



GAS & SPECIALTY SENSORS

REFRIGERANT LEAK DETECTOR RLD-134A

DESCRIPTION

The Kele RLD-134A is a solid-state HFC refrigerant leak detector capable of detecting the presence of escaping refrigerant R-134A. 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 LED's provide status indication for warm-up, ready, warning, and alarm.

The RLD-134A 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.



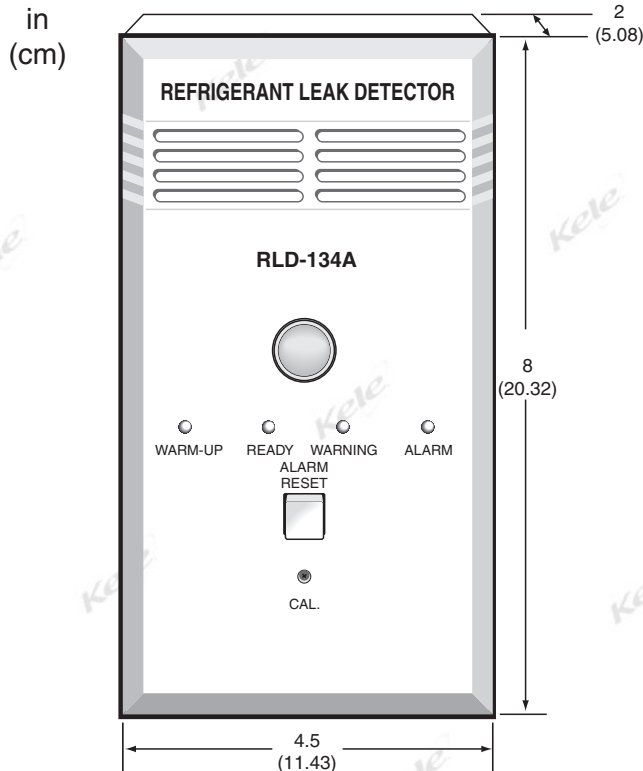
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FEATURES

- R-134A detection
- Selectable analog output
- LED status indication
- Alarm relay output

- Field-replaceable sensor
- Wall-mounting kit
- Refrigerant leak detection as described in ASHRAE15-2004
- 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 Manual reset (latched) Auto reset (unlatched) (jumper selectable)
Relay Setpoint	Adjustable 0-1000 ppm
Factory set 500 ppm	
Relay Time Delay	15 min., 30 min., 1 hr, 2 hr (jumper selectable)
Operating Humidity	10% to 95% non-condensing
Operating Temperature	32° to 158°F (0° to 70°C)
Weight	1.5 lb (0.45 kg)
Warranty	1 year

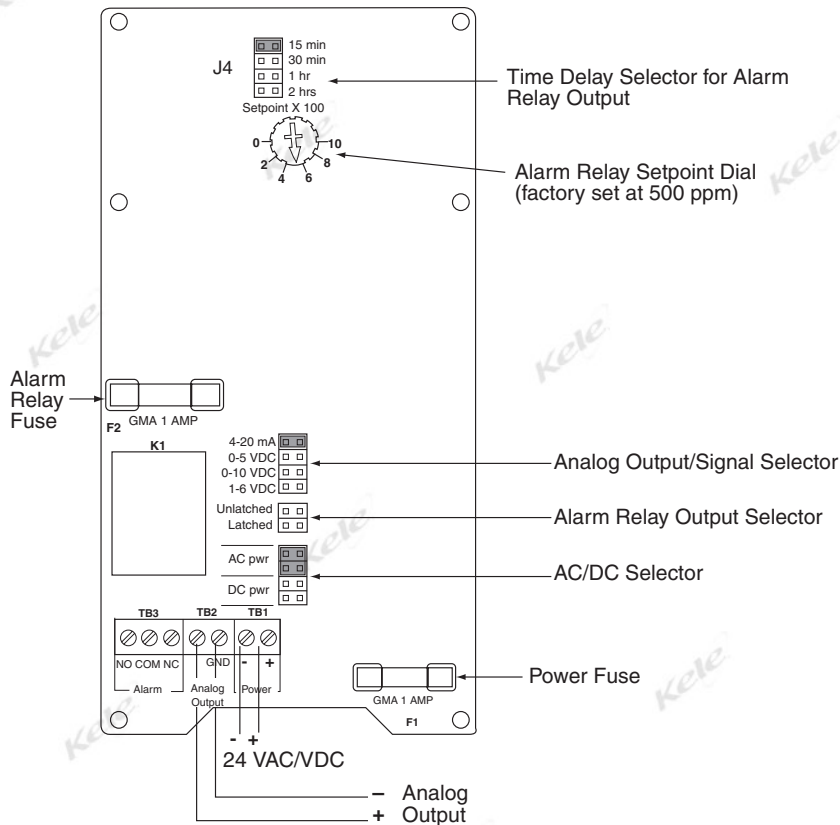


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WIRING



INSTALLATION / OPERATION

Installation

The **RLD-134A** 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. Not recommended for MRI rooms.

ORDERING INFORMATION

MODEL RLD-134A	DESCRIPTION Refrigerant leak detector												
170-0832 NIOSHSCBA-WC	RELATED PRODUCTS Replacement sensing element Self-contained breathing apparatus kit with SCBA-WALCASE wall case												
691-K0A Calibration Gases DCP-1.5-W DCPA-1.2 UCK-1	<table border="0" style="width: 100%;"> <tr> <td style="text-align: center;">ACCESSORIES</td> <td style="text-align: right;">PAGE</td> </tr> <tr> <td>Control transformer, 120:24 VAC, 40 VA, Class 2</td> <td style="text-align: right;">979</td> </tr> <tr> <td>CO, CO₂, NO₂, O₂, CH₄, NH₃, N₂, H₂S, H₂, and Refrigerants (See calibration page)</td> <td style="text-align: right;">995</td> </tr> <tr> <td>Power supply, 24 VAC IN to 24 VDC OUT</td> <td style="text-align: right;">994</td> </tr> <tr> <td>Power supply, 120 VAC IN to 24 VAC/24 VDC OUT</td> <td style="text-align: right;">436</td> </tr> <tr> <td>Universal calibration kit for non-corrosive gases (N₂, CO₂, CH₄, H₂, O₂, CO, and refrigerants)</td> <td></td> </tr> </table>	ACCESSORIES	PAGE	Control transformer, 120:24 VAC, 40 VA, Class 2	979	CO, CO ₂ , NO ₂ , O ₂ , CH ₄ , NH ₃ , N ₂ , H ₂ S, H ₂ , and Refrigerants (See calibration page)	995	Power supply, 24 VAC IN to 24 VDC OUT	994	Power supply, 120 VAC IN to 24 VAC/24 VDC OUT	436	Universal calibration kit for non-corrosive gases (N ₂ , CO ₂ , CH ₄ , H ₂ , O ₂ , CO, and refrigerants)	
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