

HALOGUARD® IR

Infrared Refrigerant Monitor with Optional 4 or 8 Channel Scanner



Visit our website at:
<http://www.thermalgas.com>



IR Technology Enhances Selectivity & Sensitivity

Central controller monitors remote infrared
modules for...

- Refrigeration Equipment
- Machinery Rooms
- Cold Storage Areas
- Process Cooling

Provides highly selective, very sensitive
PPM detection for R11, 12, 22, 123, and
134a refrigerants.

- Meets ASHRAE Std. 15-1994 & Canada Std. B52-95
- Reduces refrigerant loss
- Protects sensitive inventory
- Alerts service personnel
- Enables scheduled maintenance
- Features remote notification
- Controls exposure risk

THERMAL GAS *Systems* inc.
Haloguard® Monitors

HALOGUARD® IR

Highly Selective, Very Sensitive, 24-hour Refrigerant Leak Detection and Notification

The HALOGUARD® IR combines the HALOGUARD micro-processor based controller and a highly selective and sensitive remote infrared module to provide the newest, most advanced system for detecting the presence of halocarbons.

The HALOGUARD® controller monitors the separate IR module in a remote location and provides both local and remote notification when gas concentration reaches preset alarm levels.

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

To find out more, contact Thermal Gas Systems today.

Features

- **Simple installation**
- **Easy field calibration**
- **Up to 1000 ft. transmission distance**
- **Dual alarm capability**
 - Alarm 1: 10 ppm - 100% scale
 - Alarm 2: 10 ppm - 100% scale
- **Off-scale alarm**
- **LCD shows PPM Concentration, Alarm, Test, Reset, Sensor Fault and Low Battery**
- **Three flashing alarm LED's**
- **Sensor fault LED**
- **Power on/off LED**
- **Analog output for BAS/EMS interface or data logging**
- **Four alarm relays for ventilation, dialer or remote notification**
- **Alarm Test and Reset Silence push buttons**
- **Rugged plastic enclosure**
- **Dependable, solid-state electronics**

Options

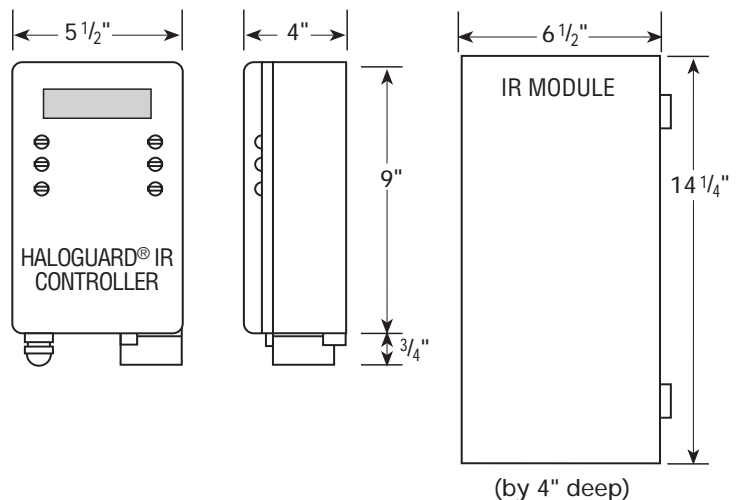
- **4 or 8 channel scanner**
- **Amber strobe light**
- **High-intensity audible alarm**
- **Gas calibration kit**
- **Remote readout panel**
- **TWA integration**
- **Automatic calibration**

Specifications

Electrical Supply	115-230v, 50-60Hz
Output Signal	Std: 4 x 3A, dry contact relay Opt: 0-5VDC, 4-20mA analog
Sensitivity	1ppm
Resolution	1ppm
Range	0 - 1000ppm R11, 12, 22, 123, 134a
Response Time.....	<1 minute
Clearing Time	<3 minutes
Operating Conditions:	
Sensor	40°F to +120°F non-condensing
Controller	0°F to 120°F non-condensing
Enclosures:	
IR Module	NEMA 4/12/13 design
Controller	NEMA 4/12/13 design
Weight:	
IR Module	15 lbs.
Controller	4 lbs.

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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