

SPECIAL LOW PRESSURE RANGE SENSOR WITH COMPENSATED OUTPUT: SPD002GAsil

This Smartec pressure sensor has an amplified analogue output. Via internal settings the sensor is compensated for offset, sensitivity, temperature drift and nonlinearity. The sensor has a range of 2 PSI FS and the output is ratiometric to the power supply voltage. Other pressure ranges (from 0.3 to 100 psi) on request.

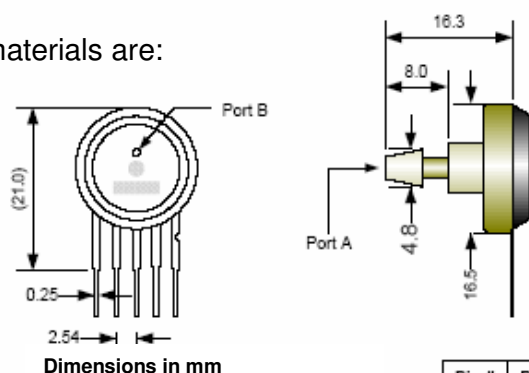


Electrical Characteristics

Performance characteristic @ Vcc = 5 V and 25 °C.

Parameter	Min	Typ	Max	Units.
Supply Voltage	2.7	5	5.25	V
Supply Current		-	2.0	mA
Pressure range	0		2	psi
Zero Output	0.15	0.2	0.25	Vdc
Span Output(ratiometric)		4.6		Vdc
Accuracy			1.5	%FS/100°C
Linearity		±1.0		%FS
Response time		5		ms
Pressure overload			10	psi
Operating temperature	-20		85	°C
Storage temperature	-40		125	°C

Wetted materials are:



Pin #	Description
1	N.C.
2	Vdd.
3	Output
4	Vss
5	N.C.