

# AGSR-NDIR Datasheet

## NDIR Refrigerant Gas Detector



**24VAC or DC  
 Power Input**



**Standalone  
 Detector or  
 Used with an  
 AGS Controller**



**LED & Audible  
 Alarm**



**BMS/BAS  
 MODBUS RS485  
 Communications**



**Modern & Compact  
 Design**



**Alarm Relay  
 Dry Contact**



**Plug & Play  
 Installation**

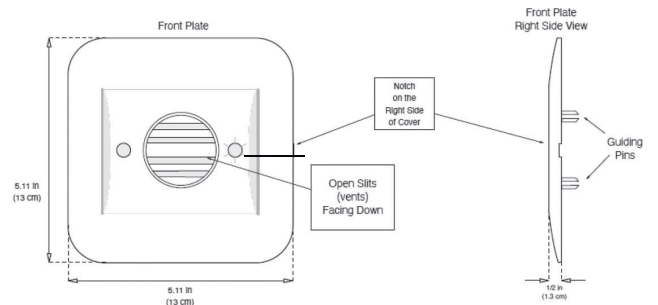


**In-Built  
 Audible Alarm**

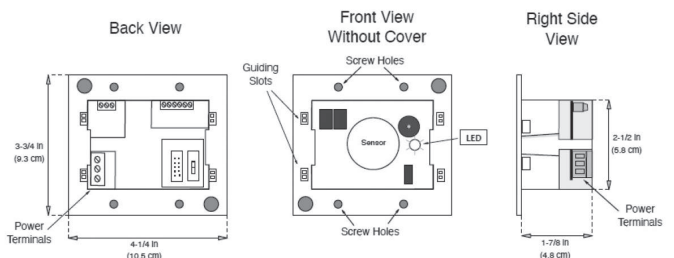
### Product Overview

The AGS Refrigerant gas leak detector with NDIR sensor technology meets the need for a cost-effective and reliable solution to continuously monitor and detect refrigerant gas in occupied space in commercial buildings. The AGS-NDIR detector features is compact, modern, digital design which makes the units aesthetically pleasing, easy to install and reduces maintenance.

### Popular Applications



Mounting Orientation:



# Technical Specification

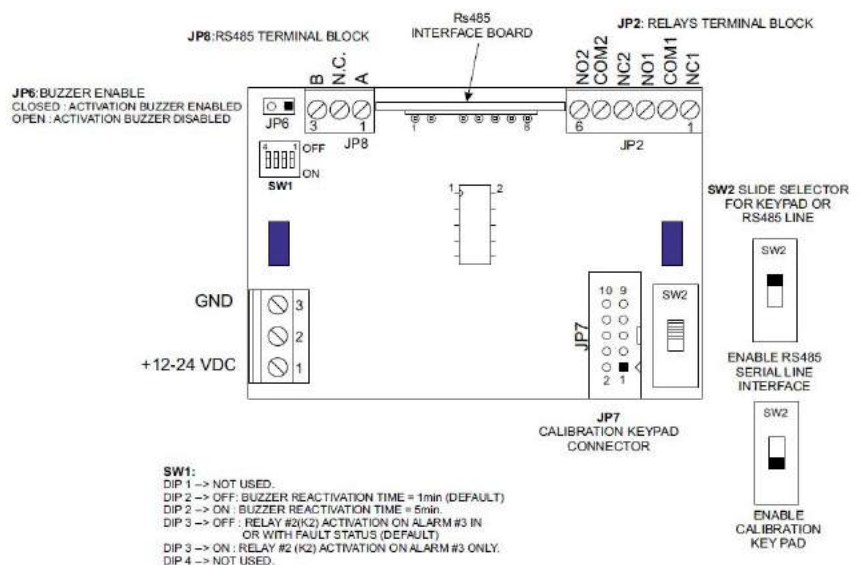
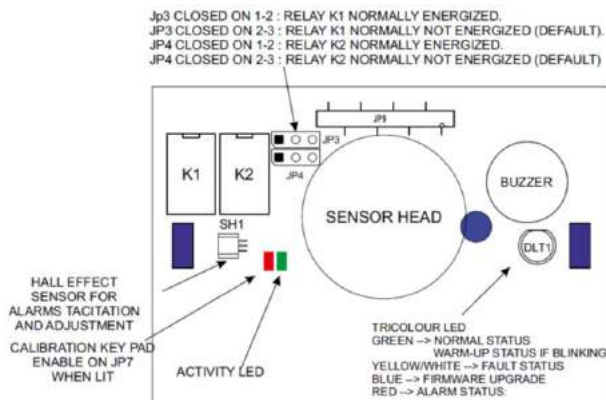
General	
Sensing Element	Non-Dispersive Infrared (NDIR)
Detectable Gases	R410a R407a R404a R32 A2L SELECTABLE
Supply Voltage	24VAC, 120VAC, 60Hz
Power Consumption	44 mA amps @ 120VAC
Relay Output	Two SPDT (Form C) Dry Contacts 1.0A max. @ 24 VDC
Alarm Relays Actuation Points	Relay 1 & 2 at 1000PPM and 2000PPM
Multicolor Status LED Indication	Green Blinking Warm-up Green Fixed status Yellow Fault Red blinking Alarm
Buzzer	83 dB at 10"
Serial Communications	Modbus RTU slave
Transmission Standard	RS485 (2-wire)
Installation	Mounted 18" from the floor, below the discharge of the fan coil. Fits in standard 2 gang PVC junction box.
Factory Calibration Range	5000 PPM
Accuracy	± 5% full-scale range under 50% full-scale, ±7% full-scale range above 50% of full-scale.
Storage Temperature	-15 to 140 F
Operating Temperature	-4 to 140 F
Relative Humidity	0-90 %RH non-condensing
Response time	T90 <30 seconds
Sensor Warmup time	2 min unit initialization – 1 hour for full specification performance
Recommended Maintenance	Accuracy and Bump Test once per year or as required by Code
Warranty	2 years
IP Rating	IP42
Approvals	EN 61000-6-3:2007 + A1:201; EN 50270:2015, IEC 60335-2-40 Annex LL, EN 378-3, EN 50676 and EN 14624, ISP5149-3, REACH/RoHS, CE Mark
Product Weight	0.44 lb. (200 g)
Product Dimensions	Width 5.11 in (13.0 cm), Height 5.11 in (13.0 cm), Depth 2.36 in (6.0 cm)



## Features

- Fits in standard 2 gang PVC Junction Box
- Onboard diagnostics with unit fault alarm
- 5 seconds functionality test
- Available in 24vac or 120vac
- 2 alarm thresholds

## Board Layout



## Area of coverage

Consider the coverage required and function of the area. Emphasis should be placed on airflow patterns and correct placement, not perceived detecting ranges.

The AGSR-NDIR monitor should be installed approximately 1ft from the ground level.

Find out more

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