

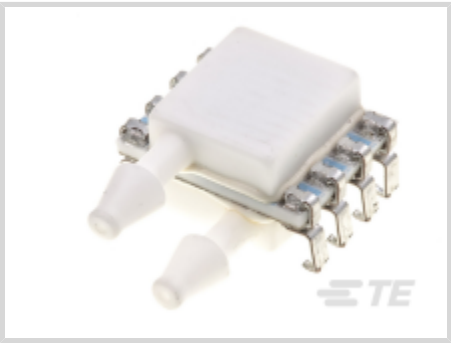
PCB MOUNTED ANALOG PRESSURE SENSOR



MEAS | MEAS MS4525
[View on TE.com >](#)

Sensors > Pressure Sensors > Board Mount Pressure Sensors

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



Pressure Sensor Type: **Analog Pressure Sensor Modules**
Pressure Type: **Compound**
Proof Pressure Range: **300 psi**
Output Signal Type: **10 - 90% Vdc**
Pressure Accuracy: **±0.25% Span**

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

Reference Number

TE Internal Number	CAT-BLPS0041
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Product Type Features

Sensor Package	8 pin DIL
Leg Style	J Style, Through Hole



Pressure Sensor Type	Analog Pressure Sensor Modules
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Pressure Type	Absolute, Compound, Differential, Gauge, Vacuum
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Electrical Characteristics

Supply Current (mA)	3
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Supply Voltage Range (V)	3.3, 5
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Dimensions

Product Height (mm)	4.4, 7.2, 8.2, 11.7, 11.95, 16, 19.5
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Product Height (in)	.173, .283, .322, .46, .47, .629, .767
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Product Length (mm)	12.7, 17.4
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Product Length (in)	.5, .685
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Product Width (mm)	9.9, 17.4, 20.3
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Product Width (in)	.389, .685, .799
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Usage Conditions

Pressure (bar)	.068, .344, 1.034, 2.068, 3.44, 6.89
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Pressure (psi)	1, 2, 5, 15, 30, 50, 100, 150
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Operating Temperature Range (°C)	-25 - 105
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Operating Temperature Range (°F)	-13 - 221
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Operation/Application

Output Interface	I ² C
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Proof Pressure Range	1 psi, 300 psi
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Output Signal Type	10 - 90% Vdc, 5 - 95% Vdc
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Pressure Accuracy	±0.25% Span
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Packaging Features

Sensor Port Configuration	Dual Sideport, Single Sideport, Top Port
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Other

Sensor Options	Gel Coating, No Option
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SEE PRODUCTS ON NEXT PAGE



Products (1 of 5)



PRESS XDCR, ANALOG, PSI RANGE



PRESS XDCR, ANALOG, PSI RANGE



PRESS XDCR, ANALOG, PSI RANGE



PRESS XDCR, ANALOG, PSI RANGE

TE Part #	4525-TP5A030CP	4525-DS5A002GP	4525-DS5B001DSF	4525-SS5A015AL
Pressure Type	Compound	Gauge	Differential	Absolute
Proof Pressure Range	300 psi	300 psi	300 psi	300 psi
Pressure	30 psi	2 psi	1 psi	1.034 bar
Output Signal Type	10 - 90% Vdc	10 - 90% Vdc	5 - 95% Vdc	10 - 90% Vdc
Supply Voltage Range	5 V	5 V	5 V	5 V
Sensor Options	No Option	No Option	Gel Coating	No Option
EU ELV Compliance				
EU RoHS Directive 2011/65 /EU	EU RoHS Compliant	EU RoHS Compliant	EU RoHS Compliant	EU RoHS Compliant
EU ELV Directive 2000/53/EC	Out of Scope for EU ELV	Out of Scope for EU ELV	Out of Scope for EU ELV	Out of Scope for EU ELV
Product Families	MEAS	MEAS	MEAS	MEAS
Series	MEAS MS4525	MEAS MS4525	MEAS MS4525	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

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Products (2 of 5)



PRESS XDCR, ANALOG, PSI RANGE



PRESS XDCR, ANALOG, PSI RANGE



PRESS XDCR, ANALOG, PSI RANGE



PRESS XDCR, ANALOG, PSI RANGE

TE Part #	4525-SS5B030AS	4525-DS3A100DP	4525-DS5A001DPF	4525-SS3A100AP
Pressure Type	Absolute	Differential	Differential	Absolute
Proof Pressure Range	300 psi	300 psi	300 psi	300 psi
Pressure	30 psi	100 psi	1 psi	100 psi
Output Signal Type	5 - 95% Vdc	10 - 90% Vdc	10 - 90% Vdc	10 - 90% Vdc
Supply Voltage Range	5 V	3.3 V	5 V	3.3 V
Sensor Options	No Option	No Option	Gel Coating	No Option
EU ELV Compliance				
EU RoHS Directive 2011/65 /EU	EU RoHS Compliant	EU RoHS Compliant	EU RoHS Compliant	EU RoHS Compliant
EU ELV Directive 2000/53/EC	EU ELV Compliant	Out of Scope for EU ELV	Out of Scope for EU ELV	Out of Scope for EU ELV
Product Families	MEAS	MEAS	MEAS	MEAS
Series	MEAS MS4525	MEAS MS4525	MEAS MS4525	MEAS MS4525

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Products (3 of 5)



PRESS XDCR, ANALOG, PSI RANGE



PRESS XDCR, ANALOG, PSI RANGE



PRESS XDCR, ANALOG, PSI RANGE



PRESS,XDCR,4525-TP5B030APF

TE Part #	4525-TP3A005GPF	4525-SS5B150AS	4525-TP5A150GP	20005831-01
Pressure Type	Gauge	Absolute	Gauge	Absolute
Proof Pressure Range	300 psi	300 psi	300 psi	300 psi
Pressure	5 psi	150 psi	150 psi	30 psi
Output Signal Type	10 - 90% Vdc	5 - 95% Vdc	10 - 90% Vdc	5 - 95% Vdc
Supply Voltage Range	3.3 V	5 V	5 V	5 V
Sensor Options	Gel Coating	No Option	No Option	Gel Coating
EU ELV Compliance				
EU RoHS Directive 2011/65 /EU	EU RoHS Compliant	EU RoHS Compliant	EU RoHS Compliant	EU RoHS Compliant
EU ELV Directive 2000/53/EC	Out of Scope for EU ELV	Out of Scope for EU ELV	Out of Scope for EU ELV	Out of Scope for EU ELV
Product Families	MEAS	MEAS	MEAS	MEAS
Series	MEAS MS4525	MEAS MS4525	MEAS MS4525	MEAS MS4525

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Products (4 of 5)



PRESS XDCR, ANALOG, PSI RANGE



PRESS XDCR, ANALOG, PSI RANGE



PRESS XDCR, ANALOG, PSI RANGE



PRESS XDCR, ANALOG, PSI RANGE

TE Part #	4525-DS5A005DSF	4525-SS5B050AS	4525-DS5A015DPF	4525-DS3B001GPF
Pressure Type	Differential	Absolute	Differential	Gauge
Proof Pressure Range	300 psi	300 psi	300 psi	300 psi
Pressure	5 psi	3.44 bar	15 psi	.068 bar
Output Signal Type	10 - 90% Vdc	5 - 95% Vdc	10 - 90% Vdc	5 - 95% Vdc
Supply Voltage Range	5 V	5 V	5 V	3.3 V
Sensor Options	Gel Coating	No Option	Gel Coating	Gel Coating
EU ELV Compliance				
EU RoHS Directive 2011/65 /EU	EU RoHS Compliant	EU RoHS Compliant	EU RoHS Compliant	EU RoHS Compliant
EU ELV Directive 2000/53/EC	Out of Scope for EU ELV	Out of Scope for EU ELV	Out of Scope for EU ELV	Out of Scope for EU ELV
Product Families	MEAS	MEAS	MEAS	MEAS
Series	MEAS MS4525	MEAS MS4525	MEAS MS4525	MEAS MS4525

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Products (5 of 5)



PRESS XDCR, ANALOG, PSI RANGE



PRESS XDCR, ANALOG, PSI RANGE



PRESS XDCR, ANALOG, PSI RANGE



PRESS XDCR, ANALOG, PSI RANGE

TE Part #	4525-DS5A001DP	4525-SS3A030APF	4525-DS3A015DP	4525-DS3A005DP
Pressure Type	Differential	Absolute	Differential	Differential
Proof Pressure Range	1 psi	300 psi	300 psi	300 psi
Pressure	.068 bar	30 psi	15 psi	.344 bar
Output Signal Type	10 - 90% Vdc	10 - 90% Vdc	10 - 90% Vdc	10 - 90% Vdc
Supply Voltage Range	5 V	3.3 V	3.3 V	3.3 V
Sensor Options	No Option	Gel Coating	No Option	No Option
EU ELV Compliance				
EU RoHS Directive 2011/65 /EU	EU RoHS Compliant	EU RoHS Compliant	EU RoHS Compliant	EU RoHS Compliant
EU ELV Directive 2000/53/EC	Out of Scope for EU ELV	Out of Scope for EU ELV	Out of Scope for EU ELV	Out of Scope for EU ELV
Product Families	MEAS	MEAS	MEAS	MEAS
Series	MEAS MS4525	MEAS MS4525	MEAS MS4525	MEAS MS4525

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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

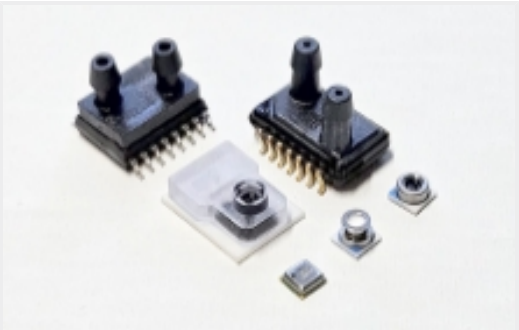
MS45xx Application Note

English

Zip File

MS5525DSO Series Surface Models

Also in the Series | MEAS MS4525



Board Mount Pressure Sensors(40)