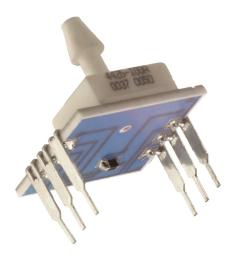
# **Model 4426**





- PC Board Mountable Pressure Sensor
- 0-100 mV Output
- Voltage Excitation
- Gage and Absolute
- Temperature Compensated

### **DESCRIPTION**

The 4426 is a temperature compensated, piezoresistive silicon pressure sensor packaged in a dual-inline configuration and intended for cost sensitive applications where excellent performance and long-term stability are required.

Integral temperature compensation is provided over a range of 0-50 ℃ using laser-trimmed resistors. The pressure sensor is available in absolute or gage pressure ranges from 0-1 to 0-100 psi. The pressure ports are 1/8" barbed ports which mate with 3/32" ID tubing. The tube is vertically mounted to the printed circuit board. For a horizontally mounted tube in differential and absolute pressure, refer to model 4425. For pressures below 1 psi, refer to the model 4415/4416.

### **FEATURES**

- Dual-in-Line Package
- 0°C to 50°C Compensated Temperature Range
- ±0.25% Pressure Non Linearity
- Solid State Reliability

#### **APPLICATIONS**

- Medical Instruments
- Altitude Measurement
- Process Control
- Factory Automation
- Leak Detection

### **STANDARD RANGES**

Range	psig	psia
0 to 1	•	
0 to 5	•	
0 to 15	•	•
0 to 30	•	•
0 to 50	•	•
0 to 100	•	•

# **Model 4426**



# PERFORMANCE SPECIFICATIONS

Supply Voltage: 12V

Ambient Temperature: 25 °C (unless otherwise specified)

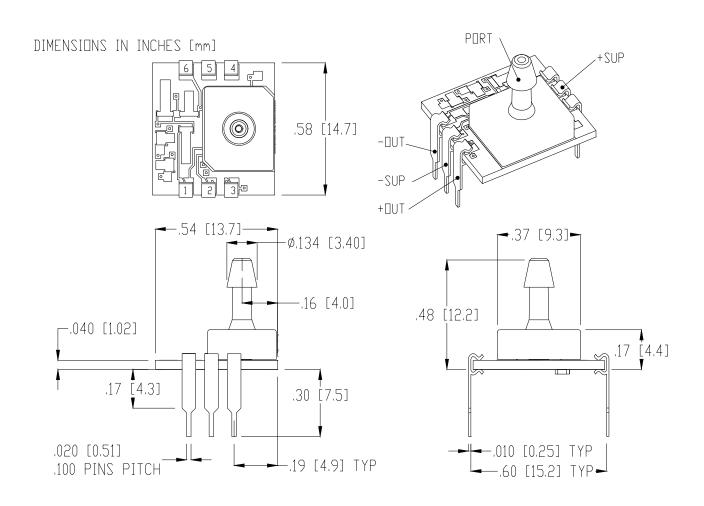
PARAMETERS	MIN	TYP	MAX	UNITS	NOTES
Span (0-1 psi)	17.6	18	18.4	mV	1
Span (0-5 psi)	58	60	62	mV	1
Span (0-15 to 0-50 psi)	88	90	92	mV	1
Span (0-100 psi)	98	100	102	mV	1
Zero Pressure Output	-1	±0.2	1	mV	1
Pressure Non Linearity	-0.25		0.25	% Span	2
Pressure Hysteresis		±0.2		% Span	
Input Resistance	5	15	25	ΚΩ	
Output Resistance	3500	5000	6500	Ω	
Temperature Error – Span	-1	0.3	1	% Span	3
Temperature Error – Zero	-0.75	±0.2	0.75	mV	3
Supply Voltage		12	20	V	
Long Term Stability (Offset & Span)		±0.1		mV	4
Pressure Overload			3X	Rated	
Compensated Temperature	0		50	ōC	
Operating Temperature	-25		85	ōC	
Storage Temperature	-40		125	ōC	
Humidity	0		85	% RH	
Weight			3	grams	
Solder Temperature	260ºC Max 5 Se	ec.			5
Media	Non-Corrosive Dry Gases Compatible with Silicon, Pyrex, RTV, Ceramic & Gold				

#### Notes

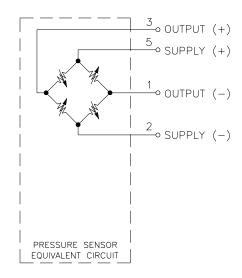
- Ratiometric to supply voltage. Best fit straight line.
- Maximum temperature error between 0 °C and 50 °C with respect to 25 °C. 3.
- Long term stability over a one year period with constant voltage and temperature. For more details refer to 4425/4426 Mounting Application Note.



# **DIMENSIONS**



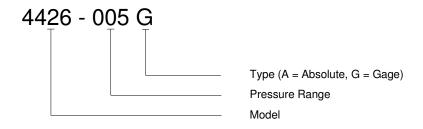
# **CONNECTIONS**



# **Model 4426**



### ORDERING INFORMATION



#### **NORTH AMERICA**

Measurement Specialties 45738 Northport Loop West Fremont, CA 94538 Tel: 1-800-767-1888

Fax: 1-510-498-1578

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Fax: +33 (0) 134 81 03 59

Sales: pfg.cs.emea@meas-spec.com

#### **ASIA**

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