

Standard specification

Article number 009-3-0007, R32 24V

009-3-0008, R32 12V

009-3-0009, R32 5V

Operating principle Non-dispersive infrared

Measured gas R32, R454A, R454B,

R454C 1

Measurement range 0-50% LFL

Accuracy ±2.5% LFL

Operating conditions -40-70 °C

Response time < 30 s

Power supply 5 VDC/12 VDC/24 VAC/DC

Communication Modbus over RS-485

Outputs Digital signal (High/Low

or PWM) or

Analogue voltage or

Analogue current

Compliance IEC / UL 60335-2-40

Maintenance Maintenance free

Life expectancy > 15 years

Dimensions 113x65x40 mm

Storage conditions -40–85 °C

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Note 1: The sensor can measure molecules containing C-H bonds.

Disclaimer: Please refer to product specification for the complete technical details.

Senseair Refrigerant Detection System R32, R454A, R454B, R454C

Refrigerant Leakage Sensor

Senseair Refrigerant Detection System (RDS) is a leak detection sensor for HVAC applications.

A protective housing, with a high-quality gas diffusion vent, protects the sensor element from dust and condense water droplets. Thanks to the built-in heating element, the Senseair Refrigerant Detection System can operate in cold environments.

Using Modbus protocol, the measured data can digitally be transmitted to the control system.

A digital output signal is activated whenever the measured gas concentration reaches a configurable threshold. The output can alternatively be configured as an analogue linear output reflecting the measured gas concentration.

Senseair Refrigerant Detection System is intended for mounting inside or close to the HVAC appliance, where a leak could potentially occur.

Key benefits

- Fast response time
- High accuracy
- Wide temperature range
- Maintenance-free
- Compliant with IEC / UL 60335-2-40
- Factory calibrated
- Long term stability
- Long lifetime
- Immune to poisoning
- Based on LED light source

