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176PC28HG2



Actual product appearance may vary.

Pressure Sensors: Measurement Type: Gage, Unamplified; Range: ± 28.0 in H₂O

Features

Miniature package
Low pressure measurement
Calibrated null and span
Temperature compensated for span over 0 °C to 50 °C [32 °F to 122 °F]

Potential Applications

Medical
CPAP (Continuous Positive Airway Pressure) equipment
Respirators and ventilators
Blood glucose monitors
Oxygen conservers
Oxygen concentrators
Nebulizers
Blood cell separators

Environmental
Filter monitoring equipment

Description

170PC Series pressure sensors provide a millivolt output that is proportional to the pressure applied. They operate from 0 inches to 7.0 inches of water to 0 inches to 27.68 inches of water using a single, positive supply voltage ranging from 10.0 Vdc to 16.0 Vdc. When pressure is applied, a differential output voltage, proportional to that pressure, is produced.

Supporting Documentation

- ▣ [Engineering Drawing](#)

Product Specifications	
Measurement Type	Gage
Signal Conditioning	Unamplified
Pressure Range	± 28.0 in H ₂ O
Maximum Overpressure	140.0 in H ₂ O
Supply Voltage	10.0 Vdc typ., 16.0 Vdc max.
Compensated	Yes
Output Calibration	Yes
Response Time	1 ms max.
Termination	PCB
Port Style	Straight
Package Style	Honeywell - 100PC
Linearity	± 3.0% span max. (P2 > P1)
Typical Sensitivity	1.5 mV/in H ₂ O
Full Scale Span	42 mVdc typ.
Null Offset	0 mV typ.
Null Shift over Temperature	± 3.0 %
Span Shift Over Temperature	± 3.5% at 10 vdc
Repeatability & Hysteresis Error	± 0.25 % span typ.
Input Resistance	6.3 kOhm
Shock	Qualification tested to 150 g
Vibration	MIL - STD - 202 Method 204 (10 Hz to 2000 Hz at 10g)
Weight	57 g [2 oz]
Operating Temperature Range	-40 °C to 85 °C [-40 °F to 185 °F]
Compensated Temperature Range	0 °C to 50 °C [32 °F to 122 °F]
Storage Temperature Range	-55 °C to 125 °C [-67 °F to 257 °F]
Media Compatibility	Port 1: Dry gases only. Port 2: Wetted materials. Polyester housing, silicon and silicon -based adhesives.
UNSPSC Code	411121
UNSPSC Commodity	411121 Transducers
Availability	Global
Series Name	170PC

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