

Miniature Pressure Sensor

PST127



The PST120 series is a miniature pressure sensor. Operating from -40 up to $+125^{\circ}$ C, three compensated temperature ranges are available to best suit your application's environment. Its wetted parts being all titanium, 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 PST120 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 ;				
	3bar ; 5bar ; 10bar ; 20bar ; 40bar ; 100bar ; 250bar ; 400bar ;				
	-14.5/+60PSI ; -14.5/+140PSI ;				
	40PSI ; 70PSI ; 150PSI ; 300PSI ; 500PSI ; 1500PSI ; 3000PSI ; 5000PSI				
Туре	Absolute ; Gage				
Type (for ranges > 40 bar)	Sealed Gage				
Safe overload	150% FS				
Burst pressure	300% FS				
Power supply	8 to 16Vdc				
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				

PST127

Technical Specifications

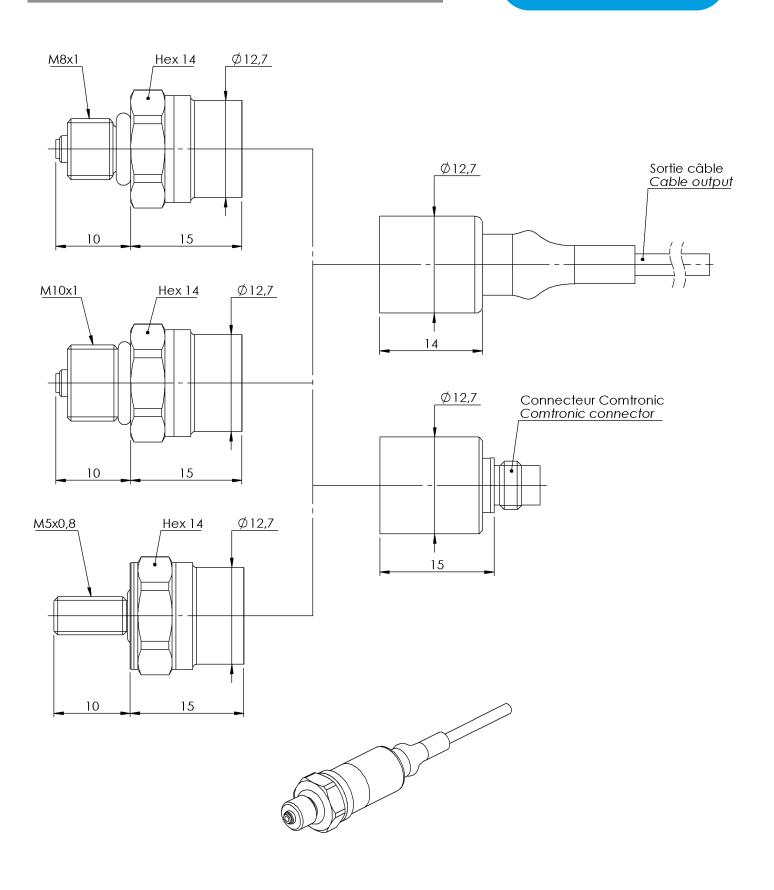
Non linearity and hysteresis combined	±0.25% FS				
	Option : ±0.1% FS				
Non repeatability	±0.02% FS typ.				
Signal bandwidth	1000Hz @ -3dB				
	Option : Special Adjustment up to 3000Hz @ -3dB				
Compensated temperature range	0 to +60°C				
	Option : -25 to +85°C ; -25 to +125°C				
Operating temperature 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	Protected against polarity inversion				
EMC protection	Compliant to EN61000				
Electrical connection	AWG26, Viton Jacketed Shielded Cable Ø3mm, 4 wires				
	Option : Microtech Hermetic Receptable DR-4S-4H, 4 pins (stainles steel)				
Mechanical connection	M10x1-4h male ; M5x0.8-6g male				
	Option : M8x1-6g male				
Material(s) of wetted parts	Stainless Steel 316L ; Stainless Steel 17-4PH ; Stainless steel 15-5PH				
Weight	10g without cable				
Enclosure protection	IP65 for absolute & sealed gage version				

PST127

Codification

Miniature Pressure Sensor	PST12	7	S	10bar	А	02	08/1m	А	1	1	В
Output Signal											
0.5-4.5Vdc unregulated power supply		7									
Material											
Stainless Steels			s								
Range											
Example				10bar							
Туре											
Absolute					А						
Gage					G						
Sealed Gage					SG						
Mechanical connection											
M10x1-4h male						02					
M8x1-6g male						03					
M5x0.8-6g male						05					
Electrical connection											
AWG26, Viton Jacketed Shielded Cable Ø3mm, 4 wires							08/1m				
Microtech Hermetic Receptable DR-4S-4H, 4 pins (stainles steel)							22				
Compensated temperature range											
0 to +60°C								A			
-25 to +85°C								В			
-25 to +125°C								С			
Non linearity and hysteresis combined											
±0.25% FS									1		
±0.1% FS									2		
Combined thermal zero & sensitivity shifts ±0.02% FS/°C										1	
±0.02% FS/*C										1	
Special Adjustment up to 3000Hz @ -3dB											в
Special Aujustitient up to 5000112 @ -50b											

Dimensions



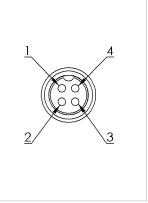
Dimensions : mm



	#26 AWG, 4 CONDUCT		
	VOLTAGE OUTPUT	CONDUCTOR	Length on request
	+ EXCITATION	RED	
	+ SIGNAL	GREEN / YELLOW	
	NC	WHITE	. ,
•	0 VOLT	BLUE / BLACK	
	SENSOR HOUSING	SHIELD	

CONNECTOR HOUSING

	MICROTECH DR-4S-4H - 4 PINS				
_	VOLTAGE OUTPUT	PIN			
	+ EXCITATION	PIN 1			
	NC	PIN 4			
	0 VOLT	PIN 2			
	+ SIGNAL	PIN 3			
	SENSOR HOUSING	CONNECTOR HOUS			



Agent :



E.F.E. L'ESSOR FRANCAIS ELECTRONIQUE 16 Rue Porte a Bateaux - 27540 Ivry-la-Bataille - FRANCE Tel : 33 (0)2 32 22 35 05 - Fax : 33 (0)2 32 36 93 08 www.efe-sensor.com - infos@efe-sensor.com