



GAS & SPECIALTY SENSORS

REFRIGERANT LEAK DETECTOR

RLD-5

DESCRIPTION

The Kele RLD-5 is a **solid-state CFC refrigerant leak detector** capable of detecting the presence of escaping refrigerants. It 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 set point and jumper-selectable time delay function to prevent nuisance alarms. Four LEDs provide status indication for warm-up, ready, warning, and alarm.

The RLD-5 is designed to be used as part of a control system that helps to prevent the formation of a hazardous environment when properly installed and maintained. For more information on the proper application and use of this product please read "Environmental Safety Devices" in our technical reference section.

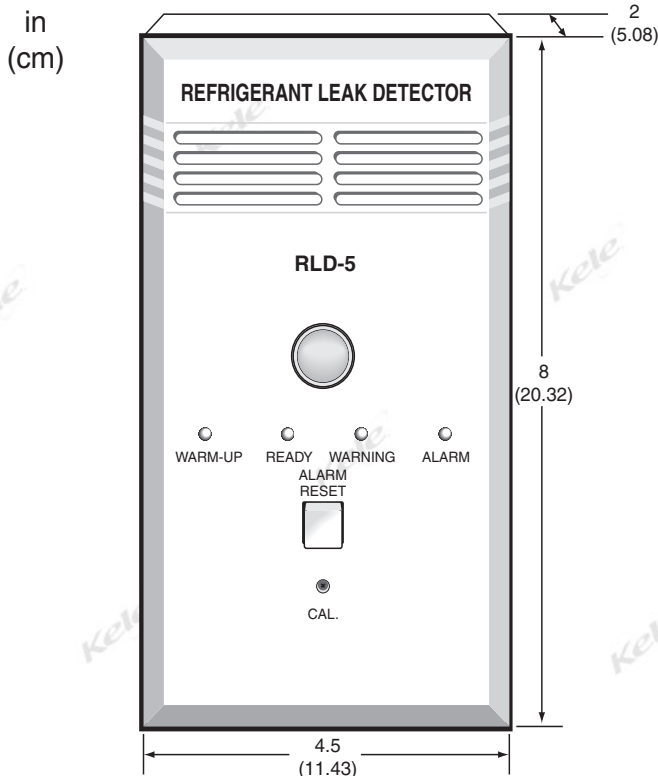


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FEATURES

- R-11, R-12, R-22, R-113, and R-502 detection
- Selectable analog output
- LED status indication
- Alarm relay output
- Field-replaceable sensor
- Refrigerant leak detection as described in ASHRAE 15-2004
- Minimum 15 minute time delay

DIMENSIONS

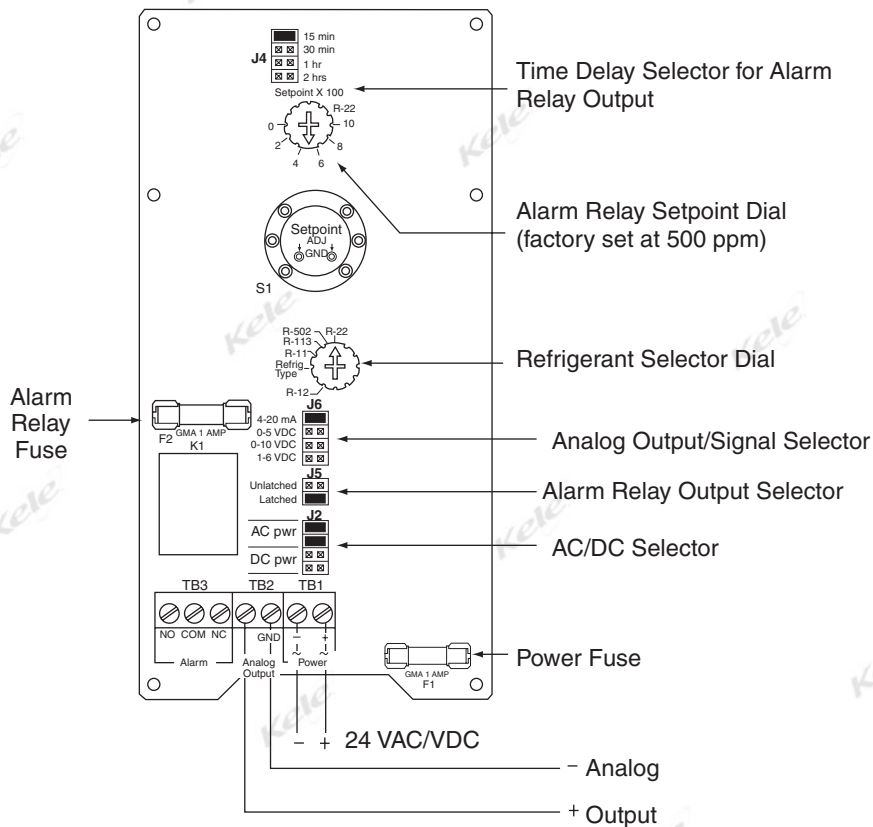


SPECIFICATIONS

Supply Voltage	24 VAC $\pm 10\%$ @ 14 VA or 24 VDC $\pm 10\%$ @ 580 mA
Signal Output	4-20 mA, 0-5 VDC, 0-10 VDC, 1-6 VDC (jumper selectable)
Maximum Output Impedance mA	300 Ω maximum
Minimum Output Impedance VDC	5 k Ω minimum
Accuracy	$\pm 5\%$ Long term drift 8%
Measurement Range	0-1000 ppm
Relay Output	SPDT 0.5A 24 VAC/VDC (jumper selectable); Manual reset (latched), Auto reset (unlatched)
Relay Setpoint	Adjustable 0-1000 ppm
Factory set 500 ppm	
Time Delay	15 min., 30 min., 1 hr, 2 hr (jumper selectable)
Operating Humidity	10% to 95% non-condensing
Operating Temperature	32°F to 158°F (0°C to 70°C)
Weight	1.5 lb (0.45 kg)
Warranty	1 year



WIRING



INSTALLATION / OPERATION

Installation

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 as follows:

1. Mount approximately 3' (0.9m) from floor (refrigerants are heavier than air and will settle on the floor).
2. Mount at least 5' (1.5m) from exhaust fans (direct airflow across sensing element will affect accuracy).
3. If used in refrigeration pits, mount 1' (0.3m) above floor.

Operation

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

Note: Make all connections in accordance with national and local codes.

ORDERING INFORMATION

MODEL	DESCRIPTION	
RLD-5	Refrigerant leak detector	
RELATED PRODUCTS		
170-0830	Replacement sensing element	
NIOSHSCBA-WC	Self-contained breathing apparatus kit with SCBA-WALCASE wall case	
ACCESSORIES		
691-K0A	Control transformer, 120:24 VAC, 40 VA, Class 2	PAGE
Calibration Gases	CO, CO ₂ , NO ₂ , O ₂ , CH ₄ , NH ₃ , N ₂ , H ₂ S, H ₂ , and Refrigerants (See calibration page)	979
DCP-1.5-W	Power supply, 24 VAC IN to 24 VDC OUT	995
DCPA-1.2	Power supply, 120 VAC IN to 24 VAC/24 VDC OUT	994
UCK-1	Universal calibration kit for non-corrosive gases (N ₂ , CO ₂ , CH ₄ , H ₂ , O ₂ , CO, and refrigerants)	436