

# INDUSTRIAL PRESSURE TRANSMITTERS

Complete Offering of Ranges, Connections and Outputs



626/628 pressure transmitters  
with general purpose housing (-GH)



626/628 pressure transmitters  
with conduit box housing (-CB) and LCD display



\*Please see our website for dimensional drawings.

The **Series 626 Industrial Pressure Transmitters** possess a highly precise 0.25% full-scale accuracy piezo-resistive sensor contained in a compact, rugged, NEMA 4X (IP66) stainless steel general purpose housing or cast aluminum conduit housing. The **Series 628 Industrial Pressure Transmitters** are ideal for OEMs with 1% full-scale accuracy sensors. The corrosion resistant 316L stainless steel wetted parts allow the Series 626 and 628 transmitters to measure the pressure in a multitude of processes from hydraulic oils to chemicals. The Series 626 and 628 are available in absolute and gage pressure ranges with a variety of optional outputs, process connections and electrical terminations to allow you to select the right transmitter for your application.

## FEATURES/BENEFITS

- NEMA 4X rated enclosure provides protection in harsh environments permitting outdoor monitoring or in areas where dust and particulate matter exists
- Robust 316 SS oil filled sensor provides shock and vibration resistance insuring stability in controlling pressure for process applications
- A wide range of models and connections that can meet pressure measurement specifications from low to very high

## APPLICATIONS

- Compressors
- Pumping systems
- Irrigation equipment
- Hydraulic
- Industrial process monitoring

## SPECIFICATIONS

**Service:** Compatible gases and liquids.

**Wetted Materials:** Type 316L SS.

**Accuracy:** 626: 0.25% FS; 626: 0.20% RSS; 628: 1.0% FS; 628: 0.5% RSS; 626 Absolute Ranges: 0.5% FS; 626 absolute ranges: 0.30% RSS. (Includes linearity, hysteresis, and repeatability.)

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

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

**Thermal Effect:** ±0.02% FS/°F (includes zero and span).

**Pressure Limits:** See table.

**Power Requirements:** 10-30 VDC (for 4-20 mA, 0-5, 1-5, 1-6 VDC outputs); 13-30 VDC (for 0-10, 2-10 VDC outputs); 5 VDC ±0.5 VDC (for 0.5-4.5 VDC ratio-metric output), 10-35 VDC (for 4-20 mA with -CB option); 13-35 VDC or isolated 16-33 VAC (for selectable output with -CB option).

**Output Signal:** 4-20 mA, 0-5 VDC, 1-5 VDC, 0-10 VDC, or 0.5-4.5 VDC, or selectable 0-5, 1-5, 0-10, 2-10 VDC for -CB option.

**Response Time:** 300 ms.

**Loop Resistance:** 0 to 1000 Ω max.  $R_{max} = 50 (V_{ps}-10) \Omega$  (4-20 mA output), 0-1250 Ω max.  $R_{max} = 50 (V_{ps}-10) \Omega$  (4-20 mA output with -CB option), 5K Ω (0-5, 1-5, 1-6, 0-10, 2-10, 0.5-4.5 VDC output).

**Stability:** 1.0% FS/year (Typ.).

**Current Consumption:** 38 mA maximum (for 4-20 mA output); 10 mA maximum (for 0-5, 1-5, 1-6, 0-10, 2-10, 0.5-4.5 VDC output); 140 mA maximum (for all 626/628/629-CH with optional LED).

**Electrical Connections:** See model chart.

**Process Connection:** See model chart.

**Enclosure Rating:** NEMA 4X (IP66).

**Mounting Orientation:** Mount in any position.

**Weight:** 10 oz (283 g).

**Agency Approvals:** CE, NSF, UL.

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MODEL CHART								
Example	626	-00	-CH	-P1	-E1	-S1	-AT	626-00-CH-P1-E1-S1-AT
Accuracy	626							0.25% full-scale accuracy
	628							1.0% full-scale accuracy
Range		00 01 02 03 04 05 06 07 08 09 10 11 12 13 14 22 15 16 18 19 26 67 71 75 81						0 to 15 psia <sup>⑤</sup> 0 to 30 psia <sup>⑤</sup> 0 to 50 psia <sup>⑤</sup> 0 to 100 psia <sup>⑤</sup> 0 to 200 psia <sup>⑤</sup> 0 to 300 psia <sup>⑤</sup> 0 to 5 psi 0 to 15 psi 0 to 30 psi 0 to 50 psi 0 to 100 psi 0 to 150 psi 0 to 200 psi <sup>⑥</sup> 0 to 300 psi <sup>⑥</sup> 0 to 500 psi <sup>⑥</sup> 0 to 600 psi <sup>⑥</sup> 0 to 1000 psi 0 to 1500 psi <sup>⑥</sup> 0 to 3000 psi 0 to 5000 psi 0 to 8000 psi 0 to 0.5 bar 0 to 2.5 bar 0 to 10 bar 0 to 40 bar
Housing			CB GH					Conduit box housing General purpose housing
Process Connection				P1 P2 P3 P5 P9				1/4" male NPT 1/4" female NPT 1/4" male BSPT 1/4" female SAE with refrigerant valve depressor <sup>①</sup> 1/2" male NPT <sup>②</sup>
Electrical Connection					E1 E3 E4 E5 E6 E8 E9			Cable gland with 3' of prewired cable Cable gland with 9' of prewired cable DIN EN 175801-803-C <sup>③</sup> 1/2" female NPT conduit <sup>③</sup> M-12 4 pin connector-UL <sup>④</sup> Packard connector M-12 4 pin connector non-UL
Signal Output						S1 S2 S4 S5 S7 S8		4-20 mA 1-5 VDC 0-5 VDC 0-10 VDC 0.5-4.5 VDC <sup>①③</sup> Selectable 0-5, 1-5, 0-10, 2-10 VDC <sup>③</sup>
Options							AT LCD NIST NW	Aluminum tag LCD indication <sup>③</sup> NIST traceable certificate NSF/ANSI 61/372 certified

① Available with -GH housing only, NEMA 4 (IP65)    ② Available with -CB housing only    ③ Power requirement: 5 VDC ±10%  
 ④ Available with -GH housing only    ⑤ Absolute ranges for 626 are 0.5% FS accuracy and for 628 are 2% FS accuracy  
 ⑥ UL listed pump controllers, fire-component on 4-20 mA "-S1" signal output models only - See online certificate for information and limitations

**Note:** Bar and absolute ranges are only available with -GH housing.

PRESSURE LIMITS							
Range Number	Pressure Range	Maximum Pressure (psig)	Over Pressure (psig)	Range Number	Pressure Range (psig)	Maximum Pressure (psig)	Over Pressure (psig)
00	0 to 15 psia	30	45	12	0 to 200	400	1000
30	15 to 0 psia	30	45	13	0 to 300	600	1500
06	0 to 5 psig	10	50	14	0 to 500	1000	2500
07	0 to 15 psig	30	150	15	0 to 1000	2000	5000
08	0 to 30 psig	60	300	16	0 to 1500	3000	5000
09	0 to 50 psig	100	300	18	0 to 3000	6000	7500
10	0 to 100 psig	200	500	19	0 to 5000	7500	10000
11	0 to 150 psig	300	750	26	0 to 8000	10000	12000

ACCESSORIES	
Model	Description
A-164	16.4' (5 m) cable with M-12 4-pin female connector
A-62X-LCD	Field-upgradeable LCD
A-960	3' packard cable
A-961	9' packard cable
A-962	20' packard cable