WEISS INSTRUMENTS

HOLTSVILLE, NEW YORK 11742
631-207-1200 • FAX: 631.207.0900
www.weissinstruments.com

Project Name: _____

Location: _____

IDN#_____ Quantity:_____

Catalog#_____

CAT NO. **GD24**	**Gas Leak Detector**

Continuous Monitoring

The GD24 Leak Detectors are intended for installation in Walk-in's, Chillers, Racks or other spaces where Refigerant 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 CO_2 and bulk CO_2. Beer Keg Coolers and Carbonated Beverage Systems should be monitored. An optional remote alarm tower will alert to a dangerous CO_2 level.

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

Complies with EPA 40CFR Part 82 regulations in effect January 1, 2017.

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 Polycarbonite enclosure for installation,with Ambient Range of -40°F to122°F.

Leak Detector 24Vac	Pre-Alarm	Leakage Alarm	Main Alarm
GD24-HFC-4000 HFC, HCFC,CFC	C=100 ppm	B=1000 ppm	A=2000 ppm
GD24-Propane R-290 Propane	C=5%	B=10%	A=20%
GSH24-CO2-10,000	C=2000	B=5000 ppm	A=8000 ppm

For other Gases contact the Factory.

APPROVALS:

DATE:

02/17

MODEL GD24 OVERVIEW

The Sensor detects CFC's/HFC's,HCFC's,CO_2 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 CO_2) is pre-calibrated and has a five year life. It should be calibrated annually using the SA200 Service Tool.

POWER

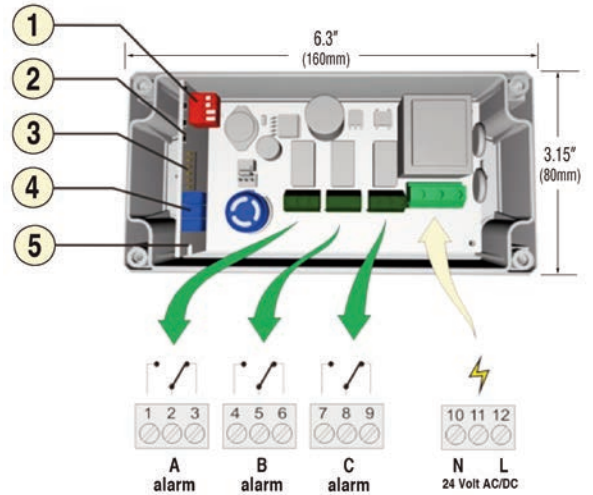The product is powered by 24Vac/dc 2 watts. A class 2 transformer, sold separately is required.

OUTPUT

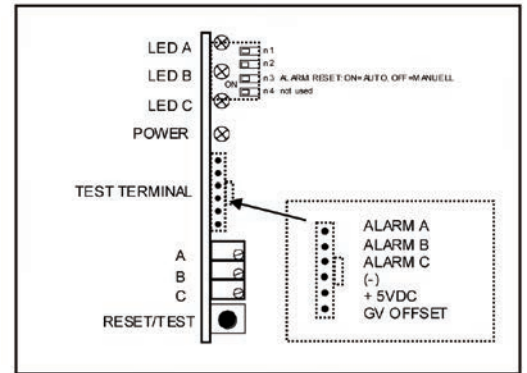3x5A/250V Dry contacts SPDT, NO/NC relays

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

1 DIP Switches for alarm time delay
2 4 LED indicators, Alarm A, Alarm B, Alarm C, Power
3 Test Terminal
4 Alarm Calibration potentiometers (3) Factory pre-calibrated
5 Reset / Test / Service Button

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 |

LT-2
Light Tower