



Series
642

Industrial Process and Sensor

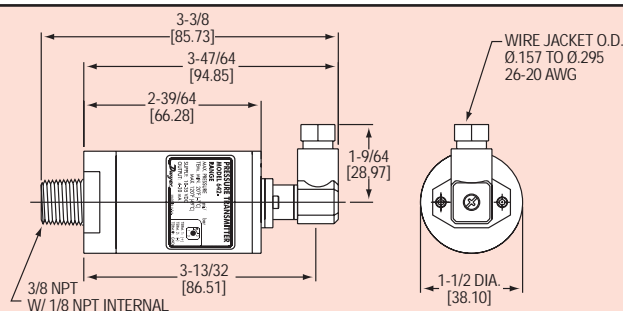
Phone 618-465-7623 WWW.IPSCUSTOM.COM FAX 618-465-7679

Pressure Transmitter

±0.1% Accuracy, SS Wetted Parts, Economical



Pressure



The Series 642 Pressure Transmitter uses high end ASIC technology to compensate for both linearity and thermal errors, providing an output with an accuracy of 0.1% of F.S. The 642 is therefore well suited for applications where precision measurement and control is an absolute must. Units are constructed of 316 and 316L SS wetted parts for superior compatibility. Zero and span are independently adjustable. Transmitters feature simple two wire operation plus reverse polarity protection. Liquid fill provides shock and vibration resistant protection.

MODELS

MODEL NUMBER	PRESSURE RANGE
642-1	0 - 15 psig (0 - 1.03 bar)
642-2	0 - 30 psig (0 - 2.07 bar)
642-3	0 - 50 psig (0 - 3.45 bar)
642-4	0 - 100 psig (0 - 6.90 bar)

SPECIFICATIONS

Service: Compatible, gases & liquids.
Wetted Materials: Types 316, 316L SS.
Accuracy: ±0.1% F.S.
Stability: ±1% F.S./yr.
Temperature Limits: 0 to 150°F (-17.8 to 65°C).
Compensated Temperature Limits: 20 to 120°F (-6.67 to 48.9°C).
Pressure Limit: 2x pressure range.
Thermal Effect: ±0.025% F.S./°F (0.045% F.S./°C).
Power Requirements: 10 to 35 VDC (2-wire).
Output Signal: 4 to 20 mA.

Zero & Span Adjustments: Accessible potentiometers adjustable to 0.05% of full span.
Loop Resistance: 1250 ohms DC max.
Current Consumption: 38 mA DC max.
Electrical Connections: 3-position terminal block.
Process Connection: Dual-size 3/8" (9.53 mm) male NPT, 1/8" (3.18 mm) female NPT.
Enclosure Rating: Designed to meet NEMA 4.
Mounting Orientation: Not position sensitive.
Weight: 11 oz (312 g).
Agency Approvals: CE.

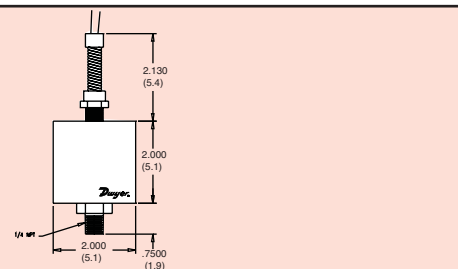
Applications include aerospace industries, factory automation, equipment monitoring and industrial research. The Series 642 Pressure Transmitter is ideal for use in harsh environments.



Series
682

Industrial Pressure Transmitter

±0.13% FS Accuracy, External Adjustments, 4-20 mA Output



The Series 682 Industrial Pressure Transmitter is designed to withstand environmental effects such as shock, vibration, temperature, and EMI/RFI. The electronics and capacitive sensor are packaged in a welded stainless steel housing and meets NEMA 4 (IP65) protection ratings. The transmitter features external zero and span adjustments and reverse polarity protection. The Series 682 delivers high performance in tough applications such as off road equipment, hydraulic systems, compressor control, industrial engines, or industrial refrigeration.

MODELS

Model Number*	Range	Overpressure
682-0	0 to 25 psi	100 psi
682-1	0 to 50 psi	150 psi
682-2	0 to 100 psi	300 psi
682-3	0 to 250 psi	500 psi
682-4	0 to 500 psi	1000 psi
682-5	0 to 1000 psi	2000 psi
682-6	0 to 3000 psi	4500 psi
682-7	0 to 5000 psi	7500 psi
682-8	0 to 10,000 psi	12,500 psi

* Units calibrated in bar also available. Consult factory.

SPECIFICATIONS

Service: Compatible liquids and gases.
Wetted Parts: 17-4 PH SS.
Accuracy: ±.13% FS (includes non-linearity, hysteresis and non-repeatability).
Temperature Limits: -40 to 260°F (-40 to 125°C) 10 to 90% RH, non-condensing.
Pressure Limit: See table.
Compensated Temp. Range: -4 to 176°F (-20 to 80°C).
Thermal Effect: Zero shift: 1.0% FS/100°F (% FS/50°C); span shift: ±1.5% FS/100°F (% FS/50°C).

Power Requirements: 9-30 VDC.
Output: 4-20 mA, 2-wire.
Zero and Span Adjustment: ± 0.5 mA, non-interactive.
Response Time: 5 ms.
Loop Resistance: 800 ohms.
Electrical Connections: 2 ft (51 cm) multiconductor cable.
Process Connection: 1/4" male NPT.
Weight: 8 oz (227 g).
Agency Approvals: CE.
Shock: 200 g operating.
Vibration: 20 g 50-2000 Hz.

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