### **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

www.efe-sensor.com

PHP163 Specifications are subject to change without notice

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Questi prodotti sono distribuiti e supportati in Italia da:



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## **PHP163**

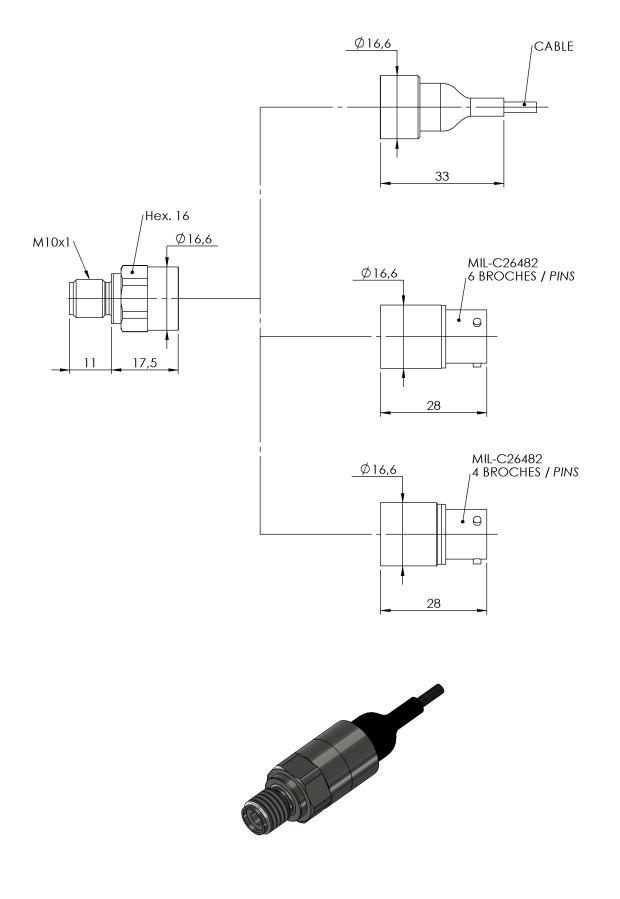
### Technical Specifications

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**

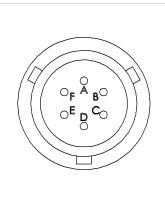
# Codification

High Pressure Miniature Transducer	PHP16	3	S	2000bar	G	25	03	А	1	1	В	
Output Signal												
0.5-4.5Vdc regulated power supply		3										
Material												
Stainless Steels			s									
Range												
Example				2000bar								
Туре		_	_									
Gage					G							
Mechanical connection												
M10x1 male high pressure						25						
Electrical connection												
Hermetic MIL-C-26482 - 6 pins Receptacle							03					
AWG26, Viton Jacketed Shielded Cable Ø3mm, 4 wires							08/1m					
Hermetic MIL-C-26482 - 4 pins Receptacle							14					
Compensated temperature range												
0 to +60°C								А				
-25 to +85°C								В				
-25 to +125°C								С				
-40 to +125°C								D				
Non linearity and hysteresis combined												
±0.25% FS									1			
±0.1% FS									2			
Combined thermal zero & sensitivity shifts												
±0.02% FS/°C										1		
Options												
Special Adjustment up to 5000Hz @ -3dB											В	



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 CONDUCT	OR SHIELDED VITON CABLE	
	VOLTAGE OUTPUT	CONDUCTOR	Length on request
	+ EXCITATION	RED	
	+ SIGNAL	GREEN / YELLOW	
	NC	WHITE	— .,
•	0 VOLT	BLUE / BLACK	
	SENSOR HOUSING	SHIELD	

MIL-C264	82 - 4 PINS
VOLTAGE OUTPUT	PIN
+ EXCITATION	PIN A
+ SIGNAL	PIN C
NC	PIN D
0 VOLT	PIN B
SENSOR HOUSING	CONNECTOR HOUSING



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