

# SPECIALTY SENSORS



## REFRIGERANT LEAK DETECTOR MODEL RLD-5



### DESCRIPTION

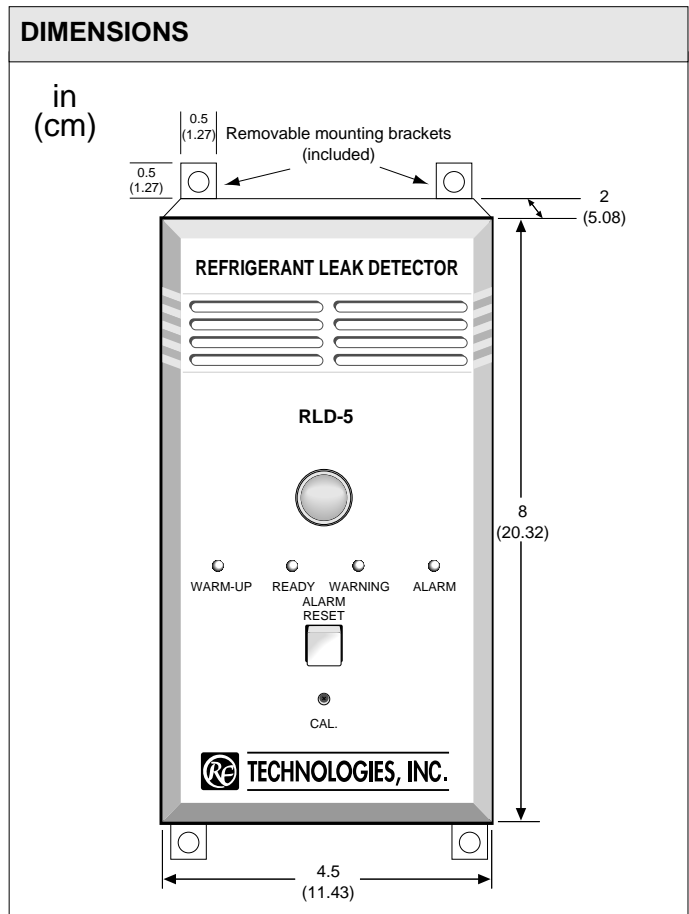
The **RLD-5** is a solid-state CFC refrigerant leak detector capable of detecting the presence of escaping refrigerants. The **RLD-5** is field adjustable for five different CFC refrigerant types: R-11, R-12, R-22, R-113, and R-502. An analog output is provided to allow interfacing to computer-monitoring equipment. An alarm relay is also provided with adjustable setpoint and jumper-selectable time delay function to prevent nuisance alarms. Four LED's provide status indication for warm-up, ready, warning, and alarm.

### FEATURES

- Able to detect R-11, R-12, R-22, R-113, and R-502
- Selectable analog output
- LED status indication
- Alarm relay output
- Field-replaceable sensor



SPECIFICATIONS	
<b>Supply voltage</b>	24 VAC / DC $\pm$ 10%
<b>Power consumption</b>	AC - 325 mA DC - 250 mA
<b>Operating temperature</b>	32° to 158°F (0° to 70°C)
<b>Operating humidity</b>	10% - 95% Noncondensing
<b>Measuring range</b>	0-1000 ppm
<b>Analog output (jumper-selectable)</b>	4-20 mA 0-5 VDC 0-10 VDC 1-6 VDC
<b>Loop resistance</b>	
<b>Current</b>	300 $\Omega$ max
<b>Voltage</b>	5 k $\Omega$ min
<b>Alarm relay output (jumper-selectable)</b>	SPDT 0.5 amp 24 VAC or DC Manual reset (latched) Auto reset (unlatched)
<b>Alarm relay time delay (jumper-selectable)</b>	15 min 30 min 1 hr 2 hr
<b>Alarm relay setpoint</b>	Adjustable 0-1000 ppm Factory set 500 ppm

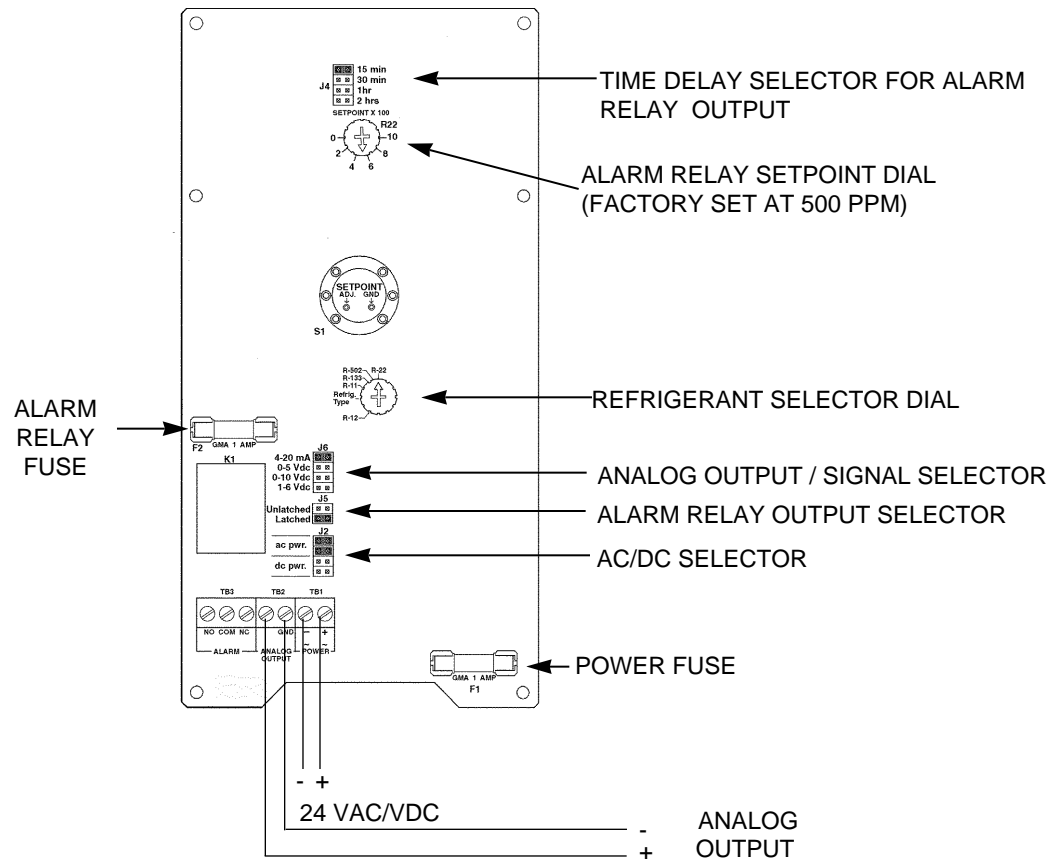


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### WIRING



### INSTALLATION / OPERATION

The **RLD-5** is suitable for indoor use only. Mount the unit as close to the source of potential refrigerant leaks as possible. Some recommended considerations are:

1. Mount approximately three feet from floor (refrigerants are heavier than air and will settle on the floor).
2. Mount at least five feet from exhaust fans (direct airflow across sensing element will affect accuracy).
3. If used in refrigeration pits, mount one foot above floor.

**Operation:** To test operation, place a small amount of alcohol below the sensing element. The analog output signal should increase.

**Make all connections in accordance with National and Local codes.**

**CAUTION: Not to be used as a life safety device.**

### ORDERING INFORMATION

MODEL	DESCRIPTION
RLD-5	Refrigerant Leak Detector
170-0830	Replacement Sensing Element