SERIES 626 & 628 | INDUSTRIAL PRESSURE TRANSMITTER/TRANSDUCER

FEATURES/BENEFITS

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**

626/628 Pressure Transmitters with General Purpose Housing (-GH)

APPLICATIONS

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

626/628 Pressure Transmitters with Conduit Box Housing (-CB) and LCD display

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.

Contact Dwyer Instruments today to discuss your specific application needs.

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, 0.30% 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	±0.2% FS/°F (includes zero and span).
Pressure Limits	See table on catalog page.
Display	Optional 4-1/2 digit LCD field attachable display.
Power Requirement	10 to 30 VDC (for 4 to 20 mA, 0 to 5, 1 to 5, VDC outputs); 13 to 30 VDC (for 0 to 10 VDC output); 5 VDC ±0.5 VDC (for 0.5 to 4.5 VDC ratiometric output), 10 to 35 VDC (for 4 to 20 mA with -CB option); 13 to 35 VDC or isolated 16 to 33 VAC (for selectoable output with -CB option).
Output Signal	4 to 20 mA, 0 to 5 VDC, 1 to 5 VDC, 0 to 10 VDC, or 0.5 to 4.5 VDC, or selectable 0 to 5, 1 to 5, 0 to 10, 2 to 10 VDC for -CB option.
Response Time	300 ms.
Loop Resistance	0 to 1000 Ohms max. R max = 50 (Vps-10) Ohms (4 to 20 mA output), 0 to 1250 Ohms max. Rmax = 50(Vps-10) Ohms (4 to 20 mA output with -CB option), 5K Ohms (0 to 5, 1 to 5, 0 to 10, 0.5 to 4.5 VDC output).
Stability	1.0% FS/year (typ).
Current Consumption	38 mA maximum (for 4 to 20 mA output); 10 mA maximum (for 0 to 5, 1 to 5, 0 to 10, 0.5 to 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 Connections	1/4″ male or female NPT and BSPT.
Enclosure Rating	NEMA 4X (IP66).
Weight	10 oz (283 g).
Agency Approvals	Standard: CE; Optional: NSF/ANSI 61/372, ANSI/UL 218, ANSI/UL 508, NEPA 20

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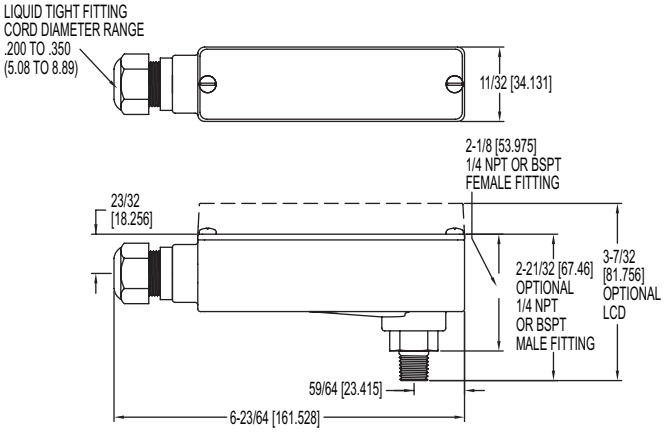
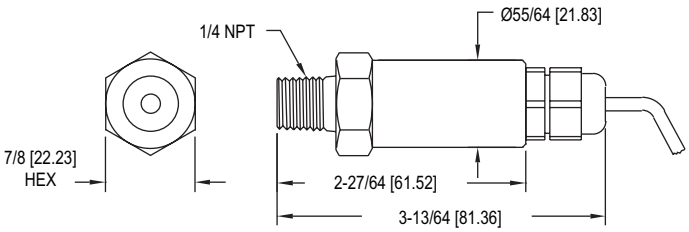
DIMENSIONS



Conduit Housing



General Purpose Housing

HOW TO ORDER

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

626 **-05** **-CH** **-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

OPTIONS

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

SIGNAL OUTPUT

-S1 - 4 to 20 mA
-S2 - 1 to 5 VDC
-S4 - 0 to 5 VDC
-S5 - 0 to 10 VDC
-S7 - 0.5 to 4.5 VDC
-S8 - 0 to 5, 1 to 5, 0 to 10, 2 to 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 w/ refrigerant valve depressor
-P9 - 1/2˝ male NPT

HOUSING

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

ACCESSORIES

Model	Description	Model	Description
A-164	16.4´ (5 m) cable with M-12 4-pin female connector	**A-961**	9´ (3 m) Packard cable
A-62X-LCD	Field-upgradeable LCD	**A-962**	20´ (7 m) Packard cable
A-960	3´ (1 m) Packard cable		

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