Panel Meters/Indicators

PROCESS CONTROL

The micropressure based Model LPI Loop Powered Indicator accepts a 4 to 20 mA input signal and displays the associated process variable such as pressure, level, flow, temperature or relative humidity. Local or remote indication of process variable can be viewed on the bright red four-digit LED. The user can quickly modify the instrument configuration via three push buttons. Program input/output scaling, engineering units, offset, decimal point position, and password protection. The Series LPI contains several linearizations which can be applied to the display including straight linear, square root, x 3/2, x 5/2, or a user defined 19 segment linearization curve. The indicator is housed in a NEMA 4X (IP66) polycarbonate enclosure with a 1/2˝ female NPT side port.

Model LPI-111, Loop Powered Indicator with plastic enclosure

**SPECIFICATIONS @ 68°F (20°C)**

- **Input:** 4 to 20 mA.
- **Maximum Input Current:** 100 mA for 1 minute.
- **Accuracy:** ±0.02% of full scale.
- **Stability:** Zero: 0.002%/°C; Span: 100 ppm/°C.
- **Power Requirements:** 2-wire 4 to 20 mA loop powered.
- **Display:** 4-digit, 7.6 mm (high) red LED.
- **Maximum Display Range:** -1999 to 9999.
- **Ambient Operating Temperature:** -4 to 167°F (-20 to 75°C).
- **Storage Temperatures:** -58 to 185°F (-50 to 85°C).
- **Weight:** 6.0 oz (170 g).
- **Front Panel Protection:** NEMA 4X (IP66).
- **Agency Approvals:** CE.

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The Series BPI Battery Powered Indicator accepts RTD or Thermocouple input and provides local or remote display of temperature measurements. Quickly navigate the menu system to customize for each application. Three push buttons allow the user to select input type, engineering units (°F or °C), offset temperature, decimal point position, and password protection. The indicator is housed in a polycarbonate NEMA 4X (IP66) enclosure for additional protection from the environment.

**SPECIFICATIONS**

- **Inputs:** Thermocouple or RTD depending on model.
- **Accuracy:** Thermocouple input: ±0.1% of FS, ±0.5°C (plus sensor); RTD: ±0.2°C ±0.1% of reading (plus sensor error).
- **Power Requirements:** 3.6 V AA lithium ion battery, included, user replaceable.
- **Battery Life:** > 2 years.
- **Display:** 4-digit LCD.
- **Resolution:** 0.1°F.
- **Ambient Operating Temperature:** 14 to 158°F (-10 to 70°C).
- **Storage Temperature:** -4 to 185°F (-20 to 85°C).
- **Weight:** 6.0 oz (170 g).
- **Front Panel Protection:** NEMA 4X (IP66).
- **Agency Approvals:** CE.

**Measuring Ranges**

<table>
<thead>
<tr>
<th>Sensor</th>
<th>Range °F (°C)</th>
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<th>Range °F (°C)</th>
</tr>
</thead>
<tbody>
<tr>
<td>K</td>
<td>-328 to 2498°F (-200 to 1370°C)</td>
<td>S</td>
<td>14 to 3200°F (-10 to 1760°C)</td>
</tr>
<tr>
<td>J</td>
<td>-148 to 2192°F (-100 to 1200°C)</td>
<td>E</td>
<td>-328 to 1832°F (-200 to 1000°C)</td>
</tr>
<tr>
<td>T</td>
<td>-346 to 752°F (-210 to 400°C)</td>
<td>F</td>
<td>-148 to 1112°F (-100 to 600°C)</td>
</tr>
<tr>
<td>N</td>
<td>-292 to 2372°F (-180 to 1300°C)</td>
<td>Pt100Ω</td>
<td>-148 to 1472°F (-100 to 800°C)</td>
</tr>
<tr>
<td>R</td>
<td>14 to 3200°F (-10 to 1760°C)</td>
<td>Ni120</td>
<td>-148 to 1472°F (-100 to 800°C)</td>
</tr>
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