

Sub-Miniature Pressure Sensor



The PST860 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 PST860 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/+50PSI; -14.5/+140PSI; 70PSI; 150PSI; 300PSI; 500PSI; 1000PSI; 3000PSI Absolute; Gage Type Type (for ranges > 40 bar) Sealed Gage 150% FS Safe overload 300% FS Burst pressure > 3000 Ohms typ. Output impedance 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 0mV/V Output at 0%FS

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 AWG32 4 wires Ø1.6mm Shielded Teflon Cable & Polyolefine Sleeve

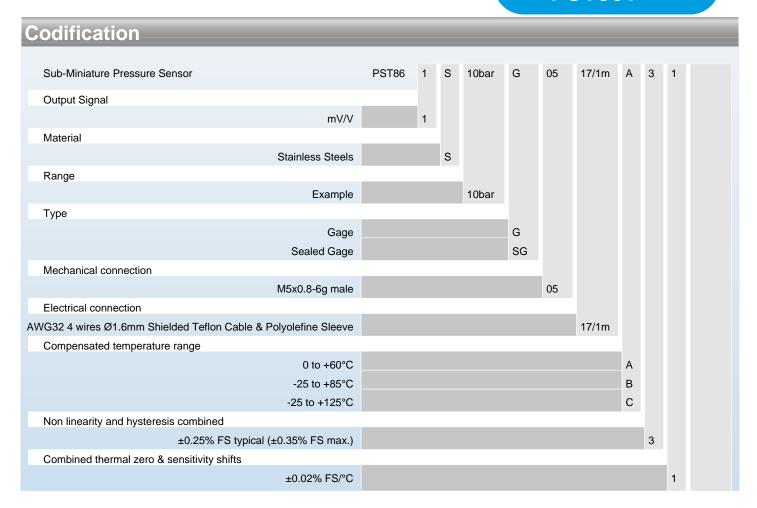
Mechanical connection M5x0.8-6g male

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

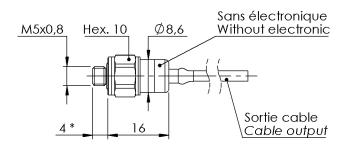
Weight 3g without cable

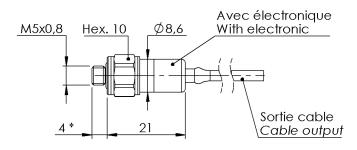
Enclosure protection IP65 for sealed gage version

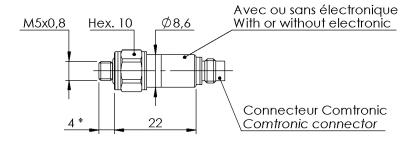
PST861



Dimensions PST861







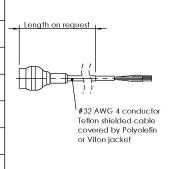
* Option filetage allongé 10 mm 10 mm lengthened thread option



DIMENSIONS: mm



4 CONDUCTOR TEFLON CABLE	
mV/V OUTPUT	CONDUCTOR
+ EXCITATION	RED
+ SIGNAL	GREEN
- SIGNAL	WHITE
- EXCITATION	BLACK
SENSOR HOUSING	SHIELD





E.F.E.

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