



Fixed Gas Monitors

## Gas Sensor Transmitter

# GDC-150



The all new GDC-150 transmitter from Bacharach offers detection and protection for a wide range of hazards including toxic gases such as carbon monoxide (CO), oxygen depletion, combustible gases, refrigerant leaks and total volatile organic compounds (TVOCs). Analog interfaces allow the transmitter to be connected back to Bacharach's GDA Series of controllers (or any other gas detection controller), building management systems or control systems. The GDC-150 features 4-20 mA or 0-10 VDC linear output signals, an automatic thermal resetting fuse, RoHS compliant circuit boards and LED indicators for power and open loop.

## Reliability and Durability

The onboard alarm LED's indicate when alarm threshold values are exceeded. The unit can be ordered with an optional alpha numeric LED display that shows gas concentrations in real time while alarm relays alert personnel of potential dangers, avoiding incidents and potential hazards.

The GDC-150 is packaged in a rugged, polycarbonate housing for both indoor and outdoor applications. When leaks occur, the GDC-150 sensors respond quickly and accurately to protect people and property. Automated calibration and simple maintenance procedures performed in the field allow for continuous operation and assurance that areas are monitored and protected at all times.

# GDC-150 Specifications

<b>Gases Detected:</b>	Carbon Monoxide (CO), Hydrogen Sulfide (H <sub>2</sub> S), Oxygen (O <sub>2</sub> ), Nitrogen Dioxide (NO <sub>2</sub> ), Ammonia (NH <sub>3</sub> ), Nitric Oxide (NO), Sulfur Dioxide (SO <sub>2</sub> ), Formaldehyde (HCHO), Combustible Gases (LEL), Refrigerants and Total Volatile Organic Compounds (TVOCs)						
	<b>CO</b>	<b>H<sub>2</sub>S</b>	<b>O<sub>2</sub></b>	<b>NO<sub>2</sub></b>	<b>NH<sub>3</sub></b>	<b>NO</b>	<b>SO<sub>2</sub></b>
<b>Range:</b>	0-200 ppm	0-50 ppm	0-25% Vol.	0-10 ppm	0-500 ppm	0-100 ppm	0-20 ppm
<b>Resolution:</b>	1 ppm	0.5 ppm	0.1% Vol.	0.1 ppm	1-2 ppm	1 ppm	1 ppm
	<b>HCHO</b>	<b>LEL (Catalytic)</b>	<b>LEL (Solid State)</b>	<b>Refrigerants</b>	<b>TVOC (PID)</b>	<b>TVOC (PID)</b>	<b>TVOC (Solid State)</b>
<b>Range:</b>	0-10 ppm	0-100%	0-50%	0-2,000 ppm	0-50 ppm	0-300 ppm	0-500 ppm
<b>Resolution:</b>	0.1 ppm	1%	1%	1 ppm	0.1 ppm	1 ppm	1 ppm
<b>Detection Principle:</b>	Electrochemical, Solid State, Catalytic Bead, Photoionization Detector (PID)						
<b>Temperature:</b>	-4° F to 104° F (-20° C to 40° C)						
<b>Relative Humidity:</b>	15-95% RH Non-Condensing						
<b>Housing Options:</b>	<b>Standard:</b> Rugged PVC with hinged, secured, drip-proof door						
	<b>NEMA 4X:</b> Water and dust-tight, corrosion resistant polycarbonate with hinged, secured door						
<b>User Interface:</b>	One tricolor LED: Green = power, Red = alarm, Flashing Red = fail						
	Amber color LED, internal relay coil status indicator (only supplied with relay option)						
<b>Alarm Relay:</b>	Optional, one only S.P.D.T. dry contact relay rated 2 amp at 30V						
<b>Indicators:</b>	4-20 mA "open loop" indicator (red LED) for remote transmitter						
<b>Dimensions:</b>	<b>Standard:</b> 4.43" L x 6.5" W x 2.54" D (113 mm x 165 mm x 65 mm) <b>NEMA 4X:</b> 5.05" L x 5.05" W x 3.05" D (129 mm x 129 mm x 77 mm)						
<b>Weight:</b>	<b>Standard:</b> 20 oz (0.57 kg) <b>NEMA 4X:</b> 16 oz (0.45 kg)						
<b>Outputs:</b>	Linear 4-20 mA or 0-10 VDC signal, jumper selectable						
<b>Wiring:</b>	VDC 3 conductor shielded; VAC 4-conductor shielded						
<b>Fuse:</b>	Automatic resetting thermal						
<b>Power:</b>	12-30 VAC or 16-30 VDC (non-ground reference supply only)						
<b>Approvals:</b>	C-Tick Certified						

## GDC-150 Part Number Configurator 5201-ABCD

Standard	Standard	Standard	Standard	Enclosure Option	Feature Option	Sensor Option
5	2	0	1	<b>A</b>	<b>B</b>	<b>C and D</b>
				0 = N / A	0 = Nothing	00 = N/A
				1 = Standard enclosure	1 = LED numeric display	01 = Carbon Monoxide (CO)
				2 = NEMA 4X enclosure	2 = Relay	02 = Hydrogen Sulfide (H <sub>2</sub> S)
				3 = NEMA 4X enclosure w/ splash guard	3 = Relay and display	03 = Oxygen (O <sub>2</sub> )
						04 = Nitrogen Dioxide (NO <sub>2</sub> )
						05 = Ammonia (NH <sub>3</sub> )
						06 = Nitric Oxide (NO)
						09 = Sulfur Dioxide (SO <sub>2</sub> )
						13 = Formaldehyde (HCHO)
						20 = Combustible Gas (Catalytic)
						28 = TVOC 0-50 ppm (PID)
						29 = TVOC 0-300 ppm (PID)
						30 = Combustible Gas (Solid State)
						31 = Refrigerant (Solid State)
						32 = TVOC (Solid State)

### GDC-150 Common Configurations

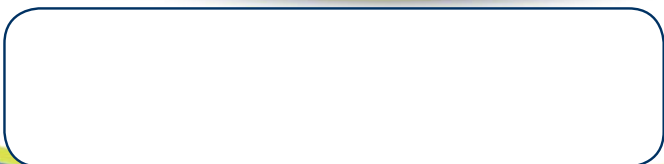
<b>5201-3001</b>	GDC-150 NEMA 4X, CO, splash guard, no display/relays
<b>5201-3101</b>	GDC-150 NEMA 4X, CO, splash guard and display
<b>5201-3331</b>	GDC-150 NEMA 4X, Refrigerant, display and relays
<b>5201-3305</b>	GDC-150 NEMA 4X, NH <sub>3</sub> , display and relays
<b>5201-1001</b>	GDC-150 Standard, CO, no display/ relay
<b>5201-1104</b>	GDC-150 Standard, NO <sub>2</sub> , display
<b>5201-1303</b>	GDC-150 Standard, O <sub>2</sub> , display and relays
<b>5201-2320</b>	GDC-150 NEMA 4X, Combustible Gas (Catalytic), display and relays
<b>5201-2020</b>	GDC-150 NEMA 4X, Combustible Gas (Catalytic), no display
<b>5201-1013</b>	GDC-150 Standard, HCHO, no display

### GDC-150 Accessories

<b>5209-0004</b>	Splash guard (NEMA 4X only)
<b>5209-0016</b>	Calibration adapter for catalytic sensor
<b>5209-0006</b>	Calibration adapter for all other sensors
<b>5209-0017</b>	Sample draw pump (24 VAC powered)
<b>5209-0018</b>	Sample draw pump (24 VDC powered)
<b>5209-0019</b>	Guard to protect GDC-150 (16 gauge galvanized metal)

<b>00</b>	N/A
<b>01</b>	Carbon Monoxide (CO)
<b>02</b>	Hydrogen Sulfide (H <sub>2</sub> S)
<b>03</b>	Oxygen (O <sub>2</sub> )
<b>04</b>	Nitrogen Dioxide (NO <sub>2</sub> )
<b>05</b>	Ammonia (NH <sub>3</sub> )
<b>06</b>	Nitric Oxide (NO)
<b>09</b>	Sulfur Dioxide (SO <sub>2</sub> )
<b>13</b>	Formaldehyde (HCHO)
<b>20</b>	Combustible Gas (Catalytic)
<b>28</b>	TVOC 0-50 ppm (PID)
<b>29</b>	TVOC 0-300 ppm (PID)
<b>30</b>	Combustible Gas (Solid State)
<b>31</b>	Refrigerant (Solid State)
<b>32</b>	TVOC (Solid State)

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