

# Sub Miniature Pressure Transducer for High Temperature



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			
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			

www.efe-sensor.com

PHT867 Specifications are subject to change without notice

Revision 11125 page 1/5

Questi prodotti sono distribuiti e supportati in Italia da:



## **PHT867**

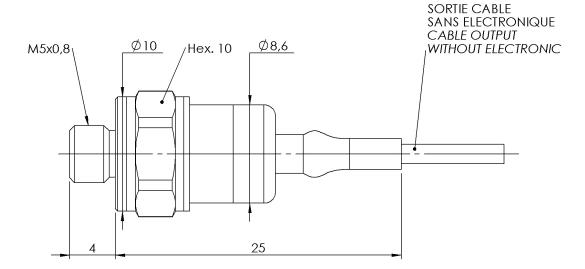
#### Technical Specifications

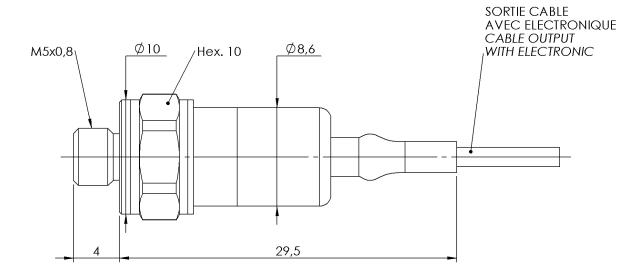
Non linearity and hysteresis combined	±0.25% FS typical (±0.35% FS max.)				
Non repeatability	±0.02% FS typ.				
Signal bandwidth	1000Hz @ -3dB				
	Option : Special Adjustment up to 3000Hz @ -3dB				
Compensated temperature range	-30 to +150°C				
	Option : 0 to +175°C				
Operating temperature range	-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				

## **PHT867**

## Codification

Output Signal		F	3	1	В
0.5-4.5Vdc unregulated power supply 7					
Material					
Stainless Steels S					
Range					
Example 10bar					
Туре					
Gage Gage					
Sealed Gage SG 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					В







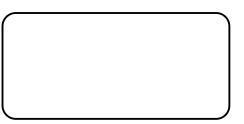
DIMENSIONS : mm

### **PHT867**

	4 CONDUCTOR TE		
	VOLTAGE OUTPUT	CONDUCTOR	Length on request
	+ EXCITATION	RED	
	+ SIGNAL	GREEN	
	0 VOLT	BLACK	#32 AWG 4 conduc Teflon shielded cab
•	NC	WHITE	covered by Polyole or Viton jacket
	SENSOR HOUSING	SHIELD	



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 Agent :



www.efe-sensor.com

PHT867 Specifications are subject to change without notice

Revision 11125 page 5 / 5

Questi prodotti sono distribuiti e supportati in Italia da:



Instrumentation Devices Srl Via Acquanera 29 - 22100 COMO (Italy) ph +39 031 525 391- fax +39 031 507 984 info@instrumentation.it - www.instrumentation.it