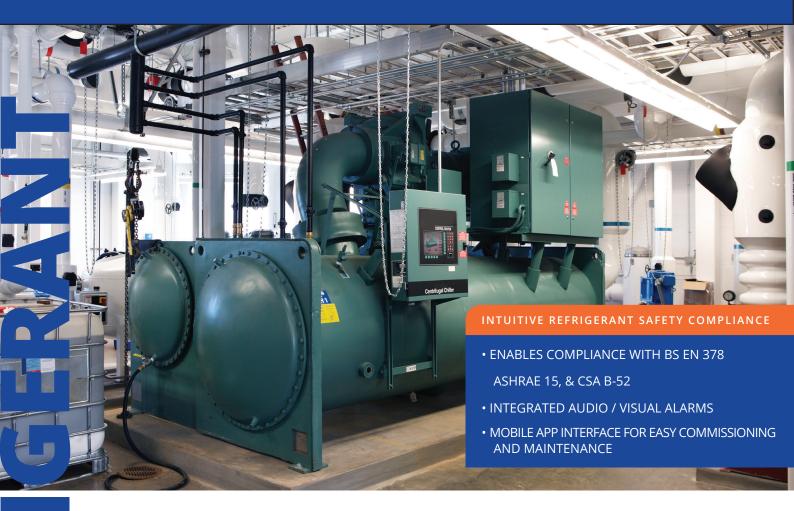
Aquitron

AT-MGS-400 Series gas detectors

detection for refrigerants, toxic and combustible gases







Refrigerant Safety Compliance

has never been more intuitive.

Modern refrigeration systems are designed to be efficient and leak free, but improper installation, inadvertent damage or mechanical wear can result in potentially hazardous leaks. With their rapid response time, low-temperature performance (-40°C) and integrated audio & visual alarms, AT-MGS-400 Series gas detectors make compliance with safety regulations simple and easy.

Machinery Rooms Walk-in Freezers & Cold Rooms Industrial Cold Storage Chiller Rooms



All Gas Detectors Include:









PRODUCT SELECTION GUIDE	AT-MGS-410	AT-MGS-450	AT-MGS-460
Enclosure Rating	IP66	IP41 or IP66	IP66
Digital Communications (MODBUS COMMUNICATIONS TO BMS / BAS)	×	×	~
Analog Communications	_	×	×
Relays (CORRESPONDING TO FAULT, LOW ALARM AND HIGH ALARM)	—	3	3
Remote Sensor			~



Features







AT-MGS-410

AT-MGS-450

AT-MGS-410 Gas Detector

- Integrated audio & visual alarms comply with safety regulations no additional hardware
- Maintains performance in temperatures as cold as -40° C
- Modbus RTU interface, BMS / BAS connectivity

AT-MGS-450 Gas Detector

- Integrated audio & visual alarms comply with safety regulations no additional hardware
- Maintains performance in temperatures as cold as -40° C
- IP41 and IP66 rated ABS enclosures available
- Three relays, fully configurable, correspond to alarm thresholds (Hight / Low) and fault status
- Modbus RTU interface, analog, BMS / BAS connectivity

AT-MGS-460 Gas Detector

- Integrated audio & visual alarms comply with safety regulations no additional hardware
- Maintains performance in temperatures as cold as -40° C
- Remote sensor for monitoring for leaks in inaccessible areas
- Three relays, fully configurable, correspond to alarm thresholds (Hight / Low) and fault status
- Modbus RTU interface, analog, BMS / BAS connectivity



AT-MGS-402 Controller

- LED status indication for "at-a-glance" system / alarm status
- Seamless integration of power / communications for up to two AT-MGS-410 Gas Detectors
- Modbus RTU Master / Slave provides seamless integration from connected gas detectors to many third-party BMS / BAS
- Audible and visual alarms enable compliance with BS EN 378 / ASHRAE 15 - no additional hardware required



AT-MGS-408 Controller

- · Capable of powering up-to 8 gas detectors
- Displays real time data (status / gas measurement) from connected instruments
- Retains alarm & status history of connected gas detectors
- Modbus RTU interface, analog, BMS / BAS connectivity



Application Guide

Mechanical Equipment Rooms

Mechanical Room Gas Detector Selection Guide

	AT-MGS-400	AT-MGS-550	
Sampling Type	Diffusion		
Temperature Range	-40 °C to +50 °C	-30 °C to +40 °C	
Combustible Gases		•	
Stability & Accuracy	Standard	Standard	
Sensor Channels	1	2	
Minimum Detection Level	50 or 200 ppm typical	50 or 200 ppm typical	
User Interface	Mobile App	Local Display	
Parasense Cloud Portal	_	-	

AT-MGS-400 Series

Gas Detection Controller & Multi-Device Platform for a Wide Range of Applications

AT0- MGS-400 Series Gas Detectors

- Mobile user app interface
- Plug-and-play pre-calibrated sensor modules
- Digital and analog communications
- Onboard A/V alarms
- Temperature-compensated measurements down to -40° F/C
- IP41 and IP66 versions
- Remote sensor capability

MGS-400 MOBILE APP

The MGS-400 App allows users to configure, maintain and interface with compatible AT-MGS-400 gas detectors. Once a Bluetooth connection has been established, the app replaces the need for specialty training/tools and makes compliance with safety standards *(BS EN 378, ASHRAE 15)* easy and effective.

Features include:

- **Configuration** (*Rename device, define alarm thresholds, adjust Modbus settings, configure relay behavior and manage analog output settings*).
- Maintenance (Test LED/buzzer function, relays, and analog output level).
- **Calibration** (View sensor type, serial number and "Calibration Due" timer and initiate zero / span calibrations with customizable field calibration certificate).
- Intuitive Interface (View current gas measurement and acknowledge alarm / fault status).











AT-MGS-450

AT-MGS-410



AT-MGS-460





Application Guide



AT-MGS-550

Dual-Gas Detector with Remote Sensors

- Flexible two-sensor capability, local and / or remote
- Two analog outputs and Modbus RTU interface
- Three fully configurable, user-assignable relays
- Magnetic wand enables easy, non-intrusive configuration / calibration
- IP66-rated ABS enclosure provides protection from dust and water
- Works with AT-MGS-408



AT-MGS-408 Gas Detection Controller

8-Channel Controller

- Centralized power and alarming for up to 8 gas sensors, including the AT-MGS-410, AT-MGS-450, AT-MGS-460 and AT-MGS-550
- LEDs and display screen provide a real-time at-a-glance visualization of entire gas detection system alarm status
- Modbus master and slave capabilities allow device to gather full set of data from connected gas detectors and relay to facility's BMS / BAS
- 3 Relays (fault, low alarm, high alarm) and integrated horn / strobe allow controller to activate ventilation or other counter measures.



AT-MGS-402 Gas Detection Controller

2-Channel Controller

- Centralized power and alarming for up to 2 AT-MGS-410 gas detectors
- Modbus RTU Master / Slave provides seamless integration from connected gas detectors to many third-party BMS / BAS
- Audible and visual alarms enable compliance with BS EN 378 AHSRAE 15 no additional hardware required.



Supported Gas Detection by Product

• AT-MGS-400 (410 / 450 /460)

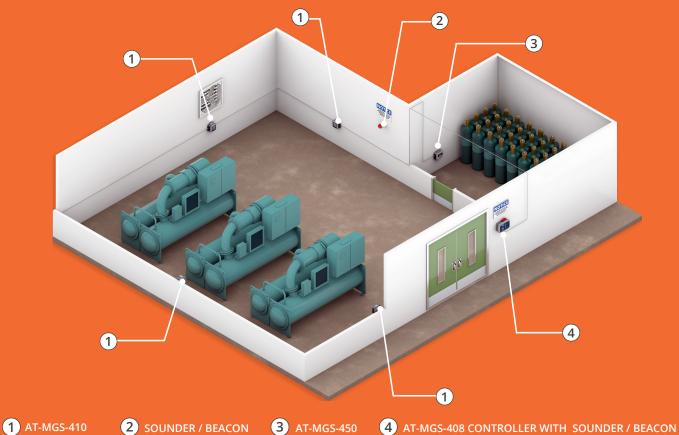
• AT-MGS-550

со • •	0 ₂	•
CO ₂ • •	O ₂ (Low Alarm)	•
Ethylene (C ₂ H ₄)	R-1234yf	•
HFO1233zd(E)	R-1234ze	• •
HFO1234YF •	R-134a	•
HFO1234ZE •	R-22	• •
LPG •	R-290 (Propane)	•
R-50 (Methane)	R-32	• •
NH ₃ / R-717 (Ammonia) •	R-404A	•
NO ₂	R-407A	• •

R-407C	٠	•
R-407F	•	•
R-410A	•	•
R-422	٠	•
R-422D	•	•
R-427A	•	•
R-434A	•	
R-448A	•	•
R-449A	•	•
R-450A	٠	

R-452A		•	•
R-452B		•	
R-454A		•	
R-454B		•	
R-454C		•	
R-455A		•	
R-507			•
R-507A		•	
R-513A		•	•
R-600 (Butan	e)	•	•

AT-MGS-400 SERIES EXAMPLE: MECHANICAL ROOM CONFIGURATION



ddu leak detection solutions

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CAN WE HELP YOU?

If you have a project that Aquilar can assist with please call us on 01403 216100.