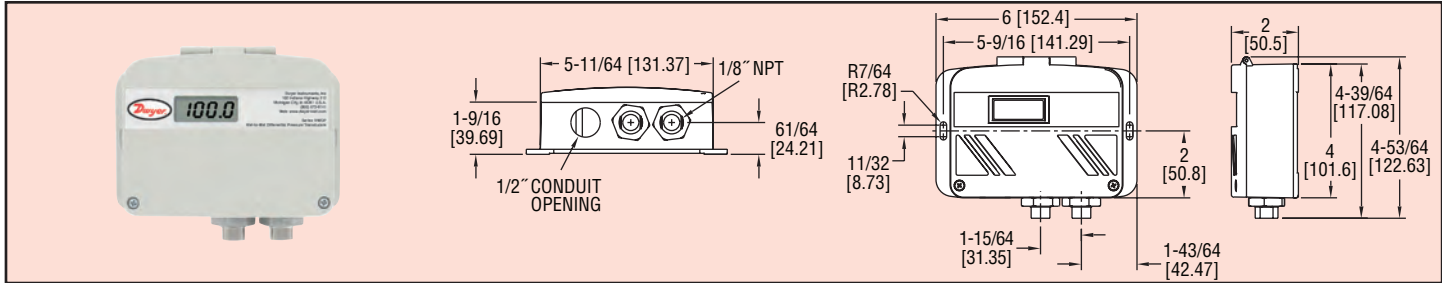




Series  
WWDP

# Differential Pressure Transmitter

Selectable Ranges of Uni-Directional or Bi-Directional, Selectable Outputs



The Series WWDP Wet-to-Wet Differential Pressure Transmitter offers everything in one package by having 30 field selectable variations in just 3 models. The WWDP provides field selectable unidirectional and bidirectional pressure ranges, configurable 0 to 5, 1 to 5, 0 to 10 VDC, and 4 to 20 mA output. It also provides an auto-zero capability. The field selectable port swap feature eliminates costly replumbing if the unit is improperly installed or if the transmitter is simply replaced. An optional LCD display is available for on-sight indication of line and differential pressure. The all cast aluminum housing is rated NEMA 4 (IP56). These features make the WWDP transmitter an ideal instrument for measuring the flow of various liquids and gases, pressure drop across filters, measurement of liquid level or pressurized vessels, and for use in energy management and process control systems.

Model	Description	Max. Working Pressure
WWDP-1	Selectable 5, 10, 25, 50 psid	50 psi
WWDP-2	Selectable 10, 20, 50, 100 psid	100 psi
WWDP-3	Selectable 25, 50, 125, 250 psid	250 psi

Model	Description	Max. Working Pressure
WWDP-1-LCD	Selectable 5, 10, 25, 50 psid	50 psi
WWDP-2-LCD	Selectable 10, 20, 50, 100 psid	100 psi
WWDP-3-LCD	Selectable 25, 50, 125, 250 psid	250 psi

## OPTION

For NIST traceable calibration certificate, use order code NISTCAL-PT1.

## SPECIFICATIONS

**Service:** Gases or liquids compatible with 17-4 PH stainless steel.

**Accuracy:** All pressure ranges have  $\pm 1\%$  full-scale accuracy except the lowest selectable range of each unit is  $\pm 2\%$  full-scale.

**Stability:**  $\pm 0.5\%$  per year.

**Temperature Limits:** Compensated temperature range: 32 to 130°F (0 to 54°C); Operating temperature range: -4 to 185°F (-20 to 85°C).

**Pressure Limits:** Max working pressure: WWDP-1: 50 psi; WWDP-2: 100 psi; WWDP-3: 250 psi; Proof pressure: 2.2X of full-scale; Burst pressure: 40X of full-scale.

**Thermal Effect:** 2% FS/100°F (50°C) includes zero and span.

**Power Requirements:** 12 to 30 VDC/18 to 28 VAC (reverse excitation protected). **Note:** 4-20 mA output cannot be powered with AC voltage.

**Output Signal:** Selectable 0 to 5, 0 to 10 and 1 to 5 VDC; 4 to 20 mA.

**Zero & Span:** Digital "re" zero button (should be used when changing ranges). Span can be adjusted by changing between field selectable ranges.

**Response Time:** 1 to 5 sec (selectable).

**Loop Resistance:** 1000  $\Omega$ .

**Current Consumption:** VDC power: 0 to 5, 1 to 5 VDC output 4 mA (typ); 0 to 10 VDC output 5 mA (typ); 4 to 20 mA output 20 mA max. Current consumption will equal the transmitter output in current mode. VAC power: 0 to 5, 1 to 5, 0 to 10 VDC output 40 mA (typ).

**Electrical Connections:** 1/2" conduit.

**Process Connections:** 1/8" female NPT internal.

**Enclosure Rating:** Designed to meet NEMA 4 (IP56).

**Mounting Orientation:** Vertical; mount the pressure ports down (keeps debris from building up inside the pressure port).

**Weight:** 1.5 lb (680.4 g).

**Agency Approvals:** CE.