

Honeywell Sensing and Control

and Control

142PC01D



Actual product appearance may vary.

Pressure Sensors: Measurement Type: Differential, Gage; Signal Conditioning: Amplified; Pressure Range: 0 psi to 1.0

psi; Port Style: Straight

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.

Product Specifications	
Measurement Type	Differential, 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 - 100PC
Linearity	\pm 0.75% span max. (P2 > P1), \pm 0.40% span max. (P2 < P1)
Typical Sensitivity	5 V/psi
Full Scale Span	5.0 Vdc typ.
Null Offset	1.0 Vdc typ.
Repeatability & Hysteresis Error	± 0.30 % span typ.
Shock	Qualification tested to 150 g
Vibration	MIL-STD-202 Method 213 (150 g half sine 11 ms)
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

140PC

Series Name

