Ribble Enviro

...everything gas detection

Data Sheet

MGS-410 Gas Detector

for Safety Compliance in Refrigeration Applications

MSA
The Safety Company

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.

SAFEGUARDING
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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	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	23.6 to 32.5 inch Hg / 800 to 1,100 mbar	

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