

Sub-Miniature Pressure Sensor



The PST100 series is a miniature pressure sensor. Operating from -40 up to +125°C, three compensated temperature ranges are available to best suit your application's environment. Its wetted parts being stainless steel, it is compatible with most media, including corrosive fluids used in automotive and aerospace industries. High performances and stability over temperature are achieved thanks to EFE proprietary sensing technologies. The robust and proven design of the sensor ensures reliability in your application. The PST100 series is available with unamplified (mV/V) and amplified voltage output (0,5-4,5Vdc), integrating a high performance and ruggedized electronic module.

Technical specifications		
Pressure ranges (FS)	-1/+4bar ; -1/+9bar ;	
	5bar ; 10bar ; 20bar ; 40bar ; 70bar ; 250bar ;	
	-14.5/+60PSI; -14.5/+140PSI;	
	70PSI; 150PSI; 300PSI; 500PSI; 1000PSI; 3000PSI	
Туре	Absolute ; Gage	
Type (for ranges > 40 bar)	Sealed Gage	
Safe overload	150% FS	
Burst pressure	300% FS	
Power supply	5Vdc ± 10mV	
Consumption	< 10mA	
Insulation	> 1000 MOhms under 50Vdc at ambient temperature	
Output at -100%FS (only for ± range)	0.5Vdc	
Output at 0%FS (except ranges ±)	0.5Vdc	
Output at 100%FS	4.5Vdc	
Zero and sensitivity settings tolerances	±50mV	

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PST103 Specifications are subject to change without notice

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Technical Specifications

Non linearity and hysteresis combined ±0.25% FS typical (±0.35% FS max.)

Non repeatability ±0.02% FS typ.

Signal bandwidth 1000Hz @ -3dB

Option : Special Adjustment up to 3000Hz @ -3dB

Compensated temperature range 0 to +60°C

Option : -25 to +85°C ; -25 to +125°C

Operating temperature range -40 to +125°C

Combined thermal zero & sensitivity shifts ±0.02% FS/°C

Constant acceleration in linear vibrations ± 0.02% FS/g (frequency 20-2000Hz, 50g max.)

Mechanical shock 100g ½ sinus 1ms

Electrical protection Not protected against polarity inversion

EMC protection Compliant to EN61000

Electrical connection AWG26, Viton Jacketed Shielded Cable Ø3mm, 4 wires

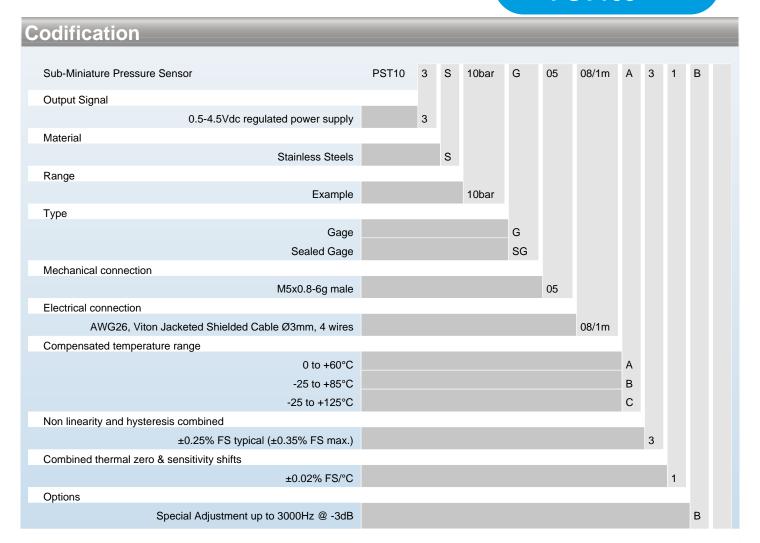
Mechanical connection M5x0.8-6g male

Material(s) of wetted parts Steel 316L; Stainless Steel 17-4PH; Stainless steel 15-5PH

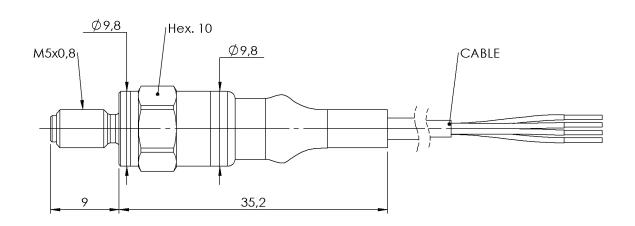
Weight 10g without cable

Enclosure protection IP65 for absolute & sealed gage version

PST103



Dimensions PST103

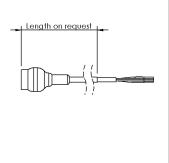




DIMENSIONS: mm



#26 AWG, 4 CONDUCTOR SHIELDED VITON CABLE		
VOLTAGE OUTPUT	CONDUCTOR	
+ EXCITATION	RED	
+ SIGNAL	GREEN / YELLOW	
NC	WHITE	
0 VOLT	BLUE / BLACK	
SENSOR HOUSING	SHIELD	





E.F.E.

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