

Pressure Sensors

Gage and Differential/Unamplified-Compensated

26PC Series

Temperature Compensated Sensors



FEATURES

- Lowest priced sensor with temperature compensation and calibration
- Variety of gage pressure port configurations - easily and quickly modified for your special needs
- Operable after exposure to frozen conditions
- Choice of termination for gage sensors
- Calibrated Null and Span
- Temperature compensated for Span over 0 to 50°C
- Provides interchangeability
- Can be used to measure vacuum or positive pressure
- Ideal for wet/wet differential applications

26PC SERIES PERFORMANCE CHARACTERISTICS at 10.0 ±0.01 VDC Excitation, 25°C

| | Min. | Typ. | Max. | Units |
|----------------------------|-------|-------|--------|-------|
| Excitation | --- | 10 | 16 | VDC |
| Repeatability & Hysteresis | --- | ±0.20 | --- | %Span |
| Response Time | --- | --- | 1.0 | msec |
| Input Resistance | 5.5 K | 7.5 K | 11.5 K | ohms |
| Output Resistance | 1.5 K | 2.5 K | 3.0 K | ohms |
| Stability over One Year | --- | ±0.5 | --- | %Span |
| Weight | --- | 2 | --- | grams |

Total error calculation, see page 105.

ENVIRONMENTAL SPECIFICATIONS

| | |
|-------------------------|--|
| Operating Temperature | -40° to 85°C (-40° to +185°F) |
| Storage Temperature | -55° to +100°C (-67° to +212°F) |
| Compensated Temperature | 0° to +50°C (32° to +122°F) |
| Shock | Qualification tested to 150 g |
| Vibration | MIL-STD-202. Method 213 (150g halfsine, 11 msec) |
| Media (P1 & P2) | Limited only to those media which will not attack polyetherimide, silicon, fluorosilicone, silicone, EPDM, and neoprene seals. |

26PC SERIES ORDER GUIDE

| Catalog Listing | Pressure Range (psi) | Linearity (% span) | | Null Shift (mV) | | Null Offset (mV) | | | Span Shift (% span) | | Span (mV) | | | Sensitivity mV/psi | | Over-pressure psi |
|-----------------|----------------------|--------------------|------|-----------------|------|------------------|------|------|---------------------|------|-----------|------|------|--------------------|------|-------------------|
| | | Typ. | Max. | Typ. | Max. | Min. | Typ. | Max. | Typ. | Max. | Min. | Typ. | Max. | Typ. | Max. | |
| 26PCA TYPE | 1 | 0.25 | 0.5 | ±0.5 | ±1.0 | -1.5 | 0 | +1.5 | ±1.0 | ±2.0 | 14.7 | 16.7 | 18.7 | 16.7 | 20 | |
| 26PCB TYPE | 5 | 0.4 | 0.5 | ±0.5 | ±1.0 | -1.5 | 0 | +1.5 | ±1.0 | ±1.5 | 47 | 50 | 53 | 10.0 | 20 | |
| 26PCC TYPE | 15 | 0.25 | 0.5 | ±0.5 | ±1.0 | -1.5 | 0 | +1.5 | ±0.75 | ±1.5 | 97 | 100 | 103 | 6.67 | 45 | |
| 26PCD TYPE | 30 | 0.1 | 0.2 | ±0.75 | ±1.5 | -1.5 | 0 | +1.5 | ±0.75 | ±1.5 | 97 | 100 | 103 | 3.33 | 60 | |
| 26PCF TYPE | 100 | 0.1 | 0.2 | ±1.0 | ±2.0 | -2.0 | 0 | +2.0 | ±0.5 | ±1.5 | 95 | 100 | 105 | 1.0 | 200 | |
| 26PCJ TYPE | 38* | 0.1 | 0.5 | ±0.7 | ±1.5 | -1.5 | 0 | +1.5 | ±1.0 | ±1.5 | 37.5 | 39.5 | 41.5 | 2.63 | 60 | |
| 26PCK TYPE | 38* | 0.1 | 0.5 | ±0.7 | ±1.5 | -1.5 | 0 | +1.5 | ±1.0 | ±1.5 | 37.5 | 39.5 | 41.5 | 2.63 | 60 | |

*Accuracy specifications calculated at 15 psi.

Unamplified

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SENSOR SELECTION GUIDE

| 2 Product Family | 6 Circuit Type | PC Pressure Transducer | B Pressure Range | F* Type of Seal | A Type of Port | 2 Termination Style | G Pressure Measurement |
|-------------------------------|-----------------------------|-------------------------------------|---|--|--|---|-------------------------------------|
| 2 20PC family | 6 Compensated Calibrated | | A 1 psi B 5 psi C 15 psi D 30 psi F 100 psi J 38 psi K 38 psi (passivated**) | E EPDM F Fluorosilicone N Neoprene S Silicone | A Straight B Barbed C Luer D Modular H M5 Thread I 90° Port J Needle K Reverse 90° Port L 1/4-28 UNF w/Cable Lock M 1/4 - 28 UNF w/o Cable Lock S Manifold | 1 1 x 4 (.400") 2 2 x 2 6 1 x 4 (.600") | G Gage D Differential |

Example: 26PCBFA2G

Compensated and calibrated 5 psi sensor with fluorosilicone seal, straight port, 2 x 2 terminals, and Gage pressure measurement.

*Other media seal materials may be available.

**P2 side of die coated for environmental and dielectric protection.

See Accessories Guide, page 27.

Not all combinations are established.
Contact 800 number before final design.