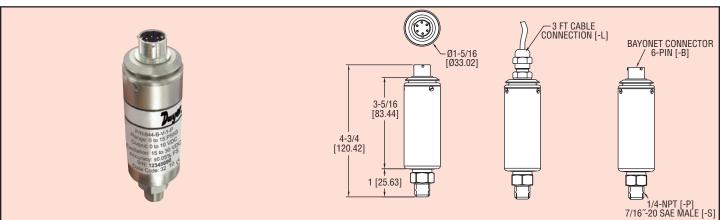


Series 644

High Accuracy Pressure Transmitter

 $\pm 0.05\%$ FS, $<\pm 0.25\%$ F.S. Total Error Band

CE



The Series 644 High Accuracy Pressure Transmitter is a robust transmitter designed for high accuracy pressure applications. Boasting an accuracy of $\pm 0.05\%$ FS RSS (\leq ±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

Model	644					Industrial Pressure Transmitter
Electrical		-L				3 ft cable
Connection		-B				Male 6-pin bayonet
Signal			-V			0 to 10 volt
Output			-C			4 to 20 mA
Range				-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
Process					-P	1/4" male NPT
Connection					-S	7/16"-20 SAE male

Ex. 644-L-V-00-P

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

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		Proof	Burst
Number	Range	Pressure	Pressure
00	0 to -14.7 psig	30 psig	3000 psig
01	0 to 15 psig	30 psig	3000 psig
02	0 to 25 psig	50 psig	3000 psig
03	0 to 50 psig	100 psig	8000 psig
04	0 to 100 psig	200 psig	10000 psig
05	0 to 150 psig	300 psig	10000 psig
06	0 to 200 psig	400 psig	10000 psig
07	0 to 300 psig	600 psig	10000 psig
08	0 to 500 psig	800 psig	10000 psig
09	0 to 750 psig	1200 psig	10000 psig
10	0 to 1000 psig	1500 psig	10000 psig
11	0 to 15 psia	30 psia	3000 psia