AquiTron AT-G-ALERT Refrigerant Sensor





R410A 0-10000ppm

Cal Gas 2000pp

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6203-0101

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The all new AquiTron AT-G-ALERT refrigerant gas sensor is designed to provide continuous monitoring in occupied spaces for refrigerants associated with highefficiency, high volume refrigerant cooling and heating systems, such as VRF/VRV (Variable Refrigerant Flow/ Variable Refrigerant Volume) systems. Typical applications include hotels, office buildings, schools, dormitories, hospitals, homes and apartment buildings.

SIMPLE OPERATION

The AT-G-ALERT audible and visual alarms alert occupants and simultaneously communicate to Building Management Systems (BMS). Two on-board relays can be used to close valves, activate further alarm devices and exhaust fans or initiate emergency calls to rescue teams.

VERSATILE DESIGN

The AT-G-Alert is designed for simple installation and maintenance. Design features include:

- Stylish compact unobtrusive design. Fits in standard 47mm deep flush double gang socket boxes.
- Flush mount ABS cover plate available in standard finishes: RAL9016 Gloss White Finish, Brushed Aluminium Finish and Silver Mirror Finish - avaialable tospecial order along with other bespoke finishes.
- Surface mount version available in bespoke RAL9016 white gloss finish enclosure. Self-diagnostics.
- Simple field calibration. No need to remove the unit to calibrate.
- Unique plug in replaceable pre-calibrated sensor.
- Refrigerant specific sensor
- Adjustable delay to avoid false alarms
- Local alarm option, LED and siren (siren mutable)
- Enhanced connectivity by either volt free relay (2x) or on-board Modbus RTU interface
- The on-board Modbus RTU interface can provide real time information on refrigerant concentrations, status and settings. It also enables custom configuration to any application specific requirements using multiple Modbus registers.
- Fully compatible with the AquiNet central monitoring system where compliance to EN378 is required.

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APPLICATIONS

The AT-G-ALERT is ideal for refrigerant gas detection applications in most occupied spaces. Whether you are designing or managing a hotel, an apartment building, concert hall or public building, gas leaks and emissions are a concern. You have to ensure that your systems are safe, that adequate monitoring is in place, and that you are complying with regulations – While still keeping costs under control. AquiTron has a range of gas detection systems to help you meet all those needs The AT-G-ALERT.

All AT-G-ALERT products are:

- · Designed and engineered to meet customers' specific needs
- Fully compliant with EC and international environmental regulations
- Flexible, easy to install and maintain

TECHNICAL INFORMATION

| Detectable Gases | R-410a, R-407c, R-404a, R-32 | |
|-------------------------|--|--|
| Measuring Ranges | 2500ppm, 5000ppm, 10000ppm | |
| Housing | Flush mount, White ABS | |
| Dimensions | Body: 109 (126 inc. tabs) x 57 x 46mm (WxHxD) Cover: 146 x 86 x 3mm (WxHxD), Standard double gang plate size Surface Enclosure: 140 x 98 x 58mm (WxHxD) | |
| Protection | Indoor: IP40, NEMA 1 | |
| Weight | 250g (with sensor and cover) | |
| Power Supply | 100-240 Vac, 50/60Hz, 4w max. | |
| Status LED | Tri colour LED: Green, Amber, Red | |
| Audible Alarm | 80 DB at 30cm | |
| Alarm Delay | 0 – 15 minutes. Configurable; 0, 5, 10, 15 minutes | |
| Recommended Cable Sizes | Power: 3-core, 14-20 AWG (2.0-0.5mm ²) Relay: 3-core, 18-20 AWG (1.0-0.5mm ²) Modbus: 2-core twisted pair shielded cable18-24 AWG (1.0- 0.2mm ²) | |
| Modbus RTU | Connection: RS-485 terminal block Baud rate: 9600 or 19200 Selectable (9600 default) Start bits: 1, Data bits: 8, Parity: none (default), odd/even (selectable) Stop bits: 1 (default) or 2 (selectable) Retry time: 500ms (min) between retries End of message: Silent 3.5 characters | |
| Environmental Range | Operating Temperature: 0-50°C (32-120°F) Storage Temperature: -20-40°C (5-100°F) Humidity: 5-90% RH, non-condensing Pressure: 23.6-32.5 inch of Hg (800-1100hPa) Elevation: 2000m (0-6560 ft.) altitude | |
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2 year minimum life with recommended 6 month testing/

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| | re-calibration |
|------------------------------|---|
| Relays | 2x SPDT, 1A at 30Vdc, 1A at 250Vac (resistive load) |
| APPROVALS | |
| Electromagnetic compatibilit | ty (EMC) |
| CE CE, UL/CSA/IEC/EN 61 | 010-1 |
| ORDERING INFOR | MATION |

Please specify the following when ordering:

• Flush mount or surface mount

Catalogue number

Sensor Life

• Flush mount ABS fascia finish options - gloss white, brushed aluminium standard or brushed mirror silver to special order. *Bespoke finishes also available to special order*.

AT-G-ALERT

- Surface mount is available in gloss white only
- Refrigerant gas type, R410A, R407C, R404A, R32

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Brushed Mirror

Gloss White

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Brushed Aluminium

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