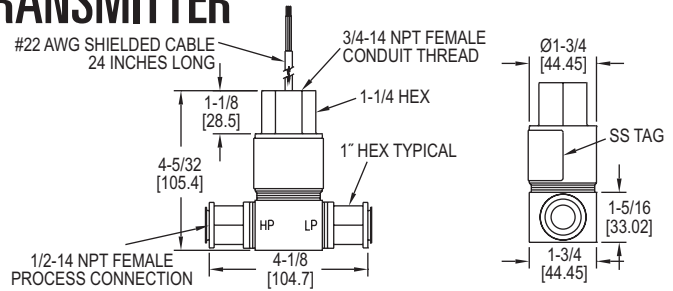


FIXED RANGE DIFFERENTIAL PRESSURE TRANSMITTER

Explosion-Proof, 0.5% Accuracy



SERIES 636D 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 off-shore 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

MODEL CHART

| Model 4-20 mA Out | Range | Model 1-5 VDC Out | Range |
|----------------------|---------------|----------------------|---------------|
| 636D-0 | 0 to 6 psid | 636D-0-LP | 0 to 6 psid |
| 636D-1 | 0 to 15 psid | 636D-1-LP | 0 to 15 psid |
| 636D-2 | 0 to 30 psid | 636D-2-LP | 0 to 30 psid |
| 636D-3 | 0 to 60 psid | 636D-3-LP | 0 to 60 psid |
| 636D-4 | 0 to 100 psid | 636D-4-LP | 0 to 100 psid |
| 636D-5 | 0 to 150 psid | 636D-5-LP | 0 to 150 psid |
| 636D-6 | 0 to 200 psid | 636D-6-LP | 0 to 200 psid |
| 636D-7 | 0 to 300 psid | 636D-7-LP | 0 to 300 psid |
| 636D-8 | 0 to 500 psid | 636D-8-LP | 0 to 500 psid |

SPECIFICATIONS

Service: Compatible gases, liquids, or vapors.

Wetted Materials: Types 316L SS.

Accuracy: BFSL: ±0.5% FS (includes linearity, hysteresis, and repeatability).

Stability: ±1.0 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);

Storage: -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.

Electrical Connections: 2 ft, 22 AWG

cable; 3/4" female NPT conduit.

Process Connections: Two 1/2" female

NPT.

Enclosure Rating: NEMA 4 (IP56).

Mounting Orientation: ±0.05 psi/90°

rotation from horizontal.

Weight: 1.8 lb (0.82 kg).

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.

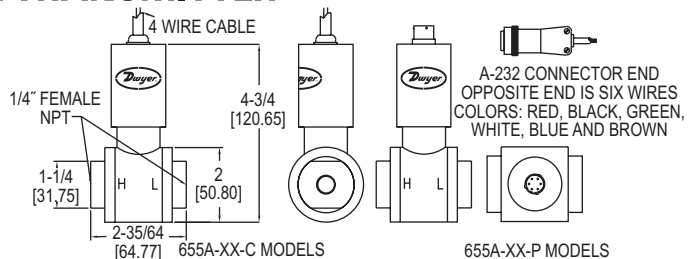
OPTIONS

| Use order code: | Description |
|-----------------|--|
| NISTCAL-PT1 | NIST traceable calibration certificate |

SERIES 655A

316 WET/WET DIFFERENTIAL PRESSURE TRANSMITTER

Ranges Down to 3 in w.c., 6-Point NIST 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 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
- High accuracy/low differential pressure OEM applications

MODEL CHART

| Model | Range | Model | Range |
|-----------|-----------------|-----------|-----------------|
| 655A-00-C | 0 to 3 in w.c. | 655A-00-P | 0 to 3 in w.c. |
| 655A-01-C | 0 to 5 in w.c. | 655A-01-P | 0 to 5 in w.c. |
| 655A-02-C | 0 to 8 in w.c. | 655A-02-P | 0 to 8 in w.c. |
| 655A-03-C | 0 to 10 in w.c. | 655A-03-P | 0 to 10 in w.c. |
| 655A-04-C | 0 to 15 in w.c. | 655A-04-P | 0 to 15 in w.c. |
| 655A-05-C | 0 to 20 in w.c. | 655A-05-P | 0 to 20 in w.c. |
| 655A-06-C | 0 to 1 psid | 655A-06-P | 0 to 1 psid |
| 655A-07-C | 0 to 2 psid | 655A-07-P | 0 to 2 psid |

Note: Change 'C' to 'P' for optional 6 pin male connection.

SPECIFICATIONS

Service: Compatible gases or liquids.

Wetted Materials: 316L SS.

Accuracy: ±0.25% BFSL, RSS

(combined effect of non-linearity,

hysteresis, and repeatability).

Stability: ≤ ±0.25% FSO/yr.

Temperature Limits: -20 to 200°F

(-29 to 93°C).

Compensated Temperature Limits:

0 to 170°F (-17.8 to 76.7°C).

Pressure Limits: 1000 psi (68.95 bar)

continuous; 3000 psi (206.8 bar) burst.

Thermal Effects: ≤ ±1.5% FS oven

comp. temperature range.

Power Requirements: 8 to 38 VDC.

Output Signal: 4 to 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 connector.

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: 18 oz (510 g).

ACCESSORIES

| Model | Description |
|-------|---|
| A-232 | Connection with cable (3'); for 6 pin connection models |