Miniature Pressure Sensor

PST121



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 specification	IS
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
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

PST121

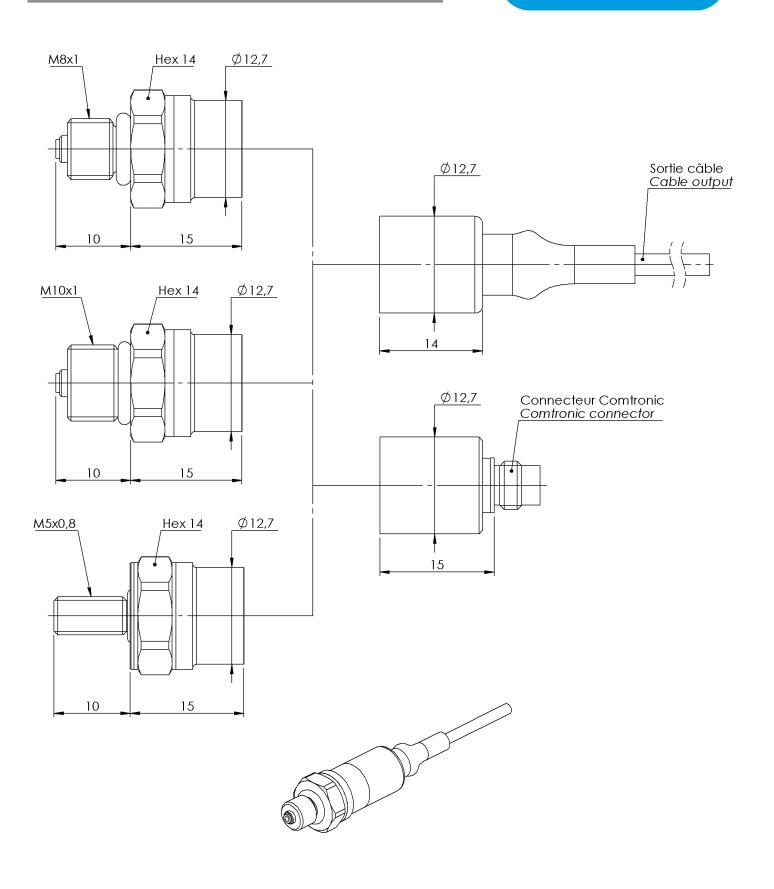
Technical Specifications

Output at 100%FS	1.5mV/V
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	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

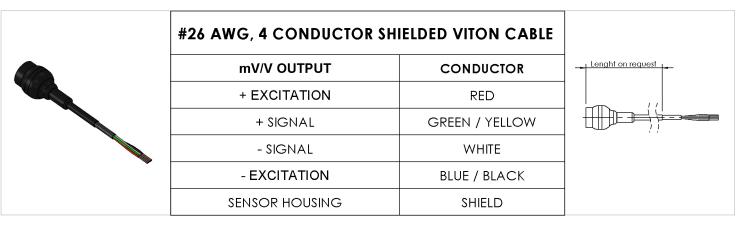
PST121

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Codification										
Miniature Pressure Sensor	PST12	1	S	10bar	A	02	08/1m	A	3	1
Output Signal										
mV/V		1								
Material										
Stainless Steels			s							
Range										
Example				10bar						
Туре										
Absolute					A					
Gage					G					
Sealed Gage					SG					
Mechanical connection						00				
M10x1-4h male						02 03				
M8x1-6g male M5x0.8-6g male						05				
Electrical connection						05				
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								А		
-25 to +85°C								в		
-25 to +125°C								С		
Non linearity and hysteresis combined										
±0.25% FS typical (±0.35% FS max.)									3	
Combined thermal zero & sensitivity shifts										
±0.02% FS/°C										1

Dimensions



Dimensions : mm



	MICROTECH D					
_	mV/V OUTPUT	PIN				
	+ EXCITATION	PIN 1				
	+ SIGNAL	PIN 4				
	- SIGNAL	PIN 2				
	- EXCITATION	PIN 3				
	SENSOR HOUSING	CONNECTOR HOUSING				

Agent :



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