

Package A

Features

- Temperature Compensated
- Calibrated Zero and Span



Package M

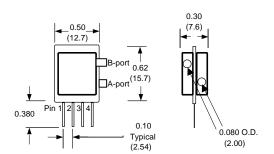
Applications

• Non Invasive Blood Pressure

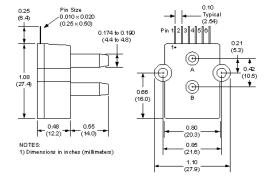
General Description

This data sheet describes two package configuration of pressure sensors for use in non invasive blood pressure maeasurement.

The output voltager is ratiometric to the supply voltage and is offered in either millivolt or amplified output configuration.



pin 1: +V supply pin 2: Ground pin 3: +Voutput pin 4: -N/C



pin 1: N/C pin 2: +V supply pin 3: +Voutput pin 4: -V supply pin 5: -Voutput pin 6: N/C



Pressure Sensor Characteristics Maximum Ratings		Environmental Specifications		
Supply Supply Voltage VS	see below	Temperature Ranges		
Proof Pressure	1500mmHg	Compensated	10 to 50° C	
Lead Temperature	250°C	Operating	-25 to 85° C	
(soldering 2-4 sec.)		Storage	-40 to 125° C	
		Humidity Limits	0 to 95% RH	
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Standard Package Types

(non condensing)

Part Number-Side Port	Package Type	Nominal Span	Supply Voltage
BP01-D-MV	А	15mV	5 volts
BP01-G-4V-MINI	М	4.2 volts	5 volts

Performance Characteristics for BP01-D-MV

Parameter, note 1	Minimum	Nominal	Maximum	Units
Operating Range, gage pressure		300		mmHg
Output Span, note 4	14.85	15.0	15.15	mV
Offset Voltage @ zero pressure		0	0±5	mmHg
Offset Temperature Shift (10°C-50°C), note 2			±0.2	mmHg/°C
Linearity, hysteresis error 0 - 200 mmHg, note 3			±0.1	%fs
Linearity, hysteresis error 0 - 300 mmHg, note 3			±0.2	%fs
Span Shift (10°C-50°C), note 2			±0.5	%fs

Performance Characteristics for BP01-G-4V-MINI

Parameter, note 1	Minimum	Nominal	Maximum	Units
Operating Range, gage pressure		300		mmHg
Output Span, note 4	4.1	4.2	4.3	V
Offset Voltage @ zero pressure	0.18	0.25	0.32	V
Offset Temperature Shift (10°C-50°C), note 2			±0.2	mmHg/°C
Linearity, hysteresis error 0 - 200 mmHg, note 3			±0.1	%fs
Linearity, hysteresis error 0 - 300 mmHg, note 3			±0.2	%fs
Span Shift (10°C-50°C), note 2			±0.5	%fs

Specification Notes

NOTE 1: ALL PARAMETERS ARE MEASURED AT ROOM TEMPERATURE UNLESS OTHERWISE SPECIFIED. PRESSURE MEASUREMENTS ARE WITH POSITIVE PRESSURE APPLIED TO PORT B.

NOTE 3: MEASURED AT ONE-HALF FULL SCALE RATED PRESSURE USING BEST STRAIGHT LINE CURVE FIT.

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Note 2: Shift is relative to 25°C readings taken at 10°C and 50°C .

NOTE 4: THE VOLTAGE ADDED TO THE OFFSET VOLTAGE AT FULL SCALE PRESSURE.