

Sub Miniature Pressure Transducer for High Temperature



Features

- ➔ Available with 0,5-4,5Vdc output
- ➔ Ultra light sensor : 3 grams
- ➔ Operating from -40 to +175°C
- ➔ Large Bandwidth

Applications

- ➔ Automotive - on vehicle
- ➔ Aerospace
- ➔ Test benches
- ➔ Instrumentation

Operating from -40 up to +175°C, the PHT860 series is dedicated to high temperature pressure measurements. With stainless steel wetted parts, it is compatible with most media, including corrosive fluids used in automotive, aerospace and energy industries. Equipped with the premium thin film technology developed by EFE, its performances and stability over wide temperature range are excellent. The PHT860 is available with unamplified output (mV/V), compensated in temperature to deliver the best accuracy. Amplified output (Vdc) is also standard, thanks to a high performance and ruggedized built-in electronic module.

Technical specifications

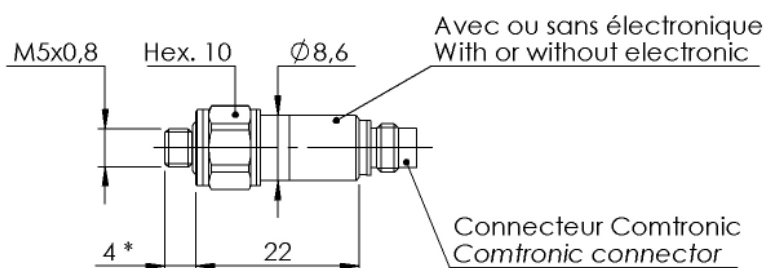
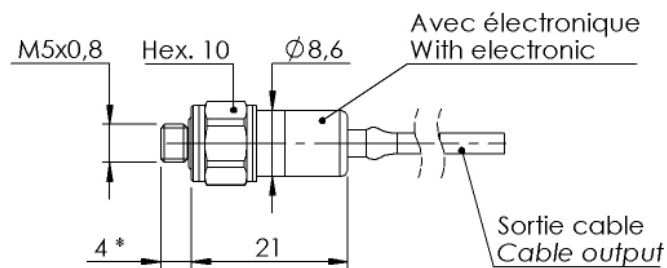
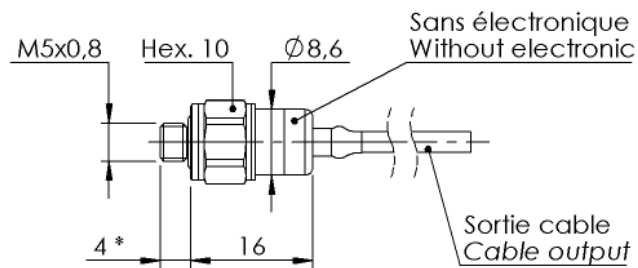
Pressure ranges (FS)	-1/+4bar ; -1/+9bar ; 5bar ; 10bar ; 20bar ; 40bar ; 70bar ; 250bar ; -14.5/+60PSI ; -14.5/+140PSI ; 70PSI ; 150PSI ; 300PSI ; 500PSI ; 1000PSI ; 3000PSI
Type	Absolute ; Gage
Type (for ranges > 40 bar)	Sealed Gage
Safe overload	150% FS
Burst pressure	300% FS
Power supply	5Vdc \pm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

Technical Specifications

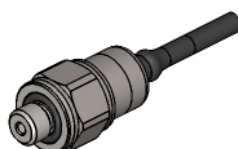
Non linearity and hysteresis combined	±0.25% FS typical (±0.35% FS max.)
Non repeatability	±0.02% FS typ.
Signal bandwidth	1000Hz @ -3dB Option : Special Adjustment up to 3000Hz @ -3dB
Compensated temperature range	-30 to +150°C Option : 0 to +175°C
Operating temperature range	-40 to +150°C (-40 to +175°C if optional compensation up to 175°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 and Viton sleeve
Mechanical connection	M5x0.8-6g male
Material(s) of wetted parts	Stainless Steel 316L ; Stainless Steel 17-4PH ; Stainless steel 15-5PH
Weight	3g without cable
Enclosure protection	IP65 for sealed gage version

Codification


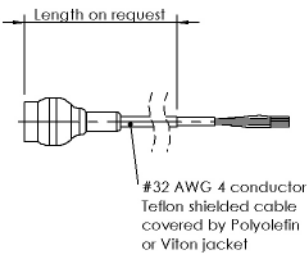
Sub Miniature Pressure Transducer for High Temperature	PHT86	3	S	10bar	G	05	18/1m	F	3	1	B	
Output Signal												
0.5-4.5Vdc regulated power supply		3										
Material												
Stainless Steels			S									
Range												
Example				10bar								
Type												
Gage					G							
Sealed Gage					SG							
Mechanical connection												
M5x0.8-6g male						05						
Electrical connection												
AWG32, 4 wires Ø1.6mm shielded Teflon cable and Viton sleeve							18/1m					
Compensated temperature range												
-30 to +150°C								F				
0 to +175°C								G				
Non linearity and hysteresis combined												
±0.25% FS typical (±0.35% FS max.)									3			
Combined thermal zero & sensitivity shifts												
±0.02% FS/°C										1		
Options												
Special Adjustment up to 3000Hz @ -3dB											B	



* Option filetage allongé 10 mm
10 mm lengthened thread option



DIMENSIONS : mm

	4 CONDUCTOR TEFLON CABLE		
	VOLTAGE OUTPUT	CONDUCTOR	
	+ EXCITATION	RED	
	+ SIGNAL	GREEN	
	0 VOLT	BLACK	
	NC	WHITE	
	SENSOR HOUSING	SHIELD	

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.efc-sensor.com - infos@efc-sensor.com