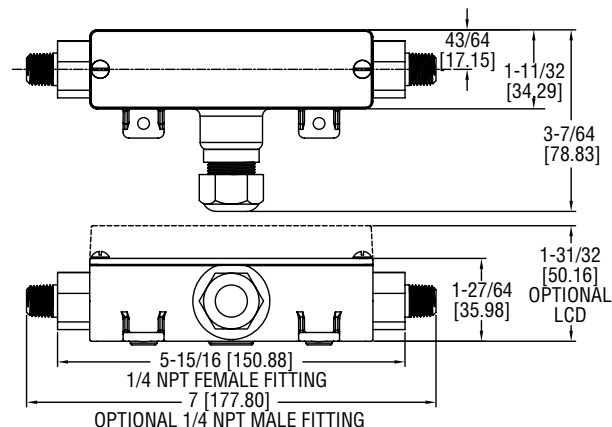


## WET/WET DIFFERENTIAL PRESSURE TRANSMITTER

0.5% Accuracy, NEMA 4X (IP66) Enclosure



The **SERIES 629C** Wet/Wet Differential Pressure Transmitter monitors differential pressure of air and compatible gases and liquids with 0.5% accuracy. The design employs dual pressure sensors converting pressure changes into a standard 4 to 20 mA output signal or field selectable voltage. Small internal volume and minimal moving parts result in exceptional response and reliability. The terminal block, as well as a zero adjustment button, are easily accessed under the top cover. The Series 629C Differential Pressure Transmitter is designed to meet NEMA 4X (IP66) construction.

## SPECIFICATIONS

**Service:** Compatible gases and liquids.  
**Wetted Materials:** Without valve: 316, 316L SS. Additional wetted parts with valve option: Buna-N, silicone grease, PTFE, brass 360, copper, and reinforced copolymer.  
**Accuracy:**  $\pm 0.5\%$  FS (includes linearity, hysteresis & repeatability).  
**Stability:**  $\pm 1\%$  FS/year.  
**Temperature Limits:** 0 to 200°F (-18 to 93°C).  
**Compensated Temperature Limits:** 0 to 175°F (-18 to 79°C).  
**Pressure Limits:** See Table 1.  
**Thermal Effects:** Avg 0.04%/°F (0.072%/°C) (includes zero and span).  
**Power Requirements:** 2-wire: 10 to 35 VDC; 3-wire: 13 to 35 VDC or isolated 16 to 33 VAC (reverse polarity protected).  
**Output Signal:** 2-wire: 4 to 20 mA; 3-wire: Field selectable 0 to 5, 1 to 5, 0 to 10, or 2 to 10 VDC.

**Zero and Units:** Push buttons inside conduit enclosure.  
**Response Time:** 400 msec.  
**Loop Resistance:** Current output: 0 to 1250  $\Omega$  (max);  $R_{max} = 50(V_{ps}-10)$ ; Voltage output: Minimum load resistance = 5 k $\Omega$ .  
**Current Consumption:** 28 mA (max).  
**Electrical Connections:** Removable terminal block; 1/2" female NPT conduit.  
**Process Connections:** 1/4" female or male NPT.  
**Display:** Optional 4-1/2 digit LCD field attachable display.  
**Enclosure Rating:** Designed to meet NEMA 4X.  
**Mounting Orientation:** Not position sensitive.  
**Weight:** 10.1 oz (286 g).  
**Agency Approvals:** CE.

## MODEL CHART

Example	629C	-01	-CH	-P1	-E1	-S1	-3V	629C-01-CH-P1-E1-S1-3V	Price
Series	629C							Wet/wet differential pressure transmitter	\$285.00
Range		01 02 03 04 05 06 07 08 09 11 12 13 14 15 16 17 18 19						0 to 5 psid 0 to 10 psid 0 to 25 psid 0 to 50 psid 0 to 100 psid 0 to 150 psid 0 to 200 psid 0 to 300 psid 0 to 500 psid 0 to 0.5 bar differential 0 to 1 bar differential 0 to 2 bar differential 0 to 4 bar differential 0 to 6 bar differential 0 to 10 bar differential 0 to 15 bar differential 0 to 20 bar differential 0 to 30 bar differential	- - - - - - - - - - - - - - - - - - -
Housing			CH					Conduit housing, NEMA 4X (IP66)	-
Process Connection				P1 P2 P3 P4				1/4" male NPT 1/4" female NPT 1/4" male BSPT 1/4" female BSPT	- - +5.00 +5.00
Electrical Connection					E1 E2 E3 E5 E9			Cable gland with 3' of prewired cable Cable gland with 6' of prewired cable Cable gland with 9' of prewired cable 1/2" female NPT conduit M-12 4 pin connector	- +5.00 +5.00 - -
Signal Output						S1 S3		4-20 mA Field selectable 0-5, 1-5, 0-10, 2-10 VDC	- -
Options							3V AT FC LCD NIST	3-way valve Aluminum tag Factory calibration certificate LCD indication NIST traceable certificate	+121.00 +13.75 +30.00 +100.00 +139.00

## RANGE

Range Number	Range	Working Pressure*	Over Pressure
01	0 to 5 psid	10 psi	50 psi
02	0 to 10 psid	20 psi	50 psi
03	0 to 25 psid	50 psi	120 psi
04	0 to 50 psid	100 psi	250 psi
05	0 to 100 psid	200 psi	500 psi
06	0 to 150 psid	300 psi	750 psi
07	0 to 200 psid	400 psi	1000 psi
08	0 to 300 psid	600 psi	1200 psi
09	0 to 500 psid	1000 psi	2000 psi
11	0 to 0.5 bar differential	1 bar	3 bar
12	0 to 1 bar differential	2 bar	8 bar
13	0 to 2 bar differential	4 bar	8 bar
14	0 to 4 bar differential	8 bar	18 bar
15	0 to 6 bar differential	12 bar	18 bar
16	0 to 10 bar differential	20 bar	50 bar
17	0 to 15 bar differential	30 bar	60 bar
18	0 to 20 bar differential	40 bar	80 bar
19	0 to 30 bar differential	60 bar	120 bar

\*Pressures exceeding the working pressure limit may cause a calibration shift of up to  $\pm 3\%$  of full scale.

**Note:** Over pressure of all models with 3-way valve is 100 psi.

## ACCESSORIES

Model	Description	Price
A-629C-3V	Field-upgradeable LCD	\$130.00
A-62X-LCD	3-way brass manifold valve	121.00
A-155	Cable gland with 1/2" NPT male	16.00
A-228	12" SS flex hose	34.75
BBV-1B	Mini SS 3-valve black manifold	127.00