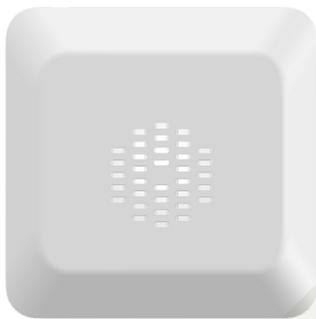# MACURCO™
Building & Home Solutions

Whether you are looking for gas detection for a security system, building automation or HVAC system, for personal safety or for monitoring specific gases in potentially hazardous environments, Macurco has a gas detector to meet your needs.

RD-VRF Series

VRF Refrigerant Leak Detector

The Macurco RD-VRF Refrigerant Gas Detector is designed to provide continuous refrigerant monitoring in VRF (Variable Refrigerant Flow) applications. Depending on the type of refrigerant, a leak in refrigerant gas could develop an oxygen depleting environment that may lead to asphyxiation or combustible refrigerant may lead to an explosion. The RD-VRF Refrigerant Gas Detector comes standard with 2 alarm levels providing advanced warning via low detection alarming and notification locally or via a Building Management System (BMS).

RD-VRF Series

RD-VRF Series

Key Features

• Easy installation to double gang box and 4x4 electrical box

• Aesthetically pleasing – flush mount face plate

• Stable and Accurate NDIR Sensor

• Same Model Provides either 24V or 120V options

• Internal Display for programming/testing

• Minimal maintenance required - recommend calibration yearly

• 2 SPDT (Form C) Relays

• Digital Output: Modbus (STD), BACnet (optional)

• Multicolor LED status indicator

• Built in cal-port connection

• Works with Macurco Digital Control Panels

Applications

• Hotels

• Apartments

• Senior Living

• Hospitality

• Restaurants

• Retail

• Hospitals

• Universities
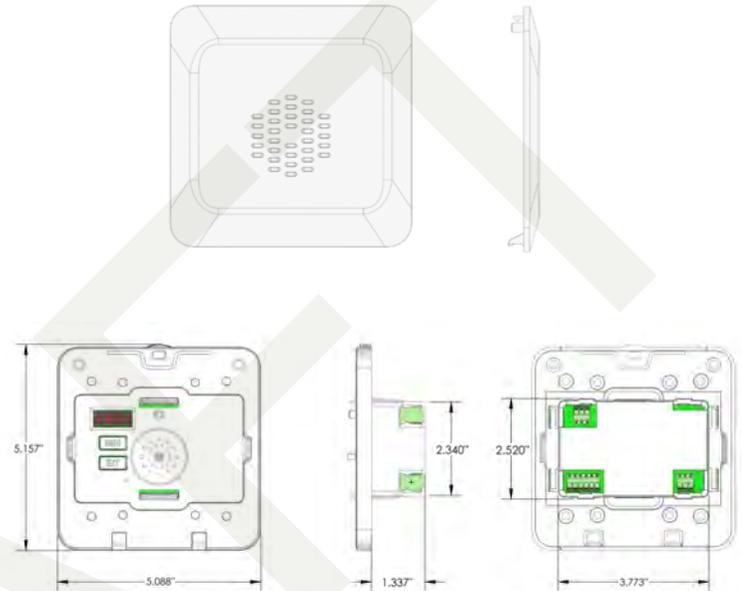
• Multi-Family

• Commercial Offices

RD-VRF Series

Specifications

Size	5.157"(H) x 5.088"(W) x 1.861"(D)
Shipping Weight	0.5 lb. (8 oz.)
Voltage/Current	24VDC / 24VAC - 120VAC
Current Draw	XXmA at 24V, XXmA at 120V
Alarm Levels	1,000 & 2,000PPM
Signal	RS485 serial output, BACnet MSTP
Relays	2 SPDT Relays @ 2.0A at 30VDC
Buzzer	80 dB at 1', 57dB at 10'
Visual Indicator	RGB LED
Operating Temperature	14°F to 122°F (-10°C to 50°C)
Ambient Humidity	0-95% RH non-condensing
Warranty	Two year limited warranty
Life Expectancy	10 years with EOL notification
Certifications	REACH/RoHS
Panel Compatibility	DVP-120M, DVP-120B, DVP-1200 Series

*Please read manual for more specifications

Dimensions

HOW TO ORDER

Use **Bold** characters from chart to configure product code

Example Product Code: **RD-VRF** — **R410A** — **P** — **M**

Series
RD-VRF - Refrigerant Monitor

Gas Type

Unit of Measure
P = PPM
% = %LEL

BACnet
M = Modbus (standard)
B = BACnet

Gas Type (Part #)	Sensor Range & Unit of Measure	Sensor Resolution
R-32	0-10,000 PPM	50 PPM
R-32	0-100% LEL	1% LEL
R-134A	0-5,000 PPM	25 PPM
R-404A	0-5,000 PPM	25 PPM
R-407C	0-5,000 PPM	25 PPM
R-410A	0-10,000 PPM	50 PPM
R-449A	0-5,000 PPM	25 PPM
R-452B	0-100% LEL	1% LEL

Gas Type (Part #)	Sensor Range & Unit of Measure	Sensor Resolution
R-454A	0-100% LEL	1% LEL
R-454B	0-100% LEL	1% LEL
R-454C	0-100% LEL	1% LEL
R-455A	0-100% LEL	1% LEL
R-1234yf	0-5,000 PPM	25 PPM
R-1234yf	0-100% LEL	1% LEL
R-1234ze	0-5,000 PPM	25 PPM
R-1234ze	0-100% LEL	1% LEL

Product Page

MACURCO
GAS DETECTION

Since 1972 Macurco has been providing gas detection solutions for various applications. Macurco provides the highest quality gas detection solutions to customers worldwide.

ISO 9001:2015 CERTIFIED