GM Series



Single or Dual Channel Gas Detection.

GM100

The GM100 has been designed to be directly connected to a Building Management / Automation System intended to continuously monitor the ambient air for dangerous gas concentrations via the diffusion method. The apparatus is to be installed in non-classified, non-hazardous, permanent locations.

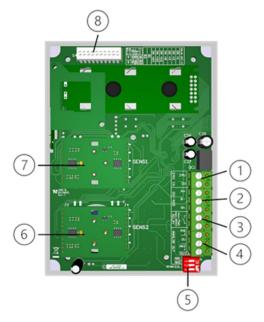
The GM100 features two alarm levels (Low & High), with a configurable audible alarm, and a dry-contact relay to signal external systems i.e. fire alarms, with LED and LCD indications and status, i.e. gas targets, concentrations, alarm, warning, and special conditions. Plug-and-play modular assembly allows for replaceable smart gas sensor modules. In addition, simple, non-intrusive zero and span adjustments.

Key Features

- Single or dual gas monitoring.
- Replaceable, plug-and-play smart sensor modules.
- ✓ Non-intrusive calibration
- ✓ One signal relay (1A 60VDC).
- ✓ Modbus RTU or BACnet MS/TP (field selectable).
- ✓ 24V AC/DC power supply.
- ✓ LCD display screen & RGB LED status indication.
- Configurable audible alarm 85dB.
- Operating Temperature -20° to 50°C
- ✓ Gas Performance UL2075 (CO & NO2).
- Excellent response and recovery.
- Strong anti-interference circuit boards & RoHS compliant.
- Corrosion-resistant enclosure with optional accessories.
- ✓ Indoor & outdoor use.
- ✓ Coverage 15m radius (CO/NO2)



Circuit Board/Connections



- 1. Power IN Nominal 24V AC/DC (12-32V)
- 2. RS-485 Modbus RTU or BACnet MS/TP up to 127 units
- 3. Relay 1A / 60VDC max signal
- 4. Analog Output x2 0-10V / 4-20mA selectable
- 5. Analog OP dipswitch mA current or voltage
- 6. Replaceable gas sensor #1 [S1] module
- 7. Replaceable gas sensor #2 [S2] module
- 8. RS 485 config Protocol / Network Address / Baud Rate

Technical Specification

Mechanical

Material	ABS Flame Retardant UL94 V0	
Height	5.95" (151.2mm)	
Width	4.37" (111.2mm)	
Depth	1.97" (50mm)	

Electrical

Power – Low Voltage	Nominal 24V AC/DC (12-32V)
Wiring (RS485)	127 Units

10

Digital Output *1	Modbus RTU and BACnet MS/TP (field selectable)
Relay Output *1	Dry Contact 1A, 60 VDC

Environmental

Operating Temperature	-4° to 122°F (-20° to 50°C)
Humidity	15 to 90% RH (continuous) 0-99% (intermittent) non-condensing.
Atmospheric Pressure	2000m

User Interface

LED Indications	OK-Power / Alarm Low / Alarm High / Fault / Warning / Calibration
Audible Alarm	Internal >80dB
Button(s)	Silence audible alarm buzzer
Language	English

Certification/Conformance

Safety	UL/CSA/IEC/EN/BS 61010-1
Electromagnetic Compatibility	Directive 2014/30/EU / Regulation 2016 / 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 (CO and NO ₂)

S&S Northern Limited

www.snsnorthern.com

S&S Northern Head Office

Tel: +44 (0) 1257 470983 info@snsnorthern.com

