The GD24 Leak Detectors are intended for installation in Walk-in’s, Chillers, Racks or other spaces where Refrigerant gas is used, handled or stored, such as refrigerated warehousing, food stores & c-stores. The new EPA regulations apply to installations where over 50 lbs. of refrigeration is used. The detectors can be used independently or connected to a monitoring unit or to any other monitoring system that accepts Dry Contacts.

The GD24-HFC will work with any CFC/HFC/HCFC plus Propane, and features three levels of alarms; GSH24-CO2 features an IR sensor for CO2 and bulk CO2. Beer Keg Coolers and Carbonated Beverage Systems should be monitored. An optional remote alarm tower will alert to a dangerous CO2 level.

The relays are rated 5A/250V SPDT, NO & NC and is powered by a 24Vac ac/dc Class 2 transformer (sold separately).


**Features:**

- The detector is microprocessor controlled and displays the current operating status via LED’s.
- Three adjustable alarm levels with relay outputs 5A/250V.
- Alarm delay, selectable in four steps.
- Manual or automatic reset on alarm.
- Fail-safe function with built-in monitoring and power failure alarm.
- Built-in self-test and service function.
- Test terminal for service tools.
- Robust non corrosive Polycarbonate enclosure for installation, with Ambient Range of -40°F to 122°F.

<table>
<thead>
<tr>
<th>Leak Detector 24Vac</th>
<th>Pre-Alarm</th>
<th>Leakage Alarm</th>
<th>Main Alarm</th>
</tr>
</thead>
<tbody>
<tr>
<td>GD24-HFC-4000 HFC, HCFC,CFC</td>
<td>C=100 ppm</td>
<td>B=1000 ppm</td>
<td>A=2000 ppm</td>
</tr>
<tr>
<td>GD24-Propane R-290 Propane</td>
<td>C=5%</td>
<td>B=10%</td>
<td>A=20%</td>
</tr>
<tr>
<td>GSH24-CO2-10,000</td>
<td>C=2000</td>
<td>B=5000 ppm</td>
<td>A=8000 ppm</td>
</tr>
</tbody>
</table>

For other Gases contact the Factory.
**MODEL GD24 OVERVIEW**

The Sensor detects CFC’s/HFC’s, HCFC’s, CO2 or Propane (R-290), depending on the model, using a Semiconductor or IR sensor, and will alarm at three levels. The 3 relays are rated at 5A/250V Dry contacts SPDT, NO/NC, can be connected to any monitoring system or a controller’s Digital Inputs.

**MOUNTING**

The product is wall mounted using wall mounting holes on the back of the 160mm / 6.35” x 80mm / 3.15” case. The units should be mounted 6-8” off the floor and at least 24” away from fans or doors.

**SENSORS**

The Semiconductor Sensor and IR (for CO2) is pre-calibrated and has a five year life. It should be calibrated annually using the SA200 Service Tool.

**POWER**

The product is powered by 24Vac/dc 2 watts. A class 2 transformer, sold separately is required.

**OUTPUT**

3x5A/250V Dry contacts SPDT, NO/NC relays

**TECHNICAL DATA**

- **Housing**: Polycarbonate, PC
- **Power supply**: 12–24V AC/DC (model Gx24-XX)
- **Power consumption**: Max 2W
- **LED Indicators**: Power/Active and alarm indication on three levels.
- **Outputs relay**: Dry contacts (250V, max 5A).
- **Ambient temp**: -40F – 122F (Automatic temperature compensation)
- **Humidity**: 0-95% RH (non condensing)
- **Glands**: 4 M16 membrane glands
- **Screw terminals**: 1.5mm, 2 fuse /10A

**SA200 – Basic Service Tool**

The tool is used with a voltmeter to check and adjust the settings of the alarm levels and sensor offset of gas detectors and control panels.

**SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE**

**WARRANTY**

ONE YEAR