

# **Honeywell Sensing and Control**

# 142PC30A



Actual product appearance may vary.

Pressure Sensors: Measurement Type: Absolute; Signal Conditioning: Amplified; Pressure Range: 0 psia to 30.0 psia; Port Style: Straight

### **Features**

- Robust package
- PCB termination
- Fully signal conditioned
- Amplified

# **Potential Applications**

# **Environmental**

- Weather monitoring equipment
- Altimeters
- Radiometers
- Leak detection systems in underground telecommunications cables

# **Description**

140PC Series pressure sensors provide an output voltage that is proportional to the pressure applied. They operate in ranges from 0 psia to 15.0 psia to 0 psia to 30.0 psia using a single, positive supply voltage ranging from 7.0 Vdc to 16.0 Vdc.

Product Specifications	
Measurement Type	Absolute
Signal Conditioning	Amplified
Pressure Range	0 psia to 30.0 psia
Maximum Overpressure	60.0 psia
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	± 0.40% span max. (P2 < P1)
Typical Sensitivity	0.167 V/psi
Full Scale Span	4.67 Vdc typ.

Null Offset	1.33 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)
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
Series Name	140PC

