

PCB MOUNTED ANALOG PRESSURE SENSOR



MEAS | MEAS MS4525
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Sensors > Pressure Sensors > Board Level Pressure Sensors

The MS4525 is a small, ceramic based, PCB mounted pressure transducer.



Board Level Pressure Sensor Type: **Analog Pressure Sensor Modules**
Board Level Pressure Sensor Style: **Differential**
Output/Span: **10 - 90% Vdc**
Board Level Pressure Sensor Accuracy: **±0.25% Span**
Board Level Pressure Sensor Supply Voltage: **3.3 V**

The transducer is built using proprietary process and the latest CMOS sensor conditioning circuit to create a low cost, high performance transducer designed to meet the strictest requirements from OEM customers.

The MS4525 is fully calibrated and temperature compensated with a total error band (TEB) of less than 1.0% over the compensated range. The sensor operates from single supply of either 3.3 or 5.0Vdc and requires a single external component for proper operation. The rugged ceramic transducer is available in side port, top port, and manifold mount and can measure absolute, gage, differential, or compound pressure from 1 to 150psi. The 1/8" barbed pressure ports mate securely with 3/32" ID tubing.

BENEFITS

- PCB Mounted Pressure Transducers
- Amplified Ratiometric Analog Output
- Differential, Gage, Absolute, Compound, & Vacuum
- Temperature Compensated
- 3.3 or 5.0 Vdc Supply Voltage
- PSI Pressure Ranges
- High Level Analog Output
- Barbed Pressure Ports

Features

Product Type Features

Board Level Pressure Sensor Type	Analog Pressure Sensor Modules
Board Level Pressure Sensor Style	Differential

Electrical Characteristics

Board Level Pressure Sensor Supply Voltage (V)	3.3
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Dimensions

Dimensions (mm)	12.5 x 9.9
Dimensions (in)	.49 x .39

Usage Conditions

Operating Temperature Range (°C)	-10 - 85
Operating Temperature Range (°F)	14 - 185

Operation/Application

Interface Type	I2C (Addr.0x51H)
Pressure (psi)	1
Pressure (inH2O)	30
Output/Span	10 - 90% Vdc
Board Level Pressure Sensor Accuracy	±0.25% Span

Packaging Features

Board Level Pressure Sensor Package	8 pin DIL
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Other

Options	No Option
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Reference Number

TE Internal Number	CAT-BLPS0041
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SEE PRODUCTS ON NEXT PAGE



Products (1 of 1)



30IN DP PRESSURE SENSOR 10% TO 90%

1PSI DP PRESSURE SENSOR 10% TO 90%

TE Part #	4515-DS3A030DP	4525-DS3A001DP
Pressure	30 inH2O	1 psi
EU RoHS Directive 2011/65/EU	EU RoHS Compliant with Exemptions	EU RoHS Compliant
EU ELV Directive 2000/53/EC	EU ELV Compliant with Exemptions	EU ELV Compliant
Product Families	MEAS	MEAS
Series	MEAS MS4515	MEAS MS4525

*EU RoHS Directive 2011/65/EU

These products comply with the substance restrictions of the Restriction on Hazardous Substances Directive 2011/65/EU (RoHS2). The RoHS2 Directive requires that certain electrical and electronic equipment products do not contain mercury, cadmium, hexavalent chromium, PBB, PBDE, lead, DEHP, BBP, DBP and DIBP above defined thresholds. Products indicated as 'Compliant' do not contain any of these substances above the prohibition thresholds. Finished electrical and electronic equipment products will be CE marked as required by the Directive. Components may not be CE marked.

**EU ELV Directive 2000/53/EC

These products comply with the substance restrictions of the End of Life Vehicles Directive 2000/53/EC (ELV). The ELV Directive requires that materials and components of vehicles do not contain mercury, cadmium, hexavalent chromium, and lead above defined thresholds. Products indicated as 'Compliant' do not contain any of these substances above the prohibition thresholds.



Related Materials

Data Sheet

Data sheet

English

Specification Or Standard

MS45x5 Auto-Zero Function

English

Specification Or Standard

MS45xx Series Surface Models

English

Specification Or Standard

MS45xx Application Note

English

Zip File

MS5525DSO Series Surface Models

Also in the Series | MEAS MS4525



Board Level Pressure Sensors(12)