PRODUCT SPEC SHEET GM100 Dual Gas Monitor

AGS GM100 Combined Dual Gas Monitor With Bacnet MS/TP & Modbus RTU



Key Features:

- NFC app configuration
- Single or dual gas monitoring
- Replaceable, plug-and-play smart sensor modules
- Non-intrusive calibration
- Splash guard accessories for improved IP rating
- Modbus RTU or BACnet MS/TP (field selectable)
- 0-10V or 4-20mA output (field selectable)
- Relay output
- 24V AC/DC power supply
- Display screen and RGB LED status indication
- Gas Performance UL2075 (CO & NO2)
- Supplied calibrated
- Strong anti-interference circuit boards and RoHS compliant
- Corrosion-resistant enclosure with optional accessories
- Indoor & outdoor use (with additional weatherproof sensor covers)

Product Overview:

The GM Series 100 is a single or dual 24V detector with RS485 BACnet MS/TP or Modbus RTU communications, offering exceptional reliability and precision. Customizable on-site, engineers can tailor its settings to fit project needs, reducing hardware and simplifying controls work to achieve the sequence of operation. It features two alarm levels, signal relay, configurable delays, and a selectable audible alarm. The LCD displays power, alarm status, gas type, concentration, address, and faults.

Part Codes

GM100 – [S1 Gas][Remote Option] – [S2 Gas][Remote Option]

Note: *Limit one (1) remote sensor per GM100*

Gas Selection: Select one (1) for each Gas 1 and Gas 2

Gas Type	Code
No Sensor	Leave Blank
Carbon Monoxide (CO)	CO
Nitrogen Dioxide (NO2)	NO2
Natural Gas (CH4)	CH4
Hydrogen (H2)	H2
Butane / Propane (LPG)	LPG
Oxygen (O2)	O2
Carbon Dioxide (CO2) %vol	CO2%VOL
Carbon Dioxide (CO2) ppm	CO2PPM
Hydrogen Sulfide	H2S



Remote Sensor



Splash Guard

Remote Options: Add "R" to end of Gas Code **Example** GM100-H2R

Configuration	Example	Explanation
Local Sensor	NO2	Gas sensor inside GM100 Enclosure
Remote Sensor	NO2R	Gas Sensor Installed Remotely

Splash Guard Option: Order GM-SPL

Option	Code
Splash Guard	GM-SPL

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Specifications

Material	ABS Polycarbonate 'FR' Flame Retardant
Length	5.95"
Width	4.37"
Depth	1.97"
Weight	Approx 0.15lbs
Power – Low Voltage	Nominal 24V AC/DC
Internal Fuse	N/A
Wiring (RS485)	127 Units
Digital Output	BACnet MS/TP or Modbus RTU RS485
SPST Signal Relay Output	70mA 30V
Operating Temperature	-4° to 122°F
Storage Temperature	32° to 86°F
Humidity	15 to 90% RH (continuous) 0-99% (intermittent) non-condensing.
Atmospheric Pressure	2000ft
Installation Category	III 24V (UL/CSA/IEC/EN/BS 61010-1)
IP Rating	With Splash Guard IP65 Without Splash Guard IP61
LCD Display	RGB 16 Character – 2 Lines (32)
LED Indications	OK / Alarm 1 / Alarm 2 / Fault / Calibration
Audible Alarm	Internal >85dB
Button(s)	Silence / Acknowledge Alarm & Reset / Relay Switch / Settings Navigation
Safety	UL/CSA/IEC/EN/BS 61010-1
Electromagnetic Compatibility	Directive 2014/30/EU / Regulation 2016 / BS 50270
FCC	This device complies with part 15 of the FCC Rules, Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.
Gas Performance	UL 2075

Default Alarm

Gas	AL1	AL1 Type	AL2	AL2 Type	Range
Carbon Monoxide (CO)	25ppm	Rising	100ppm	Rising	0 - 250ppm
Nitrogen Dioxide (NO2)	0.5ppm	Rising	2ppm	Rising	0 -10ppm
Natural Gas (CH4)	8% LEL	Rising	10% LEL	Rising	3 - 90% LEL
Hydrogen (H2)	8% LEL	Rising	10% LEL	Rising	3 - 90% LEL
Butane / Propane (LPG)	8% LEL	Rising	10% LEL	Rising	3 - 90% LEL
Oxygen (O2)	19.5% v/v	Falling	18.5% / 23% v/v	Falling/Rising	0 - 25% v/v
Carbon Dioxide (CO2) %VOL	0.5% v/v	Rising	3% v/v	Rising	0.1 - 4% v/v
Carbon Dioxide (CO2) PPM	1500ppm	Rising	2800ppm	Rising	400-5000ppm
Hydrogen Sulfide (H2S)	5ppm	Rising	10ppm	Rising	0-100ppm