

GAS & SPECIALTY SENSORS

NETWORK COMPATIBLE GAS DETECTOR

GDN SERIES



DESCRIPTION

The **GDN Series Network Compatible Gas Detector** optimizes BAS, fire, ventilation, and other security systems by providing continuous monitoring of toxic and combustible gases. Modbus or BACnet MS/TP protocols are supported by the **GDN Series** and can be quickly integrated into a BAS network. Activation of alarms, horns, strobes, and fans can be accomplished through the HVAC controls or directly from the on board relay. The modular design adds functionality and flexibility with pre-calibrated plug-in sensors. The unit features a two-line LCD for local indication, self test diagnostics, and built-in 85 dBA buzzer.

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FEATURES

- *Modbus or BacNet MS/TP compatible*
- *Pre-calibrated plug-in sensors*
- *Built-in 85 dBA buzzer*
- *Wide variety of gases detected*
- *Two-line LCD display*
- *DPDT relay output*
- *Easy installation, commissioning, and operation*
- *LED status indication*
- *Password protection*
- *NEMA 4 enclosure*

NEW!



GDN



- *Gases detected*
 - Carbon monoxide*
 - Nitrogen dioxide (diesel exhaust)*
 - Oxygen*
 - Hydrogen*
 - Hydrogen Sulfide*
 - Methane (CH₄)*
 - Propane (C₃H₈)*

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SPECIFICATIONS

Power supply	17-27 VAC, 50/60 Hz, 0.35A; 24-38 VDC	Display resolution	
Sensing technology		CO	1 ppm
CO, O₂, H₂S, NO₂	Electrochemical for toxic gases	O₂	0.2%
CH₄, C₃H₈, H₂	Catalytic combustion for combustible gases	H₂S, NO₂	0.2 ppm
Detection Range		CH₄, C₃H₈, H₂	0.5%
CO	0-250 ppm	Display	8 character, two-line LCD
O₂	0% to 25%	Average sensor life	
H₂S	0-50 ppm	CO	6 years
NO₂	0-10 ppm	Others	2 years
CH₄, C₃H₈, H₂	0% to 100% LEL	Calibration interval	6 months
Communication	RS485 Modbus, BACnet MS/TP master relays, 5A @ 250 VAC	Operating temp	
Relay output	DPDT relay, 5A @ 250 VAC; 150 VA max inductive, 5A @ 30 VDC	CO	-4° to 122°F (-20° to 50°C)
Audible alarm	85 dBA @ 10 ft (3m)	Others	-40° to 122°F (-40° to 50°C)
Visual indicators	Green LED: power Amber LED 1: Alarm/fault Amber LED 2: Alarm/fault	Enclosure	Polycarbonate
		Approvals	UL61010, CSA C22.2
		Dimensions	8.1"H x 5.9"W x 2.7"D (20.6 x 14.9 x 6.7 cm)
		Weight	0.86 lb (0.35 kg)
		Warranty	1 year

NEW!

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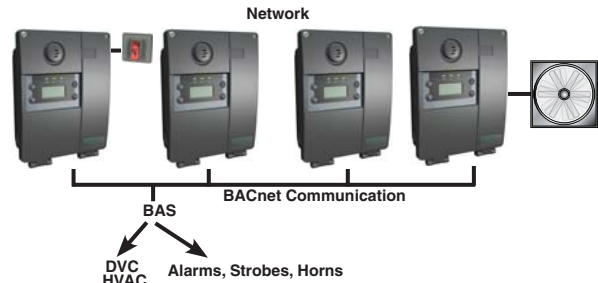
APPLICATIONS

Modbus Configuration



Supports Modbus protocol to daisy-chain detectors, providing up to 96 points of monitoring on a serial bus. Excellent option for controller-based (VA301C) installations common in larger applications. A relay output is provided as an option for activating ventilation directly (e.g. when fan is located in close proximity to detector).

BACnet (MS-TP) Configuration



GDN Series outputs directly to BACnet or other BAS (building automation system). Alarms, strobes, and horns are activated through the BAS with links to DCV/HVAC controls. The system design supports new and retrofit installations for large buildings, and can couple with a controller to effectively integrate wired and wireless system components. A relay output is provided as an option for activating ventilation directly (e.g. when fan is located in close proximity to the detector).

CAUTION: Not to be used as a life-safety device.

ORDERING INFORMATION

MODEL	DESCRIPTION
BACnet models	
GDN-BCO	BACnet network Carbon Monoxide gas detector, wall mount
GDN-BH2S	BACnet network Hydrogen Sulfide gas detector, wall mount
GDN-BNO2	BACnet network Nitrogen Dioxide gas detector, wall mount
GDN-BO2	BACnet network Oxygen gas detector, wall mount
GDN-BH2	BACnet network Hydrogen gas detector, wall mount
GDN-BCH4	BACnet network Methane gas detector, wall mount
GDN-BC3H8	BACnet network Propane gas detector, wall mount
Modbus models	
GDN-MCO	Modbus network Carbon Monoxide gas detector, wall mount
GDN-MH2S	Modbus network Hydrogen Sulfide gas detector, wall mount
GDN-MNO2	Modbus network Nitrogen Dioxide gas detector, wall mount
GDN-MO2	Modbus network Oxygen gas detector, wall mount
GDN-MH2	Modbus network Hydrogen gas detector, wall mount
GDN-MCH4	Modbus network Methane gas detector, wall mount
GDN-MC3H8	Modbus network Propane gas detector, wall mount

RELATED PRODUCTS

CKITS, UCK Calibration kits GAS-xx-xx Test gas

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