

# THIN-FILM TRANSDUCERS FOR GAGE, VACUUM, OR COMPOUND RANGES RUGGED STAINLESS STEEL CONSTRUCTION

Vacuum to 20,000 psi  
(1380 bar)

## PX603/PX613 Series



- ✓ Excellent Long-Term Stability
- ✓ NEMA 4 (IP65) Cable or Connector Models
- ✓ 0.4% Accuracy
- ✓ Thin-Film Design for High Reliability
- ✓ Ideal for Liquid or Gas
- ✓ Zero and Span Adjustments

### SPECIFICATIONS

**Excitation:** 10 to 36 Vdc unregulated

**Output:** 1 to 5 Vdc (3 wire)

**Supply Current:** <3.0 mA

**Insulation Resistance:**  
100 MΩ @ 50V

**Accuracy:** ±0.4% BFSL

**Hysteresis:** ±0.2% full scale

**Repeatability:** ±0.05% full scale

**Stability:** ±1.0%/year

**Durability:** 100 million cycles

**Operating Temperature:**  
-48 to 90°C (-55 to 195°F)

**Compensated Temperature:**  
-29 to 82°C (-20 to 180°F)

**Thermal Zero Effect:** ±0.07%  
full scale/°C

**Thermal Span Effect:** ±0.07%  
full scale/°C

**Proof Pressure:**

15 to 2000 psi = 200% full scale

3000 to 5000 psi = 150% full scale

7500 to 20,000 psi = 120% full scale

DP41-E meter,  
sold separately,  
see omega.com

PT06F8-4S connector,  
sold separately.

PX613-100G5V  
twist-lock style,  
shown smaller  
than actual size.

PX603-3KG5V  
cable style,  
shown smaller  
than actual size.

Metric thread  
adaptors available,  
see omega.com

PS-4 snubber, sold  
separately.

**Burst Pressure:**

15 to 2000 psi = 800% full scale

3000 to 5000 psi = 500% full scale

7500 to 20,000 psi = 500% full scale

**Gages:** Thin-film polysilicone

**Diaphragm:** 17-4 PH stainless steel

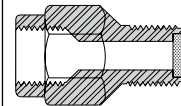
**Case:** 300 Series stainless steel

**Pressure Connection:**

15 to 10,000 psi = ¼ NPT

15,000 and 20,000 psi = female

Aminco fitting



¼ NPT Pressure

**Snubbers:**

PS-4G = Gas

PS-4E = Lt Oil

PS-4D = Dense Lq

**Electrical Connection:** 0.9 m (36")

braided-shield PVC cable or connector

**Mating Connector:** PT06F8-4S  
(sold separately)

**Weight:** 128 g (4.5 oz) without cable

**Response Time:** 5 ms

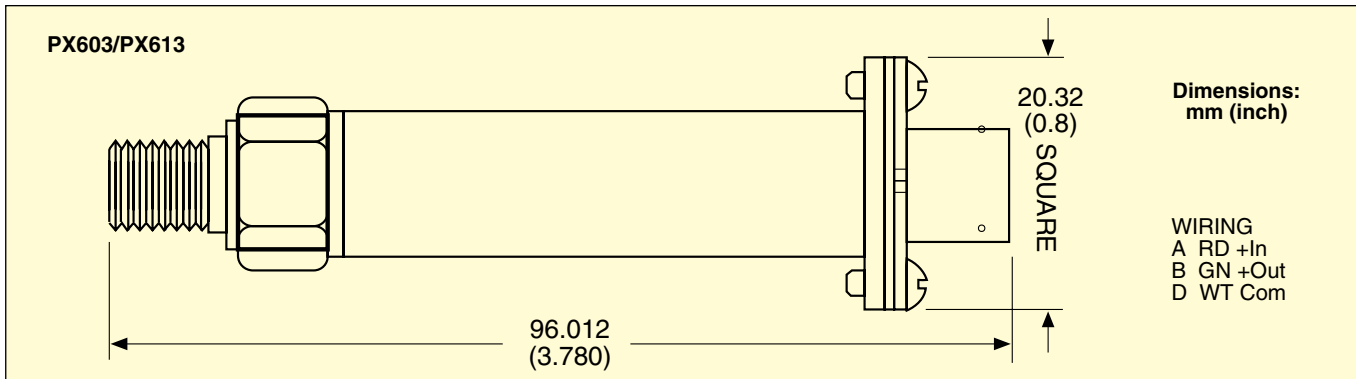
**Construction:** Sealed units, except  
PX603 ≤500 psi is vented to room



VOLTAGE OUTPUT  
PRESSURE TRANSDUCERS

B

# THIN-FILM TRANSDUCERS



## To Order

RANGE <sup>†</sup>	bar	MODEL NO. [*] INSERT 0 or 1	COMPATIBLE METERS**
Vacuum to 0 psig	-1 to 0	PX6[*]3-30VAC5V	DP3002-E, DP41-E, DP25B-E
Vacuum to 15 psig	-1 to 1.0	PX6[*]3-30V15G5V	DP3002-E, DP41-E, DP25B-E
Vacuum to 30 psig	-1 to 2.1	PX6[*]3-30V30G5V	DP3002-E, DP41-E, DP25B-E
Vacuum to 60 psig	-1 to 4.1	PX6[*]3-30V60G5V	DP3002-E, DP41-E, DP25B-E
0 to 15 psig	0 to 1.0	PX6[*]3-015G5V	DP3002-E, DP41-E, DP25B-E
0 to 30 psig	0 to 2.1	PX6[*]3-030G5V	DP3002-E, DP41-E, DP25B-E
0 to 60 psig	0 to 4.1	PX6[*]3-060G5V	DP3002-E, DP41-E, DP25B-E
0 to 100 psig	0 to 6.9	PX6[*]3-100G5V	DP3002-E, DP41-E, DP25B-E
0 to 150 psig	0 to 10.3	PX6[*]3-150G5V	DP3002-E, DP41-E, DP25B-E
0 to 200 psig	0 to 13.8	PX6[*]3-200G5V	DP3002-E, DP41-E, DP25B-E
0 to 300 psig	0 to 20.7	PX6[*]3-300G5V	DP3002-E, DP41-E, DP25B-E
0 to 500 psig	0 to 34.5	PX6[*]3-500G5V	DP3002-E, DP41-E, DP25B-E
0 to 1000 psig	0 to 68.9	PX6[*]3-1KG5V	DP3002-E, DP41-E, DP25B-E
0 to 2000 psig	0 to 138	PX6[*]3-2KG5V	DP3002-E, DP41-E, DP25B-E
0 to 3000 psig	0 to 207	PX6[*]3-3KG5V	DP3002-E, DP41-E, DP25B-E
0 to 5000 psig	0 to 345	PX6[*]3-5KG5V	DP3002-E, DP41-E, DP25B-E
0 to 7500 psig	0 to 517	PX6[*]3-7.5KG5V	DP3002-E, DP41-E, DP25B-E
0 to 10,000 psig	0 to 689	PX6[*]3-10KG5V	DP3002-E, DP41-E, DP25B-E
0 to 15,000 psig	0 to 1034	PX6[*]3-15KG5V <sup>†</sup>	DP3002-E, DP41-E, DP25B-E
0 to 20,000 psig	0 to 1379	PX6[*]3-20KG5V <sup>†</sup>	DP3002-E, DP41-E, DP25B-E

Comes complete with operator's manual.

\*\* See [omega.com/meters](http://omega.com/meters) for compatible meters.

<sup>†</sup>15,000 and 20,000 psi models supplied with female Aminco fitting.

[\*] Insert "0" for cable style, "1" for connector style.

**Ordering Examples:** PX603-500G5V, cable-style transducer with 1 to 5 Vdc output and range of 0 to 500 psi.

PX613-500G5V, connector-style transducer with 1 to 5 Vdc output and range of 0 to 500 psi.

PT06F8-4S, mating connector (sold separately).

## ACCESSORIES

MODEL NO.	DESCRIPTION
PT06F8-4S	Mating connector for PX613 Series transducers
PS-4D	Pressure snubber, for oil, 225 to 500 SSU (10 to 50 SAE)
PS-4E	Pressure snubber, for water and light oil, 30 to 225 SSU
PS-4G	Pressure snubber, for air, stream and gases

