SILICON/BRASS PRESSURE TRANSDUCERS **WITH 5 Vdc OUTPUT**

PX181B Series

- Digitally Compensated for Excellent Total Accuracy and Interchangeability
- ✓ Gage Pressure. Vacuum, and Compound Ranges Available
- ✓ 1 to 5 Vdc 3-Wire Output
- Rugged, Compact Design
- ✓ RFI/EMI Protection
- ✓ Reverse Polarity **Protection**

OMEGA's PX181B Series transducers, designed for general industrial and commercial requirements, offer excellent performance in a wide range of applications. They are based on proven micro-machined silicon technology, providing high reliability, long-term stability, and low cost.

The PX181B is fully digitally compensated for the effects of pressure and temperature change. It is extremely accurate, with less than 0.3% FS reference accuracy and less than 1% FS over its compensated temperature range.

SPECIFICATIONS

Excitation: 9 to 30 Vdc Output: 1 to 5 Vdc (3 wire)

Load Resistance: $50,000 \Omega$ minimum

Accuracy: Includes linearity, hysteresis and repeatability Range: ≥15 psi, 0.3% BFSL max

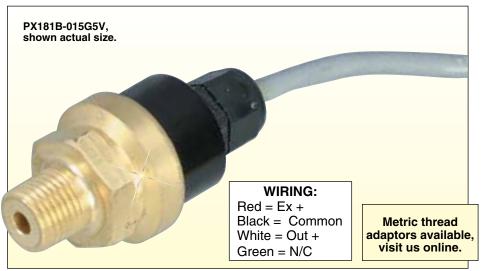
Range: 6 psi, 0.5% **Range:** 1 psi, 1%

Total Error Band: 1% FS

(includes temperature effects within compensated temperature range)

Operating Temperature: -40 to 80°C

(-40 to 176°F)



Compensated Temperature: -25 to 75°C (-13 to 167°F) **Process Temperature:**

-40 to 100°C (-40 to 212°F) 1-Year Stability: <0.25% FS **Proof Pressure: 2x FS** (750 psig for 500 psig range) Burst Pressure: 3x FS or 750 psig,

whichever is less

Wetted Parts: Brass, borosilicate,

silicon, RTV and epoxy

Vibration: 10 g, 55 to 2000 Hz

Shock: 30 a

Process Connection: 1/2 NPT male Electrical Connection: 0.4 m (18")

24-gage cable

Dimensions: 1% hex; 72 H x 29.7 mm D

(2.84 x 1.17") Weight: 142 g (5 oz.)

To Order			
GAGE PRESSURE RANGES			
psi	bar	MODEL NO.	COMPATIBLE METERS*
0 to -14.7	0 to -1.0	PX181B-015VAC5V	DP24-E, DP25B-E, DP41-E, DPi Series
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0 to 1	0 to 0.0689	PX181B-001G5V	DP24-E, DP25B-E, DP41-E, DPi Series
0 to 6	0 to 0.414	PX181B-006G5V	DP24-E, DP25B-E, DP41-E, DPi Series
0 to 15	0 to 1.0	PX181B-015G5V	DP24-E, DP25B-E, DP41-E, DPi Series
0 to 30	0 to 2.1	PX181B-030G5V	DP24-E, DP25B-E, DP41-E, DPi Series
0 to 60	0 to 4.1	PX181B-060G5V	DP24-E, DP25B-E, DP41-E, DPi Series
0 to 100	0 to 6.9	PX181B-100G5V	DP24-E, DP25B-E, DP41-E, DPi Series
0 to 200	0 to 13.8	PX181B-200G5V	DP24-E, DP25B-E, DP41-E, DPi Series
0 to 300	0 to 20.7	PX181B-300G5V	DP24-E, DP25B-E, DP41-E, DPi Series
0 to 500	0 to 34.5	PX181B-500G5V	DP24-E, DP25B-E, DP41-E, DPi Series
-14.7 to 15	-1.0 to 1.0	PX181B-015C5V	DP24-E, DP25B-E, DP41-E, DPi Series
-14.7 to 30	-1.0 to 2.1	PX181B-030C5V	DP24-E, DP25B-E, DP41-E, DPi Series
-14.7 to 60	-1.0 to 4.1	PX181B-060C5V	DP24-E, DP25B-E, DP41-E, DPi Series

ACCESSORIES

MODEL NO.	DESCRIPTION	
PS-8E	Pressure snubber for water or light oils	
PS-8D	Pressure snubber for dense liquids or oils	
PS-8G	Pressure snubber for gases and steam	

* Visit us online for compatible meters.

Comes complete with operator's manual.

Ordering Example: PX181B-100G5V, 0 to 100 psig transducer with 1 to 5 Vdc output.