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141PC01D



Actual product appearance may vary.

Pressure Sensors: Measurement Type: Differential, Vacuum Gage, Amplified; Range; 0 psi to -1.0 psi

Features

- Robust package
- PCB termination
- Fully signal conditioned
- Amplified

Potential Applications

- Medical
 - Oxygen and nitrogen gas distribution in hospitals
 - Dental chairs
 - CPAP (Continuous Positive Airway Pressure) equipment
 - Respirators and ventilators
 - Blood glucose monitors
 - Oxygen conservers
 - Oxygen concentrators
 - Nebulizers
 - Kidney dialysis machines
 - Blood cell separators
- Environmental
 - Water control valves
 - Instrumentation
 - Irrigation equipment
 - Filter monitoring equipment
 - Leak detection systems in underground telecommunications cables
 - Radiometers
- Industrial Instrumentation
 - Robotics
 - Pressure valves
 - Leak detection
 - Air compressors
- Analytical Instrumentation
 - Gas chromatography
 - Chemical analyzers

Description

140PC Series pressure sensors provide an output voltage that is proportional to the pressure applied. They operate in ranges from 0 psi to 1.0 psi to 0 psi to 30.0 psi using a single, positive supply voltage ranging from 7.0 Vdc to 16.0 Vdc.

Supporting Documentation

- Engineering Drawing

Product Specifications	
Measurement Type	Differential, Vacuum Gage
Signal Conditioning	Amplified
Pressure Range	0 psi to -1.0 psi
Maximum Overpressure	20.0 psi
Supply Voltage	7.0 Vdc min., 8.0 Vdc typ., 16.0 Vdc max.
Compensated	Yes
Output Calibration	Yes
Response Time	1 ms max.
Termination	PCB
Port Style	Straight
Package Style	Honeywell - 140PC
Linearity	± 0.75% span max. (P2 < P1)
Typical Sensitivity	5 V/psi
Full Scale Span	5.0 Vdc typ.
Null Offset	1.0 Vdc typ.
Null Shift over Temperature	Null and Span Shift ± 1.5 % F.S.O. (5 °C < 25 °C > 45 °C [41 °F < 77 °F > 113 °F])
Span Shift Over Temperature	Null and span shift ± 1.5% F.S.O (5 °C < 25 °C > 45 °C [41 °F < 77 °F > 113 °F])
Repeatability & Hysteresis Error	± 0.30 % span typ.
Shock	Qualification tested to 50 g
Vibration	MIL - STD - 202 Method 204 (10 Hz to 2000 Hz at 10g)
Weight	28 g [0.987 oz]
Operating Temperature Range	-40 °C to 85 °C [-40 °F to 185 °F]
Compensated Temperature Range	-18 °C to 63 °C [0 °F to 145 °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, epoxy adhesive, silicon, borosilicate glass and silicon - to - glass bond.
UNSPSC Code	411121
UNSPSC Commodity	411121 Transducers
Availability	Global
Series Name	140PC

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