The Series 644 Industrial Pressure Transmitter is a robust transmitter designed for high accuracy pressure applications. Boasting an accuracy of ±0.05% FS RSS (<±0.25% TEB), the 644 is intended for precise measurements in the critical applications of calibration technology, hydraulic/pneumatic controls, and many more laboratory and industrial settings. The Series 644 offers multiple measurement options with two output choices (VDC or mA) and ten psig pressure ranges (optional 0 to 15 psia). The robust and compact all stainless steel Series 644 is available with either a 1/4˝ male NPT, or 7/16˝-20 male SAE process connections. Each transmitter is provided with an 11 point NIST traceable calibration certificate.

**FEATURES**
- High accuracy: ±0.05% FS RSS
- 15 to 1000 psig ranges (optional 0 to 15 psia)
- Two output options
- Low thermal error over wide temperature range

**APPLICATIONS**
- Calibration equipment
- Test benches
- Pulp and paper mills
- Hydraulic/pneumatic controls
- Transportation
- Power generation

**ACCESSORIES**
A-495, 6-pin female bayonet mate connector

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### SPECIFICATIONS

**Service:** Compatible gases and liquids.

**Wetted Materials:** 17-4 PH SS.

**Accuracy:** ±0.05% FS RSS.

**Total Error Band (Includes all thermal effects):** <±0.25% FS over entire temperature compensated range.

**Stability:** < 0.15% FS/year.

**Operating Temperature Limits:** -40 to 185°F (-40 to 85°C).

**Pressure Limits:**
- Proof pressure and burst pressure: See pressure limits table below.
- Compensated Temperature Range: -4 to 140°F (-20 to 60°C).
- Power Requirements:
  - 9 to 30 VDC for current output;
  - 15 to 30 VDC for voltage output.
- Minimum Supply Voltage:
  - Min. supply voltage (VDC) for current output = 9 + 0.02 x loop resistance
    - (loop resistance Ω = line resistance + receiver resistance).
- **Output Signal:**
  - 0 to 10 volt (4-wire);
  - 4 to 20 mA (2-wire).
- **Response Time:** < 10 ms (voltage output), < 80 ms (current output).
- **Max Current Consumption:**
  - 4 to 20 mA: 22 mA;
  - 0 to 10 VDC: 20 mA.
- **Electrical Connections:**
  - 3 ft cable or 6-pin male bayonet connector.
- **Process Connection:**
  - 1/4˝ male NPT or 7/16˝-20 male SAE with O-Ring.
- **Enclosure Rating:** NEMA 4X (IP65).
- **Mounting Orientation:** Vertical.
- **Weight:** 9 oz (254 g).
- **Agency Approval:** CE.

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### Table of Pressure Ranges

<table>
<thead>
<tr>
<th>Model</th>
<th>644</th>
<th>Electrical Connection</th>
<th>Signal Output</th>
<th>Range</th>
<th>Burst Pressure</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>-L</td>
<td>-V</td>
<td>0 to 10 volt</td>
<td>14.7 psig</td>
</tr>
<tr>
<td></td>
<td></td>
<td>-B</td>
<td>-C</td>
<td>4 to 20 mA</td>
<td>15 psig</td>
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<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>-00</td>
<td>0 to -14.7 psig</td>
<td>3000 psig</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>-01</td>
<td>0 to 15 psig</td>
<td>3000 psig</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>-02</td>
<td>0 to 25 psig</td>
<td>3000 psig</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>-03</td>
<td>0 to 50 psig</td>
<td>3000 psig</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>-04</td>
<td>0 to 100 psig</td>
<td>3000 psig</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>-05</td>
<td>0 to 150 psig</td>
<td>3000 psig</td>
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<td></td>
<td></td>
<td></td>
<td>-06</td>
<td>0 to 200 psig</td>
<td>3000 psig</td>
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<td></td>
<td></td>
<td></td>
<td>-07</td>
<td>0 to 300 psig</td>
<td>3000 psig</td>
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<tr>
<td></td>
<td></td>
<td></td>
<td>-08</td>
<td>0 to 500 psig</td>
<td>3000 psig</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>-09</td>
<td>0 to 750 psig</td>
<td>3000 psig</td>
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<tr>
<td></td>
<td></td>
<td></td>
<td>-10</td>
<td>0 to 1000 psig</td>
<td>3000 psig</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>-11</td>
<td>0 to 15 psia</td>
<td>3000 psig</td>
</tr>
<tr>
<td></td>
<td></td>
<td>-P</td>
<td>1/4˝ male NPT</td>
<td>7/16˝-20 SAE MALE</td>
<td>15000 psig</td>
</tr>
</tbody>
</table>

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**Range Number**
- 00: 0 to 14.7 psig
- 01: 0 to 15 psig
- 02: 0 to 25 psig
- 03: 0 to 50 psig
- 04: 0 to 100 psig
- 05: 0 to 150 psig
- 06: 0 to 200 psig
- 07: 0 to 300 psig
- 08: 0 to 500 psig
- 09: 0 to 750 psig
- 10: 0 to 1000 psig
- 11: 0 to 15 psia

**Proof Pressure**
- Ex. 644-L-V-00-P
- U.S. Phone 219 879-8000 • U.K. Phone (+44) (0)1494-461707 • Australia Phone (+61) (0) 2 4272 2055...