MGS-400 SERIES EXAMPLE: **MECHANICAL ROOM CONFIGURATION**
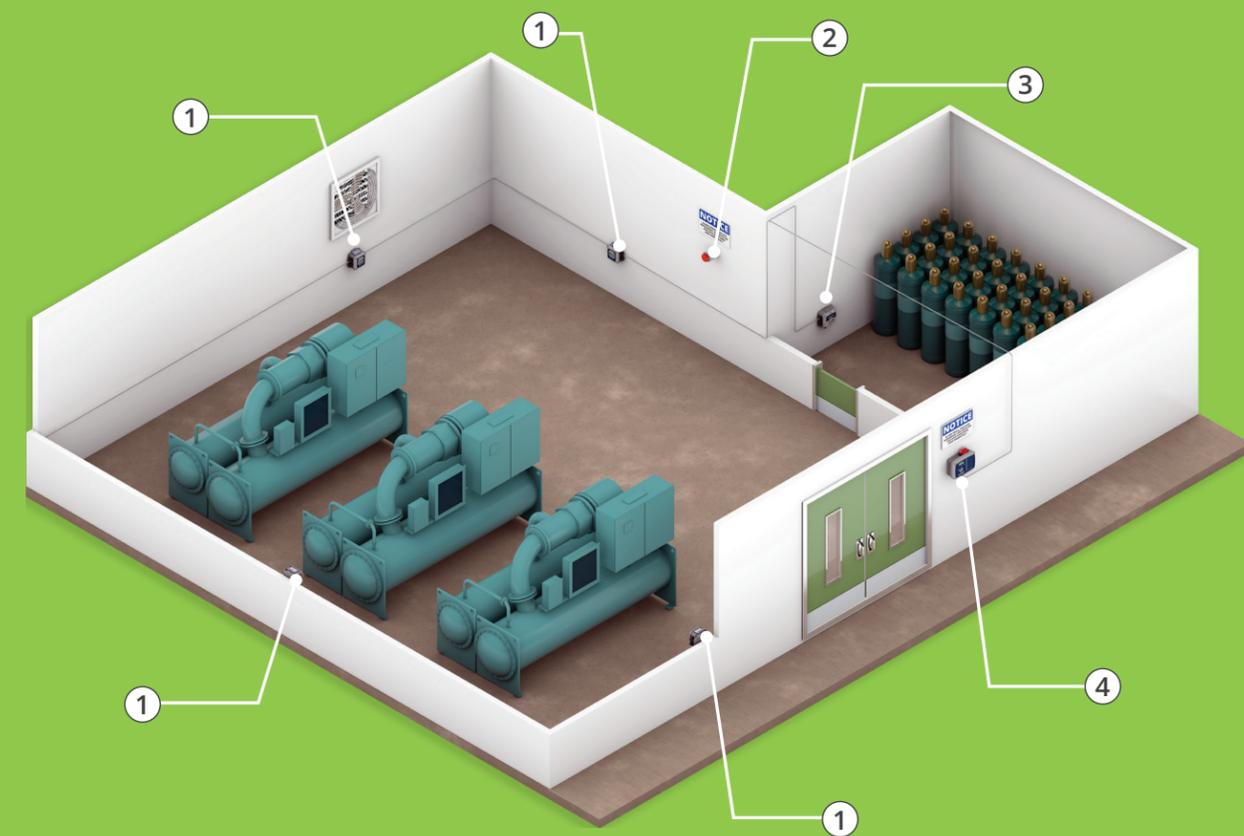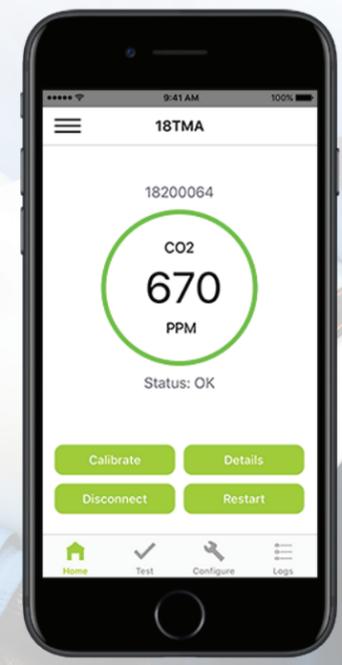
① MGS-410   ② HORN / STROBE   ③ MGS-450   ④ MGS-408 CONTROLLER WITH HORN / STROBE

MGS-400 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

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)*.

DOWNLOAD TODAY

Download on the **App Store**

Available on the Android **App Store**

18TMA

18200064

CO_2

670

PPM

Status: OK

Calibrate | Details
Disconnect | Restart

Home | Test | Configure | Logs

MGS-400 Mobile App

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

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

MULTIPLE CABLE GLAND ENTRIES

AUDIO-VISUAL ALARMS

BACHARACH®
MGS-450 | GAS DETECTOR

FLUSH-MOUNTED SENSORS

IP41 OR IP66-RATED ENCLOSURE

All Gas Detectors Include:

EFFECTIVE LOW TEMPERATURE PERFORMANCE

INTUITIVE INSTALLATION

BLUETOOTH CONNECTIVITY

BMS / BAS INTEGRATION

MGS-410   MGS-450   MGS-460

Integrated Perimeter Strobe

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 (Hight / 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 (Hight / 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_2	NO_2	R-22	R-407C	R-427A	R-452A	R-455A
HFO1234YF	O_2 (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)