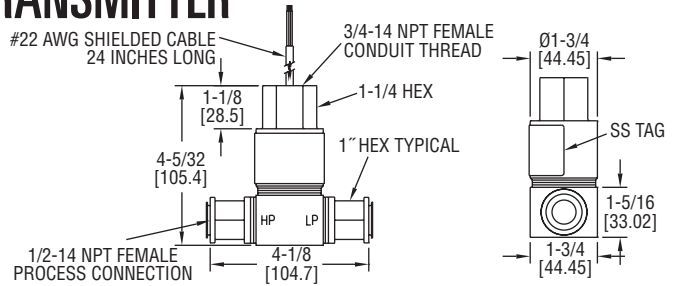


FIXED RANGE DIFFERENTIAL PRESSURE TRANSMITTER

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.

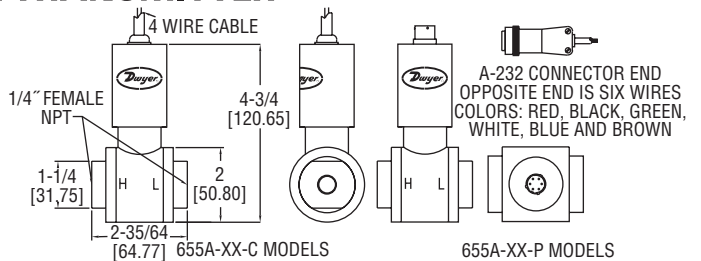
Zero and Span Adjustment: Fixed.
Response Time: 20 ms.
Loop Resistance: 900 Ω max @ 30 VDC for current outputs. For voltage outputs, minimum lead resistance 50k ohms.
Current Consumption: 4 to 20 mA for current output models; 3 mA for voltage output models.
Electrical Connections: 2 ft, 22 AWG cable; 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.

OPTION

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

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 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).
Agency Approvals: CE.

ACCESSORY

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