SERIES 626 & 628 | INDUSTRIAL PRESSURE TRANSMITTER/TRANSDUCER

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

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

BENEFITS/FEATURES

Standard:

- **NEMA 4X rated enclosure**
- **Robust 316L SS oil filled sensor**
- **CE approved design**
- **626: 0.25% FS**
- **628: 1.0% FS**

Optional:

- **Advanced environmental protection**
- **C-276 wetted materials**
- **Digital or analog outputs (I2C)**
- **Custom range configuration**
- **Overpressure and/or vacuum protection**

APPLICATIONS

- Booster stations
- Pumping systems
- Irrigation equipment
- PTO systems
- Submersible pump control

DESCRIPTION

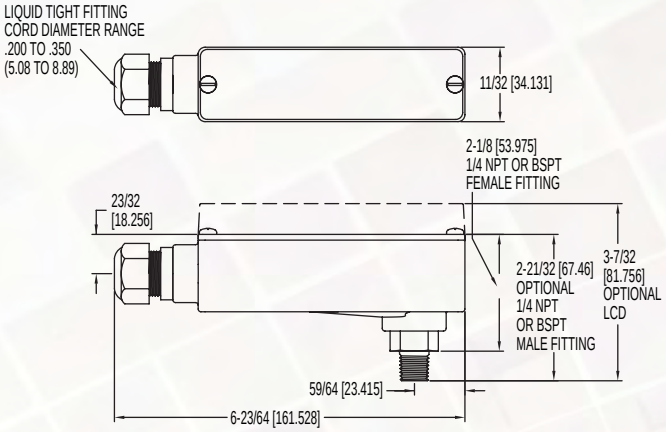
The **Series 626 & 628 Pressure Transmitters** feature a piezo-resistive sensor contained in a compact, rugged, NEMA 4X (IP66) stainless steel general purpose housing or cast aluminum conduit housing.

Dwyer offers optional configurations to address multiple common points of failure that have traditionally challenged the use of similar products in extreme conditions. The 626 & 628 are uniquely suited for precision irrigation and additional outdoor power equipment applications. The corrosion resistant 316L stainless steel wetted parts allow the Series 626 & 628 transmitters to measure pressure in a multitude of processes from simple irrigation systems to chemical dosing and injection systems. Optional wetted materials such as C-276 offer chemical compatibility with aggressive media. The 626 & 628 can be configured to provide advanced environmental protection. This includes, but is not limited to, freeze/thaw protection for outdoor cold weather applications, vibration resistance, and/or overpressure protection to protect the sensors against pressure surges or pump cavitation. The Series 626 & 628 are available in absolute and gauge pressure ranges with a variety of optional outputs, process connections, electrical terminations, and select agency approvals to allow you to select the correct transmitter for your application.

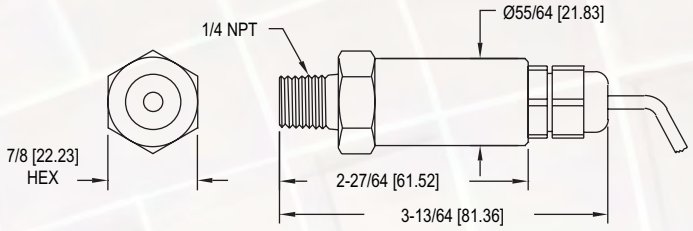
SPECIFICATIONS

Service	Compatible gases and liquids.
Wetted Materials	Type 316L SS. (Consult factory for additional options)
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 Limit	0 to 200°F (-18 to 93°C).
Compensated Temperature Range	0 to 175°F (-18 to 79°C).
Thermal Effect	626: ±0.02% FS/°F; 628: ±0.04% FS/°F (includes zero and span).
Pressure Limits	See table on catalog page.
Display	Optional 4-1/2 digit LCD field attachable display. For -CB option.
Power Requirement	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 ratiometric output).
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	0-1000 Ω max. R max = 50 (Vps-10) Ω (4-20 mA output), 5 KΩ min (0-5, 1-5, 0.5-4.5 VDC output), 15 KΩ min (1-6, 0-10, 2-10 VDC output).
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 maxumum (for all 626/628/629-CH with optional LED).
Electrical Connections	Model dependent options: Wire end, Hirschman DIN EN 175801-803-C, Packard, Deutsch, M12.
Process Connections	Model dependent options: 1/8″, 1/4″, 1/2″ male NPT; 1/4″ female NPT; 1/4″ male or female BSPT; 1/8″ or 1/4″ male BSPP ISO 1179; 1/4″ female SAE valve depressor.
Enclosure Rating	NEMA 4X (IP66).
Mounting Orientation	Mount in any position.
Weight	10 oz (283 g).
Compliance	Standard: CE; Optional: NSF/ANSI 61/372, ANSI/UL 218, ANSI/UL 508, NEPA 20.

DIMENSIONS



Conduit housing



General purpose housing

HOW TO ORDER

Use the **bold** characters from the chart below to construct a product code.

626 **-05** **-GH** **-P3** **-E1** **-S1** **-NIST**

SERIES
626: 0.25% full scale accuracy
628: 1.0% full scale accuracy

RANGE
-00: 0 to 15 psia*
-01: 0 to 30 psia*
-02: 0 to 50 psia*
-03: 0 to 100 psia*
-04: 0 to 200 psia*
-05: 0 to 300 psia*
-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
-67: 0 to 0.5 bar*
-71: 0 to 2.5 bar*
-75: 0 to 10 bar*
-81: 0 to 40 bar*

*Only available on -GH housing models

HOUSING
-CB: Conduit box housing
-GH: General purpose housing

OPTIONS
-AT: Aluminum tag
-LED: Bright red LED display
-NIST: NIST traceable calibration certificate
-NW: NSF/ANSI 61/372 certified

SIGNAL OUTPUT
-S1: 4-20 mA
-S2: 1-5 VDC
-S4: 0-5 VDC
-S5: 0-10 VDC
-S7: 0.5-4.5 VDC
-S8: 0-5, 1-5, 0-10, 2-10 VDC

ELECTRICAL CONNECTIONS
-E1: Cable gland with 3´ of prewired cable
-E3: Cable gland with 9´ of prewired cable
-E4: DIN EN 175801-803-C
-E5: 1/2˝ female NPT conduit
-E6: M-12 4-pin connector UL listed
-E8: Packard connector
-E9: M-12 4-pin connector non-UL listed

PROCESS CONNECTIONS
-P1: 1/4˝ male NPT
-P2: 1/4˝ female NPT
-P3: 1/4˝ male BSPT
-P5: 1/4˝ female SAE with refrigerant valve depressor
-P9: 1/2˝ male NPT

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´ (1 m) Packard cable
A-961	9´ (3 m) Packard cable
A-962	20´ (7 m) Packard cable