

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	
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 0%FS	0mV/V	
Output at 100%FS	0.6mV/V/1000bar	
Zero and sensitivity settings tolerances	±3% FS	
Non linearity and hysteresis combined	±0.25% FS	
	Option: ±0.15% FS	
Non repeatability	±0.02% FS typ.	

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

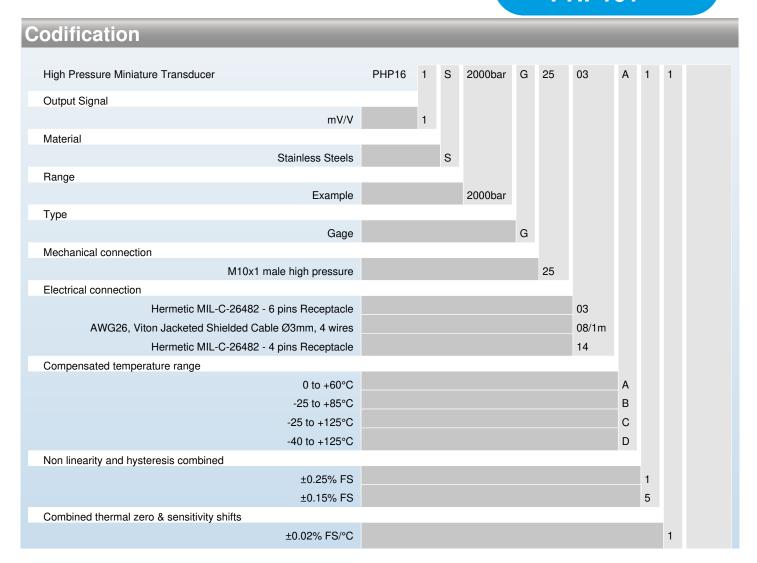
EMC protection Compliant to EN61000

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

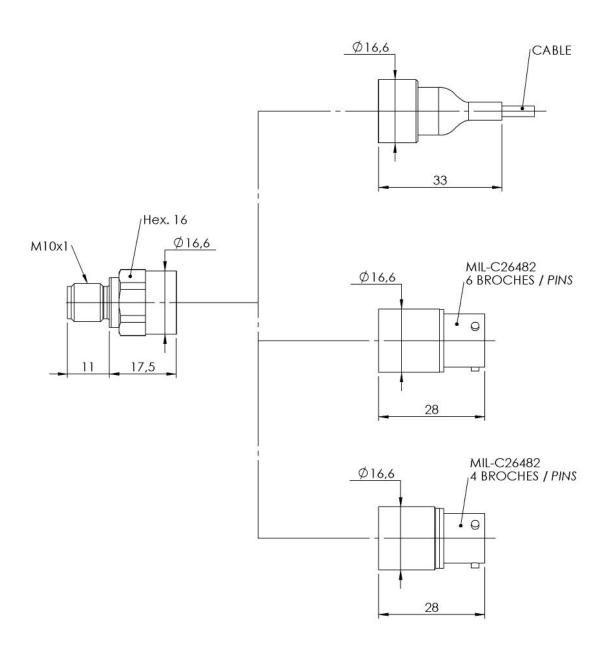
Option: Hermetic MIL-C-26482 - 6 pins Receptacle; Hermetic MIL-C-26482 - 4 pins Receptacle

Mechanical connection M10x1 male high pressure

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



Dimensions PHP161

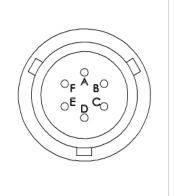




DIMENSIONS: mm



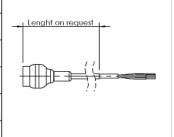
MIL-C26482 - 6 PINS		
mV/V OUTPUT	PIN	
+ EXCITATION	PIN A	
+ SIGNAL	PIN B	
- SIGNAL	PIN C	
- EXCITATION	PIN D	
SENSOR HOUSING	PINS E &F	





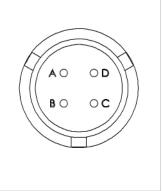
#26 AWG, 4 CONDUCTOR SHIELDED VITON CABLE mV/V OUTDUT CONDUCTOR

mv/v ou iPu i	CONDUCTOR
+ EXCITATION	RED
+ SIGNAL	GREEN / YELLOW
- SIGNAL	WHITE
- EXCITATION	BLUE / BLACK
SENSOR HOUSING	SHIELD





MIL-C26482 - 4 PINS		
mV/V OUTPUT	PIN	
+ EXCITATION	PIN A	
+ SIGNAL	PIN C	
- SIGNAL	PIN D	
- EXCITATION	PIN B	
SENSOR HOUSING	CONNECTOR HOUSING	





E.F.E.

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