



Series  
638

# Pressure Transmitter

Stability, Stainless Steel, Intrinsically Safe, Accuracy  $\pm 0.50\%$ , 4-20 mA Signal



Series 638 Pressure Transmitters employ a polysilicon sensor for superior longterm stability and repeatability with  $\pm 0.5\%$  accuracy. They are FM approved intrinsically safe. Stainless steel NEMA 4X enclosure is ideal for corrosive media in hazardous environments. Output is 4-20 mA with 10-30 VDC power supply. NIST traceability with calibration certification is standard.

Model Number*	Operating Range, PSI	Operating Range, Bar	Model Number*	Operating Range, PSI	Operating Range, Bar
638-4-FM	0-100	0-7	638-10-FM	0-1000	0-69
638-5-FM	0-150	0-10	638-11-FM	0-2000	0-138
638-6-FM	0-200	0-14	638-12-FM	0-3000	0-207
638-7-FM	0-300	0-21	638-13-FM	0-5000	0-345
638-8-FM	0-500	0-35	638-14-FM	0-7500	0-517
638-9-FM	0-750	0-50	638-15-FM	0-10000	0-689

\*For low-cost non-FM version omit FM in model number.

## ACCESSORIES

**MTL5041**, Intrinsically Safe Galvanic Isolator

**MTL7706**, Intrinsically Safe Zener Barrier

## SPECIFICATIONS

**Service:** Liquid, gas or vapor.

**Wetted Materials:** 17-4PH SS.

**Body:** 300 SS.

**Accuracy:**  $\pm 0.50\%$  F.S.

**Repeatability:**  $\pm 0.05\%$  F.S.

**Hysteresis:**  $\pm 0.15\%$  F.S.

**Stability:** Less than 1% F.S./Yr.

**Temperature Limits:**

Operating: -20 to 180°F (-29 to 82°C).

**Pressure Limits:** 200% for  $\leq 2000$  psig, 150% for 3000-5000 psig, 120% for 7500-10000 psig.

**Compensated Temperature Range:**

-20 to 160°F (-29 to 71°C)

Storage: -65 to 250°F (-54 to 121°C).

**Thermal Effects:** Zero: 0.028% F.S./°F

Span: 0.028% F.S./°F

**Power Requirements:** 10-30 VDC.

**Output Signal:** 4-20 mA DC, max. 30 mA DC (2-wire).

**Zero and Span Adjust:**  $\pm 2.8\%$  F.S. each.

**Response Time:** Less than 10 ms.

**Loop Resistance:**  $V_{min} = 10V + (.022A \times RL)$ .

**Electrical Connection:** 36" (92 cm), 24 AWG.

**Process Connection:** 1/8" male NPT  
**Weight:** 2 oz (56 g) approximate without cable.

**Agency Approvals:** FM approved intrinsically safe for Class I, II, & III, Division 1, Group A, B, C, D, F & G for Hazardous Locations.