

Sub Miniature Pressure Transducer for High Temperature



Features	Applications
Available with 0,5-4,5Vdc output	Automotive - on vehicule
Designed for harsh environment	Oil & gas
Operating from -40 to +175°C	Energy / Nuclear
Ultra light : < 5 grams	Motorsport

Operating from -40 up to +175°C, the PHT100 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 PHT100 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/+5bar ;		
	5bar ; 10bar ; 20bar ; 40bar ; 70bar ; 250bar ;		
	-14.5/+60PSI ; -14.5/+70PSI ;		
	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

PHT107 Specifications are subject to change without notice

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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 up to 150°C AWG26, Viton Jacketed Shielded Cable Ø3mm, 4 wires

Electrical connection above 150°C AWG26 Shielded Teflon Cable Ø3.4mm ±0.2, 5 wires

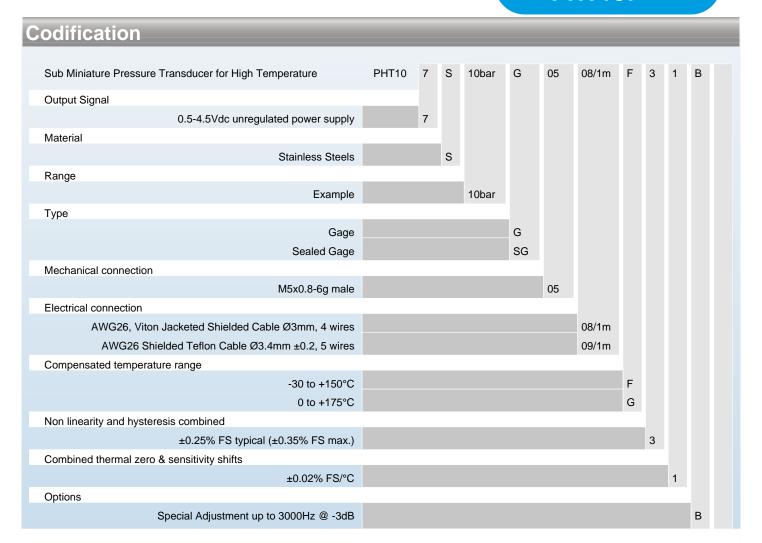
Mechanical connection M5x0.8-6g male

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

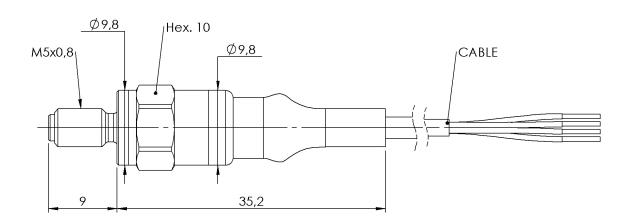
Weight < 5g without cable

Enclosure protection IP65 for absolute & sealed gage version

PHT107



Dimensions PHT107

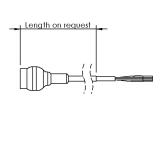




DIMENSIONS: mm

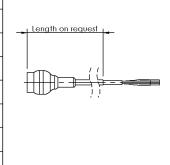


#26 AWG, 4 CONDUCTOR SHIELDED VITON CABLE		
VOLTAGE OUTPUT	CONDUCTOR	
+ EXCITATION	RED	
+ SIGNAL	GREEN / YELLOW	
NC	WHITE	
0 VOLT	BLUE / BLACK	
SENSOR HOUSING	SHIELD	





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





E.F.E.

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