

Features

- Uncompensated analog output
- Absolute and gauge types
- For use in clean, dry air and non-corrosive gasses
- Tray packaging
- Optional ceramic chimney
- Optional gel coating for condensing applications
- RoHS compliant*

BPS330 Series - 8 mm Analog Medium Pressure Sensor

Electrical Characteristics	Additional Information
Supply Voltage (V _S)	Click these links for more information:
OutputmV	
Impedance	
	PRODUCT TECHNICAL INVENTORY SAMPLES CONTACT LIBRARY
Performance Characteristics	
Operating Temperature	40 °C to +125 °C
Storage Temperature	55 °C to +125 °C
Pressure Range	5 to 60 psi
Offset ¹	0 ±10 mV/V
Non-linearity ² (Standard)	±0.25 % FS
Non-linearity ² (50 psi)	±0.15 % FS
Pressure Hysteresis	
Thermal Hysteresis ³	
Temperature Coefficient - Zero ⁴	•
Temperature Coefficient - Resistance ⁴	
Temperature Coefficient - Sensitivity ⁴	
Burst Pressure	245 psi
Full Scale Output (@ 5 volts)	
5 psi	133 +27/-26 mV
15 psi	150 ±30 mV
30 psi	160 ±32 mV
50 psi	133 +27/-26 mV
60 psi	160 ±32 mV
Product Characteristics	
Media Compatibility	Non-corrosive dry gasses
Moisture Sensitivity Level	, ,
ESD Classification (HBM)	
Marking	
Standard Packaging	100 pcs./tray
Weight	0.474 grams

Notes:

- ¹ Zero pressure, gauge only, at 25 °C
- ² Best fit straight line at 25 °C
- ³ Zero pressure
- 4 -40 °C to +85 °C

Specifications are subject to change without notice.

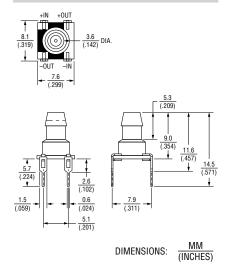
Users should verify actual device performance in their specific applications.

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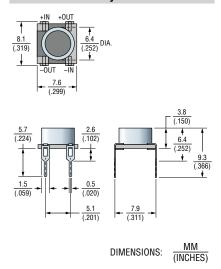
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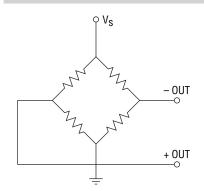
Aluminum Barb Dimensions



Ceramic Chimney Dimensions



Basic Circuit Schematic



Transfer Function Formula

V_{out} = (26.7 * P) + Offset ± Error **Where**

 $\begin{array}{ll} \text{Offset} & = 0 \text{ mV} \\ \text{Error} & = 0 \text{ mV} \\ \text{Vs} & = 5.0 \text{ V} \\ \text{TEMP} & = 25 \text{ °C} \\ \end{array}$

Consult factory for custom options such as supply voltage, temperature calibration range, output range accuracy specification, and update rate.

How To Order

BPS330 - A A 015P - 3 S _

Model Series Uncompensated, mV Output Media Compatibility -A = Air/Gas Pressure Type G = Gauge A = Absolute Pressure 005P = 5 psi015P = 15 psi030P = 30 psi050P = 50 psi 060P = 60 psi Terminal Pins 3 = Vertical Terminal Pins Port Style -C = Ceramic Chimney K = Ceramic Chimney with Gel S = Single Port

T = Single Port with Gel
Packaging Designator
(blank) = 100 pcs. per Tray

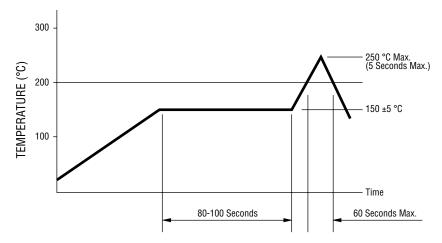
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Solder Profile



Processing Method: Reflow soldering with infrared heat or forced air convection (only once).

Notes

- 1. No clean solder paste is recommended.
- 2. Aqueous wash is not recommended.
- Use of water soluble soldering flux should be avoided due to possible corrosion.
- 4. Multiple passes through the soldering process is not recommended.
- 5. Other SMD processes and profiles should be verified by the customer.

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