### Pressure Sensor MPS20N0040D-S



This datasheet is provided by: e-radionica.com

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https://e-radionica.com/en/air-pressure-sensor-mps20n0040d-d.html

#### Introduction

Pressure range :0-5 .8 psi (40kpa);

**Product Features:** 

Solid, MEMS technology, high reliability

Low cost

Wide monitoring and control media

The application of a wide temperature range

Easy to use, choose from a variety of range. Easy to use, easy to install in OEM equipment

Application areas:

Automotive: tire pressure, car air pump, MAP sensor, diagnostic equipment, automotive sensors.

Industry: Air brake switch, portable pressure gauge, such as digital pressure gauge,

environmental monitoring, consumer and sports

Health care: patient monitoring and diagnostic equipment, such as blood pressure monitors,

medical instrumentation and monitoring

Range: 40kpa (differential pressure)

Output: mV signal

Electricity supply: 5VDC or constant current 1Ma

Linear accuracy: 0.25% FS

Measure the pressure range of 580 PSIG, 40KPaG

Max pressure capacity of three times the measuring range

Work power supply 5 VDC,

Input impedance of 4 - 6 K $\Omega$ 

The output impedance of 4 - 6 K $\Omega$ 

Operating temperature -40 - 85  $^{\circ}$  C -40  $^{\circ}$  F - +185  $^{\circ}$  F

Storage Temperature -40 - 125  $^{\circ}$  C -40  $^{\circ}$  the F - +257  $^{\circ}$  F

Accessible media, clean, dry, non-corrosive gases

Bias voltage  $\pm 25 \text{ mV}$ 

Full-scale output voltage 50 - 100 mV

Bridge Resistance to 4 - 6 K $\Omega$ 

Linearity  $\pm 0.3\%$  F.S.

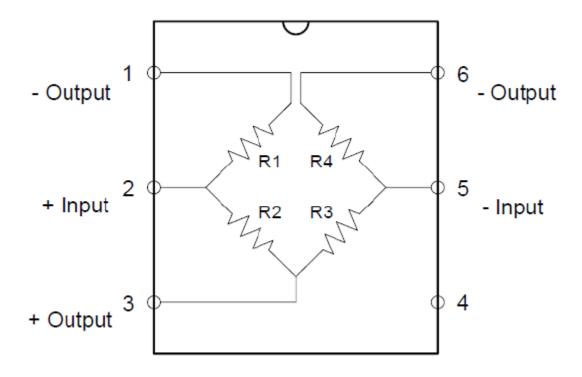
Hysteresis  $\pm$  0.7% F.S.

Bias Temperature coefficient  $\pm 0.08\%$  of F.S. / °c

Temperature coefficient of sensitivity -0.21 % FS/°c

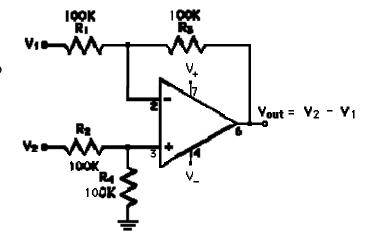
## Pressure Sensor MPS20N0040D-S

Circuit

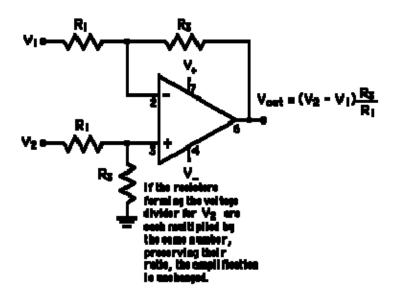


# **Difference Amplifier**

This amplifier uses both inverting and non-inverting inputs with a gain of one to produce an output equal to the difference between the inputs. It is a special case of the differential amplifier. You can also choose the resistances to amplify the difference.



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### Dimensions

