

Honeywell Sensing and Control

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Representative photograph, actual product appearance may vary.

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40PC150G1A

Pressure Sensors: Measurement Type: Gage; Signal Conditioning: Amplified; Pressure Range: 0 psi to 150 psi; Port Style: Straight for O-ring interface

Features

- Smallest amplified sensor package
- Minimal PCB space
- Fully signal conditioned
- Operating temperature range from -45 °C to 125 °C [-49 °F to 257 °F]
- Silicon piezoresistive technology
- Monolithic design
- 6 Pin DIP package
- Port designed for O-ring interface

Typical 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
- Hospital beds

Environmental

- Water control valves
- Instrumentation
- Irrigation equipment
- Filter monitoring equipment

Industrial Instrumentation

- Robotics
- Pressure valves
- Leak detection
- Air compressors

Analytical Instrumentation

- Gas chromatography
- Chemical Analyzers

Transportation

- Electronic brake systems
- Engine oil level
- Transmission fluid level
- Air conditioning system
- Fuel injection systems

Description

The cost-effective 40PC Series miniature pressure sensor is the smallest amplified pressure sensor manufactured by Honeywell. The fully calibrated and temperature-compensated sensor is very robust, covering a wide range

of temperature extremes. Additionally, the 40PC Series is compatible with a broad array of media, from dry air and water to refrigerant coolants and engine fuel. The 0.5 Vdc to 4.5 Vdc analog output voltage signal is linearly proportional to input pressure. These devices operate on a single end supply voltage of 5.0 Vdc.

Product Specifications	
Measurement Type	Gage
Signal Conditioning	Amplified
Pressure Range	0 psi to 150 psi
Maximum Overpressure	300 psi
Supply Voltage	5.0 Vdc \pm 0.25 Vdc
Compensated	Yes
Output Calibration	Yes
Response Time	1 ms max.
Termination	PCB; Unformed
Port Style	Straight for O-ring interface
Package Style	Honeywell - Monolithic
Linearity	0.10 % span max.
Typical Sensitivity	26.6 mV/psi
Full Scale Span	4.0 Vdc typ.
Null Offset	0.50 Vdc typ.
Repeatability & Hysteresis Error	\pm 0.15 % span typ.
Shock	Qualification tested to 150 g
Vibration	MIL-STD-202 Method 213 (150 g half sine 11 ms)
Operating Temperature Range	-45 °C to 125 °C [-49 °F to 257 °F]
Compensated Temperature Range	-45 °C to 125 °C [-49 °F to 257 °F]
Storage Temperature Range	-55 °C to 125 °C [-67 °F to 257 °F]
Media Compatibility	P1 port: Dry gas only. Media must be compatible with epoxy based adhesive. P2 port: Media must be compatible with glass, silicon, stainless steel, invar, Sn/Ni plating or Sn/Ag solder.
UNSPSC Code	411121
UNSPSC Commodity	411121 Transducers
Availability	Global
Series Name	40PC Series

Due to regional agency approval requirements, some products may not be available in your area.

Please contact your regional Honeywell office regarding your product of choice.