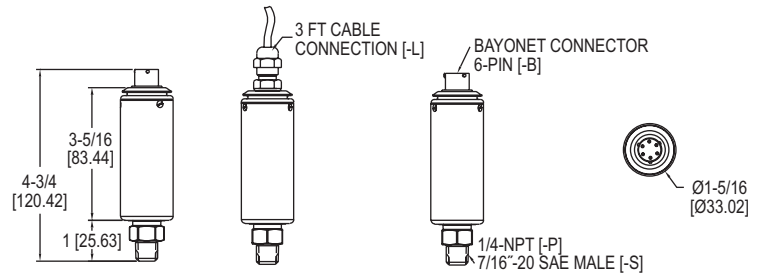


HIGH ACCURACY PRESSURE TRANSMITTER

±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

APPLICATIONS

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

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 Approvals: CE.

| 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 to 10 volt 4 to 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 |

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