

PRODUCT SELECTION GUIDE

	MGS-410	MGS-450	MGS-460
IP41-RATED ENCLOSURE (PROTECTED AGAINST SOLID OBJECTS & SPLASHED WATER)		✓	
IP66-RATED ENCLOSURE (PROTECTED FROM DUST AND HIGH PRESSURE WATER JETS)	✓	✓	✓
DIGITAL COMMUNICATIONS (MODBUS COMMUNICATIONS TO BMS / BAS)	✓	✓	✓
ANALOG COMMUNICATIONS		✓	✓
3×RELAYS (CORRESPONDING TO LOW ALARM, HIGH ALARM AND FAULT)		✓	✓
REMOTE SENSOR			✓

EXAMPLE: MACHINERY ROOM CONFIGURATION



MKTG00135 | Rev 0 | Marketing Communications | Subject to Modifications | © Bacharach Inc

MGS-400 GAS DETECTION SERIES

for commercial and industrial applications



Pittsburgh, PA USA | Dublin, IRE | Gloucester, UK | Standardsville, VA, USA | Toronto, CAN  
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# REFRIGERATION SAFETY COMPLIANCE

has never been more intuitive.

Bacharach offers innovative solutions designed for extreme temperature refrigeration environments, for early leak detection with minimum detectable levels from 1 ppm and a range of instruments for use in compliance and safety applications.

**Machinery Rooms**

**Walk-in Freezers  
& Cold Rooms**

**Industrial Cold Storage**

**Chiller Rooms**



## All Gas Detectors Include:



INTEGRATED  
AUDIO-VISUAL  
ALARMS



MULTIPLE  
CABLE GLANDS



EASY  
TO WIRE



LOW TEMPERATURE  
PERFORMANCE



REFRIGERANT-  
SPECIFIC SENSORS



## MGS-450 Gas Detector

- Integrated audio & visual alarms comply with safety regulations — no additional hardware
- Maintains performance in temperatures as cold as -40° F (-40° 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-410 Gas Detector

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

## MGS-400 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 & CAPABILITIES:

- 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.)

Available on the App Store and Google Play

## FOR MORE INFORMATION

VISIT [MYBACHARACH.COM](http://MYBACHARACH.COM) OR

CALL 800-736-4666 TO SCHEDULE

A FREE CONSULTATION