

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	
Output impedance	> 3000 Ohms typ.	
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	
Output at 0%FS	0mV/V	

www.efe-sensor.com

PHT101 Specifications are subject to change without notice

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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 -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

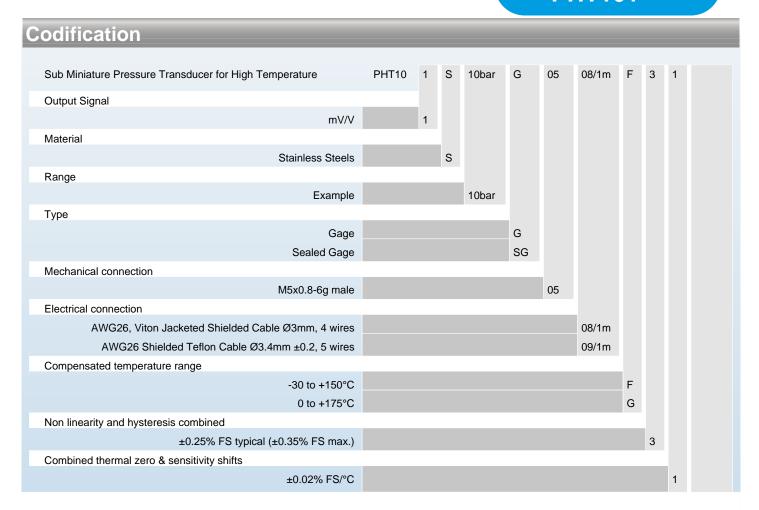
Mechanical connection M5x0.8-6g male

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

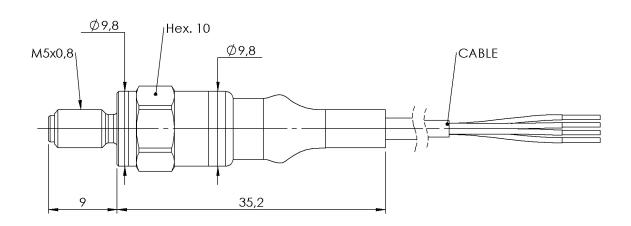
Weight < 5g without cable

Enclosure protection IP65 for absolute & sealed gage version

PHT10



Dimensions PHT101

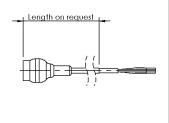




DIMENSIONS: mm

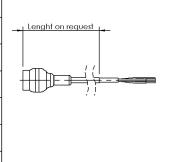


5 CONDUCTOR TEFLON CABLE		
mV/V OUTPUT	CONDUCTOR	
+ EXCITATION	RED	
+ SIGNAL	GREEN	
- SIGNAL	WHITE	
- EXCITATION	BLACK	
NC	BLUE	
SENSOR HOUSING	SHIELD	





#26 AWG, 4 CONDUCTOR SHIELDED VITON CABLE mV/V OUTPUT CONDUCTOR + EXCITATION RED + SIGNAL GREEN / YELLOW - SIGNAL WHITE - EXCITATION BLUE / BLACK SENSOR HOUSING SHIELD



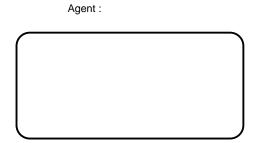


E.F.E.

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