PWTB Series
CONDUIT WET PRESSURE TRANSMITTERS

The PWTB series wet/wet differential pressure sensors provide reliable, accurate measurement for proper application control including:

- Monitor and control pump, chiller/boiler, and chilled water/hot water differential pressure.
- Process control systems.
- Monitor pressure differential across pumps, filters, heat exchangers, and other non-corrosive wet media applications.



FEATURES AND HIGHLIGHTS

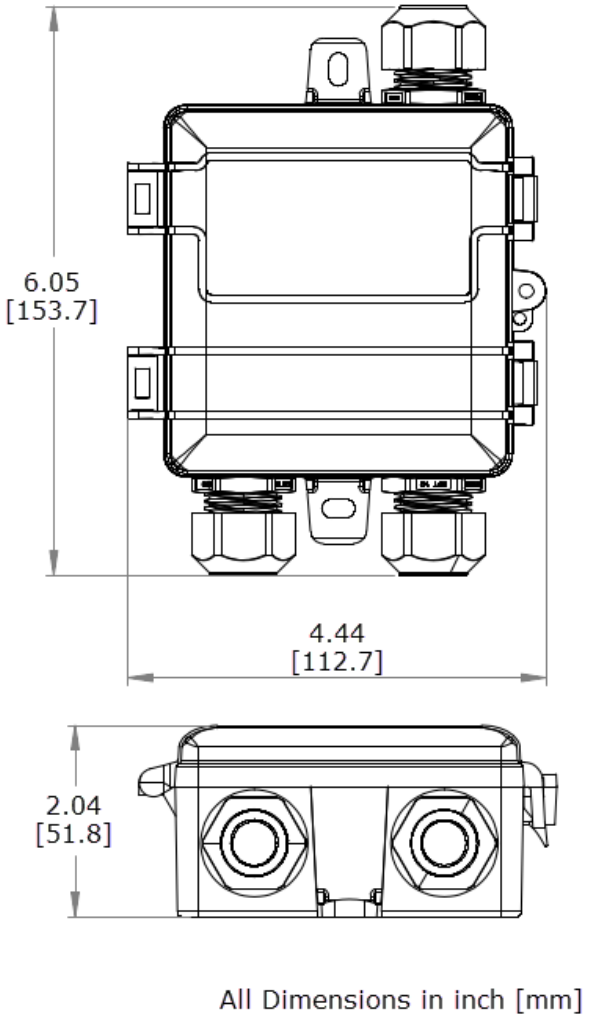
VERSATILE UNIVERSAL TRANSMITTER

- Up to five selectable ranges plus high resolution mode for lower pressures.
- NEMA 4X rated enclosure.
- Metric and English pressure units.
- Three selectable analog outputs 0-5/10 Vdc, 4-20 mA.
- Sensors protected from water hammer damage with built-in removable pressure snubbers.
- Both pre-wired and field-wired configurations:
  - Pressure sensor with DIN connector
  - Plenum or Armored cable

SIMPLE AND LOW-COST INSTALLATION

- No bypass required that reduces complexity and cost.
- Pre-wired plenum and armored cable versions saves time and cost and reduces wiring issues.

DIMENSIONS



All Dimensions in inch [mm]

PART NUMBERS

Model Number	Max Sensor Pressure	Cable Length (Feet)
PWTB50-X	50 PSIG 345 kPa	Installer provided*
PWTB50-PC-9		Plenum — 9 feet
PWTB50-AC-9		Armor — 9 feet
PWTB100-X	100 PSIG 689 kPa	Installer provided*
PWTB100-PC-9		Plenum — 9 feet
PWTB100-AC-9		Armor — 9 feet
PWTB250-X	250 PSIG 1724 kPa	Installer provided*
PWTB250-PC-9		Plenum — 9 feet
PWTB250-AC-9		Armor — 9 feet

Note: Shielded cable provided by installer either plenum rated or installed in conduit.

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SPECIFICATIONS

Power Supply	Voltage Output (0-5 V)	12-30 VDC/24 VAC(1), 20 mA max.
	Voltage Mode (0-10 V)	13-30 VDC/24 VAC required for 10 V FS output
	Current Mode (4-20 mA)	15-30 VDC(0 ohm)/16-30 VDC (250 Ohm) / 18-30 VDC (500 Ohm), 20 mA max
Outputs	Switch Selectable	2-wire 4-20 mA, 3-wire 0-5 V/10 V
Operating Temperature	Transmitter	-22 to 158 °F (-30 to 70 °C)
Media Compatibility	Type	Water, other 316 SS compatible media (316L diaphragm)
	Temperature	32 to 250 °F (0 to 125 °C)
Zero Adjustment	Automatic	Pushbutton, Remote zero Press the button for 5 seconds to re-zero Hold for 10 seconds to restore factory settings
Sensor Type	Micro-machined silicon strain gauge	
Sensor Performance	Accuracy	‹± 0.25% BFSL
	Stability (1 year)	± 0.2% FS, typ
	Over-range Protection	200 % rated pressure
	Pressure Cycles	› 100 million
	Compensated Range	14 to 158 °F (-10 to 70 °C)
	Temperature Compensation %FS/C	Zero, ‹±0.03 (‹100 kPa), ‹±0.02(›100 kPa) Span, ‹±0.03 (‹100 kPa), ‹±0.02(›100 kPa)
	Vibration	10G peak, 20 to 2000 Hz
PWTB Transmitter Accuracy(2) Range According to PSID Table in PWTB Transmitter DIP Switch Configuration Table	**SENSOR**	**1% ACCURATE RANGES**
	PWTB50	20/25/30/40/50 PSID 138/172/207/276/345 kPa
	PWTB100	40/50/75/100 PSID 276/345/517/689 kPa
	PWTB250	75/100/125/150/250 PSID 517/689/862/1034/1724 kPa
		2% ACCURATE RANGES
	PWTB50	10/15 PSID 69/103 kPa
	PWTB100	15/20/25/30 PSID 103/138/172/207 kPa
	PWTB250	30/40/50 PSID 207/276/345 kPa
Enclosure, PWTB	Construction	PC/ABS
	Rating	NEMA 4X
Enclosure, Sensor	Construction	Stainless Steel, 304, 1/4" MNPT, PG9 Conduit Fitting

[1] One side of transformer secondary is connected to signal common. A dedicated transformer is recommended.
[2] Because of lower accuracy, it is not factory recommended to use an output range less than 10% of the total sensor PSIG.

CE RoHS Compliant

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