor**
- **Amber strobe light alarm**
- **Remote strobe light & horn alarms**
- **Gas calibration kit**
- **NEMA 4/12 enclosure**

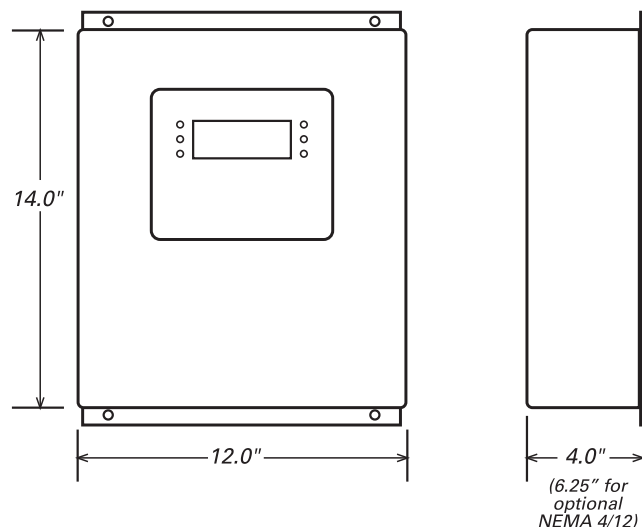
Specifications

Technology.....	Photoacoustic infrared
Electrical Supply.....	115-230V, 50-60Hz, 65W
Fuse	3A/240V, fast acting
Output Signal	Std: 4 x 5A, dry contact relay SPDT Opt: 7 x 5A, dry contact relay SPDT Opt: 0-5 VDC, 4-20mA analog
Sensitivity	1 ppm
Resolution.....	1 ppm
Measuring Range	0 - 1000 ppm all refrigerants
Response Time	<1 minute per channel
Clearing Time	<3 minutes per channel
Maximum Sample Point	
Tubing Length	150' with standard performance. 500' optional where slower response is acceptable.
Operating Conditions ...	30°F to +120°F non-condensing
Enclosure:	Weight:
Std:NEMA 250	20 lbs
Opt: NEMA 4/12 ...	25 lbs
Sample Rate.....	1.0 lpm
Listed to UL 3111-1 and CAN/CSA-C22.2 No. 1010.1-92	



Warranty

HALOGUARD® IR is guaranteed for one year from the date of shipment. Any device found defective in that period will be repaired or replaced free of charge. Read terms and conditions of sale for complete warranty information.



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