GAS & SPECIALTY SENSORS

INFRARED REFRIGERANT GAS DETECTOR

IR-F9 SERIES

DESCRIPTION

The Honeywell Analytics IR-F9 Series refrigerant detector is a highly accurate, affordable, micro-processor based infrared sensor that will provide years of reliable service. A true "diffusion" sensor, the IR-F9 Series does not require either the use of pumps or filters and allows all points of detection to be monitored perpetually. The versatile sensor is housed in a high mass metal bench structure that enables thermal stability and freedom from the effects of vibration.

FEATURES

- · Available in seven different refrigerants
- R134a, R22, R404a, R407a, R410a, R422a, R507a
- · Visual indication
- Infrared technology
- 4-20 mA output
- Easy calibration with cal kit
- No pump
- Continual monitoring
- Optional RS-485 Modbus communication

Honeywell Analytics

experts in gas detection





IR-F9

SPECIFICATIONS

Supply Voltage 24 VDC regulated 1.2A maximum

Accuracy ±3% full scale **Signal Output** 4-20 mA @ 500Ω Repeatability 1% full scale **Measurement Range** 0-1000 ppm standard

(0-500 ppm to 0 to 3000 ppm)

Dual infrared sensor Sensing Technology Calibration Interval Every 6 months

Visual Indication For testing and verification of

4-20 mA loop,

calibration and operation 10 seconds with full scale

Response Time calibration gas @ 0.75 liters/

minimum flow rate

Gases Detected R134a, R22, R404a, R407a,

R410a, R422d, R507a

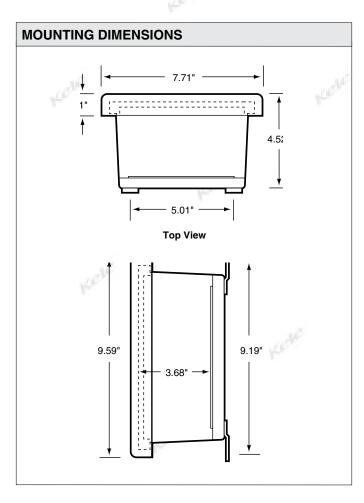
Operating Temperature -20° to 140°F (-28° to 60°C) **Operating Humidity** 0% to 99% RH non-condensing **Enclosure Rating** NEMA 4 fiberglass reinforced

polyester

Dimensions 9.59"H x 7.71"W x 4.52"D

(24.4 x 19.6 x 11.5 cm)

Weight 4.4 lb (2.0 Kg) Warranty 1 year

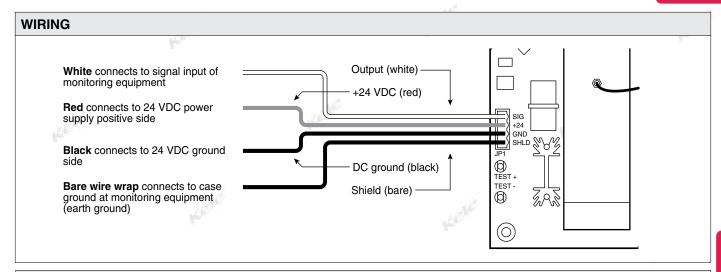


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INSTALLATION / OPERATION

Installation

The IR-F9 can only report what it is seeing at the moment and it is very important the sensor be located where leaks are most likely to occur. CFC/HCFC/HFC vapor is heavier than ambient air, so in a room with no air movement it will tend to settle. For quickest detection, mount the sensor about one to two feet from the floor, close to the potential leak source. Be aware the indicated concentration may not be representative of personnel exposure and easy access for the required calibration and maintenance could be compromised. Some recommended considerations are as follows:

- 1. Must be easily accessible for calibration and maintenance.
- 2. Always mount the sensor vertically.
- 3. Mount the sensor close to the potential leak source for fastest possible leak detection.
- 4. Protect sensor from water, excessive humidity, and wash-down.
- 5. Always make a drip loop in the conduit.
- 6. Never mount sensor on a vibrating surface.

Operation

The IR-F9 has two internal pushbutton(s), and two adjustment pots that are utilized for navigation of test functions, calibrations, and operating modes. In addition, a pair of test points is also provided that assist in the connection to standard meter leads for use in the upcoming calibration and diagnostic procedures.

*NOTE: The pushbutton(s) must be pressed the correct number of times and at the correct rate.

ORDERING INFORMATION

IR-F9-R507A Stand-alone infrared refrigerant detector for R507a

RELATED PRODUCTS

DRM Dual relay module

NIOSHSCBA-WC Self-contained breathing apparatus kit with SCBA-WALCASE wall case

UCK-1 Universal calibration kit for non-corrosive gases (N2, CO2, CH4, H2, O2, CO, and refrigerants)

420MDBS Interface module 4 to 20 mA to RS485 with Phoenix connector

Calibration Gases C0, C02, N02, 02, CH4, NH3, N2, H2S, H2, and Refrigerants (See calibration page)

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DCP-1.5-W Power supply, 24 VAC IN to 24 VDC OUT
DCPA-1.2 Power supply, 120 VAC IN to 24 VAC/24 VDC OUT

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