



Fixed Gas Monitors

## Gas Sensor Monitor

# GDC-350



Bacharach's all new GDC-350 full-featured fixed gas monitors provide superior operation - standalone or as part of a larger system utilizing the standard analog outputs. This state-of-the-art instrument can detect a wide range of gases including carbon monoxide (CO), oxygen (O<sub>2</sub>), combustible gases, refrigerants and total volatile organic compounds (TVOCs). The GDC-350 provides a unique two sensor interface, allowing for multiple gases to be detected with onboard or remote sensors. Sensors can be located integral to the unit or remotely allowing for sensors to be placed directly in areas where potential leaks can occur. Bacharach's proprietary calibration algorithms extend the amount of time required between calibrations, reducing maintenance costs and lowering the overall cost of ownership for non-critical applications.

## Standalone Operation

The GDC-350 has all the features and functionality for any application. LED alarm indicators visually indicate when alarm conditions are met and an audible alarm alerts nearby personnel. An onboard alpha numeric display shows gas readings in real time for each sensor. Integral dry contact relays are available to drive external audible / visual alarms, activate fans, or connect to building management and control systems. Installation and maintenance is simple and easy, reducing overall system cost. A pre-wired plug-in option is available for out-of-the-box operation. Simply plug the unit into any standard AC outlet for immediate detection and protection.

## GDC-350 Specifications

<b>Gases Detected:</b>	Carbon Monoxide (CO), Oxygen (O <sub>2</sub> ), Nitrogen Dioxide (NO <sub>2</sub> ), Nitric Oxide (NO), Sulfur Dioxide (SO <sub>2</sub> ), Combustible Gases and Refrigerants						
	<b>CO</b>	<b>O<sub>2</sub></b>	<b>NO<sub>2</sub></b>	<b>NO</b>	<b>SO<sub>2</sub></b>	<b>Combustible Gas</b>	<b>Refrigerants</b>
<b>Range:</b>	0-500 ppm	0-25% Vol.	0-10 ppm	0-100 ppm	0-20 ppm	0-50%	0-2,000 ppm
<b>Resolution:</b>	1 ppm	0.1% Vol.	0.1 ppm	1 ppm	1 ppm	1%	1 ppm
<b>Detection Principle:</b>	Electrochemical, Solid State						
<b>Temperature:</b>	-5° F to 120° F (-20° C to 50° C)						
<b>Relative Humidity:</b>	15-90% RH Non-Condensing						
<b>Housing Options:</b>	<b>Standard:</b> Rugged PVC <b>NEMA 4X:</b> Watertight polycarbonate						
<b>Alarm Indicators:</b>	LED indicators for Power, Fail, Low Gas Alarm, High Gas Alarm 80 dB Audible alarm w/ silence						
<b>Alarm Relay:</b>	Two S.P.D.T. dry contact relays, 5 amps @ 250 VAC						
<b>Dimensions:</b>	<b>Standard:</b> 5.3" L x 6.8" W x 2.6" D (135 mm x 173 mm x 66 mm) <b>NEMA 4X:</b> 5.1" L x 7.1" W x 3.9" D (130 mm x 180 mm x 100 mm)						
<b>Weight:</b>	<b>Standard:</b> 1 lb (0.45 kg) <b>NEMA 4X:</b> 1 lb (0.45 kg)						
<b>Outputs:</b>	Linear 4-20 mA (dual outputs for 2 sensor onboard configurations)						
<b>Wiring:</b>	VDC 3 conductor shielded; VAC 4-conductor shielded; optional pre-wired power supply 110-220 VAC						
<b>Fuse:</b>	Automatic resetting thermal						
<b>Power:</b>	12-28 VAC or 15-30 VDC; 150 mA						
<b>Approvals:</b>	CSA Certified; UL Certified; C-Tick Certified						

## GDC-350 Part Number Configurator 59AB-CDEF

Standard	Standard	Product Option	Enclosure Option	Sensor Option	Sensor Sensor
5	9	A	B	C and D	E and F
		0 = N / A	0 = N / A	00 = No onboard sensor	00 = No onboard sensor (or remote GDC-150 as an input)
		1 = Single sensor, onboard	1 = Standard enclosure, no display	01 = CO	01 = CO
		2 = Single sensor, remote	2 = Standard enclosure, w/ display	03 = O <sub>2</sub>	03 = O <sub>2</sub>
		3 = Dual sensor, onboard	3 = NEMA 4X enclosure, no display	04 = NO <sub>2</sub>	04 = NO <sub>2</sub>
		4 = Dual sensor, onboard & remote	4 = NEMA 4X enclosure, w/ display	06 = NO	06 = NO
			5 = NEMA 4X enclosure, w/ splash guard, no display	09 = SO <sub>2</sub>	09 = SO <sub>2</sub>
			6 = NEMA 4X enclosure, w/ splash guard & display		30 = Combustible Gas (must be remote)
			7 = Standard enclosure, no display, pre-wired supply		31 = Refrigerants (must be remote)
			8 = Standard enclosure, w/ display, pre-wired supply		32 = TVOCs (must be remote)

### GDC-350 Common Configurations

<b>5911-0100</b>	GDC-350 Standard, CO, single sensor (onboard), no display
<b>5911-0400</b>	GDC-350 Standard, NO <sub>2</sub> , single sensor (onboard), no display
<b>5914-0600</b>	GDC-350 NEMA 4X, NO, single sensor (onboard), w/ display
<b>5914-0900</b>	GDC-350 NEMA 4X, SO <sub>2</sub> , single sensor (onboard), w/ display
<b>5918-0100</b>	GDC-350 Standard, CO, single sensor (onboard), w/ display and pre-wired power supply
<b>5922-0030</b>	GDC-350 Standard, Combustible Gas, single sensor (remote), w/ display
<b>5927-0031</b>	GDC-350 Standard, Refrigerant sensor, single sensor (remote), no display, pre-wired power supply
<b>5933-0104</b>	GDC-350 NEMA 4X, CO & NO <sub>2</sub> , dual sensors (onboard), no display
<b>5944-0130</b>	GDC-350 NEMA 4X, CO & LEL, dual sensor (onboard & remote), w/ display
<b>5944-0331</b>	GDC-350 NEMA 4X, O <sub>2</sub> & Refrigerant, dual sensor (onboard & remote), w/ display

### GDC-350 Accessories

<b>5209-0004</b>	Splash guard (NEMA 4X only)
<b>5209-0006</b>	Calibration adapter for all onboard sensors
<b>5909-0003</b>	Guard to protect GDC-350 (16 gauge galvanized metal)
<b>5909-0004</b>	Enclosed external transformer 120 VAC to 220 VAC

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