

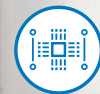
Refrigerant Leak Detection Gas Sensor Module

Our Robust Semiconductor Design Advantages:



LONG LIFETIME

Our semiconductor type sensors are durable and sensitive. They can last up to 15 years.



SIZE

Semiconductor type sensors require minimum footprint enabling it to be easily added to HVAC equipment.



VIBRATION

Vibration does not interfere with sensing function ensuring accuracy.



NOISE OF GAS

Responds only to the designated target gas, helping to eliminate false alarms.



LOW MAINTENANCE

No need of calibration after delivery enabling immediate usage.

New Standards for
Leak Detection
go into effect

JANUARY, 2024

Nissha FIS Gas sensor has 30 years experience detecting refrigerant gases. It is the most widely applied for refrigerant leak detection in HVAC applications globally.



- ✓ In-house sensor element production, global distribution network
- ✓ IEC60335-2-40 Ed.6 Compliant (Ed.7 is planned May 23. Internal test completed)
- ✓ Currently under test for UL60335-2-40 Ed3 (internal test completed)

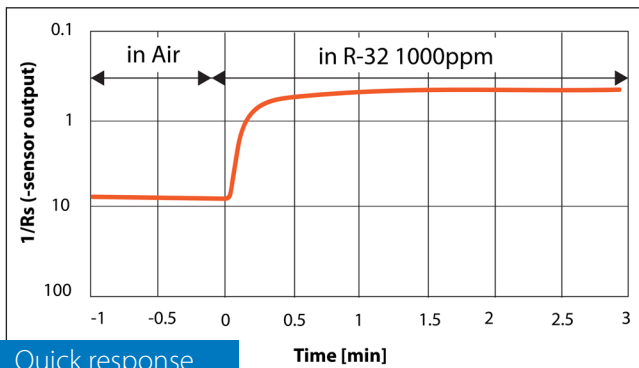
Contact us for more details: ju-miyashita@nissha.com

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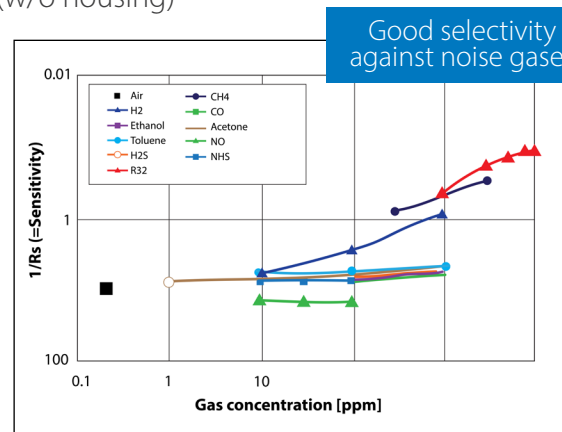
Specifications

REFRIGERANT LEAK DETECTION GAS SENSOR MODULE

| | |
|------------------------|---|
| Sensor Type | Metal Oxide Semiconductor Type (MOS) |
| Target Gas | R32, R454B, R1234yf, etc |
| Supply Voltage | DC 5V+/-4% (Max DC6V) |
| Alarm Output | Open collector |
| Alarm Set Point | R32 - 5,000ppm |
| Response Time | R32 – 36,000ppm / alarm output within 30sec |
| Operating Temp | -25 to 60degC (no dew condensation) |
| Size/Weight | 1.02 x 1.02 x 0.78", 0.01lbs (w/o housing) |



Quick response
<30sec



Good selectivity
against noise gases



w/o housing



w/ housing