

Ribble Enviro
...everything gas detection

Data Sheet

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MGS-250 Infrared Gas Detector

Safety Gas Detection for CFC, HFC, HCFC, and HFO Refrigerants



Integrated Audible and Visual Alarms

Infrared Sensor Technology, providing up to 7 years of service

Modbus connectivity to integrate with BMS / BAS systems

Four digit alpha numeric LED display

Simple user interface for easy control

Calibration Port

LONG-LIFE INFRARED-BASED REFRIGERANT DETECTOR MINIMIZES FALSE ALARMS

MSA Bacharach's MGS-250 gas detector is an effective solution for compliance with refrigeration safety codes (ASHRAE 15/34, EN378* and CSA-B52) and emissions reduction standards (EPA 608/CARB and F-Gas).

- Long-life, proprietary infrared (NDIR) sensor provides up to 5 years of maintenance-free service while detecting the presence of a target gas down to 10 ppm Minimum Detection Level (MDL). Factory preset is 75 ppm
- Broadband version available allow to select group of refrigerants
- Sensor is not prone to false alarms caused by cross-interference from other gases or sudden changes in temperature or humidity
- 4-digit LED display shows real-time concentration readings and makes configuration and self-diagnostics intuitive
- Configurable analog output (4-20mA, 0-5V, 0-10V, 1-5V or 2-10V) and Modbus communications for integration with Bacharach's MGS-408 controller or third-party BMS / BAS control systems
- User-configurable relay (alarm) may be used to activate external beacons / sounders, ventilation or other countermeasures
- Integrated audible / visual alarms for refrigeration safety compliance – no additional hardware

* for A1 Refrigerants

Specifications

Sensor Channels	1
Sensitivity / Minimum Detection Level	10 ppm (75 ppm default)
Enclosure Rating	General Purpose
Analog Communications	4 to 20 mA, 0 to 5 V, 0 to 10 V, 1 to 5 V, 2 to 10 V selectable
Digital Communications	Modbus RTU via RS 485
Buzzer Volume	80 dB @ 10 cm
Product Dimensions (L x W x H)	4.0" x 5.5" x 1.5" (100 x 140 x 40 mm)
Product Weight	6.3 oz (180 g)
Sensor Type	NDIR
Expected Sensor Service Life	Up to 5 Years
Supports/Enables Compliance with Industry Codes & Regulations	ASHRAE 15, CSA B52.2, EN 378, CARB RMP, F-Gas Regulation
Product Performance Approvals	EMC Directives, CE Mark, UL / CSA / IEC 61010-1
Power	24V AC/DC 2.5W
Warranty	1 Year

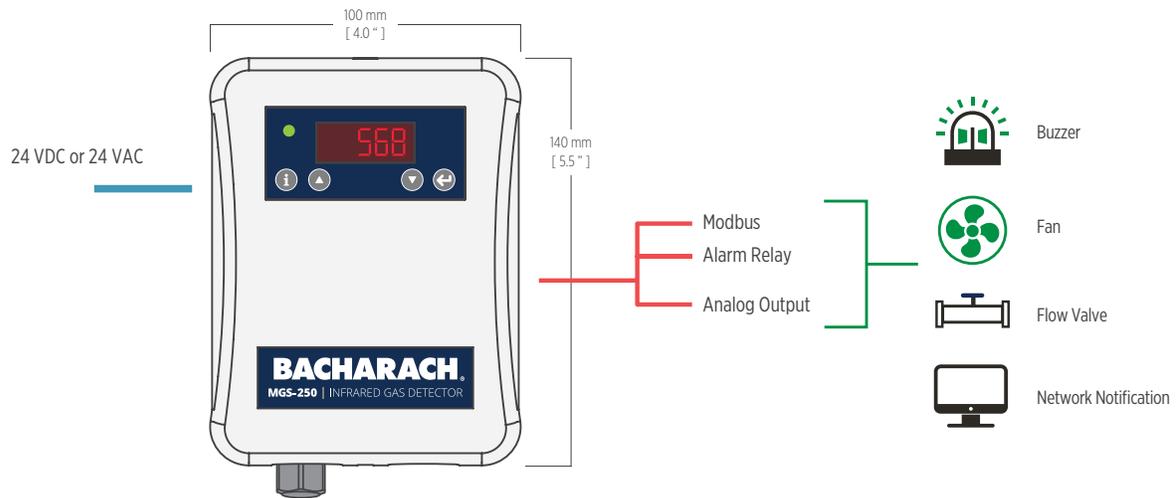


More Information:

Scan the QR code to learn more about the MGS-250 and other MSA Bacharach products.

SAFEGUARDING PEOPLE, PLACES & THE PLANET.

MGS-250



MGS-250 Part Numbers

GAS	ACCURACY	GAS GROUP	PART NUMBER	REPLACEMENT SENSOR
BROADBAND	-	-	H6401-0500	H6400-0015
R-134A	±5%	1	H6401-0503	H6400-0018
R-404A	±5%	1	H6401-0504	H6400-0019
R-407A	±3%	1	H6401-0505	H6400-0020
R-407C	±3%	1	H6401-0506	H6400-0021
R-407F	±3%	1	H6401-0507	H6400-0022
R-410A	±3%	1	H6401-0508	H6400-0023
R-427A	±3%	1	H6401-0511	H6400-0026
R-452B	±5%	1	H6401-0521	H6400-0036
R-507	±5%	1	H6401-0512	H6400-0027
R-1233ZD	±5%	1	H6401-0515	H6400-0030
R-448A	±5%	2	H6401-0517	H6400-0032
R-449A	±5%	2	H6401-0518	H6400-0033
R-422A	±5%	2	H6401-0509	H6400-0024
R-422D	±5%	2	H6401-0510	H6400-0025

GAS	ACCURACY	GAS GROUP	PART NUMBER	REPLACEMENT SENSOR
R-1234YF	±5%	2	H6401-0513	H6400-0028
R-1234ZE	±5%	2	H6401-0514	H6400-0029
R-452A	±5%	2	H6401-0520	H6400-0035
R-513A	±5%	2	H6401-0519	H6400-0034
R-514A	±5%	2	H6401-0522	H6400-0037
R-22	±5%	3	H6401-0501	H6400-0016
R-32	±5%	4	H6401-0516	H6400-0031
R-454B	±5%	3	H6401-0524	H6490-0075
R-454C	±5%	2	H6401-0525	H6490-0076

Accessories

DESCRIPTION	PART NUMBER
SPLASH / PROTECTIVE SHIELD (FOR USE IN SPRAY DOWN AREAS)	H6900-0001
REPLACEMENT MOUNTING BASE	H6400-0014