General Purpose Transmitter
Type C-10

Applications

- Hydraulics and pneumatics
- Mechanical engineering
- General industrial applications

Special Features

- Standard ranges from 0…100 InWC to 0…15,000 psi
- Excellent shock and vibration resistance
- Environmental protection to NEMA 4 / IP 67
- Stainless steel case and wetted parts

Description

The WIKA C-10 provides performance and economy for a wide range of OEM applications. They are especially suited to applications subject to severe mechanical shock, vibration and electromagnetic interference. Typical applications include hydraulics and pneumatics, compressor controls, pump protection, refrigeration and air conditioning systems.

Dependable performance

The C-10 features an all-welded stainless steel measuring cell for improved media compatibility. There are no internal soft sealing materials that may react with the media or deteriorate over time. The case is also made of stainless steel and is available with environmental protection ratings up to NEMA 4 / IP 67.

Pressure ranges up to 300 psi use a piezoresistive measuring cell. The higher pressure ranges use thin film sensor technology. Both are time proven highly reliable sensor technologies.

A standard signal output of 4-20 mA allows the C-10 to be integrated into many existing applications. Many custom signal outputs, process connections and electrical connections are available.

Each C-10 undergoes extensive quality control testing and calibration to achieve an accuracy of ≤ 0.50% full scale. The printed circuit boards use state-of-the-art surface mount technology. Each is individually temperature compensated to assure accuracy and long-term stability even when exposed to severe ambient temperature variations.
### Output signal and permissible load

<table>
<thead>
<tr>
<th>Output current (2-wire)</th>
<th>Output current (3-wire)</th>
<th>Output voltage (3-wire)</th>
</tr>
</thead>
<tbody>
<tr>
<td>4 ... 20 mA</td>
<td>4 ... 20 mA: $R_A \leq \left( U_b - 10 \right) / 0.02 \text{ A}$</td>
<td>0 ... 20 mA</td>
</tr>
<tr>
<td>0 ... 5 V</td>
<td>0 ... 5 V: $R_A &gt; 5 \text{ kOhm}$</td>
<td>0 ... 10 V</td>
</tr>
</tbody>
</table>
Dimensions in inches (mm)

Electrical connections

- **Mini L-connector**
  - G-series
  - IP 65
  - Order code: II

- **Circular connector**
  - 5-pin, M 12x1,
  - IP 65
  - Order code: M5

- **Cable with Free Ends**
  - IP 65
  - Order code: CR

Case

Pressure connections

- **1/4" NPT male**
  - Order code: NB

- **G 1/4 male**
  - DIN 3852-E
  - Order code: HD

- **G 1/4 male**
  - EN 837
  - Order code: GB

\(\ldots\) Mating connectors are not included

Other process connections available
## Wiring details

<table>
<thead>
<tr>
<th>Mini L-connector G-series</th>
<th>2-wire</th>
<th>3-wire</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>UB+/S+</td>
<td>UB+</td>
</tr>
<tr>
<td></td>
<td>0V/S-</td>
<td>0V/S-</td>
</tr>
</tbody>
</table>

### Circular connector M 12x1 5 pin

<table>
<thead>
<tr>
<th>2-wire</th>
<th>3-wire</th>
</tr>
</thead>
<tbody>
<tr>
<td>UB+/Sig+</td>
<td>UB+</td>
</tr>
<tr>
<td>0V/Sig-</td>
<td>0V/Sig-</td>
</tr>
</tbody>
</table>

### Cable with 5 foot (1.5m) of cable and free ends

<table>
<thead>
<tr>
<th>Legend:</th>
</tr>
</thead>
<tbody>
<tr>
<td>[Diagram showing wiring connections]</td>
</tr>
<tr>
<td><strong>Sig+</strong></td>
</tr>
<tr>
<td><strong>UB+</strong></td>
</tr>
<tr>
<td><strong>0V</strong></td>
</tr>
<tr>
<td><strong>Sig-</strong></td>
</tr>
</tbody>
</table>

---

Specifications and dimensions given in this data sheet represent the state of engineering at the time of printing. Modifications may take place and materials specified may be replaced by others without prior notice.

WIKA Instrument Corporation
1000 Wiegand Boulevard
Lawrenceville, GA 30043
1-888-WIKA-USA /770-513-8200 (in GA)
Fax 770-338-5118
info@wika.com www.wika.com