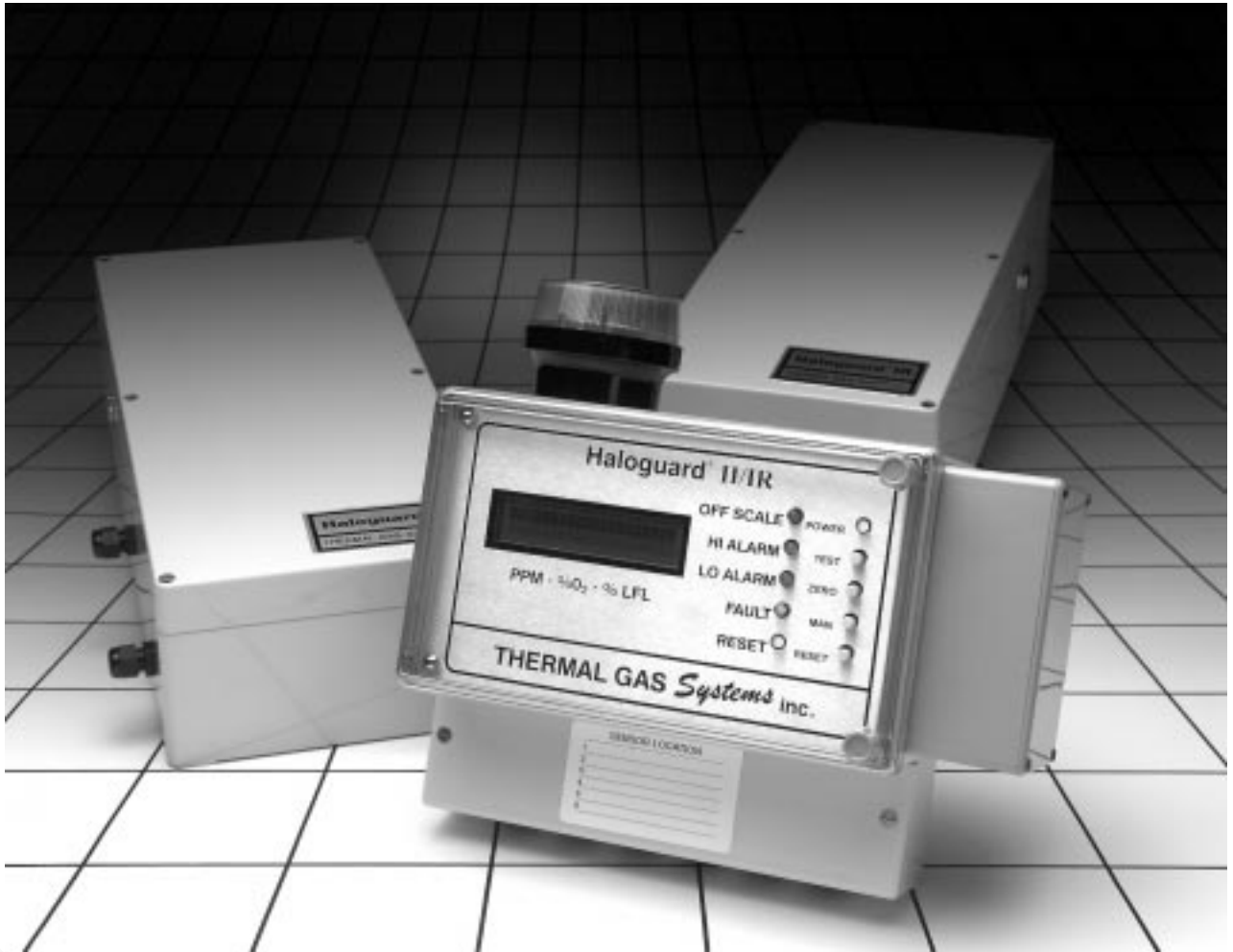


HALOGUARD® II/IR

Multichannel, Multigas Infrared Refrigerant Monitor



IR Technology Enhances Selectivity & Sensitivity

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

Controller monitors up to six 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. Optionally, reports O2 depletion.

- 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® II/IR

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

The HALOGUARD® II/IR combines the HALOGUARD II/IR microprocessor based controller to highly selective and sensitive remote infrared modules to provide the newest, most advanced system for detecting the presence of halocarbons.

The multichannel controller monitors IR modules or O₂ sensors in up to six separate locations, then provides both local and remote notification when gas concentration reaches preset alarm level.

Alarm relays and analog outputs are built in 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

- **Up to six IR modules or oxygen sensors reporting to one central controller**
- **Up to 1000 ft. transmission distance for IR sensor**
- **Up to 300 ft. transmission for O₂ sensors**
- **Hi/Low independent, user adjustable alarm levels for each sensor**
- **Off-scale alarm**
- **Relays for Hi & Low Alarm, Fault, and Offscale conditions**
- **Analog outputs for BAS/EMS interface or data logging**
- **User selectable manual or automatic sensor scanning**
- **Adjustable sensor scan rate**
- **Simple installation with easy field calibration**
- **Easy expansion as requirements change**
- **Built-in alarm Delay/Reset and Test push buttons**
- **Self-diagnostics for each IR module**
- **Long-life, maintenance-free electrochemical oxygen sensors**
- **Dependable, all solid-state microprocessor electronics**

Options

- **Amber strobe alarm**
- **High-intensity audible alarm**
- **Gas calibration kit**
- **Remote readout panel**
- **TWA integration**
- **Automatic calibration**

THERMAL GAS *Systems* inc.

Haloguard® Monitors

11285 Elkins Road, Bldg #H-1 • Roswell, GA 30076 USA

Tel: (770) 667-3865 • Fax: (770) 667-3857

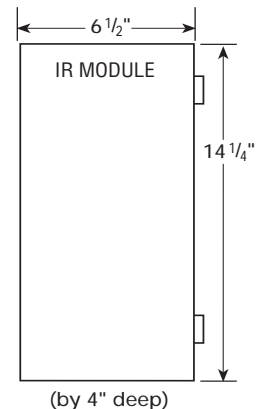
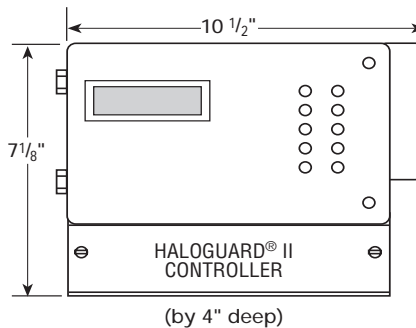
<http://www.thermalgas.com>

Specifications

Electrical Supply	115-230v, 50-60Hz
Output Signal	Std: 4 x 3A, dry contact relay Opt: 4 x 0-5VDC analog
Sensitivity	1ppm
Resolution	1ppm
Range	0 - 1000ppm R11, 12, 22, 123, 134a 0 - 25% O ₂ (1% accuracy)
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 12/13 design
Weight:	
IR Module	15 lbs.
Controller	8 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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