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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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