SOLID STATE SENSORS FOR LOW-PRESSURE APPLICATIONS TEMPERATURE-COMPENSATED

PX170 Series 0-7 to 0-28 inH₂0 0-1.7 to 0-7.0 kPa





- 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 inH $_2$ O, 42 ± 2 mV Input Impedance: 6.6 k Ω Linearity: P2 > P1 $\pm 1.5\%$ 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.

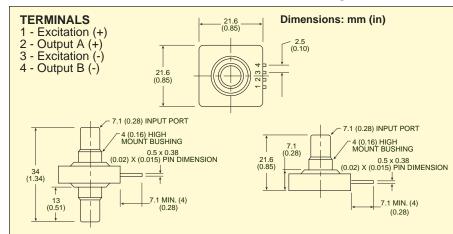
Pressure Port: 7.1 mm (0.28") Dia. Tube Fitting Electrical Connection: Standard 2.5 mm (0.1") spacing for PC board termination

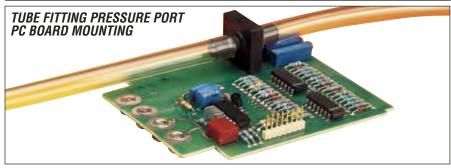
FC board termination

Mating Connectors: CX136-4,

see page C-10 Weight: 7 g (0.25 oz)







ALL MODELS AVAILABLE FOR FAST DELIVERY!

To Order <i>(Specify Model Number)</i>								
RANGE inH ₂ O kPa		TYPE	MODEL NO.	PRICE	COMPATIBLE METERS*			
0 to 7	0 to 1.7	Diff	PX170-07DV	\$85	DP41-S, DP2000-S3, DP25B-S			
0 to 14	0 to 3.5	Diff	PX170-14DV	85	DP41-S, DP2000S4, DP25B-S			
0 to 28	0 to 7.0	Diff	PX170-28DV	85	DP41-S, DP2000S1, DP25B-S			

Comes with operator's manual.

Ordering Example: PX170-28DV, differential input transducer with a range of 0 to $28 \text{ inH}_2\text{O}$, **\$85.**

ACCESSORY

MODEL NO.	PRICE	DESCRIPTION	
EE-2560	\$125	Reference Book: Analog Signal Processing	

^{*} See section D for compatible meters.

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