

SILICON/BRASS PRESSURE TRANSMITTER WITH 4 TO 20 mA OUTPUT

PX182B Series

- ✓ Digitally Compensated for Excellent Total Accuracy and Interchangeability
- ✓ Gage Pressure, Vacuum, and Compound Ranges Available
- ✓ Rugged, Compact Design
- ✓ 2-Wire 4 to 20 mA Current Loop Output
- ✓ RFI/EMI Protection
- ✓ Reverse Polarity Protection

OMEGA's PX182B 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 PX182B 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: 11 to 30 Vdc

Output: 4 to 20 mA (2 wire)

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

Total Error Band: 1% FS (includes temperature effects within compensated temperature range)

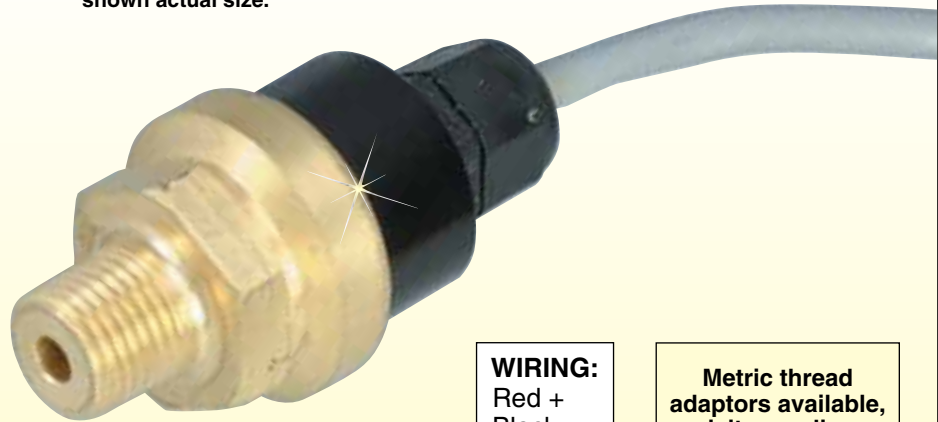
Operating Temperature: -40 to 80°C (-40 to 176°F)

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

PX182B-100GI, shown actual size.



WIRING:
Red +
Black -

Metric thread
adaptors available,
visit us online.

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 g
Process Connection: 1/8 NPT male
Electrical Connection: 0.4 m (18")
24-gauge cable
Weight: 142 g (5 oz)
Dimensions: 1 1/8 hex; 72 H x 29.7 mm
Dia. (2.84 x 1.17")

To Order

GAGE PRESSURE RANGES

psi	bar	MODEL NO.	COMPATIBLE METERS*
0 to -14.7	0 to -1.0	PX182B-015VACI	DP24-E, DP25B-E, DP41-E, DPi Series
0 to 1	0 to 0.0689	PX182B-001GI	DP24-E, DP25B-E, DP41-E, DPi Series
0 to 6	0 to 0.414	PX182B-006GI	DP24-E, DP25B-E, DP41-E, DPi Series
0 to 15	0 to 1.0	PX182B-015GI	DP24-E, DP25B-E, DP41-E, DPi Series
0 to 30	0 to 2.1	PX182B-030GI	DP24-E, DP25B-E, DP41-E, DPi Series
0 to 60	0 to 4.1	PX182B-060GI	DP24-E, DP25B-E, DP41-E, DPi Series
0 to 100	0 to 6.9	PX182B-100GI	DP24-E, DP25B-E, DP41-E, DPi Series
0 to 150	0 to 10.3	PX182B-150GI	DP24-E, DP25B-E, DP41-E, DPi Series
0 to 200	0 to 13.8	PX182B-200GI	DP24-E, DP25B-E, DP41-E, DPi Series
0 to 300	0 to 20.7	PX182B-300GI	DP24-E, DP25B-E, DP41-E, DPi Series
0 to 500	0 to 34.5	PX182B-500GI	DP24-E, DP25B-E, DP41-E, DPi Series
-14.7 to 15	-1.0 to 1.0	PX182B-015CI	DP24-E, DP25B-E, DP41-E, DPi Series
-14.7 to 30	-1.0 to 2.1	PX182B-030CI	DP24-E, DP25B-E, DP41-E, DPi Series
-14.7 to 60	-1.0 to 4.1	PX182B-060CI	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

Comes complete with operator's manual.

* Visit us online for compatible meters.

Ordering Example: PX182B-100GI, 0 to 100 psig transducer with 4 to 20 mA output



CURRENT OUTPUT
PRESSURE TRANSDUCERS

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