

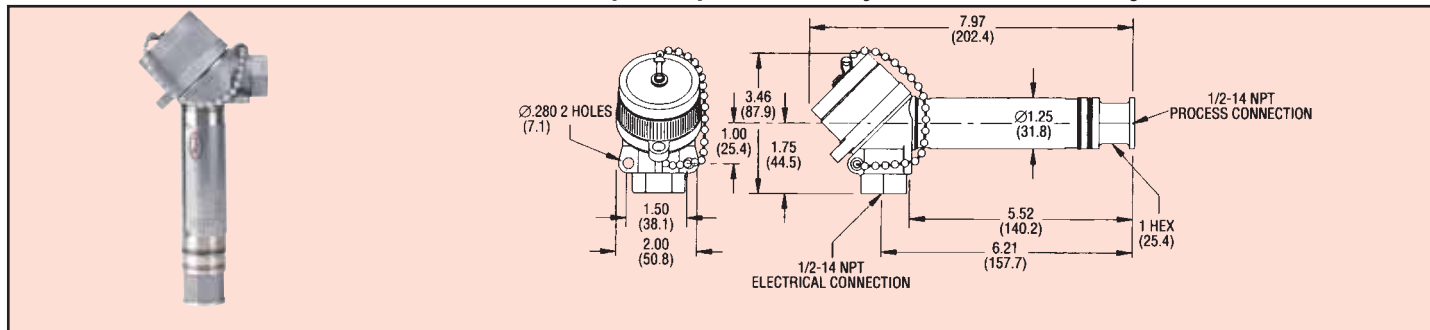


Series  
637

# Adjustable Range Pressure Transmitter



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



**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 off-shore applications.

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

## ACCESSORIES

MTL5041, Intrinsically Safe Galvanic Isolator

MTL7706, Intrinsically Safe Zener Barrier

## 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 /°F (-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, 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.