

# DATASHEET

## SPD010SA*sil*UBS Pressure Sensor

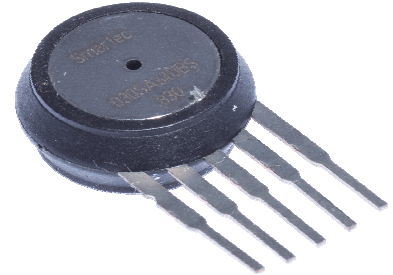
last update  
October 4, 2016

reference  
spd010sasilubs n

page  
1/1

### DIFFERENTIAL PRESSURE SENSOR WITH COMPENSATED ANALOGUE OUTPUT

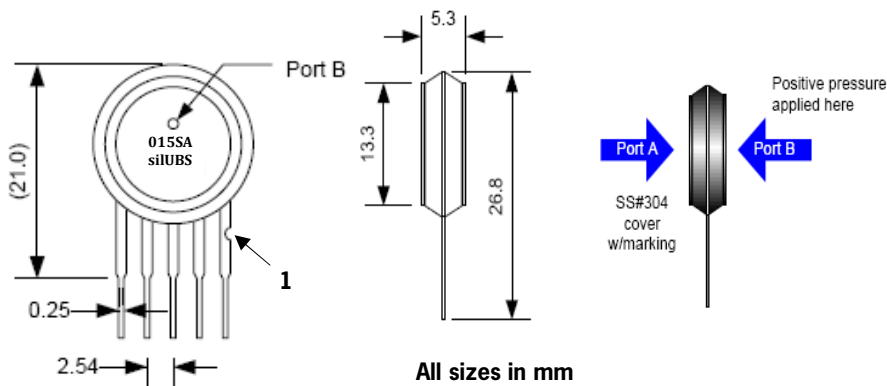
This Smartec pressure sensor has an amplified analogue output. The sensor is compensated for offset, sensitivity, temperature drift and nonlinearity. The sensor is calibrated @ 7.25 PSI. The output is ratiometric to the power supply voltage.



### 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