

## DIFFERENTIAL PRESSURE SENSOR WITH COMPENSATED ANALOGUE OUTPUT: SPD010SA*sil*UBS

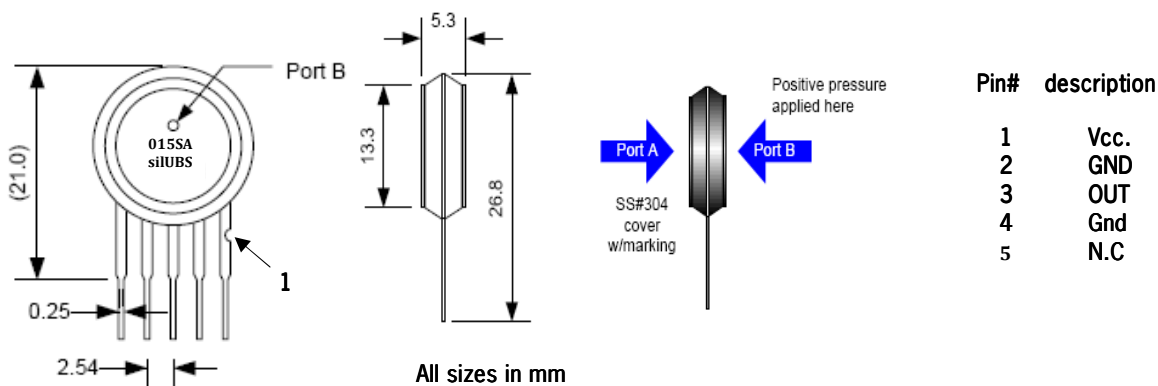
This Smartec pressure sensor has an amplified analogue output. The sensor is compensated for offset, sensitivity, temperature drift and nonlinearity. The sensor is calibrated @ 7.25 PSI. The output is ratiometric to the power supply voltage.



### Electrical Characteristics

Parameter	Min	Typ	Max	Units.
Supply Voltage	4.75	5.00	5.25	V
Supply Current	-	2,5		mA
Pressure range (fs)	0		15	psi
Zero Output (0 psi)	0,119	0,2	0,281	Vdc
Full scale output (@ 7.25 PSI)		4,7		Vdc
Accuracy			1,8	%FS
Linearity	-0,5		0,5	%FS
Thermal Hysteresis	-0,15		0,15	%FS
response time		1	2	ms
Overpressure			3x	Rated pressure
Temp compensation	0		50	°C
Operating Temp range	-20		70	°C
Storage temperature	-40		125	°C

- Accuracy includes all errors ( 0 - 50 °C)
- Wetted material contains RTV, PPA, glass and silicon



Pin#	description
1	Vcc.
2	GND
3	OUT
4	Gnd
5	N.C

All sizes in mm

Use of N.C. pins will cause malfunction

Connect between Vcc and Gnd a capacitor of 100 nF

