



RLD-H10PRO Refrigerant Leak Detector

Description

The RLD-H10PRO is a professional-grade leak detector for use by refrigeration and air conditioning technicians. This detector senses all CFC, HCFC, and HFC refrigerants and blends, such as R12, R22, R134a, R404a, R410a, R502, and R507 among others. The RLD-H10PRO is self-powered with a rechargeable battery and provides both manual and automatic compensation for background levels of refrigerant. A full line of accessories and maintenance kits are also available, including replacement sensors, tuneup kits, probe extensions, battery chargers, and leak vial bottles.

Refer to the *RLD-H10PRO Refrigerant Leak Detector Product Bulletin (LIT-12012073)* for important product application information.

Features

- positive ion emission heated diode sensor provides the most sensitivity available today, while still detecting all halogenated refrigerant gases

- rechargeable battery with low and full charge LEDs enhances portability—no external power required
- high quality air pump supplies constant airflow to the sensor so it responds quickly to leaks; also helps the sensor recover quickly after exposure to a refrigerant so the leak can be verified
- switchable adjustment for manual or automatic balance allows users to choose their preferred method of compensation for background refrigerant levels
- visual and audible signal facilitates sensing in noisy equipment rooms with 360° visibility and a piercing tone. Frequency of noise and light indicates the magnitude of the leak.
- headset jack allows users to hear the leak detector response in noisy environments
- external calibration source and calibration indicators indicate when the sensor is working properly and serves as a reference point to judge leak size



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Repair Information

If the RLD-H10PRO Refrigerant Leak Detector fails to operate within its specifications, contact Johnson Controls@ application engineering at (414) 524-5535.

Selection Chart

Product Code Number	Description
RLD-H10PRO-1	Refrigerant leak detector and charger

Accessories

Product Code Number	Description
RLD-H10-100	14 inch flexible probe extension
RLD-H10-101	120 VAC power supply adaptor
RLD-H10-102	Cigarette lighter adaptor
RLD-H10-103	Replacement battery charger
RLD-H10-105	Belt pack battery
RLD-H10-600R	Tuneup kit: includes sensor, 100 filters, three airflow balls, three rubber probe tips, and leak vial
RLD-H10-601R	Replacement sensor
RLD-H10-602R	Maintenance kit: includes 100 filters, three airflow balls, three rubber probe tips, and leak vial
RLD-H10-603R	Replacement leak vial
RLD-H10-604R	Replacement for RLD-H10PRO internal battery
RLD-H10-606R	Clear plastic probe tip
RLD-H10-607R	Probe replacement assembly

Technical Specifications

RLD-H10PRO Refrigerant Leak Detector		
Power Requirements	12 VDC internal battery, or 100 to 240 VAC input/18 V output wall adaptor (included) (RLD-H10-101).	
Sensing Element Type	Positive ion emission heated diode	
Approximate Sensitivity¹	Stationary	0.006 oz./yr
	Moving (Per SAE J2791)	0.1 oz./yr
Automatic Background Adjustment	Mode selection for automatic or manual background zeroing Manual background zeroing provides the best sensitivity.	
Leak Alarm	Audible alarm (through internal beeper or stereo headphone jack), visible red LED	
Response Time	Approximately 1 second	
Warmup Time	Approximately 2 minutes	
Probe Length	Approximately 4-1/2 ft (1.4 m)	
Ambient Operating Conditions	32 to 104°F (0 to 40°C); 5-90% RH, noncondensing	
Ambient Storage Conditions	14 to 140°F (-10 to 60°C); 5-90% RH, noncondensing	
Case	Rugged high-density polyethylene	
Dimensions (H x W x D)	5-2/5 x 10-1/2 x 8-3/10 in. (137 x 267 x 211 mm)	
Compliance	Europe: CE Mark Johnson Controls, Inc. declares that this product is in compliance with the essential requirements and other relevant provisions of the EMC Directive 2004/108/EC.	
Shipping Weight	5.1 lb (2.3 kg)	

1. Sensitivity for R12, R22, R134a, R410a, R404a, and R507 when unit is set to small leak setting, manual mode.










RLD Refrigerant Leak Detector Accessories and Replacement Parts

Description

These parts are used on the RLD-H10G-1 and on the RLD-H10PRO-1.

Selection Chart

Product Code Number	Description	Figure
RLD-H10-100	14 in. Flexible Probe Extension	
RLD-H10-600R	Tune-up Kit; Includes: One Sensor, 100 Filters, Three Airflow Indicator Balls, Three Probe Tips, One Leak Vial	
RLD-H10-601R	Replacement Sensor	
RLD-H10-602R	Maintenance Kit; Includes: 100 Replacement Filters, Three Airflow Indicator Balls, Three Probe Tips	
RLD-H10-603R	Replacement Leak Vial	
RLD-H10-606R	Replacement Clear Plastic Probe Tip	
RLD-H10-607R	Replacement Probe Assembly	

The performance specifications are nominal and conform to acceptable industry standards. For applications at conditions beyond these specifications, consult the Johnson Controls, Inc. shall not be liable for damages resulting from misapplication or misuse of its products. © 2015 Johnson Controls, Inc.