

The IPVB-8000 Series
TO-8 Barb Port
Vertical Port Pressure Sensor

IPVB-8000 Series



DESCRIPTION

The IPVB 8000 Series incorporates a rugged silicon MEMS pressure sensor that is designed to measure gauge or absolute pressures in a rugged TO package with integrated vertical barb port. The sensor allows for simple pressure connection to plastic hosing with 3/32" ID tubing. The MEMS pressure sensor offers a linear mV output with high over range capabilities. The sensor is ideal for many pressure applications where non ionic and non corrosives gases are measured.

APPLICATIONS

- Process Control
- Medical and Industrial Applications
- Vacuum Measurements

FEATURES

- 3/32in ID Tubing Connection
- Highly Accurate Stable Output
- MEMS Sensing Element

- Gauge and Absolute Pressures
- High Over Range Capabilities
- Wide Temperature Range

S P E C I F I C A T I O N S	Min	Typical	Max	Unit
Absolute Maximum Conditions				
Supply Voltage			10	V
Storage Temperature	-40		125	∘C
Overage Pressure				
Burst	15X			FS Pressure
Proof	5X			FS Pressure
Media Compatibility	CDA, No	on Ionic, Non Corrosiv		





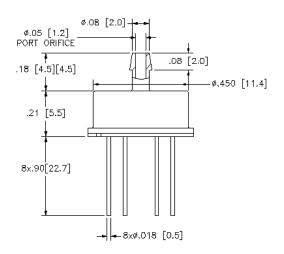
PECIFICATIONS	Min	Typical	Max	Unit	Note
Resistance					
Bridge, Input & Output	4.0	5.0	6.0	kΩ	1
TCR	2300	2800	3100	ppm/°C	2
Offset					
Zero Pressure	-40	0	40	mV	
TCO	-25		25	uV/V/°C	2
Insulation					
Insulation Resistance	50			ΜΩ	
Sensitivity (Range)					
Span (5 psi)	51	60	70	mV	%FSS
Span (15 psi)	90	110	125	mV	
Span (30 psi)	98	115	130	mV	
Span (50 psi)	105	126	150	mV	
Span (100 psi)	135	160	180	mV	
TCS	-2100	-1800	-1400	ppm/°C	2
Pressure Nonlinearity	-0.1	0.02	0.1	%FSS	3
Pressure Hysteresis	-0.1	±.03	0.1	%FSS	
Temperature					
Operating Temperature	-40		125	°C	
Thermal Hysteresis, Zero & Span		±.10		%FSS	4

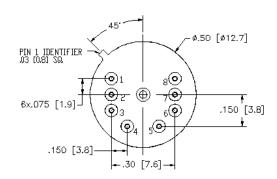
Reference Conditions: Vsupply: 5.00Vdc, Ta=25°C. Port A=Positive Pressure.

- 1. All specification at reference conditions unless otherwise noted. Output is ratio metric to supply voltage.
- 2. Straight line fit between 25° C and 70° C expressed as percentage of reading at 25° C.
- 3. ½ Terminal Base Non Linearity (Measured at 0, 50% and 100% FS).
- 4. Maximum deviation at 0°C and 70°C expressed as percentage of reading at 25°C .



MECHANICAL DIMENSIONS in [mm]





SIDE VIEW

BOTTOM VIEW

PIN NMBR	FUNCTION
8	+OUT
3	-OUT
1	+IN,+VS
6,2	-IN,-VS
4.5.7	NC

ELECTRICAL PINOUT

PART NUMBERING

Series	Port Style	Pressure Range	Units	Туре	Options	
IPVB	8= Barb Port	005 015 030 050 100 **	P=PSI	A=Absolute G=Gauge	-C = -PC=	Gel Coat Pin Cut

Part Number Example: IPVB 8030PG-C 0-30 PSI, Gauge Sensor, Gel Coating





WARRANTY

AVsensors pressure sensors have a limited one-year warranty to the original purchaser. AVsensors will repair or replace, at its option, without charge those items it finds defective. This is the buyer s sole remedy and is in lieu of all other warranties, expressed or implied, including those of merchantability and fitness for a particular purpose. In no event shall AVsensors be liable for consequential, special, or indirect damages. This warranty does not apply to units that have been modified, misused, neglected or installed where the application exceeds published ratings. Specifications may change without notice. The information we supply is believed to be accurate and reliable as of this printing, however, we assume no responsibility for its use.