

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 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 (Vps-10) Ω (4-20 mA output), 0-1250 Ω max. Rmax = 50(Vps-10) Ω (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: Conduit Housing (-CH): terminal block, 1/2" female NPT conduit; General Purpose Housing (-GH): cable DIN EN 175801-803-C.

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

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 | 626 628 | | | | | | | 0.25% full-scale accuracy 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 ^⑤ 0 to 30 psia ^⑤ 0 to 50 psia ^⑤ 0 to 100 psia ^⑤ 0 to 200 psia ^⑤ 0 to 300 psia ^⑤ 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 ^⑥ 0 to 300 psi ^⑥ 0 to 500 psi ^⑥ 0 to 600 psi ^⑥ 0 to 1000 psi 0 to 1500 psi ^⑥ 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 ^① 1/2" male NPT ^② |
| 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 ^③ 1/2" female NPT conduit ^④ M-12 4 pin connector-UL ^④ 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 ^{①③} Selectable 0-5, 1-5, 0-10, 2-10 VDC ^③ |
| Options | | | | | | | AT LCD NIST NW | Aluminum tag LCD indication ^⑤ 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 - 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 |