



GAS & SPECIALTY SENSORS

TOXIC AND COMBUSTIBLE STAND-ALONE GAS DETECTOR

GDC350

DESCRIPTION

Bacharach's GDC350 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 (O₂), combustible gases, refrigerants and total volatile organic compounds (TVOCs). The GDC350 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.

The GDC350 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.



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GAS & SPECIALTY SENSORS

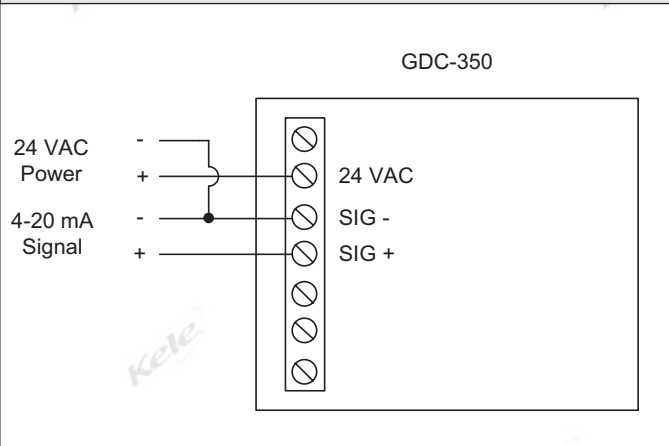
FEATURES

- Can be used as a stand alone controller
- On board or remote sensing
- Wide range of gases detected
- Dual 4-20 mA signals
- Unique two sensor interface
- LED indicators
- Alpha numeric LED display
- NEMA 4X or standard housing
- Automated calibration

SPECIFICATIONS

Supply Voltage	12-28 VAC @ 2.9 VA, 15-30 VDC @ 120 mA (non-ground reference supply only)
Signal Output	4-20 mA @ 1000Ω (dual outputs for 2 sensor onboard configurations)
Sensing Technology	Electrochemical, Solid State
Visual Indication	LED indicators for Power, Fail, Low Gas Alarm, High Gas Alarm
Contacts	Two SPDT relays, 5A @ 240 VAC
Alarm Auditory Levels [Db]	80 dB Audible alarm w/ silence
Wiring Terminations	
VDC	3 conductor shielded
VAC	4 conductor shielded
Operating Humidity	0-95% RH Non-Condensing
Operating Temperature	32° F to 104° F (0° C to 40° C)
Enclosure Rating	
Standard	Rugged PVC
NEMA 4X	Watertight polycarbonate
Dimensions	
Standard	5.3" L x 6.8" W x 2.6" D (13.5 x 17.3 x 6.6 cm)
NEMA 4X	5.1" L x 7.1" W x 3.9" D (13.0 x 18.0 x 10.0 cm)
Approvals	C-Tick Certified
Weight	
Standard	1.2 lb (0.6 kg)
NEMA 4X	1.4 lb (0.7 kg)
Warranty	1 year

WIRING



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ORDERING INFORMATION

MODEL	DESCRIPTION
GDC350	Wall mount gas detector
	Product option
1	Single sensor, onboard
2	Single sensor, remote
3	Dual sensor, onboard
4	Dual sensor, onboard & remote
	Enclosure option
1	Standard enclosure, no display
2	Standard enclosure, w/ display
3	NEMA 4X enclosure, w/ splash guard, no display
4	NEMA 4X enclosure, w/ splash guard & display
	Sensor option 1
00	No on board sensor
01	Carbon Monoxide (CO) 0-200 ppm
03	Oxygen (O2) 0-25% Volume
04	Nitrogen Dioxide (NO2) 0-10 ppm
06	Nitrogen Oxide (NO) 0-100 ppm
09	Sulphur Dioxide (SO2) 0-20 ppm
	Sensor Option 2
00	No on board sensor
01	Carbon Monoxide (CO) 0-200 ppm
03	Oxygen (O2) 0-25% Volume
04	Nitrogen Dioxide (NO2) 0-10 ppm
06	Nitric Oxide (NO) 0-100 ppm
09	Sulphur Dioxide (SO2) 0-20 ppm
30	Combustible gas (solid state sensor)
	MET METHANE 0-50% L.E.L.
	PRO PROPANE 0-50% L.E.L.
	H2 H2 0-50% L.E.L.
	ISO ISOBUTANE 0-50% L.E.L.
	HEX HEXANE 0-50% L.E.L.
31	Refrigerants (solid state sensor)
	R11 R11 0-2000 ppm
	R12 R12 0-2000 ppm
	R22 R22 0-2000 ppm
	134 R134A 0-2000 ppm
	401 R401A 0-2000 ppm
	402 R402A 0-2000 ppm
	404 R404A 0-2000 ppm
	407 R407C 0-2000 ppm
	410 R410A 0-2000 ppm
	42A R422A 0-2000 ppm
	42D R422D 0-2000 ppm
	438 R438A 0-2000 ppm
	507 R507 0-2000 ppm
32	TVOCs (must be remote)

RELATED PRODUCTS

5209-0004
5209-0006
5909-0003
5909-0004

Splash guard (for NEMA 4X sensors only)
 Calibration adapter for all on board sensors
 Guard to protect GDC350 (16 gauge galvanized metal)
 Enclosed external transformer 120 VAC to 220 VAC

ACCESSORIES

Calibration Gases
UCK-1
UCK-3

CO, CO2, NO2, O2, CH4, NH3, N2, H2S, H2, and Refrigerants (See calibration page)
 Universal calibration kit for non-corrosive gases (N2, CO2, CH4, H2, O2, CO, and refrigerants)
 Universal calibration kit for non-corrosive or corrosive gases

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