



PRODUCT HIGHLIGHT

SENSATA RESONIX™ REFRIGERANT LEAK SENSOR

RGD SERIES

The Sensata Resonix refrigerant leak detection sensor is a compact embedded module designed to meet demanding OEM requirements and be easily integrated into HVAC & Refrigeration Equipment. Featuring the innovative Speed of Sound technology with high accuracy and fast response times.

Superior resistance to overexposure and poisoning, high temperature and humidity resistance, and a lifetime greater than 15 years with no need to calibrate make the Sensata Resonix the ideal, easy to maintain, solution for HVAC&R systems.

SPECIFICATIONS

- Complies to UL60335-2-40 ed. 4
- Works with R32, R454 series, and R455 series refrigerants
- LFL range : 0 – 100%
- Working temperature -40°C to +85°C
- Working humidity 0 to 100% RH with condensation
- Working pressure 70 to 120kPa
- Protection (EN 60529) : IP54
- Low power: <40 mA (for 5 VDC input)

NO CALIBRATION NEEDED

Factory calibrated sensor that does not require any field calibration or re-zeroing during its lifetime

WIDE OUTPUT OPTIONS RANGE

Modbus RTU (RS-485) output to meet the wide range of OEM applications.

EMBEDDED SELF DIAGNOSTICS

Sensor completes self-diagnostics once per minute providing fault alarms

HIGH ACCURACY

Temperature and humidity compensation sensors present for high accuracy over environmental conditions

LONG LIFETIME

15+ years, to withstand the extended lifetime of HVAC equipment

FAST RESPONSE TIME

Fast response (T28=2.5 seconds, T60=5 seconds) and warm up time (<5 seconds).

NO FALSE POSITIVES

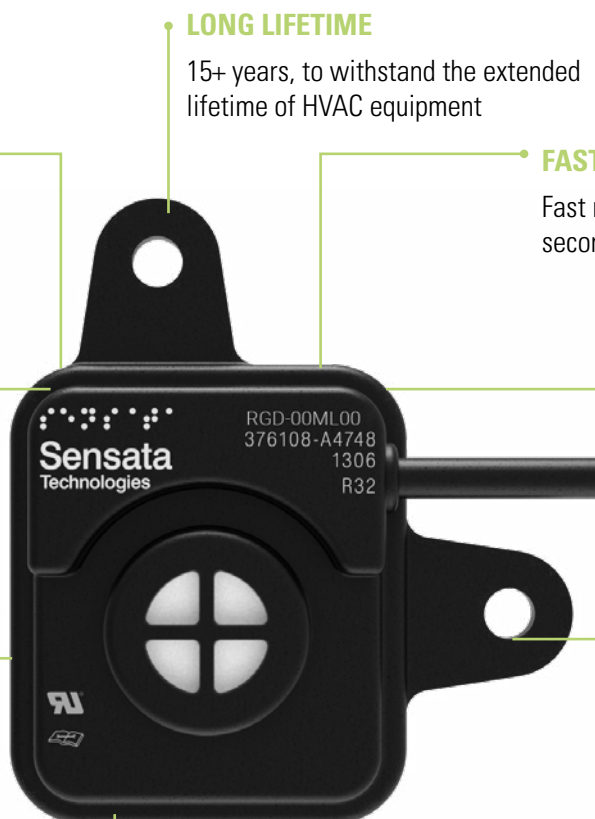
No false positives from fouling gases as required by UL standards

IMMUNITY TO POISONING

Immune to degradation even with continuous poisoning

MECHANICAL AND ENVIRONMENTAL ROBUSTNESS

Robust package that performs throughout the environmental conditions and requirements for industrial HVAC equipment

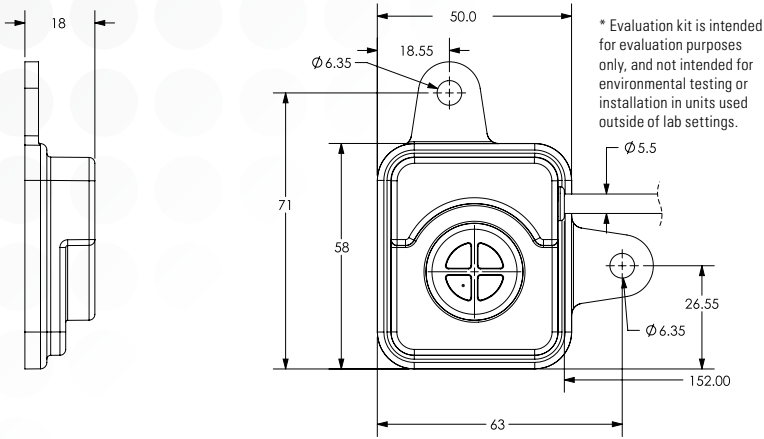


Sensata
Technologies

RGD-00ML00
376108-A4748
1306
R32



DIMENSIONS



AGENCY APPROVALS & CERTIFICATIONS



ORDERING OPTIONS

	RGD	00	M	L	00
Series	RGD - Resonix Gas Detection Sensor				
Refrigerant	<ul style="list-style-type: none"> 00 = R32 01 = R1234yf 02 = R454B 03 = R454C 04 = R454A 10 = R455A 				
Output Type	M = RS485 MODBUS RTU				
Input Voltage	L = 5VDC				
Customer Specific	<ul style="list-style-type: none"> 00 = 6 foot unshielded cable, unterminated 99 = Evaluation Kit (RS485 output, 6 foot cable, USB termination, Reader Application) 				

*Consult factory for other output type availability

APPLICATIONS

- Residential, commercial and industrial air conditioning and heat pump systems
- Commercial refrigeration

The HVAC industry is converting to refrigerants that are environmentally friendly, energy efficient, and have lower GWP solution such as the R32, R1234yf and blends of those gases. Those refrigerants are classified A2L (ASHRAE classification) which means they are considered flammable at a certain concentration in air. For this reason, manufacturers of residential and commercial air conditioning and heat pump systems must implement a detection and mitigation in their equipment in order to comply to standards ASHRAE-15, UL60335-2-40 and UL60335-2-89.



CONTACT US

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