

# 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			

### **PHT867**

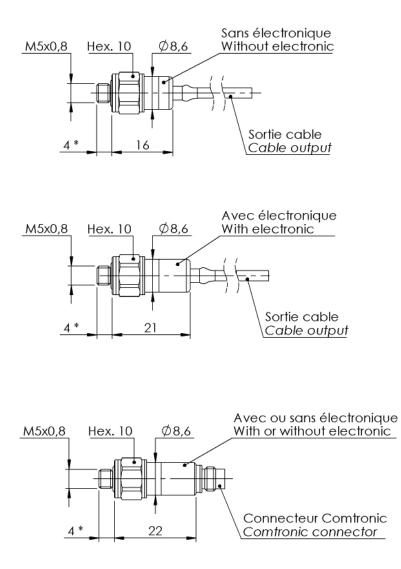
#### Technical Specifications

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

	7	S	10bar	G	05	18/1m	F	3	1	В
al										
0.5-4.5Vdc unregulated power supply	7									
Stainless Steels		s								
Example			10bar							
Gage				G						
Sealed Gage				SG						
connection										
M5x0.8-6g male					05					
nnection										
vires Ø1.6mm shielded Teflon cable and Viton sleeve						18/1m				
d temperature range										
-30 to +150°C							F			
0 to +175°C							G			
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±0.25% FS typical (±0.35% FS max.)								3		
ermal zero & sensitivity shifts										
±0.02% FS/°C									1	
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Special Adjustment up to 3000Hz @ -3dB										В



\* Option filetage allongé 10 mm 10 mm lengthened thread option



DIMENSIONS : mm

#### **PHT867**

	4 CONDUCTOR TE		
	VOLTAGE OUTPUT	CONDUCTOR	Length on request
A COLORING COLORING	+ EXCITATION	RED	
	+ SIGNAL	GREEN	
	0 VOLT	BLACK	#32 AWG 4 conductor Teflon shielded cable
Ť	NC	WHITE	covered by Polyolefin or Viton jacket
	SENSOR HOUSING	SHIELD	

Agent :



E.F.E. L'ESSOR FRANCAIS ELECTRONIQUE 16 Rue Porte a Bateaux - 27540 lvry-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