

Honeywell Sensing and Control

24PCBFA6G



Actual product appearance may vary.

Pressure Sensors: Measurement Type:

Gage, Vacuum Gage; Signal

Conditioning: Unamplified; Pressure Range: ± 5.0 psi Port Style: Straight

Features

- Miniature package
- Variety of gage pressure port configurations - easily and quickly modified for special needs
- Operable after exposure to frozen conditions
- Choice of termination for gage sensors
- 2 mA constant current excitation significantly reduces sensitivity shift over temperature
- Can be used to measure vacuum or positive pressure

Potential Applications

Medical

- Oxygen and nitrogen gas distribution in hospitals
- Dental chairs

Environmental

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

Industrial Instrumentation

- Robotics
- Pressure valves
- Leak detection
- Air compressors

Analytical Instrumentation

Gas chromatography

Description

The 24PC Series miniature pressure sensors provide reliable gage pressure sensing performance in a compact package. The sensor features a proven sensing technology that utilizes a specialized piezoresistive micro-machined sensing element. The low power, non-amplified, non-compensated Wheatstone bridge circuit design provides inherently stable mV outputs over 0.5 psi through 250 psi sensing ranges.

	pecifications
Measurement Type	Vacuum Gage, Gage
Signal Conditioning	Unamplified
Pressure Range	± 5.0 psi
Maximum Overpressure	20.0 psi
Supply Voltage	10.0 Vdc typ., 12.0 Vdc max.
Compensated	No
Output Calibration	No
Response Time	1 ms max.
Termination	PCB; 1 x 4; 0.600 in
Port Style	Straight
Package Style	Honeywell - 20PC
Linearity	\pm 0.25% span typ., \pm 1.0% span max. (P2 > P1)
Typical Sensitivity	23 mV/psi
Full Scale Span	115 mVdc typ.
Null Offset	0 mV typ.
Null Shift over Temperature	± 1.0 mV typ.
Span Shift Over Temperature	± 5.0 % span typ.
Repeatability & Hysteresis Error	± 0.15 % span typ.
Input Resistance	4.0 kOhm min., 5.0 kOhm typ., 6.0 kOhm max.
Output Resistance	4.0 kOhm min., 5.0 kOhm typ., 6.0 kOhm max.
Shock	Qualification tested to 150 g
Vibration	MIL-STD-202 Method 213 (150 g half sine 11 ms)
Weight	2 g [0.07 oz]
Operating Temperature Range	-40 °C to 85 °C [-40 °F to 185 °F]
Storage Temperature Range	-55 °C to 100 °C [-67 °F to 212 °F]
Media Compatibility	Limited to media which will not attack polyetherimide, silicon, flourosilicone, silicone, EPDM and neoprene seals.
UNSPSC Code	411121
UNSPSC Commodity	411121 Transducers
Availability	Global
Series Name	24PC

