

High Pressure Miniature Transducer



The PHP160 series is designed for high pressure measurements up to 3000bar. Its monolithic construction makes it well adapted to endurance tests and applications with high frequency pulsations. Being all stainless steel, it is compatible with most media including corrosive fluids used in industry. Unamplified (mV/V output) or equipped with the latest signal conditioning technologies from EFE (0-5 and 0.5-4.5Vdc outputs), it is able to measure very dynamic phenomenon. Its thin film sensitive element ensures high performances and stability over wide temperature range. Models with Vdc built-in electronics (power supply: 8-30Vdc), being low consumption (< 10mA) and with high bandwidth capabilities are particularly adapted to embedded applications.

Technical specifications			
Pressure ranges (FS)	2000bar ; 2500bar ; 3000bar ;		
	30000PSI ; 40000PSI		
Туре	Gage		
Safe overload	150% FS		
Power supply	8 to 30Vdc		
Consumption	< 10mA		
Insulation	> 1000 MOhms under 50Vdc at ambient temperature		
Output at 0%FS	0Vdc		
Output at 100%FS	5Vdc		
Zero and sensitivity settings tolerances	±50mV		
Non linearity and hysteresis combined	±0.25% FS		
	Option: ±0.1% FS		
Non repeatability	±0.02% FS typ.		
Signal bandwidth	1000Hz @ -3dB		
	Option : Special Adjustment up to 5000Hz @ -3dB		

www.efe-sensor.com

PHP164 Specifications are subject to change without notice

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Technical Specifications

Compensated temperature range 0 to +60°C

Option: -25 to +85°C; -25 to +125°C; -40 to +125°C

Operating temperature range -40 to +125°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 Protected against polarity inversion

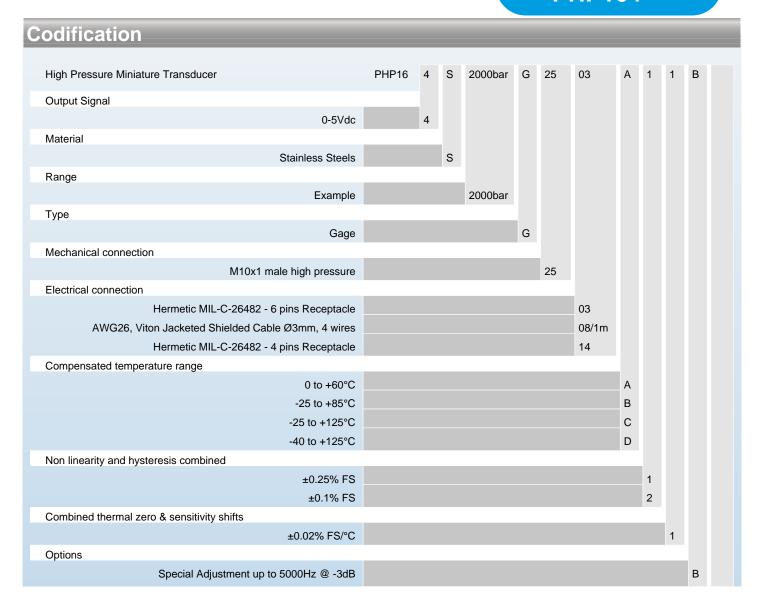
EMC protection Compliant to EN61000

Electrical connection AWG26, Viton Jacketed Shielded Cable Ø3mm, 4 wires

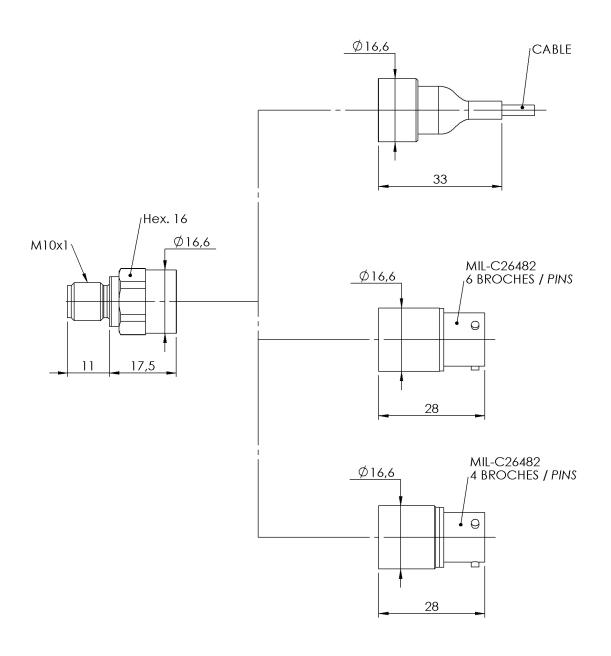
Option: Hermetic MIL-C-26482 - 6 pins Receptacle; Hermetic MIL-C-26482 - 4 pins Receptacle

Mechanical connection M10x1 male high pressure

Material(s) of wetted parts Stainless steel 15-5PH



Dimensions PHP164

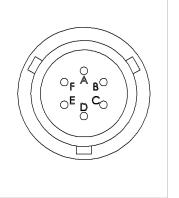


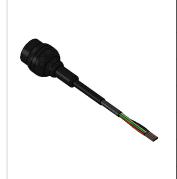


DIMENSIONS: mm

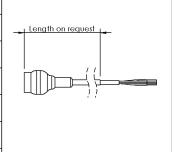


MIL-C26482 - 6 PINS		
VOLTAGE OUTPUT	PIN	
+ EXCITATION	PIN A	
+ SIGNAL	PIN B	
0 VOLT	PIN C	
0 VOLT	PIN D	
SENSOR HOUSING	PINS E &F	



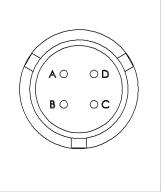


#26 AWG, 4 CONDUCTOR SHIELDED VITON CABLE		
VOLTAGE OUTPUT	CONDUCTOR	
+ EXCITATION	RED	
+ SIGNAL	GREEN / YELLOW	
NC	WHITE	
0 VOLT	BLUE / BLACK	
SENSOR HOUSING	SHIELD	





MIL-C26482 - 4 PINS		
VOLTAGE OUTPUT	PIN	
+ EXCITATION	PIN A	
+ SIGNAL	PIN C	
NC	PIN D	
0 VOLT	PIN B	
SENSOR HOUSING	CONNECTOR HOUSING	





E.F.E.

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