

## **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	
Output impedance	> 3000 Ohms typ.	
Input impedance	> 3500 Ohms typ.	
Power supply	5 to 15Vdc	
Consumption	< 10mA	
Insulation	> 1000 MOhms under 50Vdc at ambient temperature	
Output at -100%FS (only for ± range)	Proportional to +100%FS	
Output at 0%FS	0mV/V	

## **Technical Specifications**

Output at 100%FS 1.5mV/V nom.

Zero and sensitivity settings tolerances ±3% FS

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

Non repeatability ±0.02% FS typ.

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

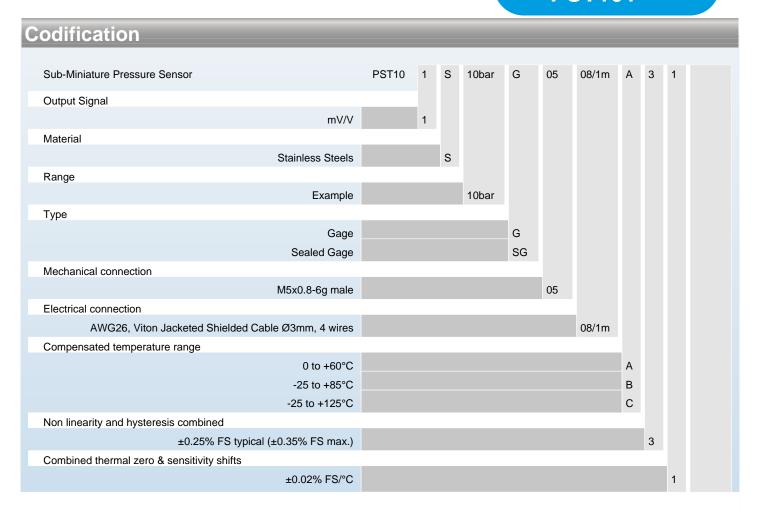
Mechanical connection M5x0.8-6g male

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

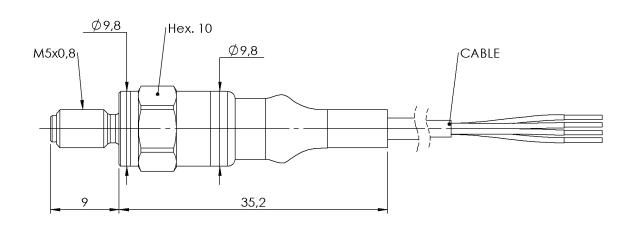
Weight 10g without cable

Enclosure protection IP65 for absolute & sealed gage version

**PST101** 



Dimensions PST101





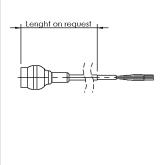
DIMENSIONS: mm



#26 AWG, 4 CONDUCTOR SHIELDED VITON CABLE		
mV/V OUTPUT	CONDUCTOR	
+ EXCITATION	RED	
+ SIGNAL	GREEN / YELLOW	
- SIGNAL	WHITE	
- EXCITATION	BLUE / BLACK	

SHIELD

SENSOR HOUSING





E.F.E.

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