

MGS-400 Gas Detectors

For Safety Compliance in Mechanical Equipment Rooms, Freezers, and Cold Rooms

BACHARACH

DESCRIPTION

Bacharach's MGS-400 Gas Detectors makes compliance with mechanical equipment room and refrigeration safety codes simple and easy, saving time and money on equipment and installation. Using the MGS-400 App, users can intuitively use, commission and maintain their gas detection system without the need for specialty training or tools. Pre-calibrated sensor modules simplify maintenance, take minutes to exchange and do not require the use of calibration gas. The MGS-400 sensors can trigger additional audio-visual alarms and act as a standalone gas detection system, or integrate easily into a BMS / BAS or with Bacharach's optional MGS-408 Gas Detection Controller.

FEATURES

BENEFITS

Mobile App Interface

Quick, easy and intuitive commissioning, configuration and maintenance requires no special training. No tools required to set alarm levels and behavior.

Pre-calibrated Sensors

Fast and easy sensor maintenance. Eliminates need for calibration gas.

Semi-automated Calibration

Easy calibration process with mobile app. Generate calibration certificates for documentation.

Remote Sensor Option

Locate the sensor element in hard-to-reach areas and the base unit where convenient for electrical and communication wiring (MGS-460)

Temperature-Compensated Measurement

Mitigates false alarms and optimizes accuracy in refrigeration applications.

Low Temperature Performance

Suitable for use in cold rooms and freezers down to -40° F/C.

Digital Communications

Integrate with local BMS/BAS via Modbus RTU

Analog Outputs

For current or voltage output to legacy systems (MGS-450/460)

Relay outputs

3 relays available for alarm and fault events to active horn/strobes and ventilation (MGS-450, MGS-460)

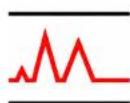
Audio & Visual Alarms

On-board alarm notification supports compliance with ASHRAE 15 / EN 378

Multiple Cable Entries and Terminals

Quick and easy installation of all wiring; daisy-chain power and digital communications.

For ordering information see the Bacharach website or contact your Bacharach sales manager, technical support, or customer service.



Equipamientos Analíticos S.A

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PRODUCT CONFIGURATIONS		MGS-410	MGS-450	MGS-460
Enclosure Rating		IP66	IP41, IP66	IP66
Configurable Relays	Settings	n/a	SPDT, Low (1), High (2), Fault (3)	
	Rating		Rating 1 A @ 30 VDC	
Digital Communications		Modbus RTU		
Analog Output	Single configurable	n/a	4 to 20 mA, 0 to 5 V, 0 to 10 V, 1 to 5 V, 2 to 10 V	
Sensor		Integrated	Integrated	Remote
Size		5.1" × 5.1" × 2.7" (130 × 130 × 68 mm)	IP41: 6.5" × 6.5" × 3.0" (165 × 165 × 77 mm) IP66: 6.5" × 6.5" × 3.4" (165 × 165 × 87 mm)	Base Unit: 6.5" × 6.5" × 3.4" (165 × 165 × 87 mm) Remote Unit: 4.5" × 5.4" × 2.7" (115 × 136 × 68 mm)
Weight (Approx)		9.2oz (260 g)	1lb, 1oz (480 g)	1lb, 11.7oz (758 g)

SPECIFICATIONS		MGS-410	MGS-450	MGS-460
Gases and Range	HFC's/HFO	1,000 ppm		
	CO ₂	5,000 / 10,000 / 20,000 / 30,000 / 40,000 / 50,000 ppm		
	NH ₃	100 / 1,000 / 5,000 / 10,000 / 100% LEL		
	O ₂	30 Vol%		
	CO	500 ppm		
	Combustible - Semiconductor (R-290, R-600, R-50, R-600a, HC-12a, R-717)	5,000 ppm		
	Combustible - NDIR (R-600, R-50, R-290)	100% LEL		
	Combustible - Catalytic (R-600, R-50, R-290, R-717)	100% LEL		
	NO ₂	20 ppm		
Status Indicator		Single Tri-color LED (green, red, orange)		
Audio Alarm		Buzzer, 72db @ 10cm		
Power		24V AC or DC (auto selecting), 4W (max)		
Approvals		CE, UL / CSA / IEC EN 61010-1		
Ambient Conditions	Temperature			
	Semiconductor	-40 to 122°F / -40 to +50°C		
	Electrochemical	NH3 100 / 1,000 ppm: -40 to 40°C NH3 5,000 ppm: -20 to 40°C CO 500 ppm: -40 to 50°C NO2 20 ppm: -20 to 40°C O2 30% Volume: -20 to 50°C		
	Infrared	-40 to 122°F / -40 to +50°C		
	Catalytic Bead	-40 to 122°F / -40 to +50°C		
	Humidity	5 to 90 % RH, non-condensing		
	Pressure	23.6 to 32.5 inch Hg / 800 to 1,100 mbar		