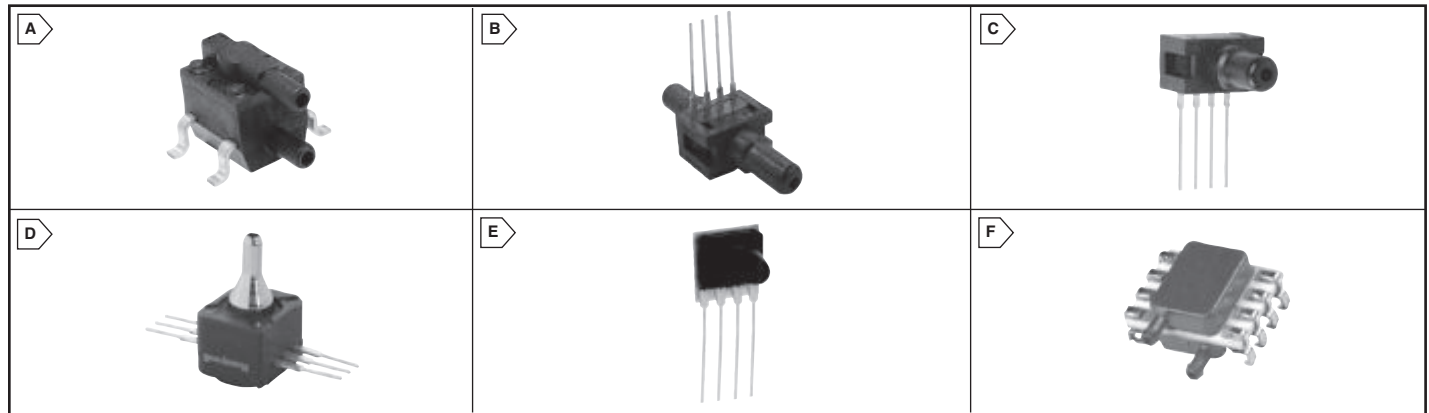




PRESSURE SENSORS



Piezoresistive Silicon Sensors

Contain sensing elements that consist of four piezoresistors buried in the face of a thin, chemically-etched silicon diaphragm. A pressure change causes the diaphragm to flex, inducing a stress in the diaphragm and the buried resistors. The resistor values change in proportion to the stress applied and produce an electrical output. These sensors are small, low cost and reliable. They feature excellent repeatability, high accuracy and reliability under varying environmental conditions. In addition, they feature highly consistent operating characteristics from one sensor to the next, and interchangeability without recalibration.

Potential Applications Medical:

- CPAP (Continuous Positive Airway Pressure) equipment
- Respirators and ventilators
- Blood glucose monitors
- Oxygen conservers
- Oxygen concentrators
- Nebulizers

Potential Applications Industrial:

- Soft drink dispensing

Potential Applications Environmental:

- Residential fuel cells

For quantities of 100 and up, call for quote.

MOUSER STOCK NO.	Honeywell Part No.	Fig.	Pressure Range (psi)	Measurement Type	Signal Conditioning	Supply Voltage (max.)	Price Each		
							1	10	50
785-24PC01SMT	24PC01SMT	A	±1.0	Wet-Wet Diff./Vacuum	Unamplified	12.0 Vdc	11.01	9.90	9.53
785-26PC01SMT	26PC01SMT	A	±1.0	Wet-Wet Diff./Vacuum	Unamplified	16.0 Vdc	15.49	14.00	12.67
785-26PC05SMT	26PC05SMT	A	±5.0	Wet-Wet Diff./Vacuum	Unamplified	16.0 Vdc	18.73	14.00	12.67
785-26PC15SMT	26PC15SMT	A	±15.0	Wet-Wet Diff./Vacuum	Unamplified	16.0 Vdc	15.27	14.00	12.67
785-24PCAF6D	24PCAF6D	B	±1.0	Wet-Wet Diff./Vacuum	Unamplified	12.0 Vdc	19.82	16.99	15.98
785-24PCBF6D	24PCBF6D	B	±5.0	Wet-Wet Diff./Vacuum	Unamplified	12.0 Vdc	19.82	16.99	15.98
785-24PCEFA6D	24PCEFA6D	B	±5.0	Wet-Wet Diff./Vacuum	Unamplified	12.0 Vdc	19.83	19.19	18.34
785-26PCAF6D	26PCAF6D	B	±1.0	Wet-Wet Diff./Vacuum	Unamplified	16.0 Vdc	26.92	25.75	24.67
785-26PCBF6D	26PCBF6D	B	±5.0	Wet-Wet Diff./Vacuum	Unamplified	16.0 Vdc	26.92	25.75	24.67
785-26PCBFD6G	26PCBFD6G	B	±5.0	Vacuum	Unamplified	16.0 Vdc	26.92	25.75	24.67
785-26PCCFA6D	26PCCFA6D	B	±15.0	Wet-Wet Diff./Vacuum	Unamplified	16.0 Vdc	26.92	25.75	24.67
785-26PCDFA6D	26PCDFA6D	B	±30.0	Wet-Wet Diff./Vacuum	Unamplified	16.0 Vdc	25.55	25.02	24.88
785-26PCFFA6D	26PCFFA6D	B	±100.0	Wet-Wet Diff./Vacuum	Unamplified	16.0 Vdc	26.92	25.75	24.67
785-24PCAF6G	24PCAF6G	C	±1.0	Vacuum	Unamplified	12.0 Vdc	19.82	16.99	15.98
785-24PCBF6G	24PCBF6G	C	±5.0	Vacuum	Unamplified	12.0 Vdc	19.82	16.99	15.98
785-24PCCFA6G	24PCCFA6G	C	±5.0	Vacuum	Unamplified	12.0 Vdc	19.82	16.99	15.98
785-24PCDFA6G	24PCDFA6G	C	±30.0	Vacuum	Unamplified	12.0 Vdc	19.82	16.99	15.98
785-24PCFFA6G	24PCFFA6G	C	±100.0	Vacuum	Unamplified	12.0 Vdc	22.00	19.13	18.77
785-24PCGFA6G	24PCGFA6G	C	±250.0	Vacuum	Unamplified	12.0 Vdc	22.00	19.13	18.77
785-26PCAF6G	26PCAF6G	C	±1.0	Differential	Unamplified	16.0 Vdc	26.92	25.75	24.67
785-26PCBF6G	26PCBF6G	C	±5.0	Differential	Unamplified	16.0 Vdc	26.92	25.75	24.67
785-26PCCFA6G	26PCCFA6G	C	±15.0	Vacuum	Unamplified	16.0 Vdc	26.92	25.75	24.67
785-26PCCFB6G	26PCCFB6G	C	±15.0	Vacuum	Unamplified	16.0 Vdc	26.92	25.75	24.67
785-26PCDFA6G	26PCDFA6G	C	±30.0	Vacuum	Unamplified	16.0 Vdc	26.92	25.75	24.67
785-26PCFFA6G	26PCFFA6G	C	±100.0	Vacuum	Unamplified	16.0 Vdc	26.92	25.75	24.67
785-40PC015G1A	40PC015G1A	D	0 to 15.0	--	Amplified	0.25 Vdc	33.24	31.25	28.08
785-40PC100G2A	40PC100G2A	D	0 to 100	--	Amplified	0.25 Vdc	47.00	35.40	33.67
785-40PC150G2A	40PC150G2A	D	0 to 150	--	Amplified	0.25 Vdc	34.58	32.78	31.03
785-40PC500G2A	40PC500G2A	D	0 to 500	--	Amplified	0.25 Vdc	48.77	37.09	32.33
785-CPCL04DFC	CPCL04DFC	E	± 4.0 in H2O	Differential	Unamplified	16.0 Vdc	26.78	26.03	25.28

Honeywell Pressure Sensors

TruStability™ Silicon Pressure Sensor HSC Series

These devices offer customers three key benefits not found in competitive silicon sensors: Stability: These sensors are the most stable silicon pressure sensors available; Accuracy: They are designed to provide an extremely tight accuracy specification; and Flexibility: Their modular and flexible design offer customers a variety of package styles and options, all with the same industry-leading performance specifications.



These sensors are intended for use with non-corrosive, non-ionic working fluids such as air and dry gases. They are designed to provide digital correction of sensor offset, sensitivity, temperature coefficients and non-linearity. Industry-leading stability helps prevent drift over time or from temperature extremes.

Features:

- Industry leading long-term stability
- Extremely tight accuracy of ±0.25 % FSS BFSL
- Total error band of ±2 % full scale span max.
- Low operating voltage
- Extremely low power consumption
- Ratiometric 12-bit analog output
- RoHS compliant
- Virtually insensitive to mounting direction
- Internal diagnostic functions increase system reliability
- Absolute, differential, gage, and compound types
- Custom calibration available
- Various pressure port options

Potential Applications Medical:

- Airflow monitors
- Anesthesia machines
- Blood analysis machines
- Gas chromatography
- Gas flow instrumentation
- Kidney dialysis machines
- Oxygen concentrators
- Pneumatic controls
- Respiratory machines
- Sleep apnea equipment
- Ventilators

Potential Applications Industrial:

- Barometry
- Flow calibrators
- Gas chromatography
- Gas flow instrumentation
- HVAC
- Life sciences
- Pneumatic controls

For quantities of 100 and up, call for quote.

MOUSER STOCK NO.	Honeywell Part No.	Fig.	Pressure Range (psi)	Measurement Type	Signal Conditioning	Supply Voltage (max.)	Price Each		
							1	10	50
785-HSCMRNN001BGAA5	HSCMRNN001BGAA5	F	0 to 1 bar	Gage	Amplified	-0.3 V to 6.0 V	34.85	28.87	27.63
785-HSCMRNN001BG2A5	HSCMRNN001BG2A5	F	0 to 1 bar	Gage	Amplified	-0.3 V to 6.0 V	34.85	28.87	27.63
785-HSCMRNN001PG2A3	HSCMRNN001PG2A3	F	0 to 1 psi	Gage	Amplified	-0.3 V to 6.0 V	34.85	28.87	27.63

