Differential Pressure Transmitters

For NIST traceable calibration certificate, use order code NISTCAL-PT1.

**Series 655A**

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**316 Wet/Wet Differential Pressure Transmitter**

Ranges Down to 3 in w.c., 6-Point N.I.S.T. Certificate Included

**Series 655A Differential Pressure Transmitters** are designed for high static/low DP applications designed especially for the End Users and OEM’s where extreme overpressure and high performance of 0.25% accuracy and stability are required at ranges down to 3 in w.c. Each unit includes a 6-point N.I.S.T. certificate of calibration which demonstrates the unit’s high level of performance.

**SPECIFICATIONS**

- **Service:** Compatible gasses or liquids.
- **Wetted Materials:** Types 316L SS.
- **Accuracy:** ±0.25% BSFL, RSS (combined effect of non-linearity, hysteresis, and repeatability).
- **Stability:** ±0.25% FS/yr.
- **Pressure Limits:** Ambient operating: -20 to 200°F (10 to 110°C); Process interface: -40 to 202°F (-40 to 100°C).
- **Compensated Temperature Range:** -20 to 160°F (-29 to 71°C).
- **Thermal Effect:** ±2% FS/50°F (reference to 77°F).
- **Power Requirements:** 12 to 30 VDC for current outputs; 3 mA for voltage outputs.
- **Output Signal:** 4 to 20 mA DC or 1 to 5 VDC.
- **Zero and Span Adjustment:** Fixed.
- **Response Time:** <10 ms.
- **Loop Resistance:** 500 Ω max @ 30 VDC.
- **Current Consumption:** 15 mA max @ 30 VDC.
- **Enclosure Rating:** NEMA 4X (IP65).
- **Agency Approvals:** CSA approved explosion-proof for Class I, Division 1, Groups B, C, and D; Class II, Groups E, F, and G; Class III.

**ORDERING INFORMATION**

- **Range:** 0 to 3 in w.c.

**OPTION**

- **For NIST traceable calibration certificate, use order code NISTCAL-PT1.**

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**Series 636D**

Fixed Range Differential Pressure Transmitter

Explosion-proof, 0.5% Accuracy

The Series 636D Differential Pressure Transmitter can be used for measuring pressures of liquids, gases, and vapors. All available ranges have an excellent 0.5% F.S. accuracy with a 4 to 20 mA output standard or optional 1 to 5 VDC output. The NEMA 4 (IP66) housing has an all 316 welded construction that is designed to withstand the harshest environmental conditions. With all 316L wetted materials this transmitter is compatible with most media. These units are CSA approved explosion-proof for use in the specified hazardous locations and meet NACE standards for off-shore applications.

**SPECIFICATIONS**

- **Service:** Compatible gasses, liquids, or vapors.
- **Wetted Materials:** Types 316L SS.
- **Accuracy:** ±0.5% FS (includes linearity, hysteresis, and repeatability).
- **Stability:** ±0.05% FS/yr.
- **Pressure Limits:** 3 x full-scale differential pressure. Burst: 2500 psig.
- **Temperature Limits:** Ambient operating: -40 to 140°F (-40 to 60°C); Process interface: -40 to 212°F (-40 to 100°C).
- **Compensated Temperature Range:** -20 to 160°F (-29 to 71°C).
- **Thermal Effect:** ±2% FS/50°F (reference to 77°F).
- **Power Requirements:** 12 to 30 VDC for 4 to 20 mA outputs; 8 to 14 VDC for 1 to 5 VDC outputs, both with reverse polarity protection.
- **Output Signal:** 4 to 20 mA DC or 1 to 5 VDC.
- **Zero and Span Adjustment:** Fixed.
- **Response Time:** 20 ms.
- **Loop Resistance:** 900 Ω max @ 30 VDC for current outputs. For voltage outputs, minimum lead resistance 50k ohms.
- **Current Consumption:** 4 to 20 mA for current output models; 3 mA for voltage output models.
- **Agency Approvals:** CSA approved explosion-proof for Class I, Division 1, Groups B, C, and D; Class II, Groups E, F, and G; Class III.

**ORDERING INFORMATION**

- **Model:** 636D-0 to 8
- **Range:** 0-300 psid
- **Output Signal:** 4 to 20 mA DC or 1 to 5 VDC
- **Zero and Span Adjustment:** Fixed
- **Response Time:** 20 ms
- **Loop Resistance:** 900 Ω max @ 30 VDC for current outputs. For voltage outputs, minimum lead resistance 50k ohms
- **Current Consumption:** 4 to 20 mA for current output models; 3 mA for voltage output models
- **Enclosure Rating:** NEMA 4 (IP65)
- **Agency Approvals:** CSA approved explosion-proof for Class I, Division 1, Groups B, C, and D; Class II, Groups E, F, and G; Class III.