

# SOLID STATE SENSORS FOR LOW-PRESSURE APPLICATIONS TEMPERATURE-COMPENSATED

**PX170 Series**  
0-7 to 0-28 inH<sub>2</sub>O  
0-1.7 to 0-7.0 kPa

All Ranges  
**\$95**

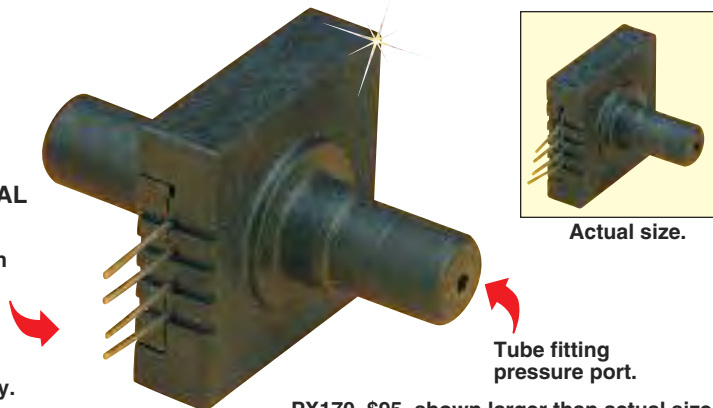
- ✓ Solid State Reliability
- ✓ Linear Output Proportional to Pressure
- ✓ Low Null Shift
- ✓ Integral Silicon Diaphragm
- ✓ PC Board Mount or Connector
- ✓ Ideally Suited for Clean, Dry, Non-Corrosive Gases

## SPECIFICATIONS

**Excitation:** 10 Vdc (16 Vdc max) @ 2 mA  
**Output:** 7 inH<sub>2</sub>O, 28 ±2 mV; 14 inH<sub>2</sub>O, 35 ±2 mV; 28 inH<sub>2</sub>O, 42 ±2 mV  
**Input Impedance:** 6.6 kΩ  
**Linearity:** P2 > P1 ±1.5% FS (full scale output)  
**Hysteresis and Repeatability:** ±0.25% FS  
**Zero Balance:** ±2 mV  
**Operable Temperature Range:** -40 to 85°C (-40 to 185°F)  
**Compensated Temperature Range:** 0 to 50°C (32 to 122°F)  
**Thermal Zero Effect:** ±3 mV  
**Thermal Span Effect:** ±3.5% FS  
**Operable Overpressure:** 140 inH<sub>2</sub>O (5 psi)  
**Stability Over 1 Year:** ±1.5% FS  
**Response Time:** 1 ms  
**Gage Type:** Solid state piezoresistor  
**Diaphragm Material:** Silicon  
**Media Compatibility:**  
**P1:** Dry gases only  
**P2 (Gage):** Limited to media that will not attack polyester, silicon, borosilicate glass or epoxy adhesive.  
**Pressure Port:** 7.1 mm (0.28") Dia.  
**Tube Fitting Electrical Connection:** Standard 2.5 mm (0.1") spacing for PC board termination  
**Mating Connectors:** CX136-4, sold separately  
**Weight:** 7 g (0.25 oz)

DIFFERENTIAL

Pin connection for PC board mounting or push-on connector, CX136-4, \$3, sold separately.

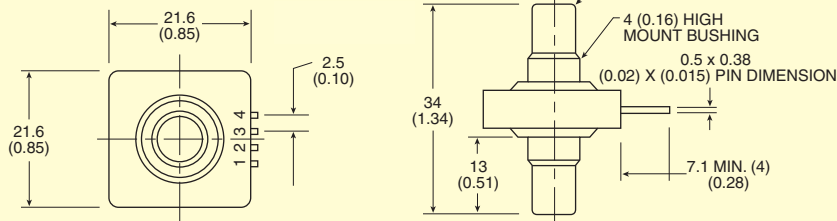


PX170, \$95, shown larger than actual size.

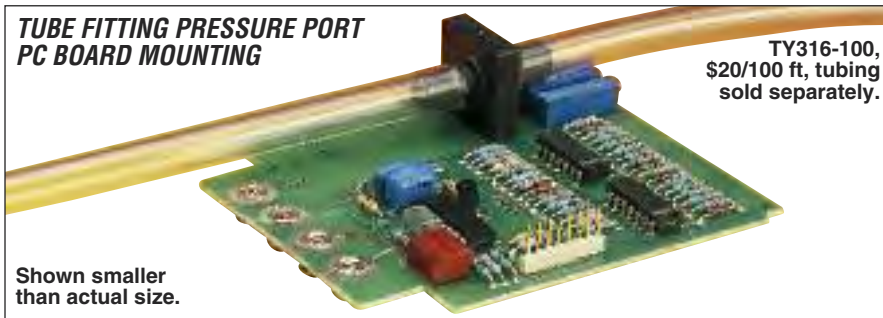
## TERMINALS

- 1 - Excitation (+)
- 2 - Output A (+)
- 3 - Excitation (-)
- 4 - Output B (-)

Dimensions: mm (in)



## TUBE FITTING PRESSURE PORT PC BOARD MOUNTING



Shown smaller than actual size.

TY316-100,  
\$20/100 ft, tubing  
sold separately.

Recommended Reference Book:  
Instrumentation and Control Systems,  
FW-317, \$50  
See Section Y  
For Additional Books



**ALL MODELS AVAILABLE  
FOR FAST DELIVERY!**

## To Order (Specify Model Number)

RANGE		TYPE	MODEL NO.	PRICE	COMPATIBLE METERS*
inH <sub>2</sub> O	kPa				
0 to 7	0 to 1.7	Diff	PX170-07DV	\$95	DP41-S, DP2000-S3, DP25B-S
0 to 14	0 to 3.5	Diff	PX170-14DV	95	DP41-S, DP2000S4, DP25B-S
0 to 28	0 to 7.0	Diff	PX170-28DV	95	DP41-S, DP2000S1, DP25B-S

Comes complete with operator's manual.

\* See section D for compatible meters.

Ordering Example: PX170-28DV, differential input transducer with a range of 0 to 28 inH<sub>2</sub>O, \$95.



MILLIVOLT OUTPUT  
PRESSURE TRANSDUCERS

**B**



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