DESCRIPTION

The all new GDC150 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).

The GDC150 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. The onboard alarm LED’s indicate when alarm threshold values are exceeded. The GDC150 is packaged in a rugged, polycarbonate housing for both indoor and outdoor applications. Automated calibration and simple maintenance procedures performed in the field allow for continuous operation and high performance.

FEATURES

• Wide range of gases detected
• 4-20 mA or 0-10 VDC signal
• LED indicators
• Alpha numeric LED display
• NEMA 4X or standard housing
• Automated calibration

SPECIFICATIONS

<table>
<thead>
<tr>
<th>Supply Voltage</th>
<th>12-30 VAC @ 2.9 VA, 50/60 Hz or 16-30 VDC @ 120 mA (non-ground reference supply only)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Signal Output</td>
<td>4-20 mA @ 1000Ω or 0-10 VDC, jumper selectable</td>
</tr>
<tr>
<td>Sensing Technology</td>
<td>Electrochemical, Solid State, Catalytic Bead, Photoionization Detector (PID)</td>
</tr>
<tr>
<td>Visual Indication</td>
<td>LED: Green = power, Red = alarm, Flashing Red = fail</td>
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<tr>
<td></td>
<td>Amber LED, internal relay coil status indicator (only supplied with relay option)</td>
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<tr>
<td></td>
<td>Red LED 4-20 mA “open loop” indicator for remote transmitter</td>
</tr>
<tr>
<td>Enclosure Rating</td>
<td>Standard: Rugged PVC with hinged, secured, drip-proof door</td>
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<tr>
<td></td>
<td>NEMA 4X: Water and dust-tight, corrosion resistant polycarbonate with hinged, secured door</td>
</tr>
<tr>
<td>Wiring Terminations</td>
<td>VDC 3 conductor shielded</td>
</tr>
<tr>
<td>Operating Humidity</td>
<td>0-90% RH Non-condensing</td>
</tr>
<tr>
<td>Operating Temperature</td>
<td>-4° F to 104° F (-20° C to 40° C)</td>
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<tr>
<td>Dimensions</td>
<td>Standard: 4.43” L x 6.5” W x 2.54” D</td>
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<tr>
<td></td>
<td>(11.3 x 16.5 x 6.5 cm)</td>
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<tr>
<td></td>
<td>NEMA 4X: 5.0” L x 5.0” W x 3.0” D</td>
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<tr>
<td></td>
<td>(12.5 x 12.5 x 3.0 cm)</td>
</tr>
<tr>
<td>Approvals</td>
<td>C-Tick Certified</td>
</tr>
<tr>
<td>Weight</td>
<td>Standard: 1.0 lb (0.5 kg)</td>
</tr>
<tr>
<td></td>
<td>NEMA 4X: 1.3 lb (0.6 kg)</td>
</tr>
<tr>
<td>Warranty</td>
<td>1 year</td>
</tr>
</tbody>
</table>
## ORDERING INFORMATION

<table>
<thead>
<tr>
<th>Model</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>GDC15001</td>
<td>Wall mount gas detector</td>
</tr>
</tbody>
</table>

**Enclosure option**

- 1: Standard Enclosure
- 3: NEMA 4X enclosure w/splash guard

**Feature Options**

- 0: No option
- 1: LED numeric display

**Sensor options**

- 01: Carbon Monoxide (CO) 0-200 ppm
- 02: Hydrogen Sulfide (H2S) 0-50 ppm
- 03: Oxygen (O2) 0-25% Volume
- 04: Nitrogen Dioxide (NO2) 0-10 ppm
- 05: Ammonia (NH3) 0-500 ppm
- 06: Nitric Oxide (NO) 0-100 ppm
- 09: Sulfur Dioxide (SO2) 0-20 ppm
- 13: Formaldehyde (HCHO) 0-10 ppm
- 20: Combustible gases (catalytic sensor)
  - MET: METHANE 0-100% L.E.L.
  - PRO: PROPANE 0-100% L.E.L.
  - H2: H2 0-100% L.E.L.
  - ISO: ISOBUTANE 0-100% L.E.L.
  - HEX: HEXANE 0-100% L.E.L.
- 28: VOC 0-50 ppm
- 29: VOC 0-300 ppm
- 30: Combustible gases (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: Refrigerant (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: VOC 0-500 ppm

## RELATED PRODUCTS

- 5209-0004: Splash guard (for NEMA 4X sensors only)
- 5209-0006: Calibration adapter for all other sensors
- 5209-0016: Calibration adapter for catalytic sensor
- 5209-0019: Guard to protect GDC-150 (16 gauge galvanized metal)

## ACCESSORIES

**Calibration Gases**

- UCK-1: Universal calibration kit for non-corrosive gases (N2, CO2, CH4, H2, O2, and refrigerants)
- UCK-3: Universal calibration kit for non-corrosive or corrosive gases