

PHP225



PHP225 is a transducer dedicated to high pressure measurements. Wetted parts being all stainless steel, it is compatible with all common and corrosive pressure media used in industry. With compact dimensions, low mass and ruggedized design, PHP225 is adapted to a wide range of industrial applications.

EFE thin film technology makes PHP225 compatible with harsh environment, including wide operating temperature, from -40 to +85°C.

Its manufacturing process, including traceable controls and special burn-in, gives the best insurance of high performance and stability in the most challenging applications.

The sensor's integrated electronics deliver a high-level output of 4-20mA.

FEATURES

- All Stainless Steel Ruggedized Design
- High Pressure up to 3000 bar
- Built-in electronics: 4-20mA
- -40 to +85°C operation

APPLICATIONS

Χ	Energy / Nuclear
X	Automotive
X	Test Benches
	Others





TECHNICAL SPECIFICATIONS

• Pressure Specifications

Pressure ranges (FS)	250bar; 400bar; 600bar; 800bar; 1500bar; 2000bar; 2500bar; 3000bar 350PSI; 6000PSI; 8000PSI; 1000PSI; 20000PSI; 30000PSI; 35000PSI; 40000PSI
Туре	Absolute ; Gage; Sealed Gage
Safe overload	120% FS with no excess of 3000bar

• Electrical Specifications

Power Supply	13 to 30Vdc
Consumption	Current loop
Insulation	> 1000 M0hms under 50Vdc at ambient temperature
Output at 0%FS	4mA
Sensitivity	16mA
Output at 100%FS	20mA
Zero and sensitivity settings tolerances	±0.1mA

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Accuracy

Nonlinearity and hysteresis combined for Pressure	±0.25% FS Option: ±0.1% FS
Non repeatability for Pressure	±0.02% FS typ.

Environmental Specifications

Compensated temperature range	0 to 60°C Options: -25 to +85°C ; -40 to +85°C
Operating temperature range	-40 to +85°C
Combined thermal zero & sensitivity shift	±0.02%FS/°C
Vibrations	20-2000Hz, 50g max.
Mechanical shock	100g ½ sinus 1ms
EMC protection	Compliant to EN61000

Technical Specifications

Electrical connection	MIL-C-26482 6 pins Receptacle Option : AWG26, Viton Jacketed Shielded Cable Ø3mm, 4 wires		
Mechanical connection	9/16-18 UNF male (M250C) Option : 9/16-18 UNF female (F250C)		
Material(s) of wetted parts	Stainless Steel 316L, 17-4PH and 15-5PH		
Weight	70g approx. for the connector version		
Enclosure protection	IP65 for absolute and sealed gage versions		



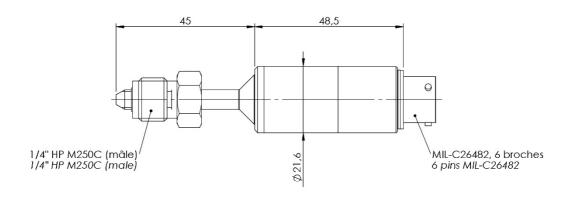


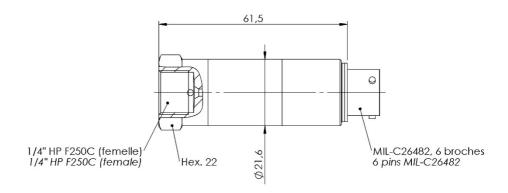
CODIFICATION

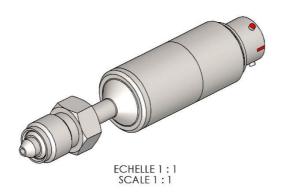
High Pressure Sensor	PHP22	5	S	250bar	Α	28	08/1m	Α	1	1
Output Signal										
4-20mA		5								
Material										
Stainless Steel			S							
Range										
Example : 250bar				250bar						
Туре										
Absolute					Α					
Gage Sealed Gage					G SG					
Mechanical connection					30					
9/16-18 UNF male (M250C) 9/16-18 UNF female (F250C)						28 31				
Electrical Connection										
6 pins MIL-C26482 receptacle AWG26, Viton Jacketed Shielded Cable, 4	wires (1; 2 or 3m	1)					03 08/1m			
Compensated temperature range										
0 to +60°C								A		
-25 to +85°C -40 to +85°C								B D		
Nonlinearity and hysteresis combined										
±0.25% FS ±0.1% FS									1 2	
Combined thermal zero & sensitivity shifts										
Combined thermal zero & sensitivity shifts ±0.02% EM/°C										1



DIMENSIONS







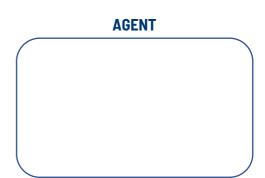
Dimensions: mm





	MIL C26482 - 6 PINS				
	CURRENT OUTPUT	PIN			
	+ Excitation	PIN A			
	+ Signal	PIN B			
	Not Connected	PINS C & D			
	Sensor's Housing	PINS E & F			

	VITON CABLE- 4 CONDUCTORS				
	CURRENT OUTPUT	CONDUCTOR			
	+ Excitation	Red			
	+ Signal	Green			
	Not Connected	White/Black			
	Sensor's Housing	Shield			



L'ESSOR FRANÇAIS ELECTRONIQUE EFE

16-18 rue Porte a Bateaux - 27540 lvry-la-Bataille - France Tel: + 33 2 32 22 35 05 - Fax: + 33 2 32 36 93 08

www.efe-sensor.com • infos@efe-sensor.com