MGS-410 Gas Detector



for Safety Compliance in Refrigeration Applications



DESCRIPTION

MSA Bacharach's MGS-410 Gas Detector makes compliance with 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-410 allows installers to daisy-chain power and Modbus communication cables across the system, and can be easily integrated into a BMS / BAS, or with MSA Bacharach's optional MGS-408 Gas Detection Controller.

REFRIGERANT GAS DETECTOR FOR HALOGENATED AND NATURAL REFRIGERANTS WITH DIGITAL COMMUNICATIONS

Features	Benefits		
Mobile App Interface	Makes commissioning, configuration and maintenance intuitive and requires no special training or tools to set alarm behavior and / or thresholds		
Pre-calibrated Sensors	Saves time and money on maintenance procedures		
Semi-automated Calibration	Easy process with no potentiometers or volt meters		
Temperature-compensated Measurement	Mitigates false alarms and optimizes accuracy in refrigeration applications		
Digital Communications	Integrates with BMS / BAS control systems via Modbus		
Audible and Visual Alarms	Complies with ASHRAE 15 / EN 378 - no additional hardware		
Multiple Cable Entries and Terminals	Quick and easy installation of all wiring; daisy-chain power and digital communications		
Low-temperature Performance	Engineered for use in all refrigeration applications (machinery rooms, cold storage, walk-in freezers) and maintains performance at temperatures as low as -40°F (-40°C)		



MORE INFORMATION:

Scan the QR code to learn about the MGS-410 and other MSA Bacharach products.

MGS-410 Gas Detector



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	
	02		30 Vol%	
	СО		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	Digital		Digital	
POWER SUPPLY	24V AC or DC (auto selecting), 4W (max)			
ENCLOSURE	IP66			
SIZE (W×H×D) APPROX.	5.1" × 5.1" × 2.7" (130 × 130 × 68 mm)			
WEIGHT APPROX.	9.2oz (260 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	Pressure 23.6 to 32.5 inch Hg / 800 to 1,100 mbar		

Note: This Bulletin contains only a general description of the products shown. While product uses and performance capabilities are generally described, the products shall not, under any circumstances, be used by untrained or unqualified individuals. The products shall not be used until the product instructions/user manual, which contains detailed information concerning the proper use and care of the products, including any warnings or cautions, have been thoroughly read and understood. Specifications are subject to change without prior notice. MSA is a registered trademark of MSA Technology, LLC in the US, Europe, and other Countries. For all other trademarks visit https://us.msasafety.com/Trademarks.

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