

SUBMERSIBLE PRESSURE TRANSDUCER FOR LEVEL AND DEPTH MEASUREMENT 38 mm (1.5") DIA.

Supplied with
a desiccant.

mV/V Output
0-4 to 0-15 psi
0-9.2 to 0-34.6' of Water

PX78 Series



Standard

- ✓ All Stainless Steel Construction
- ✓ Hermetically Sealed Housing
- ✓ Screw-On Protective Cap Included
- ✓ 3 m (10') Vented Cable Standard
- ✓ Works with Optional In-Line Amplifiers

OMEGA's PX78 pressure transducer is fully submersible, designed for liquid level and depth measurement. Its all stainless steel hermetically sealed housing makes it suitable for immersion in most industrial liquids and oils. A standard 3 m (10') vented cable (longer lengths available) provides an atmospheric pressure reference. With a 5000 Ω bridge, the PX78 is designed to work with the DMD-16 and DMD-17 in-line amplifiers for long-distance transmission of the signal.

SPECIFICATIONS

Excitation: 10 Vac/Vdc (15V maximum)

Output: 3 mV/V nominal
2.5 mV/V \leq 5 psi

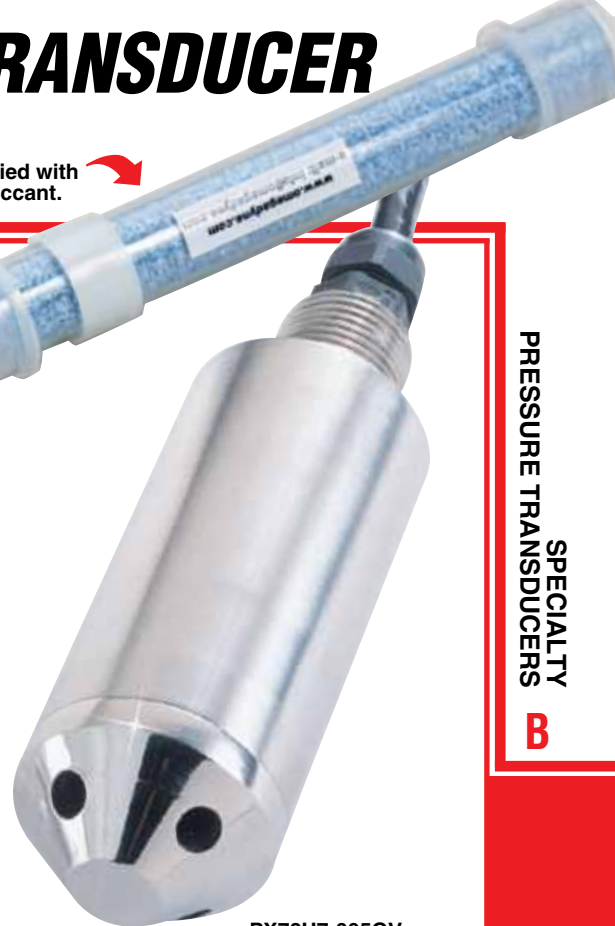
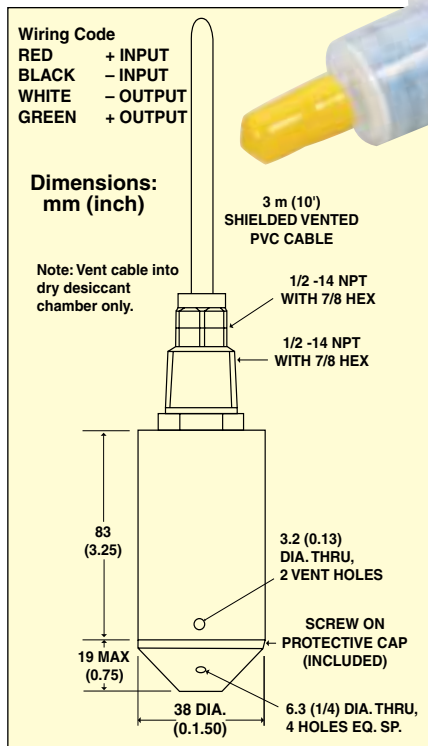
Zero Balance: $\pm 2\%$ FSO

Input Resistance: 5000 Ω minimum

Output resistance: 5000 $\pm 50 \Omega$

Accuracy: 0.5% FS includes linearity, hysteresis and repeatability combined

Operating Temp Range:
-29 to 93°C (-20 to 200°F)



PX78U7-005GV, shown actual size.

Compensated Temp Range:
16 to 71°C (60 to 160°F)

Span Error: 0.0054% rdg/°C

Zero Error: 0.009% FSO/°C

Proof Pressure:
150% of rated pressure

Burst Pressure:
300% of rated pressure

Wetted Parts:
316 stainless steel diaphragm and
17-4 PH stainless steel housing

Pressure Port: Nose protector included

Electrical Connection: 3 m (10')
shielded and vented PVC cable

Notice: OMEGA does not offer a warranty on this product, its use, or application. It is the end user's responsibility to assure proper installation and use of this transducer.

To Order

psig	bar	ftH ₂ O	MODEL NO.	COMPATIBLE METERS*
0 to 4	0 to 0.27	9.2	PX78U7-004GV	DP41-S, DP25B-S
0 to 5	0 to 0.34	11.5	PX78U7-005GV	DP41-S, DP25B-S
0 to 10	0 to 0.69	23.1	PX78U7-010GV	DP41-S, DP25B-S
0 to 15	0 to 1.0	34.6	PX78U7-015GV	DP41-S, DP25B-S

Comes complete with 5-point NIST traceable calibration, desiccant and operator's manual. Metric ranges available – consult Engineering.

* Visit us online for compatible meters.

To order with extra cable, add suffix “-(length in feet) FT” and add additional cost beyond standard 3 m (10') length.

Ordering Examples: PX78U0-015GV-100FT, 15 psi transducer with 30 m (100') cable.
PX78U0-005GV, 5 psi transducer with the standard 3 m (10') cable.

ACCESSORY

MODEL NO.	DESCRIPTION
A019385	Replacement desiccant

SPECIALTY
PRESSURE TRANSDUCERS
B