PRODUCT SPEC SHEET RSRG Range



RG Range

VRF REFRIGERANT GAS DETECTORS







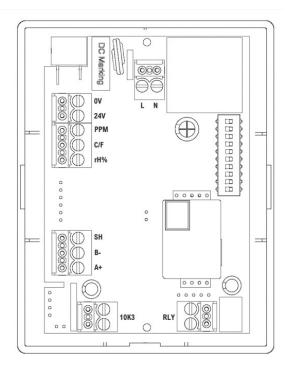
Product Overview:

The AGS Controls RG, our cutting-edge Refrigerant Gas Sensors designed for use with VRF and Chiller Room applications. Designed for a diverse array of environments spanning residential, commercial, and light industrial sectors. Engineered with precision and reliability in mind, our detectors ensure unparalleled performance and safety in spaces such as hotel rooms, apartments, food retailers, and offices. Including Digital RS-485: BACnet MS/TP communication protocols.

Key Features:

- Digital RS-485: BACnet MS/TP communication protocols
- 110V or 24VAC/DC Power Input
- 1 x 0-10V Output Signal
- Methane and R400 Blends: R1234yf / R1234ze / R134a / R32 / R404a / R407c / R410a / R454a / R454b / R454c / R455a (Others on request)
- In-Built Audible Alarm (can be disabled in the field)

Circuit Board Diagram:



CONNECTION	LABEL	TERMINATION	
110V AC IN	POWER LINE IN	L (Line)	
		N (Neutral)	
24V AC/DC INPLIT	AC/DC INPUT 24V IN	+24V	
LAV AO/DOINI OI		OV (Common GND)	
	ANALOG OUT/P +10V OUT	PPM (RF Sensor O/P)	
ANALOG OUT/P			
	RS-485	A+	
DIGITAL OUT/P		B-	
		SH (Shield)	
THERMISTOR	10K3	(No Polarity)	
VFC RELAY	RLY 70mA	(Open/Close Circuit)	

NOTE: Connections depend on Model.



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Technical Specifications

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Mounting **Entry** 1" DIA Rear Entry and Snap offs for side trunking

Display Screen - 3.38" x 4.48" x 1.3" / Blank & LED - 3.38" x 4.48" x 0.98" Size (WxHxD)

2.31lb

Wall Mounted

ABS UL Flame retardant - IP40

Enclosure Electrical

Weight

12-24VDC (11-32 VDC) / 24VAC, (20-27 VAC) 50-60Hz 24V AC/DC Power Rating

110VAC Power Rating Nominal 110VAC, (90-250V AC), 50-60H

Resettable PPTC 110VAC, 400mA Internal Fuse

Communication 127 Units Max 1.5W Max **Power Consumption**

Environmental

Operating Temperature 14°F to 122°F

Storage 32-86°F

0 to 95% RH (continuous) Non-Condensing **Room Humidity**

70 to 110Pa Atmospheric Pressure Altitude <9500ft

Installation Cat (110V Voltage) II (Class 2) Pollution Degree 2

Installation Cat (24V Voltage) III (Class 3) Pollution Degree 2

Inputs / Outputs

BACnet MS/TP (Parity: None Data bit: 8bit Stop bit: 1) **Digital Outputs**

1 x 0-10V Output **Analog Outputs**

Cable Spec

22 - 24 AWG Power 22 - 24 AWG **Analog Output**

User Interface

Lanugage English Optional Display 2.8" TFT

Indication Green: Power (OK) / Yellow: Warning (Pre-Alarm) / Red: Danger (Alarm)

Safety & EMC

IEC 61010-1 Safety

Electromagnetic Compatibility CE, EMC, RoHS, REACH and WEEE Compliant Compliance

Refrigerant Sensor Specification (ppm)

Diffusion Type NDIR Dual Beam Technology Response: t90<30s Warm Up Time: ~1 Minute @ 77°F Accuracy: ± 15% of applied concentration

Lifespan: 10 Years MTBF

Resolution: 50ppm

Long Term Zero Stability +3% of FS range/year

Model Number:

The model numbers for the RG range detectors will vary depending on the refrigerant that is being detected for and if the unit is blank or has an LED.

