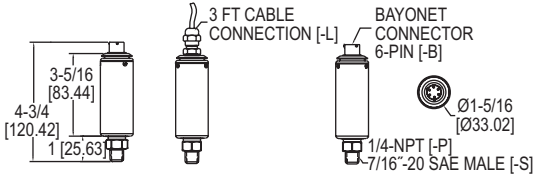
Dwyer

SERIES 644

HIGH ACCURACY PRESSURE TRANSMITTER

±0.05% FS, <±0.25% FS Total Error Band



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.

FEATURES/BENEFITS

- High accuracy provides exceptional measurement for insuring tight-control and minimizing costly out of specification conditions
- NIST calibrated to provide traceability for regulated processes where production and documentation is monitored
- Low thermal error over a wide range of temperatures helps to insure accurate pressure measurement and process operation

MODEL CHART

Example	644	-L	-V	-00	-P	644-L-V-00-P
Series	644					Industrial pressure transmitter
Electrical Connection		L B				3 ft cable Male 6-pin bayonet
Signal Output			V C			0-10 V 4-20 mA
Range				00 01 02 03 04 05 06 07 08 09 10 11		0 to -14.7 psig 0 to 15 psig 0 to 25 psig 0 to 50 psig 0 to 100 psig 0 to 150 psig 0 to 200 psig 0 to 300 psig 0 to 500 psig 0 to 750 psig 0 to 1000 psig 0 to 15 psia
Process Connection					P S	1/4˝ male NPT 7/16˝-20 SAE male

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: 9-30 VDC for current output; 15-30 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: 0-10 VDC (4-wire); 4-20 mA (2-wire).
Response Time: < 10 ms (voltage output), < 80 ms (current output).
Max Current Consumption: 4-20 mA: 22 mA; 0-10 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 Approvals: CE.

APPLICATIONS

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

ACCESSORIES

Model	Description
A-495	6-pin female bayonet mate connector