

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	5Vdc ± 10mV	
Consumption	< 10mA	
Insulation	> 1000 MOhms under 50Vdc at ambient temperature	
Output at 0%FS	0.5Vdc	
Output at 100%FS	4.5Vdc	
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	

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

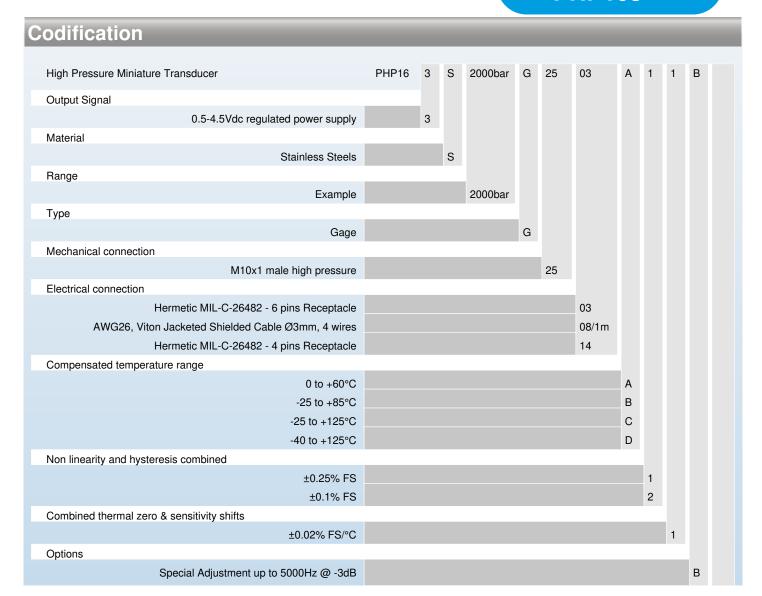
Electrical connection AWG26, Viton Jacketed Shielded Cable Ø3mm, 4 wires

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

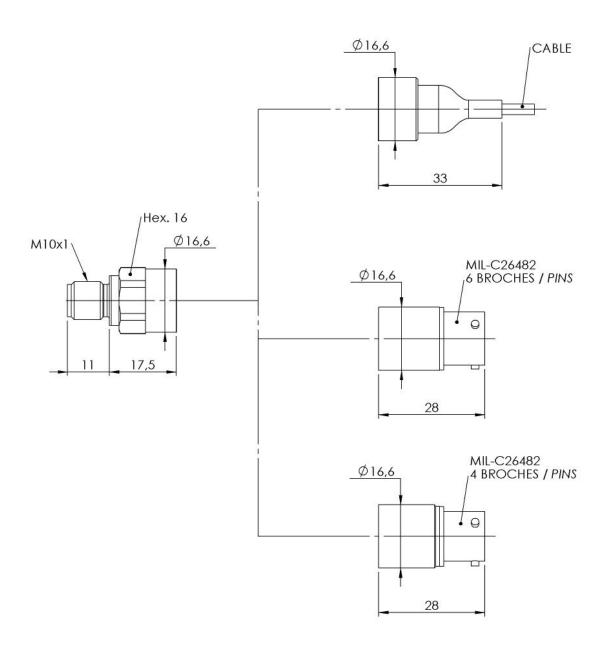
Mechanical connection M10x1 male high pressure

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

PHP163



Dimensions PHP163

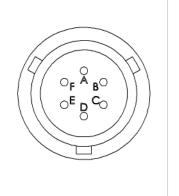




DIMENSIONS: mm

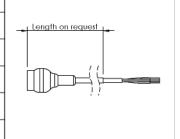


MIL-C26482 - 6 PINS VOLTAGE OUTPUT PIN + EXCITATION PIN A + SIGNAL PIN B 0 VOLT PIN C 0 VOLT PIN D SENSOR HOUSING PINS E &F



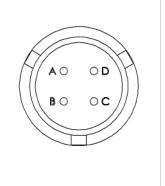


#26 AWG, 4 CONDUCTOR SHIELDED VITON CABLE		
VOLTAGE OUTPUT	CONDUCTOR	
+ EXCITATION	RED	
+ SIGNAL	GREEN / YELLOW	
NC	WHITE	
0 VOLT	BLUE / BLACK	
SENSOR HOUSING	SHIELD	





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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