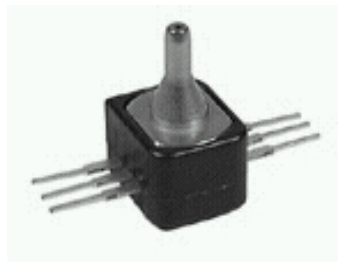




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40PC500G2A



Actual product appearance may vary.

Pressure Sensors: Measurement Type: Gage; Signal Conditioning: Amplified; Pressure Range: 0 psi to 500 psi; Port Style: Straight O-ring interface

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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

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
 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.

Supporting Documentation

- [Output Performance Characteristics](#)
- [Circuit Diagrams](#)
- [Engineering Drawing](#)

Product Specifications	
Measurement Type	Gage
Signal Conditioning	Amplified
Pressure Range	0 psi to 500 psi
Maximum Overpressure	1000 psi
Supply Voltage	5.0 Vdc ± 0.25 Vdc
Compensated	Yes
Output Calibration	Yes
Response Time	1 ms max.
Termination	PCB; Leads formed away from port
Port Style	Straight for O - ring interface
Package Style	Honeywell - Monolithic
Linearity	0.20% span max.
Typical Sensitivity	8 mV/psi
Full Scale Span	4.0 Vdc typ.
Null Offset	0.50 Vdc typ.
Repeatability & Hysteresis Error	± 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	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	40PC

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