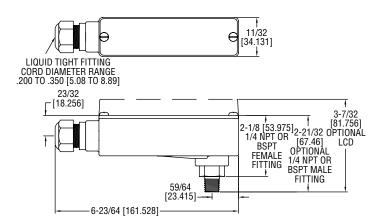


Series 626/628-CB Industrial Pressure Transmitters

Specifications - Installation and Operating Instructions





The Series 626 and 628 Pressure Transmitters monitors the pressure of compatible gases and liquids with 0.25% full-scale accuracy for 626 models or 1.0% full-scale accuracy for 628 models. The design employs a pressure sensor that can convert a single positive pressure into a standard 4-20 mA output. The Series 626 and 628 are designed to meet NEMA 4X (IP66) construction.

PRESSURE LIMITS								
Range	*Maximum Pressure Over Pressure							
0 to 5 psi	10 psi	50 psi						
0 to 15 psi	30 psi	150 psi						
0 to 30 psi	60 psi	300 psi						
0 to 50 psi	100 psi	300 psi						
0 to 100 psi	200 psi	500 psi						
0 to 150 psi	300 psi	750 psi						
0 to 200 psi	400 psi	1000 psi						
0 to 300 psi	600 psi	1500 psi						
0 to 500 psi	1000 psi	2500 psi						
0 to 600 psi	1200 psi	3000 psi						
0 to 1000 psi	2000 psi	5000 psi						
0 to 1500 psi	3000 psi	5000 psi						
0 to 3000 psi	6000 psi	7500 psi						

*Pressures exceeding the maximum pressure limit may cause a calibration shift of up to ±3% of full-scale.

SPECIFICATIONS

Service: Compatible gases and liquids. Wetted Materials: Type 316L SS.

Accuracy: 626: 0.25% FS, 0.20% RSS; 628: 1.0% FS, 0.5% RSS; 626 absolute ranges: 0.5% FS, 0.35% RSS (includes linearity, hysteresis, and repeatability).

Temperature Limits: 0 to 200°F (-18 to 93°C).

Compensated Temperature Limits: 0 to 175°F (-18 to 79°C).

Pressure Limits: See chart.

Thermal Effect: 626: ±0.02% FS/°F; 628: ±0.04% FS/°F (includes zero and span).

Power Requirements: 2-wire: 10-30 VDC.

Output Signal: 2-wire: 4-20 mA. Response Time: 300 msec.

Loop Resistance: Current output: 0 to 1000 Ω (max), Rmax = 50(Vps-10).

Current Consumption: 38 mA (max).

Electrical Connections: Quick connect wire joints. 1/2" female NPT conduit.

Process Connections: 1/4" female or male NPT or BSPT.

Enclosure Rating: Designed to meet NEMA 4X (IP66) for non-LCD models.

Mounting Orientation: Not position sensitive.

Fax: 219-872-9057

Weight: 10 oz (283 g). Compliance: CE.

Phone: 219-879-8000 www.dwyer-inst.com

e-mail: info@dwyermail.com

INSTALLATION

- Location: Select a location where the temperature of the unit will be between 0 and 175°F (-18 to 79°C). Distance from the receiver is limited only by total loop resistance. The tubing feeding pressure to the instrument can be practically any length required, but long lengths will increase response time slightly.
- 2. Position: The transmitter is not position sensitive. However, all standard models are originally calibrated with the unit in a position with the pressure connection downward. Although they can be used at other angles, for best accuracy, it is recommended that units be installed in the position calibrated at the factory.
- 3. Pressure Connection: Use a small amount of plumber's tape or other suitable sealants to prevent leaks. Be sure the pressure passage inside the port is not

4. Electrical Connections

Wire Length - The maximum length of wire connecting the transmitter and receiver is a function of wire size and receiver resistance. Wiring should not contribute to more than 10% of the receiver resistance to total loop resistance. For extremely long runs (over 1000 ft or 305 m), choose receivers with higher resistance to minimize the size and cost of connecting leads. Where wiring length is under 100 feet (30.5 m), wire as small as 22 AWG can be used.

CURRENT (4-20 mA) OUTPUT OPERATION

An external power supply delivering 10-30 VDC with minimum current capability of 40 mA DC (per transmitter) is required to power the control loop. See Figure 1 for connection of the power supply, transmitter, and receiver. The range of appropriate receiver load resistance (RL) for the DC power supply voltage available is expressed by the formula:

$$RL Max = \frac{Vps - 10}{20 \text{ mA DC}}$$

Shielded cable is recommended for control loop wiring.

Electrical connections to the Series 626/628-CB pressure transmitters are made to the terminal block located inside the housing. Remove the screws and lift off the cover. Lift off the terminal block for wiring. Wire as show in Figure 1. Use Figure 1 for current output connection. If ordering pre-wired cable, black wire is negative [-] and red wire is positive [+].

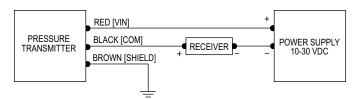


Figure 1: Current output connection

M-12 Pin Connector with Current Output

For the optional M-12 4 pin connector, wire to pins as shown in Figure 2.

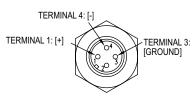


Figure 2: Current output with pptional M-12 4 pin connector

MODEL CHA	MODEL CHART							
Example	626	-02	-CB	-P1	-E2	-S8	-NIST	626-02-CB-P1-E2-S8-NIST
Series	626							0.25% FS accuracy
	628							1.0% FS accuracy
Range		06						0 to 5 psi
		07						0 to 15 psi
		08						0 to 30 psi
		09						0 to 50 psi
		10						0 to 100 psi
		11						0 to 150 psi
		12						0 to 200 psi
		13						0 to 300 psi
		14						0 to 500 psi
		22						0 to 600 psi
		15						0 to 1000 psi
		16						0 to 1500 psi
		18						0 to 3000 psi
		19						0 to 5000 psi
		26						0 to 8000 psi
Housing			СВ					Conduit box housing
Process				P1				1/4" male NPT
Connection				P2				1/4" female NPT
				P3				1/4" male BSPT
				P4				1/4" female BSPT
Electrical					E1			Cable gland with 3' prewired
Connection								cable
					E2			Cable gland with 6' prewired
								cable
					E3			Cable gland with 9' prewired
								cable
					E5			1/2" female NPT conduit
					E9			M-12 4 pin connector (not UL)
Signal						S1		4-20 mA
Output						S8		Selectable 0-5, 1-5, 0-10, or
								2-0 VDC
Options							AT	Aluminum tag
							LCD	LCD display
							NIST	NIST traceable calibration
								certificate
							SPCL	Special cleaning for oxygen use
Matai Dassa								and an account of the anti-market

Note: Pressures exceeding the working pressure limit may cause a calibration shift of up to ±3% of full-scale

MAINTENANCE/REPAIR

Upon final installation of the Series 626/628-CB Industrial Pressure Transmitter, no routine maintenance is required. The Series 626/628-CB is not field serviceable and is not possible to repair the unit. Field repair should not be attempted and may void warranty.

WARRANTY/RETURN

Phone: 219-879-8000

Fax: 219-872-9057

Refer to "Terms and Conditions of Sale" in our catalog and on our website. Contact customer service to receive a Return Goods Authorization number before shipping the product back for repair. Be sure to include a brief description of the problem plus any additional application notes.

www.dwyer-inst.com

e-mail: info@dwyermail.com