

GD100 Combined CO & NO2 Monitor With Bacnet MS/TP & Modbus RTU



Key Features:

- 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
- Configurable audible alarm – 85dB
- Operating Temperature -4° to 122°F
- 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:

Introducing the GD Series 100 – Dual CO/NO2 Detector, a cutting-edge solution engineered to safeguard enclosed areas from the dangers of vehicle exhaust fumes. Specifically designed for car parks, maintenance bays, emergency service stations, wash bays, and similar environments, this 24V powered detector with RS485 BACnet MS/TP or Modbus RTU communications offers unparalleled reliability and precision. With customizable parameters accessible on-site, engineers can tailor its configuration and settings to suit the unique needs of each project, minimizing the requirement for additional hardware and streamlining the scope of work for controls contractors to ensure the sequence of operation can be achieved.

The GD Series 100 features two alarm levels, and line voltage relays with configurable time delays, a selectable audible alarm, LCD display indicating power, alarm status, gas type, concentration, measurement, address, and fault conditions.

The equipment can be used indoors or outdoors. If used outdoors, choose a sheltered location which is protected from direct sunlight, rain, and other extreme conditions.

RS-485 Adjustable Settings

- CO & NO2 Alarm 1 & 2 Thresholds (Low/High)
- Relay Activation – Alarm 1 or 2
- Audible Buzzer (On/Off)
- Service/Calibration LED Indication



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Mechanical

Material ABS Polycarbonate 'FR' Flame Retardant

Length 5.95" (151.13mm)

Width 4.37" (110.99mm)

Depth 1.97" (50mm)

Weight Approx 0.68kg

Electrical

Power – Low Voltage Nominal 24V AC/DC

Internal Fuse Thermal Resetting, 240VAC, 400mA

Wiring (RS485) 127 Units

IO

Digital Output BACnet MS/TP or Modbus RTU RS485

SPST Signal Relay Output 70mA 30V

Environmental

Operating Temperature -4° to 122°F (-20°C to 50°C)

Storage Temperature 32° to 86°F (0°C to 30°C)

Humidity 15 to 90% RH (continuous) 0-99% (intermittent) non-condensing.

Atmospheric Pressure 2000ft (610m)

Installation Category III 24V~ and II 110V~ (UL/CSA/IEC/EN/BS 61010-1)

Pollution Degree 2 (UL/CSA/IEC/EN/BS 61010-1)

User Interface

LCD Display RGB 16 Character – 2 Lines (32)

LED Indications OK / Alarm 1 / Alarm 2 / Fault & Warning / Calibration

Audible Alarm Internal >85dB at 3m(10ft)

Button(s) Silence / Acknowledge Alarm & Reset / Relay Switch / Settings Navigation

Language English

Certification/Conformance

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 (CO and NO₂)

Default Alarm

Gas	AL1	AL1 Type	AL2	AL2 Type
Carbon Monoxide (CO)	25ppm	Rising	100ppm	Rising
Nitrogen Dioxide (NO ₂)	0.7ppm	Rising	2ppm	Rising