



Representative photograph, actual product appearance may vary.

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.

142PC01D

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

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

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.



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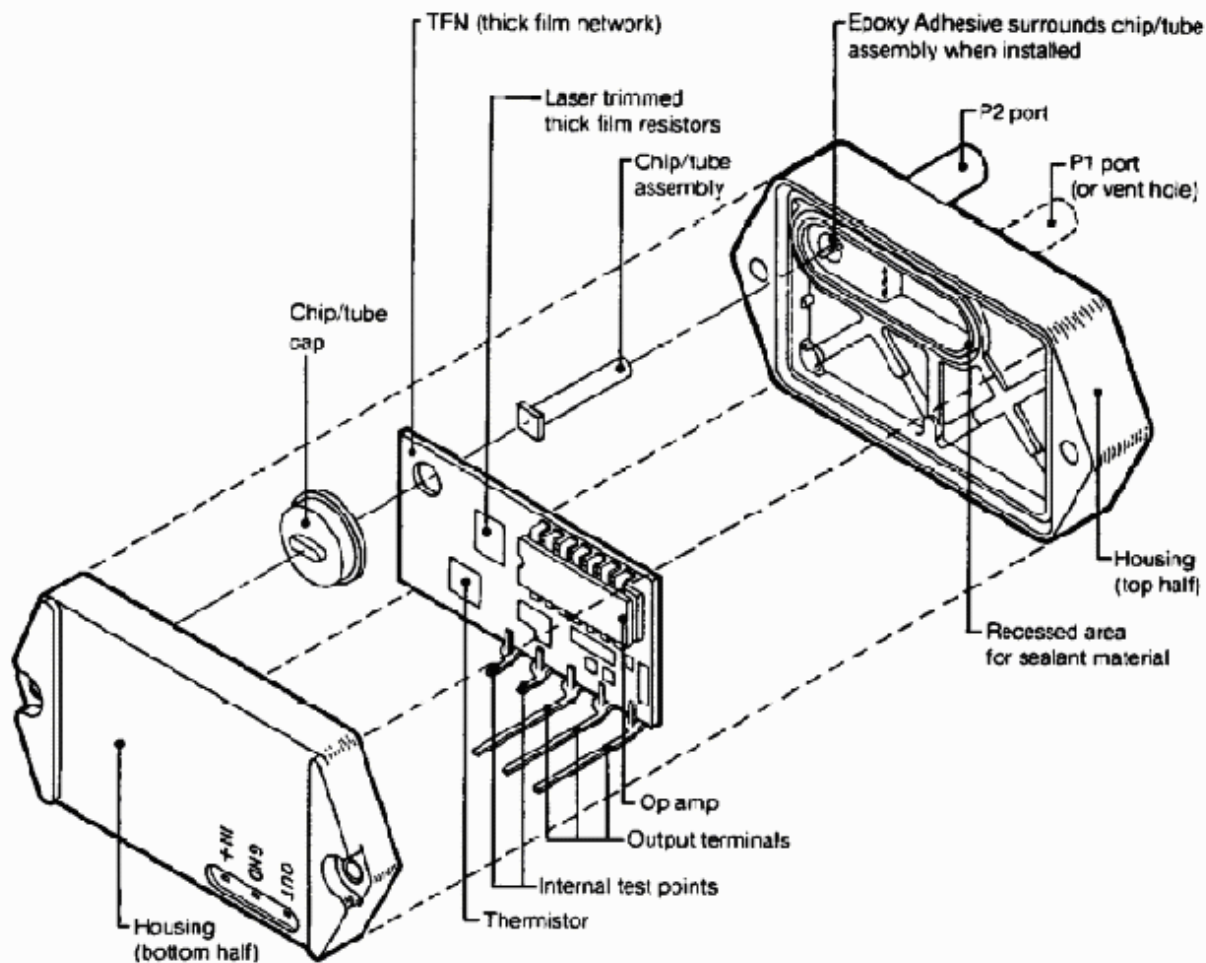
Product Specifications	
Measurement Type	Gage, Differential
Signal Conditioning	Amplified
Pressure Range	0 psi to 1.0 psi
Maximum Overpressure	20.0 psi
Supply Voltage	7.0 Vdc min., 8.0 Vdc typ., 16.0 Vdc max.
Compensated	Yes
Output Calibration	Yes
Response Time	1 ms max.
Termination	PCB
Port Style	Straight
Package Style	Honeywell - 100PC
Linearity	± 0.75 % span max. ($P_2 > P_1$), ± 0.40 % span max. ($P_2 < P_1$)
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 [.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	P2 port: Wetted materials; polyester housing, epoxy adhesive, silicon, borosilicate glass, and silicon-to-glass bond P1 port: Dry gas only.
UNSPSC Code	411121
UNSPSC Commodity	411121 Transducers
Availability	Global
Series Name	140PC Series

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140PC CONSTRUCTION



Honeywell

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⚠ WARNING

PERSONAL INJURY

DO NOT USE these products as safety or emergency stop devices, or in any other application where failure of the product could result in personal injury.

Failure to comply with these instructions could result in death or serious injury.

WARNING

MISUSE OF DOCUMENTATION

- The information presented in this product sheet (or catalog) is for reference only. DO NOT USE this document as product installation information.
- Complete installation, operation and maintenance information is provided in the instructions supplied with each product.

Failure to comply with these instructions could result in death or serious injury.

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