Pressure sensor type SPD102DAhyb

Version : 0.2 File: SPD102DAhyb



## SPECIAL LOW PRESSURE RANGE DIFFERENTIAL SENSOR WITH ANALOGUE OUTPUT

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

The sensor has a range of 102 mm  $H_2O$  FS and the output is ratiometric to the power supply voltage. Other pressure ranges on request (0.3 – 100 PSI).



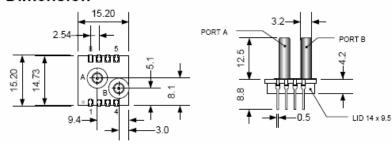
## **Electrical Characteristics**

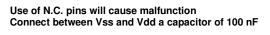
Performance Characteristic at Vcc =5V excitation @ 25 °C.

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Parameter	Min	Тур	Max	Units.
Supply Voltage	4.75	5.00	5.25	V
Supply Current	-		2.0	mA
Pressure range (fs)		±102		mmH2O
Zero Output (Dif)	2.45	2.50	2.55	Vdc
Span Output (Dif)	1.95	2.00	2.05	Vdc
Response time		25		ms
Linearity	-2.5		+2.5	%FS
Thermal Hysteresis	-0.1		+0.1	%FS
Temp coeff. Offset	-2.5		+2.5	%FS
Temp coeff. Span	-2		+2	%FS
Pressure overload			10X	rating
Temp compensation	0		50	°C
Operating Temp range	-20		70	•c
Storage temperature	-40		125	°C

It is advised to place a 100nF capacitor between Vcc and Gnd Wetted materials are: Pyrex glass, RTV, Ceramic, Nickel and Silicon The output is ratiometric to Vcc

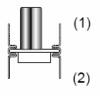
## Dimension





Pin Description
1 NC
2 Gnd
3 Out
4 Vcc

NC



## NOTE:

- Port A is used for positive differential
   Port A is not used for absolute
- Port A is not used for absolute
   Port B is not used for gage
- 4. All dimension in mm

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