

# DATASHEET

## SPD100GA Pressure Sensor

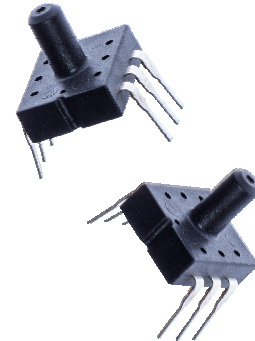
last update  
October 4, 2016

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This Smartec pressure sensor has an amplified analogue output. The sensor is compensated for offset, sensitivity, temperature drift and nonlinearity.

The sensor is available in the range from 5 to 100 psi. Other ranges on request. Available in Gauge and Absolute type. The output is ratiometric to the power supply voltage. @ 5 V power voltage the output span is 0.5 to 4.5 V. The SPD analogue series can be considered as an "analogue" successor of the SPD series



### Electrical Characteristics

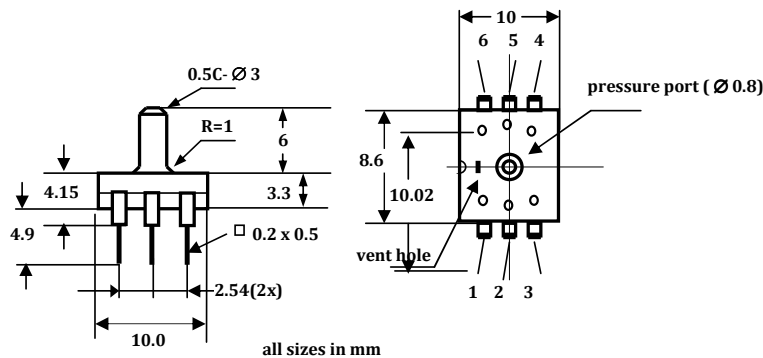
Performance Characteristic at Vcc =5V excitation @ 25 °C

| Parameter             | Min   | Typ  | Max   | Units |
|-----------------------|-------|------|-------|-------|
| Supply Voltage        | 4.7   | 5    | 5.5   | V     |
| Supply Current        |       |      | 3     | mA    |
| Pressure range (fs)   | 0     |      | 100   | psi   |
| Zero Output *)        | 0.428 | 0.5  | 0.572 | Vdc   |
| Span Output *)        |       | 4.00 |       | Vdc   |
| Max output current    |       |      | 2.2   | mA    |
| Accuracy **)          |       |      | ±1.8  | %FS   |
| Response time         |       | 25   |       | ms    |
| Pressure overload     |       |      | 3x    | psi   |
| Operating temperature | -20   |      | 85    | °C    |
| Storage temperature   | -40   |      | 125   | °C    |

Wetted materials are: Pyrex Glass, Epoxy and silicon

\*) Output is ratiometric to supply voltage

\*\*) all errors included, temperature compensation over 50 °C



#### Pin Description

|   |      |
|---|------|
| 1 | N.C. |
| 2 | N.C. |
| 3 | Gnd  |
| 4 | Vcc  |
| 5 | Out  |
| 6 | N.C. |

Do NOT connect NC pins  
Apply 100nF between Vcc and Gnd.



## We are here for you. Addresses and Contacts.

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