

# SILICON/BRASS PRESSURE TRANSDUCERS WITH MILLIVOLT OUTPUT

0 to -14.7 to 0-500 psi  
0 to -1.0 to 0-34.5 bar

## PX180B Series

- ✓ Excellent Total Accuracy and Interchangeability
- ✓ Gage Pressure, Vacuum, and Compound Ranges Available
- ✓ Rugged, Compact Design
- ✓ RFI/EMI Protection
- ✓ Reverse Polarity Protection

OMEGA's PX180B 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. They are extremely accurate, with less than 0.3% reference accuracy.

### SPECIFICATIONS

**Excitation:** 10 Vdc (regulated)

**Output:** 0 to 50 mV for 0 to 1 psi model, 0 to 100 mVdc for all other ranges

**Load Resistance:** 50,000  $\Omega$  minimum

**Accuracy:** 0.3% BFSL maximum (includes linearity, hysteresis and repeatability)

**Operating Temperature:** -40 to 80°C (-40 to 176°F)

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

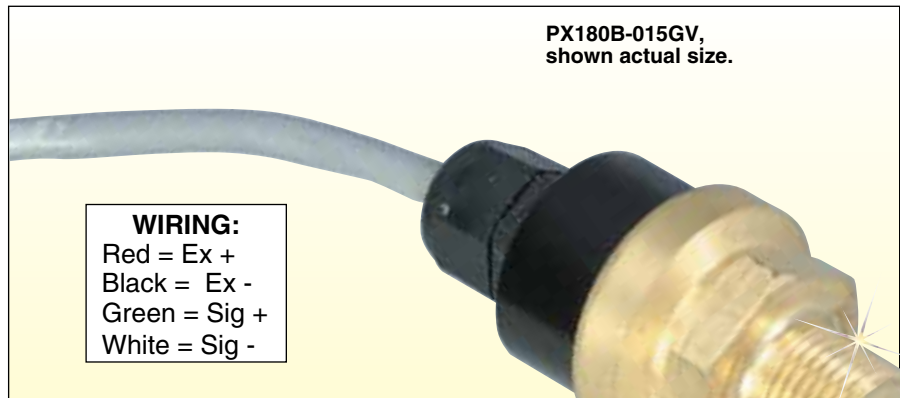
**Process Temperature:** -40 to 100°C (-40 to 212°F)

**Thermal Zero Effect:** 2% FS maximum over compensated temperature range

**Thermal Span Effect:** 2% FS maximum over compensated temperature range

**1-Year Stability:** <0.25% FS

**Proof Pressure:** 2x FS (750 psig for 500 psig range)



PX180B-015GV,  
shown actual size.

**WIRING:**  
Red = Ex +  
Black = Ex -  
Green = Sig +  
White = Sig -

**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 g

**Process Connection:** 1/8 NPT male

**Electrical Connection:** 0.4 m (18") 24-gage shielded cable

**Weight:** 142 g (5 oz)

**Dimensions:** 1 1/8 hex; 72 H x 29.7 mm Dia. (2.84 x 1.17")

Metric thread  
adaptors available  
online

### To Order

#### GAGE PRESSURE RANGES

psi	bar	MODEL NO.	COMPATIBLE METERS*
0 to -14.7	0 to -1.0	PX180B-015VACV	DP25B-S, DP41-S, DPiS Series
0 to 1	0 to 68.9 mbar	PX180B-001GV	DP25B-S, DP41-S, DPiS Series
0 to 6	0 to 414 mbar	PX180B-006GV	DP25B-S, DP41-S, DPiS Series
0 to 15	0 to 1.0	PX180B-015GV	DP25B-S, DP41-S, DPiS Series
0 to 30	0 to 2.1	PX180B-030GV	DP25B-S, DP41-S, DPiS Series
0 to 60	0 to 4.1	PX180B-060GV	DP25B-S, DP41-S, DPiS Series
0 to 100	0 to 6.9	PX180B-100GV	DP25B-S, DP41-S, DPiS Series
0 to 200	0 to 13.8	PX180B-200GV	DP25B-S, DP41-S, DPiS Series
0 to 300	0 to 20.7	PX180B-300GV	DP25B-S, DP41-S, DPiS Series
0 to 500	0 to 34.5	PX180B-500GV	DP25B-S, DP41-S, DPiS Series

#### COMPOUND PRESSURE RANGES

-14.7 to 15	-1.0 to 1.0	PX180B-015CV	DP25B-S, DP41-S, DPiS Series
-14.7 to 30	-1.0 to 2.1	PX180B-030CV	DP25B-S, DP41-S, DPiS Series
-14.7 to 60	-1.0 to 4.1	PX180B-060CV	DP25B-S, DP41-S, DPiS 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

Comes complete with operator's manual.

\* Visit us online for compatible meters.

**Ordering Example:** PX180B-100GV, 0 to 100 psig transducer with 0 to 100 millivolt output.