The Series 644 Industrial Pressure Transmitter is a robust transmitter designed for high accuracy pressure applications. Boasting an accuracy of ±0.05% F.S. 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% F.S. 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

**OPTION**

For NIST traceable calibration certificate, use order code NISTCAL-PT1.

### SPECIFICATIONS

**Service:** Compatible gases and liquids.

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

**Accuracy:** ±0.05% F.S. RSS.

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

**Stability:** < 0.15% F.S/year.

**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 Ω (loop resistance Ω = line resistance + receiver resistance).

**Output Signal:**
- 0 to 10 VDC (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.

### Range Table

<table>
<thead>
<tr>
<th>Range</th>
<th>Model</th>
<th>Electrical Connection</th>
<th>Signal Output</th>
<th>Process Connection</th>
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<tbody>
<tr>
<td>00</td>
<td>644</td>
<td>-L</td>
<td>0 to 10 volt</td>
<td>7/16˝-20 SAE male</td>
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<tr>
<td>01</td>
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<td>-B</td>
<td>0 to 10 volt</td>
<td>7/16˝-20 SAE male</td>
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<tr>
<td>02</td>
<td></td>
<td>-C</td>
<td>0 to 20 mA</td>
<td>7/16˝-20 SAE male</td>
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<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>1/4˝ male NPT</td>
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<tr>
<td>03</td>
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<td>30 psig</td>
<td>3000 psig</td>
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Ex. 644-L-V-00-P