

SOLID STATE SENSORS FOR LOW-PRESSURE APPLICATIONS TEMPERATURE-COMPENSATED

0-7 to 0-28 inH₂O
0-1.7 to 0-7.0 kPa

PX170 Series

- ✓ 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 inH₂O, 28 ±2 mV; 14 inH₂O,
35 ±2 mV; 28 inH₂O, 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 inH₂O (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.

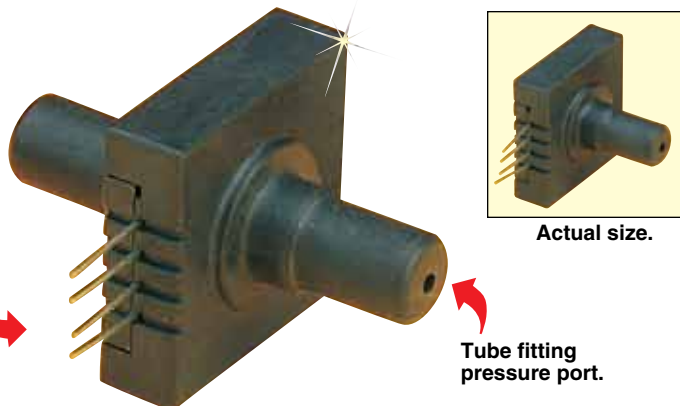
Tube Fitting Electrical Connection:
Standard 2.5 mm (0.1") spacing for PC board termination

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, sold separately.

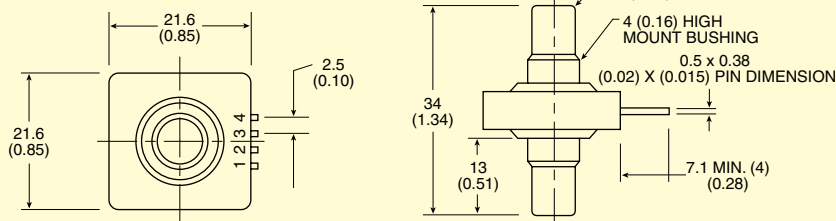


PX170, shown larger than actual size.

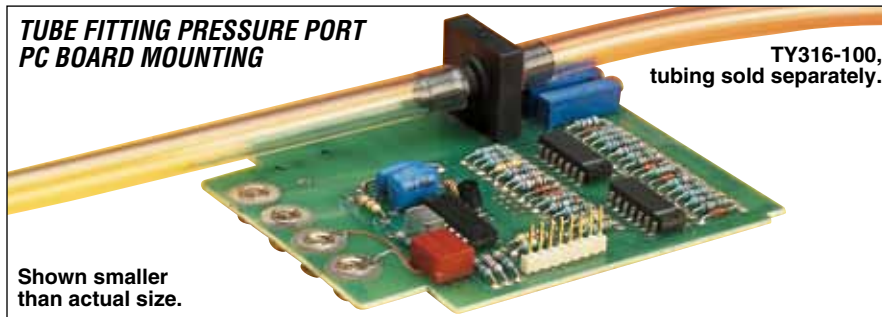
TERMINALS

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

Dimensions: mm (inch)



TUBE FITTING PRESSURE PORT PC BOARD MOUNTING



Shown smaller than actual size.

To Order

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

Comes complete with operator's manual.

* Visit us online for compatible meters.

Ordering Example: PX170-28DV, differential input transducer with a range of 0 to 28 inH₂O.



MILLIVOLT OUTPUT
PRESSURE TRANSDUCERS

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