



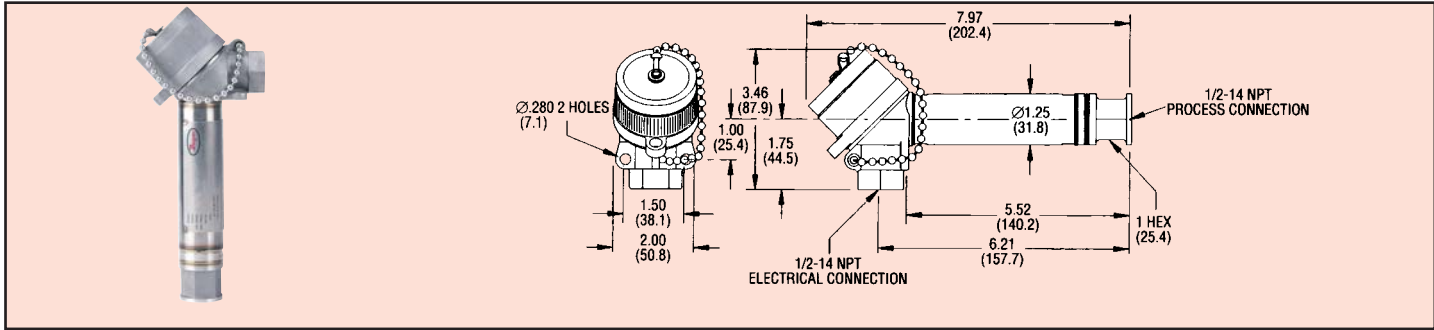
Series
637

Adjustable Range Pressure Transmitter

Stainless Steel, Intrinsically Safe, Explosion-proof, Accuracy $\pm 0.25\%$, 4-20 mA Signal



Pressure



Series 637 Pressure Transmitters are durable and compact with all welded 316 SS construction and exceptional $\pm 0.25\%$ accuracy. Four ranges are offered up to 0-300 psig (0-20 bar). Zero and span are adjustable to $\pm 10\%$ each; range turndown is a full 5:1. Integral junction box simplifies field wiring. Output is 4-20 mA with 12-40 VDC power supply. Units are explosion-proof, intrinsically safe with FM approval and they meet NACE standards for offshore applications.

SPECIFICATIONS

Service: Liquid, gas or vapor.
Wetted Materials: 316 L SS.
Body: 316 SS.
Accuracy: $\pm 0.25\%$ of calibrated span.
Stability: $\pm 0.5\%$ of upper range limit for six months.
Temperature Limits: Process Interface -40 to 212°F (-40 to 100°C).
Pressure Limits: 300% full scale.
Compensated Temperature: -20 to 180°F (-29 to 82°C).
Thermal Effect: (includes zero and span) $\pm 0.02\%$ upper range /°F (30 to 130°F) $\pm 0.032\%$ upper range /°C (-20 to 180°F).
Power Requirements: 12 to 40 VDC with rev. polarity protection.
Output Signal: 4-20 mA DC, max. 30 mA DC (2-wire).
Zero and Span Adjustment: $\pm 10\%$ each.

Loop Resistance: 600 ohms @ 24 VDC; max. ohms = (supply voltage - 12) x 50.
Electrical Connection: 1/2" female NPT.
Process Connection: 1/2" female NPT.
Response Time: Time constant of 20 ms.
Weight: 1.67 lb (752 g).
Agency Approvals: CE, FM.

Suggested Specifications

Pressure transmitter body shall be 316 SS with 4 adjustable ranges 0 to 300 psig (0 to 20 bar) with 5:1 turndown and accuracy of $\pm 0.25\%$. Unit shall be FM approved intrinsically safe for Class I, II, & III, Division 1, Group B,C, D, E, F & G for Hazardous Locations, and explosion-proof for Class I, Div. 1, Groups B, C, D; Dust-ignition proof for Class II, Div. 1, Groups E & G and suitable for Class III, Div. 1; Hazardous Locations, NEMA 4 Enclosure. Transmitter shall be Dwyer Model No. 637 ____.

MODELS

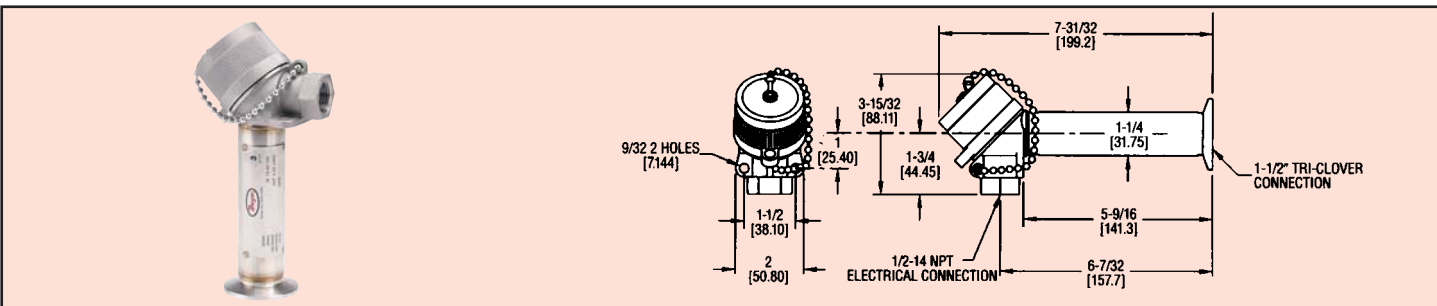
Model Number	Stock Range, PSI	Minimum Range, PSI	Stock Range, Bar	Minimum Range, Bar
637-0	0-15	0-3	0-1	0-0.2
637-1	0-30	0-6	0-2	0-0.4
637-2	0-100	0-20	0-7	0-1.4
637-3	0-300	0-60	0-20	0-4



Series
637S

Sanitary Pressure Transmitter

Meets NACE Standards, Accuracy $\pm 0.25\%$



Low cost, durable sanitary pressure transmitter is designed to meet 3A standards allowing use in food, dairy, beverage and pharmaceutical industries. This unit features superior $\pm 0.25\%$ accuracy and up to 5:1 turndown. Calibration is quick and easy with field accessible zero and span adjustments. All stainless steel construction resists the corrosive effects of caustic washes used in most food processing cleaning procedures. 1-1/2" Tri-Clover process connection is suitable for Clean-in-Place (CIP) applications, eliminating the need for expensive bypass piping, valving or removal requirements for steam cleaning.

SPECIFICATIONS

Service: Liquid, gas or vapor.
Wetted Materials: 316L SS.
Body: 316 SS.
Accuracy: $\pm 0.25\%$ of calibrated span.
Temperature Limits: Process interface -40 to 212°F (-40 to 100°C).
Pressure Limits: 300% full scale.
Compensated Temperature Range: -20 to 180°F (-25 to 80°C).
Thermal Effect: (Includes zero and span) $\pm 1\%$ of upper range limit per 50°F (30 to 130°F); $\pm 1.6\%$ of upper range limit per 50°F (10 to 180°F).
Power Requirements: 12-40 VDC with reverse polarity protection.
Output Signal: 4-20 mA DC, max. 30 mA DC (2-wire).
Zero and Span Adjustments: $\pm 10\%$ each.
Response Time: Time constant, 20 ms.

Loop Resistance: 600 ohms @ 24 VDC; max. ohms = (supply voltage - 12) x 50.
Electrical Connection: 1/2" female NPT.
Process Connection: 1-1/2" Tri-Clover
Weight: 1.67 lb (752 g).
Agency Approvals: CE.

Suggested Specifications

Sanitary Pressure transmitter shall be 316 SS construction with 5:1 turndown and $\pm 0.25\%$ F.S. accuracy. Unit shall meet NACE and 3A sanitary standards. Transmitter shall have 1-1/2" Tri-Clover process connection and be suitable for Clean-in-Place (CIP) applications. Unit shall have field accessible zero and span adjustments. Transmitter shall be Dwyer Model No. 637S ____.

MODELS

Model Number	Stock Range, PSI (Bar)	Min. Range PSI (Bar)
637S-0	0-15 (0-1)	0-6 (0-0.4)
637S-1	0-30 (0-2)	0-15 (0-1)
637S-2	0-100 (0-7)	0-20 (0-1.4)
637S-3	0-300 (0-20)	0-60 (0-4)