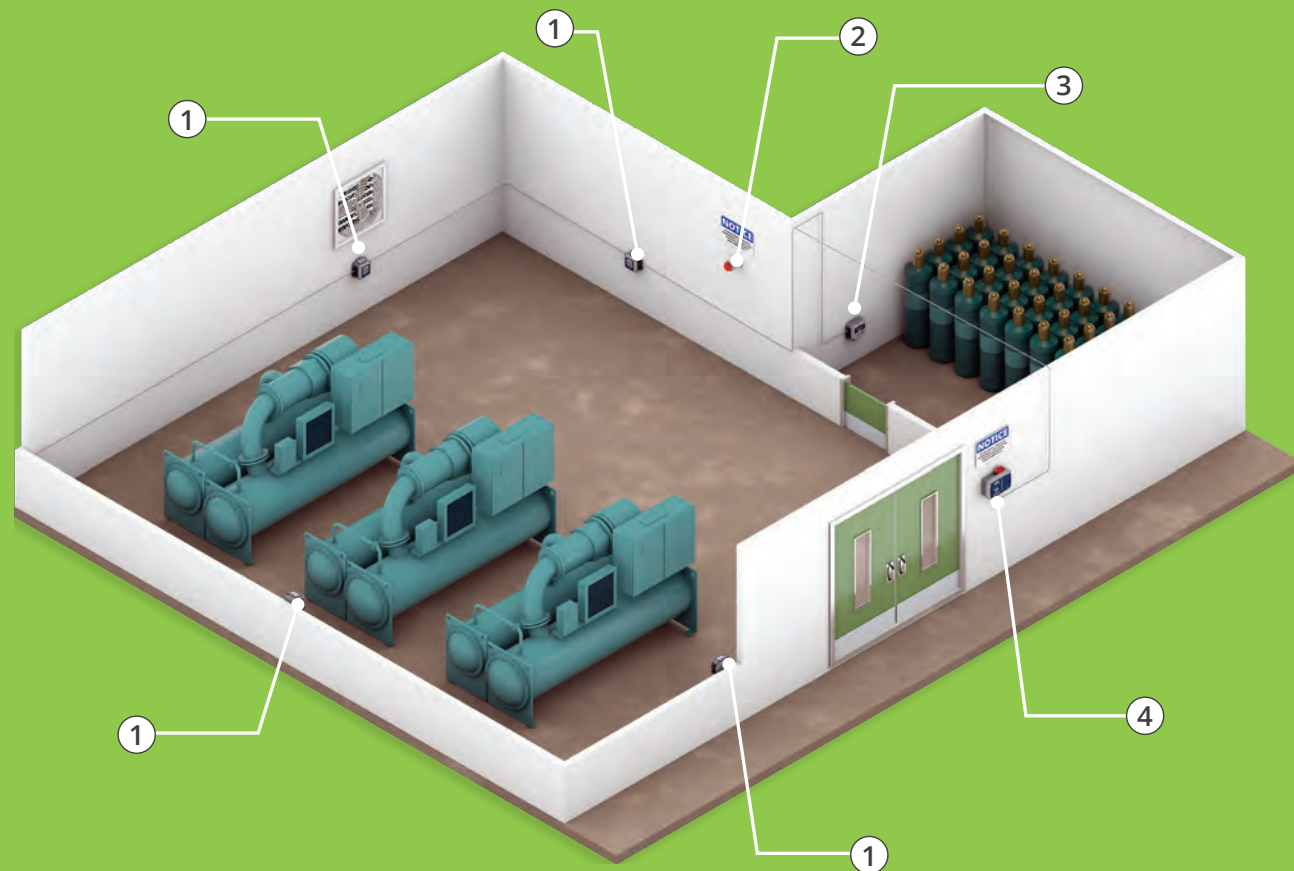


## MGS-400 SERIES EXAMPLE: MECHANICAL ROOM CONFIGURATION



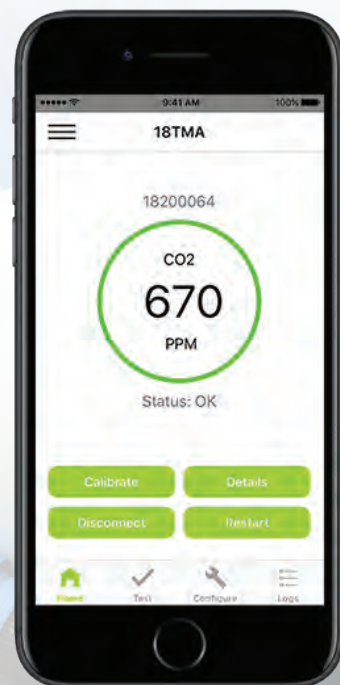
- 1 MGS-410
- 2 HORN / STROBE
- 3 MGS-450
- 4 MGS-408 CONTROLLER WITH HORN / STROBE

## MGS-400 MOBILE APP

The Bacharach MGS-400 App allows users to configure, maintain and interface with compatible 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 (ASHRAE 15, EN 378) 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).



MGS-400 Mobile App

DOWNLOAD TODAY



Pittsburgh, PA USA | Dublin, IRE | Stanardsville, VA, USA | Toronto, CAN  
 mybacharach.com | help@mybacharach.com

MKTG00136 | Rev 2 | Marketing Communications | Subject to Modifications | © Bacharach Inc

# MGS-400 SERIES GAS DETECTORS

detection for refrigerants, toxic and combustible gases



### INTUITIVE REFRIGERANT SAFETY COMPLIANCE

- ENABLES COMPLIANCE WITH ASHRAE 15, EN 378 & CSA B-52
- INTEGRATED AUDIO / VISUAL ALARMS
- MOBILE APP INTERFACE FOR EASY COMMISSIONING AND MAINTENANCE



# 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° F / C) and integrated audio & visual alarms, MGS-400 Series gas detectors make compliance with safety regulations simple and easy.

## Machinery Rooms

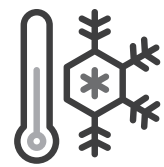
## Walk-in Freezers & Cold Rooms

## Industrial Cold Storage

## Chiller Rooms



### All Gas Detectors Include:



**EFFECTIVE**  
LOW TEMPERATURE  
PERFORMANCE



**INTUITIVE**  
INSTALLATION



**BLUETOOTH**  
CONNECTIVITY



**BMS / BAS**  
INTEGRATION



MGS-410

MGS-450

MGS-460

### MGS-410 Gas Detector

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

### MGS-450 Gas Detector

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

### MGS-460 Gas Detector

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



### MGS-402 Controller

- LED status indication for “at-a-glance” system / alarm status
- Seamless integration of power / communications for up to two 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 ASHRAE 15 / EN 378 - no additional hardware required



### 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

### PRODUCT SELECTION GUIDE

	MGS-410	MGS-450	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	—	—	✓

### Gas Detection Library

CO	R-717 (Ammonia)	R-134a	R-407A	R-422D	R-450A	R-454C
CO <sub>2</sub>	NO <sub>2</sub>	R-22	R-407C	R-427A	R-452A	R-455A
HFO1234YF	O <sub>2</sub> (Low Alarm)	R-290 (Propane)	R-407F	R-434A	R-452B	R-507A
HFO1234ZE	R-1234yf	R-32	R-410A	R-448A	R-454A	R-513A
R-50 (Methane)	R-1234ze	R-404A	R-422	R-449A	R-454B	R-600 (Butane)