Pressure Sensors

Gage Unamplified Compensated Flow-Through

FEATURES

- Measure positive and negative gage pressures
- Flow-through port design fits in-line with application
- Popular port sizes:
  - 8 mm (.315 in.) OD (1/4 in. ID tubing or standard connectors)
  - 0.144 in. OD (1/8 in. ID tubing)
- Medical grade ISO 10993-1 (USP Class 6) port material
- Silicon sensor chip
- 24 inch wire harness with splash proof connector
- Minimal deadspace — efficient cleansing and disinfecting

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.

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SENSOR SELECTION GUIDE

2 Product Family	6 Circuit Type	PC Pressure Transducer	A Pressure Range	F* Type of Seal	N Port Type	5 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	**G** Small **N** Large (.350 dia.) **P** Large (.315 dia.)	**2** 4-pin DIP **5** Wire harness **6** 4-pin SIP	**G** Gage

Example: 26PCBFG5G
Compensated, calibrated 5 psi sensor, fluorosilicone seal, small flow-through ports, wire harness, and gage pressure measurements.
*Other media seal materials may be available.

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

See Accessory Guide, page 27.