

REFRIGERANT LEAK DETECTION SENSOR

SPECIFICATION SHEET

DESCRIPTION

RenewAire's **Refrigerant Leak Detection Sensor** identifies refrigerant leaks in HVAC applications. In addition to rapid and accurate leak detection, our **thermal conductivity technology** provides 15+ year lifetime warranty, immunity to poisoning, automated self-calibration, and reliable self-diagnostics to avoid silent failures. The unique design is optimized to ensure performance over system lifetime even in harsh application environment as it is robust against oil, water spray, dust, and UV light.

FEATURES

- ♦ Designed for use with R454B and R32
- ♦ Easy system check via LED status
- ♦ Robust design



PART NUMBER	DESCRIPTION
301282	Refrigerant Leak Detection Kit

SENSOR SPECIFICATIONS (UL 60335-2-40)	
Measuring Range	0–100% Lower Flammability Limit (LFL)
Alarm Threshold	10% or 15% LFL
Operating Temperature	-40°F–175°F (-40°C–80°C)
Intermittent Temperature	-40°F–203°F (-40°C–95°C)
Storage Temperature	-67°F–203°F (-55°C–95°C)
Operating Pressure	700–1200 mbar
Operating Humidity	0 to 100% RH with condensation
Enclosure Protection (EN 60529)	IP 54
Connector Protection (EN 60529)	IP 56 and IP 57
Flame Rating	UL 94 V-0

PERFORMANCE SPECIFICATIONS

Accuracy at Ambient 15°C–25°C, 30–70% RH	±2.5% LFL
Accuracy Across Operating Range	±5.0% LFL
Response Time	< 15 Seconds
Sensor Recovery Time	< 5 Minutes in Clean Air
Lifetime	Minimum 15-Year Lifetime (self monitoring)
Mitigation Recovery Timer	0–5 Minutes
Alarm Response	Led Turns Red and Contact Closes
Alarm Reset	2.5% LFL Hysteresis

ELECTRICAL SPECIFICATIONS

Supply Voltage	24 VAC +/-10% and 24 VDC (8-32VDC)
Power consumption (estimated)	1.6 VA Maximum
Response time	< 15 Seconds

MECHANICAL SPECIFICATIONS

Materials: Enclosure	Nylon 66 (PA66) Reinforced with 25% Glass Fibers (GF25)
Materials: Electrical Connection	Nylon
Net Weight	0.04 kg

DIMENSIONS

Dimensions are shown in mm, unless stated otherwise.

