

COMPACT PRESSURE TRANSDUCERS

ALL STAINLESS STEEL WETTED PARTS

1 to 5 Vdc Output
Vacuum to 3000 psi
-1 to 207 bar

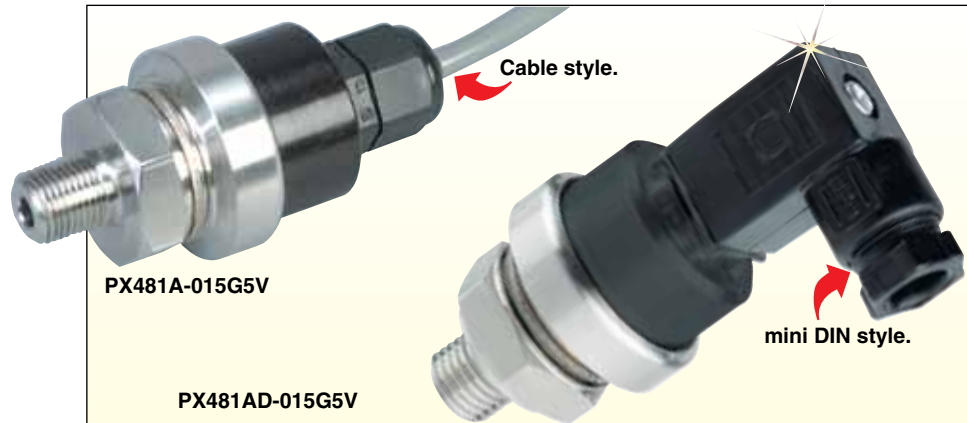
PX481A Series



- ✓ Digitally Compensated for Excellent Total Accuracy and Interchangeability
- ✓ Gage, Absolute, Vacuum, and Compound Ranges Available
- ✓ Rugged, Compact Design
- ✓ RFI/EMI Protection
- ✓ 316L Stainless Steel Wetted Parts
- ✓ 1 to 5V Output
- ✓ Cable and Connector Styles

OMEGA's PX481A Series transducers are designed for general industrial and commercial requirements and 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 PX481A 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. Wetted parts are made of 316L stainless steel for a wide range of media compatibility.



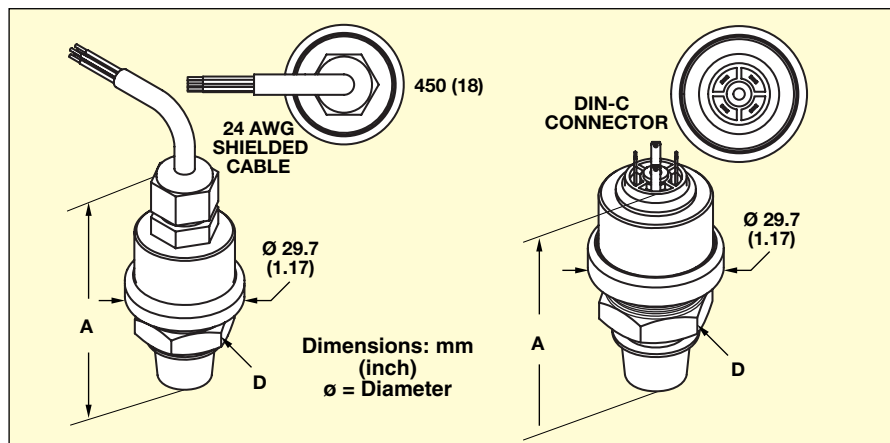
PX481A-015G5V

PX481AD-015G5V

Metric thread adaptors available, see omega.com

Both shown actual size.

WIRING:		
Color	Pin	
Red	1	Ex +
Black	2	Common
White	3	Out +
Green	4	N/C



DIMENSIONS	UP TO 500 PSIG	ABOVE 500 PSIG ALL ABSOLUTE RANGE
A, Cable Style	66.3 (2.61)	72.1 (2.84)
A, Connector Style	47.5 (1.87)	53.2 (2.10)
D	7/8 HEX	1 1/8 HEX

SPECIFICATIONS

Excitation: 9 to 30 Vdc

Output: 1 to 5 Vdc (3 wire)

Load Resistance: 50,000 Ω 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)

1-Year Stability: <0.25% FS

Proof Pressure: 2x FS

Burst Pressure: 3x FS

Wetted Parts: 316L stainless steel

Vibration: 10 g, 55 to 2000 Hz

Shock: 30 g

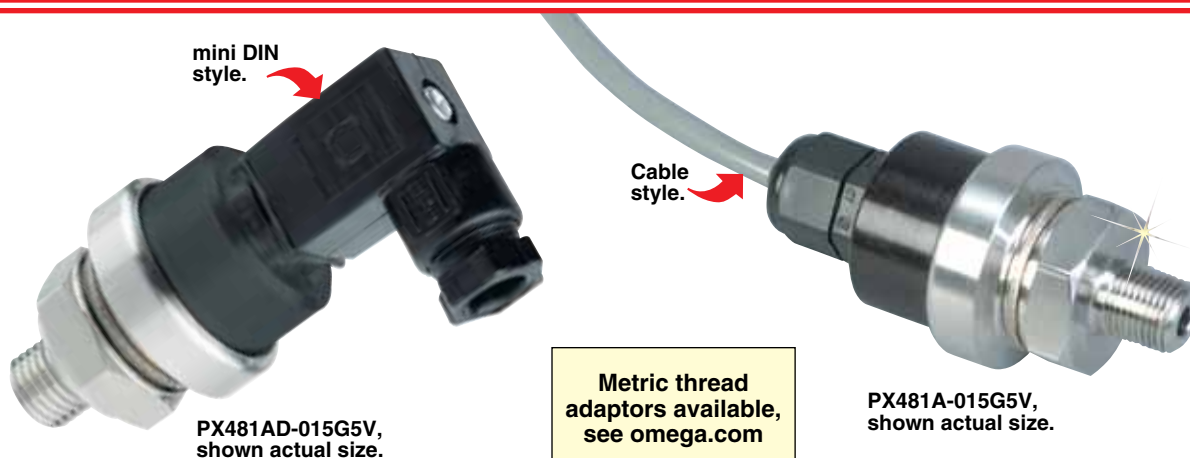
Process Connection: 1/8 NPT male

Electrical Connection: 0.9 m (36") 24-gage cable or DIN 43650-A connector

Weight: 142 g (5 oz)



COMPACT PRESSURE TRANSDUCERS



To Order

GAGE PRESSURE RANGES

psi	bar	CABLE STYLE	CONNECTOR STYLE	COMPATIBLE METERS*
0 to 1	0 to 0.0689	PX481A-001G5V	PX481AD-001G5V	DP24-E, DP25B-E, DP41-E, DPi Series
0 to 6	0 to 0.414	PX481A-006G5V	PX481AD-006G5V	DP24-E, DP25B-E, DP41-E, DPi Series
0 to 15	0 to 1.0	PX481A-015G5V	PX481AD-015G5V	DP24-E, DP25B-E, DP41-E, DPi Series
0 to 30	0 to 2.1	PX481A-030G5V	PX481AD-030G5V	DP24-E, DP25B-E, DP41-E, DPi Series
0 to 60	0 to 4.1	PX481A-060G5V	PX481AD-060G5V	DP24-E, DP25B-E, DP41-E, DPi Series
0 to 100	0 to 6.9	PX481A-100G5V	PX481AD-100G5V	DP24-E, DP25B-E, DP41-E, DPi Series
0 to 200	0 to 13.8	PX481A-200G5V	PX481AD-200G5V	DP24-E, DP25B-E, DP41-E, DPi Series
0 to 300	0 to 20.7	PX481A-300G5V	PX481AD-300G5V	DP24-E, DP25B-E, DP41-E, DPi Series
0 to 500	0 to 34.5	PX481A-500G5V	PX481AD-500G5V	DP24-E, DP25B-E, DP41-E, DPi Series
0 to 1000	0 to 69.0	PX481A-1KS5V	PX481AD-1KS5V	DP24-E, DP25B-E, DP41-E, DPi Series
0 to 2000	0 to 138	PX481A-2KS5V	PX481AD-2KS5V	DP24-E, DP25B-E, DP41-E, DPi Series
0 to 3000	0 to 207	PX481A-3KS5V	PX481AD-3KS5V	DP24-E, DP25B-E, DP41-E, DPi Series

VACUUM AND COMPOUND RANGES

0 to -15	0 to -1.0	PX481A-015VAC5V	PX481AD-015VAC5V	DP24-E, DP25B-E, DP41-E, DPi Series
-14.7 to 15	-1.0 to 1.0	PX481A-015C5V	PX481AD-015C5V	DP24-E, DP25B-E, DP41-E, DPi Series
-14.7 to 30	-1.0 to 2.1	PX481A-030C5V	PX481AD-030C5V	DP24-E, DP25B-E, DP41-E, DPi Series
-14.7 to 60	-1.0 to 4.1	PX481A-060C5V	PX481AD-060C5V	DP24-E, DP25B-E, DP41-E, DPi Series
-14.7 to 100	-1.0 to 6.9	PX481A-100C5V	PX481AD-100C5V	DP24-E, DP25B-E, DP41-E, DPi Series

ABSOLUTE PRESSURE RANGES

0 to 15	0 to 1.0	PX481A-015A5V	PX481AD-015A5V	DP24-E, DP25B-E, DP41-E, DPi Series
0 to 30	0 to 2.1	PX481A-030A5V	PX481AD-030A5V	DP24-E, DP25B-E, DP41-E, DPi Series
0 to 60	0 to 4.1	PX481A-060A5V	PX481AD-060A5V	DP24-E, DP25B-E, DP41-E, DPi Series
0 to 100	0 to 6.9	PX481A-100A5V	PX481AD-100A5V	DP24-E, DP25B-E, DP41-E, DPi Series

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 omega.com/meters-compatible-meters.

Comes complete with operator's manual.

Ordering Example: PX481A-100G5V, 0 to 100 psig cable style transducer with 1 to 5 Vdc output.