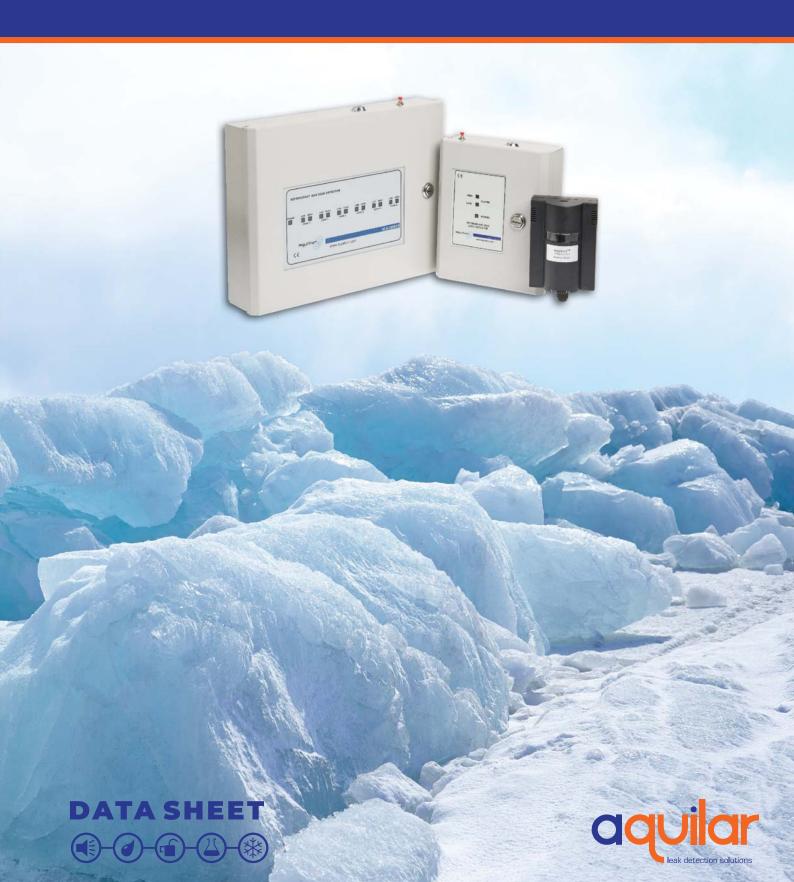
Aquitron | AT-G-DETECT Refrigerant Gas Sensing System









AT-G-DETECT

Gas Sensing System

A scalable solution to your refrigerant gas monitoring needs. Systems are available with a single sensor, or up to 6 sensors on single AT-G- DETECT alarm panel. With two levels of alarm for optional early warning. With a compact standard size the sensors are also available in several optional housings adding to the versatility of the system.

SIMPLE OPERATION

Whether you are 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, that you are complying with regulations – and still keep costs under control. AquiTron has a range of gas detection systems to help you meet all those needs. All AT-G-DETECT products are:

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

APPLICATIONS

The AT-G-DETECT Range is ideal for clients who want a straight-forward rugged gas detection solution. Typical applications include:

- Refrigerant gas leak detection (detection of most refrigerent gases including: NH3, hydrocarbons, halocarbons - HFCs, HCFCs, CFCs)
- Air conditioning chiller / machinery rooms, roof top units and occupied air conditioned spaces, comfort and industrial, including hotels, apartments, homes, offices, leisure centres, schools, prisons etc.
- Refrigiration machinery rooms & cold stores
- · Combustible gases and volatile organic compounds

FEATURES

Up to six sensors, with single or dual level monitoring.

Automatic or manual reset.

Visable and audible alarms and relays.

Constant power and system fault monitoring.

Accurate, stable, long-life remote sensors.

Sensors to monitor all refrigerants, combustible gases, toxic and noxious emissions, volatile organic compounds.



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TECHNICAL INFORMATION - TWO LEVEL

Power Supply	230Vac 50Hz/120Vac 60Hz
Consumption	1+2 Sensor 45mA / 90mA 3+4 Sensor 90mA / 180mA 5+6 Sensor 150mA / 300mA
Status LED	Power - Green LED Yellow LED - Low Alarm. Red LED - High Alarm
Audible Alarm	Internal Siren 80dB (1/2 sensor version) External Siren 110dB (4/6 sensor version) Low level alarm intermittent High level alarm continuous Mute using key switch
Volt Free Relay on Alarm	Two, one on each level 10A at 230Vac/120Vac
Alarm Threshold	Adjustable
Enclosures	Powder Coated Steel, Pale grey BS00A05
IP Rating	IP43
Max Cable Lengths	1/2 Sensor Models = 40 metres/200 feet @ 230Vac, 4 wire cable 7 / 0.2mm 4/6 Sensor Models = 100 metres/500 feet @ 230Vac, 4 wire cable 7 / 0.2mm
PPM	0-1000
Time To Alarm	24 Sec
Recovery	600 Sec
Sensor Life	5-8 Yrs
Temperature Range	-20° - +50°C
Battery Back-Up	Optional (AT-PSU12-1)
Uncommitted Output	4/6 sensor models only, 12Vdc @ 100mA
Relay Expander Box	Optional with a separate volt free relay for each sensor and alarm level for 4/6 sensor models
Panel Dimensions L x W x D	1&2 Channel 198 x 161 x 75mm 4&6 Channel 247 x 327 x 75mm
Sensor Dimensions	120 x 85 x 50mm (L x W x H) Standard Housing IP41

APPROVALS

Electromagnetic compatibility (EMC) EN 50270:2006		
EN61010-1:2010	EN-55011:2009/A1:2010 Group 1 Class A	
AS/NZS 3548:2003 (C-Tick)	FCC Part 15, Subpart B	











ORDERING INFORMATION

Catalogue number	4503 AT-G-DETECT 1S 2L AT-G-DETECT Panel with One Sensor, Two Levels of Refrigeration Detection/Alarm
	4509 AT-G-DETECT 2S 2L AT-G-DETECT Panel with Two Sensors, Two Levels of Refrigeration Detection/Alarm
	4515 AT-G-DETECT 4S 2L AT-G-DETECT Panel with Four Sensors, Two Levels of Refrigeration Detection/Alarm
	4521 AT-G-DETECT 6S 2L AT-G-DETECT Panel with Six Sensors, Two Levels of Refrigeration Detection/Alarm
	4504 AT-G-DETECT 1S 2L NH3 AT-G-DETECT One Sensor, Two Levels of Detection/Alarm - Ammonia
	4505 AT-G-DETECT 1S 2L CO2 AT-G-DETECT One Sensor, Two Levels of Detection/Alarm - Carbon Dioxide (Infrared Sensor)
	4510 AT-G-DETECT 2S 2L NH3 AT-G-DETECT Two Sensors, Two Levels of Detection/Alarm - Ammonia
	4511 AT-G-DETECT 2S 2L CO2 AT-G-DETECT Two Sensors, Two Levels of Detection/Alarm - Carbon Dioxide (Infrared Sensor)
	4516 AT-G-DETECT 4S 2L NH3 AT-G-DETECT Four Sensors, Two Levels of Detection/Alarm - Ammonia
	4517 AT-G-DETECT 4S 2L CO2 AT-G-DETECT Four Sensors, Two Levels of Detection/Alarm - Carbon Dioxide (Infrared Sensor)
	4522 AT-G-DETECT 6S 2L NH3 AT-G-DETECT Six Sensors, Two Levels of Detection/Alarm - Ammonia
	4523 AT-G-DETECT 6S 2L CO2 AT-G-DETECT Six Sensors, Two Levels of Detection/Alarm - Carbon Dioxide (Infrared Sensor)

ANCILLARY PRODUCTS

9093 AT-PSU12-1 Battery Back up PSU

4530 AT-G-IP66 External Sensor Housing - IP66 for high humidity/condensing applications

4537 AT-G-IP66-REM External Housing - IP66 with remote sensor -3m cable for high humidity/condensing applications

4570~AT-G-Eexd-REM EExd For use in areas where flammable gases, vapours or dust is present - ATEX certified - 3m cable

4535 AT-G-IP66-Pitot/Duct Sensor Housing - IP66 with Pitot Tubes (Airflow / Duct Mount)

 $4532\ AT\text{-}G\text{-}PRV$ / Vent Pressure Relief Valve / Vent Pipe Monitoring IP66 enclosure - Gun Metal 1" Head with 3m cable

4533 AT-G-Exd For use in areas where flammable gases, vapours or dust is present

4572 AT-G-IP66-SG Splash Guard for IP66 & EExd. Heavy wash down areas

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