

163PC01D75



Actual product appearance may vary.

Pressure Sensors: Measurement Type:
Bidirectional Gage, Differential; Signal
Conditioning: Amplified; Pressure Range: \pm
2.5 in H₂O; Port Style: Straight

Features

- Robust package
- PCB termination
- Fully signal conditioned
- Amplified
- Low pressure measurement

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

160PC Series pressure sensors provide an output voltage that is proportional to the pressure applied. They operate from 0 inches to 2.5 inches of water to 0 inches to 27.68 inches of water using a single, positive supply voltage ranging from 6.0 Vdc to 16.0 Vdc.

Product Specifications	
Measurement Type	Differential, Bidirectional Gage
Signal Conditioning	Amplified
Pressure Range	\pm 2.5 in H ₂ O
Maximum Overpressure	5.0 psi
Supply Voltage	6.0 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 - 100PC
Linearity	\pm 2.0 % span max. (P2 > P1), \pm 1.0 % span max. (P2 < P1)
Typical Sensitivity	1 v/in H ₂ O
Full Scale Span	5.0 Vdc typ.

Null Offset	3.50 Vdc typ.
Repeatability & Hysteresis Error	± 0.25 % span typ.
Shock	Qualification tested to 150 g
Vibration	MIL-STD-202 Method 213 (150 g half sine 11 ms)
Weight	28 g [.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	P1 port: Dry gas only. P2 port: 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	160PC