Dwyer INSTRUMENTS, INC. | dwyer-inst.com

**SERIES 636D**

**FIXED RANGE DIFFERENTIAL PRESSURE TRANSMITTER**

**Explosion-Proof, 0.5% Accuracy**

**CALIBRATION SERVICES AVAILABLE**

Series 636D Fixed Range Differential Pressure Transmitter can be used for measuring pressures of liquids, gases & vapors. All available ranges have an excellent 0.5% FS accuracy with a 4-20 mA Output standard or optional 1-5 VDC output. The NEMA 4 housing is 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 offshore applications.

**FEATURES/BENEFITS**

- NEMA 4X rated enclosure provides protection in harsh environments permitting outdoor monitoring or in areas where dust and particulate matter exists.
- Explosion-proof device for use in hazardous areas.
- Versatile, high-accuracy device for liquid or gas supports designs requiring more precise measurements in support of application.

**APPLICATIONS**

- Pump differential pressure
- Critical process monitoring
- Off shore applications

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**MODEL CHART**

<table>
<thead>
<tr>
<th>Model</th>
<th>Range</th>
<th>Price</th>
<th>Model</th>
<th>Range</th>
<th>Price</th>
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<td>636D-0</td>
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*Note: Items are subject to Schedule B discounts.*

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**FEATURES/BENEFITS**

- Critical process monitoring
- NIST traceable calibration certificate

**APPLICATIONS**

- Pump differential pressure
- Offshore applications

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<tr>
<th>Model</th>
<th>Range</th>
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<th>Price</th>
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</thead>
<tbody>
<tr>
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<td>0 to 3 in w.c.</td>
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<td>0 to 3 in w.c.</td>
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</table>

**SPECIFICATIONS**

- Service: Compatible gases, liquids, or vapors.
- Wetted Materials: Type 316L SS.
- Accuracy: ±0.25% FS (includes linearity, hysteresis, and repeatability).
- Stability: ±0.0 FS/yr.
- Pressure Limits: ±0.25% FS for differential pressure sensor.
- Temperature Limits: Ambient operating: -40°F to 140°F (-40°C to 60°C).
- Compensated Temperature Range: -20°F to 160°F (-29°C to 71°C).
- Thermal Effect: ±2% FS/50°F (reference to 77°F).
- Power Requirements: 12-30 VDC for 4-20 mA outputs; 8-14 VDC for 1-5 VDC outputs, both with reverse polarity protection.
- Output Signal: 4-20 mA DC or 1-5 VDC.

**OPTIONS**

- Use order code: Description | Price
  - NISTCAL-PT1 | NIST traceable calibration certificate | $144.00
  - Items are net priced and are not subject to any discount.

**SERIES 655A**

**316 WET/WET DIFFERENTIAL PRESSURE TRANSMITTER**

**Ranges Down to 3 in w.c., 6-Point NIST Certificate Included**

The Series 655A 316 Wet/Wet Differential Pressure Transmitter is 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 NIST certificate of calibration which demonstrates the unit’s high level of performance.

**FEATURES/BENEFITS**

- Extreme overpressure and stability at low ranges provides durable device for OEM and end-user applications.
- High-accuracy device for low differential pressure designs requiring more precise measurements in support of application.
- NIST certificate available to demonstrate high-level of performance.

**APPLICATIONS**

- Pump differential pressure
- Critical process monitoring
- Pressure OEM applications

**MODEL CHART**

<table>
<thead>
<tr>
<th>Model</th>
<th>Range</th>
<th>Price</th>
<th>Model</th>
<th>Range</th>
<th>Price</th>
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</thead>
<tbody>
<tr>
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<tr>
<td>655A-04-C</td>
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<tr>
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<tr>
<td>655A-07-C</td>
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<td>655A-07-P</td>
<td>0 to 2 psid</td>
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</tr>
</tbody>
</table>

**SPECIFICATIONS**

- Service: Compatible gases, liquids, or vapors.
- Wetted Materials: Type 316L SS.
- Accuracy: ±0.25% BFSL, RSS (combined effect of non-linearity, hysteresis, and repeatability).
- Stability: ±0.25% FS/yr.
- Temperature Limits: Ambient operating: -20°F to 200°F (-29°C to 93°C).
- Compensated Temperature Limits: 0 to 170°F (-29°C to 76.7°C).
- Pressure Limits: 1000 psi (68.95 bar) continuous; 3000 psi (206.8 bar) burst.
- Thermal Effects: ± ≤ 0.5% FS over comp. temperature range.
- Power Requirements: 8-38 VDC.
- Output Signal: 4-20 mA.
- Static Pressure Effects: On zero: ± ≤ 0.25% FSO per 1000 psi; on span: ± ≤ 0.5% of reading per 1000 psi.
- Response Time: ≤ 10 ms.
- Loop Resistance: 1500 Ω.
- Electrical Connections: Cable exit with 24" cable; optional 6-pin connecter.
- Process Connections: 1/4" NPT female.
- Enclosure Rating: Designed to meet NEMA 4X (IP66).
- Mounting Orientation: Mount in vertical position: zero shifts up to ±1 in w.c. depending on orientation.
- Weight: 1.8 lb (0.82 kg).

**ACCESSORIES**

- Model | Description | Price
  - A-232 | Connection with cable (3’); for 6 pin connection models | $136.00
  - Items are subject to Schedule B discounts.