PRODUCT SPEC SHEET RSRG Range



RSRG Range

VRF REFRIGERANT GAS DETECTORS







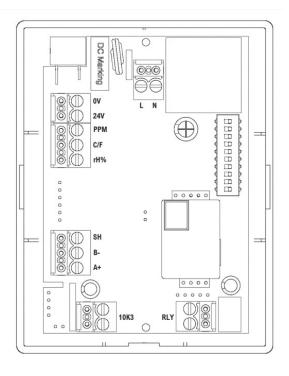
Product Overview:

The AGS Controls RSRG, our cutting-edge Refrigerant Gas Sensors designed for use with VRF (variable refrigerant flow) systems. 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 disbled in the field)

Circuit Board Diagram:



CONNECTION	LABEL	TERMINATION		
110V AC IN	POWER LINE IN	L (Line)		
1101710111		N (Neutral)		
24V AC/DC INPUT	24V IN	+24V		
LAV AO/DOINI OI	240 110	OV (Common GND)		
		PPM (RF Sensor O/P)		
ANALOG OUT/P	+10V OUT			
	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 Wall Mounted

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

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

2.31lb

ABS UL Flame retardant - IP40

Enclosure Electrical

Weight

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

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

Resettable PPTC 110VAC, 400mA

127 Units Max 1.5W Max

Power Consumption

Environmental

Communication

Operating Temperature 14°F to 122°F

Storage 32-86°F

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

70 to 110Pa <9500ft

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

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

Inputs / Outputs

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

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

Cable Spec

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

User Interface

English Lanugage Optional Display 2.8" TFT

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

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