



MEAS | SMI 5000

TE Internal #: 5231-BCE-S-010-000

Analog Pressure Sensor Modules / Digital Pressure and Altimeter Sensor Modules, Gauge, 1.45 psi, Output/Span 16 bit I2C, ±1.5% F.S / ±1% F.S, SMI 5000

[View on TE.com >](#)

Sensors > Pressure Sensors > Board Mount Pressure Sensors > Low Pressure Digital / Analog Sensor



Board Level Pressure Sensor Type: **Analog Pressure Sensor Modules, Digital Pressure and Altimeter Sensor Modules**

Board Level Pressure Sensor Style: **Gauge**

Proof Pressure Range: **15 psi**

Pressure: [ **1.45 psi** ]

Output/Span: **16 bit I2C**

[All Low Pressure Digital / Analog Sensor \(39\)](#)

## Features

### Product Type Features

Board Level Pressure Sensor Type	Analog Pressure Sensor Modules, Digital Pressure and Altimeter Sensor Modules
Board Level Pressure Sensor Style	Gauge

### Configuration Features

Tubes	Tube
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### Electrical Characteristics

Board Level Pressure Sensor Supply Voltage	3.3 – 5 V
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### Dimensions

Dimensions	10.26 x 10.31 mm [.40 x .41 in]
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### Usage Conditions

Operating Temperature Range	-40 – 105 °C [-40 – 221 °F]
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### Operation/Application

Output Interface	I2C
Proof Pressure Range	15 psi
	1.45 psi
Output/Span	16 bit I2C



Board Level Pressure Sensor Accuracy	$\pm 1\%$ F.S, $\pm 1.5\%$ F.S
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### Packaging Features

Package Style	Dual Vertical
Board Level Pressure Sensor Package	SOIC-16

### Other

Sensor Options	Dual Output
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### Product Compliance

[For compliance documentation, visit the product page on TE.com>](#)

EU RoHS Directive 2011/65/EU	Compliant
EU ELV Directive 2000/53/EC	Not Yet Reviewed
China RoHS 2 Directive MIIT Order No 32, 2016	No Restricted Materials Above Threshold
EU REACH Regulation (EC) No. 1907/2006	Current ECHA Candidate List: JUNE 2023 (235) Candidate List Declared Against: JUL 2021 (219) Does not contain REACH SVHC
Halogen Content	Not Yet Reviewed for halogen content
Solder Process Capability	Not reviewed for solder process capability

#### Product Compliance Disclaimer

This information is provided based on reasonable inquiry of our suppliers and represents our current actual knowledge based on the information they provided. This information is subject to change. The part numbers that TE has identified as EU RoHS compliant have a maximum concentration of 0.1% by weight in homogenous materials for lead, hexavalent chromium, mercury, PBB, PBDE, DBP, BBP, DEHP, DIBP, and 0.01% for cadmium, or qualify for an exemption to these limits as defined in the Annexes of Directive 2011/65/EU (RoHS2). Finished electrical and electronic equipment products will be CE marked as required by Directive 2011/65/EU. Components may not be CE marked. Additionally, the part numbers that TE has identified as EU ELV compliant have a maximum concentration of 0.1% by weight in homogenous materials for lead, hexavalent chromium, and mercury, and 0.01% for cadmium, or qualify for an exemption to these limits as defined in the Annexes of Directive 2000/53/EC (ELV). Regarding the REACH Regulation, the information TE provides on SVHC in articles for this part number is based on the latest European Chemicals Agency (ECHA) 'Guidance on requirements for substances in articles' posted at this URL: <https://echa.europa.eu/guidance-documents/guidance-on-reach>

Also in the Series | [SMI 5000](#)



Board Mount Pressure Sensors(12)

## Customers Also Bought



TE Part #5391-BCE-S-100-000  
100 cmH2O Differential Sensor



TE Part #HPP845E131R1  
HTU21DF RH/T SENSOR IC B1500

## Documents

### CAD Files

Customer View Model

[ENG\\_CVM\\_CVM\\_5231-BCE-S-010-000\\_1.2d\\_dxf.zip](#)

English

Customer View Model

[ENG\\_CVM\\_CVM\\_5231-BCE-S-010-000\\_1.3d\\_stp.zip](#)

English

Customer View Model

[ENG\\_CVM\\_CVM\\_5231-BCE-S-010-000\\_1.3d\\_igs.zip](#)

English

### 3D PDF

3D

By downloading the CAD file I accept and agree to the [Terms and Conditions](#) of use.

### Datasheets & Catalog Pages

[SM7000SM6000SM5000](#)

English