



PRODUCT HIGHLIGHT

MGD SERIES

SENSATA RESONIX REFRIGERANT LEAK SENSOR

Expanding the Sensata Resonix line of refrigerant leak detection sensors, the MGD series is a compact embedded module designed to fit into even the most compact HVAC & Refrigeration equipment.

Featuring our innovative Speed of Sound technology, the sensor delivers high accuracy and fast response times OEMs need to meet their regulatory requirements for A2L detection.

SPECIFICATIONS

- Recognized to UL 60335-2-40
- Works with R32, R454 series, and R455 series refrigerants
- Ability to detect multiple refrigerants
- Working temperature -40°C to 105°C
- Working humidity 0 to 100% RH with condensation
- Working pressure 70 to 120kPa
- Protection (EN 60529) : IP54
- Low power: <40 mA

LONG LIFETIME

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

FAST RESPONSE TIME

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

EMBEDDED SELF DIAGNOSTICS

Sensor completes self-diagnostics once per minute providing fault alarms

NO FALSE POSITIVES

No false positives from fouling gases as required by UL standards

HIGH ACCURACY

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

SIMPLE CONNECTION

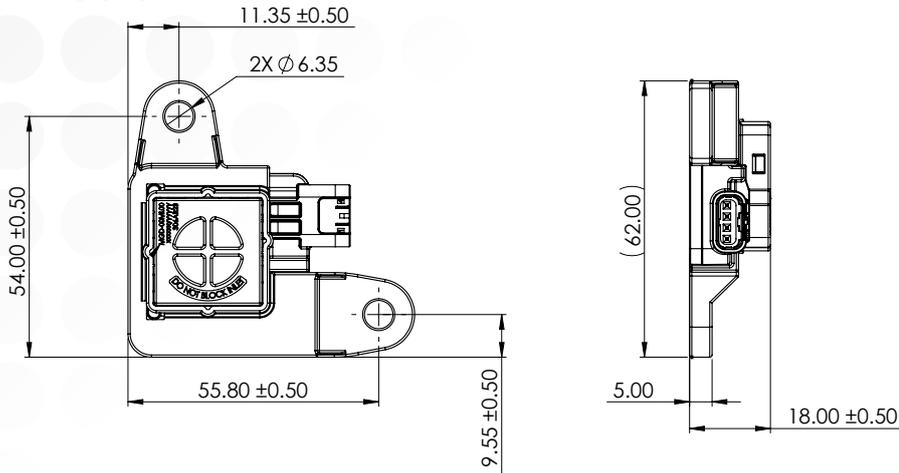
Compact embedded module with an integral connector

FLEXIBLE REFRIGERANT DETECTION

Ability to sense multiple refrigerants in one sensor for simplified management.



DIMENSIONS



AGENCY APPROVALS & CERTIFICATIONS



ORDERING OPTIONS

	MGD	20	M	L	00
Series	MGD = Mini Gas Detection Sensors				
Refrigerant	00 = R32 01 = R1234yf 02 = R454B 03 = R454C 04 = R454A 10 = R455 20 = R32+R454B 30 = R454A+R454C+R455A				
Output Type	M = Modbus RTU				
Input Voltage	L = 5VDC				
Customer Specific	00 = TE 2443727-4				

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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