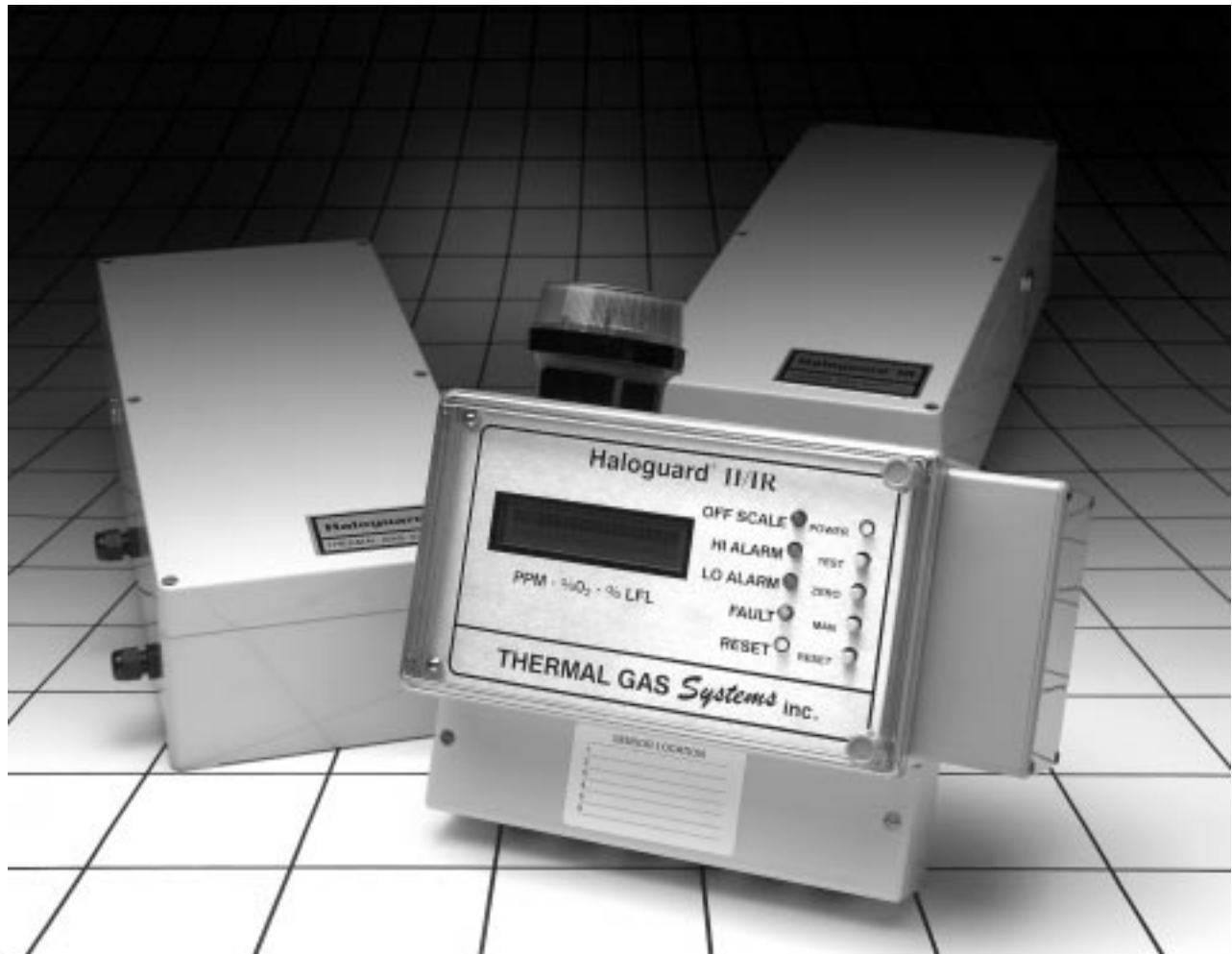


# HALOGUARD® II/IR

Multichannel, Multigas Infrared Refrigerant Monitor



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



## IR Technology Enhances Selectivity & Sensitivity

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 O<sub>2</sub> 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 O<sub>2</sub> 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

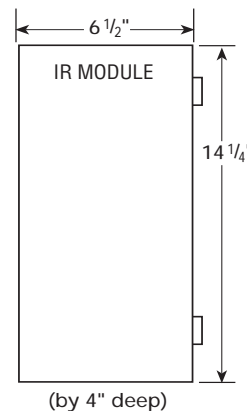
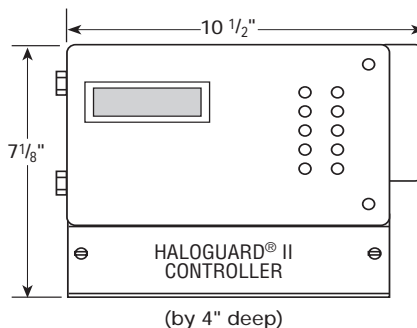
- **Amber strobe alarm**
- **High-intensity audible alarm**
- **Gas calibration kit**
- **Remote readout panel**
- **TWA integration**
- **Automatic calibration**

### 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 <sub>2</sub> (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.



**THERMAL GAS *Systems* inc.**

Haloguard® Monitors

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