



MGS-460 Gas Detector

for Safety Compliance in Refrigeration Applications

FEATURES

Mobile App Interface

Simple Configuration via App

Remote Sensor (5 m cable)

Pre-calibrated Sensors

Semi-automated Calibration

Temperature-compensated Measurement

Analog and Digital Communications

On-board Relays

Audible and Visual Alarms

Multiple Cable Entries and Terminals

Low-temperature Performance

BENEFITS

Quick, easy and intuitive commissioning, configuration and maintenance requires no special training

No tools required to set alarm behavior and alarm levels

Install gas detection in hard-to-reach areas

Saves time and money on maintenance procedures

Easy process with no potentiometers or volt meters

Mitigates false alarms and optimizes accuracy in refrigeration applications

Integrates with BMS / BAS control systems via Modbus and / or analog outputs

Triggers additional alarm beacons and mechanical ventilation in the event of a refrigerant leak

Complies with ASHRAE 15 / EN 378 - no additional hardware

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

Suitable for use in all refrigeration applications from machinery rooms to freezers

Refrigerant Gas Detector with Remote Sensor for Halogenated and Natural Refrigerants with Digital and Analog Communications

DESCRIPTION

Bacharach's MGS-460 Gas Detector makes compliance with refrigeration safety codes simple and easy, saving time and money on equipment and installation. The remote sensor allows for gas detection to be installed in hard-to-reach areas with a conveniently located electrical and communication interface. 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-460 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.

HOW TO CONTACT US:

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FOR MORE INFO:

Scan the QR code to learn more about the MGS-460 and other Bacharach products.



TECHNICAL DATA

PRODUCT ATTRIBUTES	DESCRIPTION		DEFINITION
Gases and Ranges	Refrigerants		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 / 100% LEL
	O ₂		30 Vol%
	CO		500
	Combustible gases - Semiconductor (R-290, R-600, R-50, R-600a, HC-12a, R-717)		5,000 ppm
	Combustible gases - NDIR (R-600, R-50, R-290)		100% LEL
	Combustible gases - Catalytic (R-600, R-50, R-290, R-717)		100% LEL
	NO ₂		20 ppm
Status Indicator	Single tri-color LED (green, red, orange)		
Buzzer	72dB @ 10 cm		
Output	Single configurable analog output		4 to 20 mA, 0 to 5 V, 0 to 10 V, 1 to 5 V, 2 to 10 V
	Digital		Modbus RTU via RS 485
Power Supply	24V AC or DC (auto selecting), 4W (max)		
Relay	Three relays, SPDT, fixed low / high fault alarms		
	Rating 2 A @ 30 VDC		
Enclosure	IP66		
Size (W×H×D) Approx.	General purpose (base)		6.5" × 6.5" × 3.4" (165 × 165 × 87 mm)
	Remote head		4.5" × 5.4" × 2.7" (115 × 136 × 68 mm)
Weight Approx.	1lb, 11.7oz (758 g)		
Approvals	CE, UL / CSA / IEC EN 61010-1		
Ambient Conditions	Temperature	Semiconductor	-40 to 122°F / -40 to +50°C
		Electrochemical	NH ₃ 100 / 1,000 ppm: -40 to 40°C
	NH ₃ 5,000 ppm: -20 to 40°C		
	CO 500 ppm: -40 to 50°C		
	NO ₂ 20 ppm: -20 to 40°C		
	O ₂ 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		

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