

MGS-402 Gas Detection Controller

2-Channel Controller for Refrigerant, Toxic and Combustible Gas Detection



The Safety Company



DESCRIPTION

MSA Bacharach's MGS-402 Gas Detection Controller centralizes the status of up to two MSA Bacharach MGS-410 Gas Detectors, providing a complete package for your safety compliance application. On the front panel of the MGS-402 a bank of LEDs corresponds to each connected gas detector; showing power, alarm status and fault indicators. The MGS-402 can provide the power requirements for up to two gas detectors, which can be daisy-chained with Modbus communication to each gas detector; simplifying and reducing the cost of installation.

Combining the MGS-402 Gas Detection Controller with MSA Bacharach's MGS-410 Gas Detector provides a complete, single source gas detection system with an easy means of achieving compliance with refrigeration safety standards such as EN 378 and ASHRAE 15.

Features

LED status indication for "at-a-glance" system / alarm status

Seamless integration with MGS-410 Gas Detector

Controller power up to two MGS-410 Gas Detectors

Modbus RTU Master / Slave provides seamless integration from connected gas detectors to many third-party BMS / BAS

Audible and visual alarms enable compliance with ASHRAE 15 / EN 378 - no additional hardware required

Specifications	Description
ENCLOSURE RATING	IP66
OPERATING TEMPERATURE	-40 - 113°F (-40 - 50°C)
POWER	100 - 240 VAC, 50/60 Hz, 20W (max); 24 VDC
SIZE (W×H×D) APPROX.	6.5 × 6.5 × 3.4" (165 × 165 × 87mm)
WEIGHT APPROX.	1 lb, 11.07 oz (758 g)
CABLE ENTRIES	2 × M20 / 1/2" Conduit (Power), 6 × M16 Cable Glands (Communications)
APPROVALS	CE, UL / CSA / IEC EN 61010-1

Part Number	Description
6702-8020	MGS-402 Controller

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Product Details	Description
USER INTERFACE	Front Panel Push Buttons; DIP switches
CONFIGURABLE RELAYS	1 × Low Alarm, 1 × High Alarm, 1 × Fault (240 VAC @ 10A)
ANALOG OUTPUT	2 × Configurable 4-20mA, 1-5, 2-10VDC
ALARM SILENCE	2 × Front Panel Push Buttons, 1 × Auxiliary Input
SERIAL PORTS	1 × RS485 Modbus RTU Slave for BMS / BAS, 1 × RS485 Modbus RTU Master for Gas Detectors

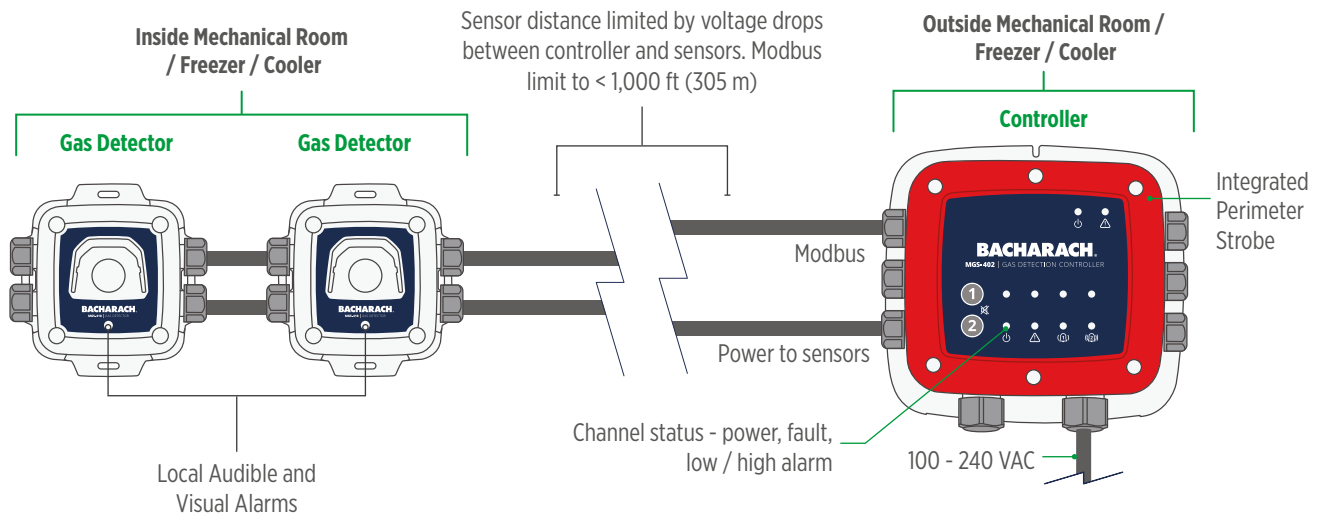
Inputs

100 - 240 VAC
BMS Modbus
Alarm Silence



Outputs

Low Alarm Relay
High Alarm Relay
Fault Relay
BMS Modbus
Analog CH 1
Analog CH 2



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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