The Series 644 High Accuracy 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% 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

ACCESSORY
A-495, 6-pin female bayonet mate connector

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.
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.