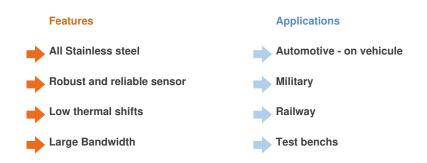


Compact Pressure Transducer for Harsh Environment





The PHE220 series is designed to operate in the harshest environments, including wide operating temperature, mechanical shocks and vibrations. It is well adapted to embedded measurements, on vehicules, aircrafts or satellites. With pressure ranges available from -1 up to 600 bar, absolute or gage, its all stainless steel construction makes it usable with most fluids used in industry, even corrosive ones. The PHE220 is manufactured with the ruggedized and premium sensitive elements and components developed by EFE. 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 choice of mechanical threads and electrical connections makes its installation easier.

Technical specifications

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Pressure ranges (FS)	±100mbar; ±250mbar; ±500mbar;
	±1bar ; -1/+2bar ; -1/+5bar ;
	2bar; 5bar; 10bar; 20bar; 40bar; 100bar; 250bar; 400bar; 600bar;
	±1.5PSI; ±3.5PSI; ±7PSI; ±14.5PSI; -14.5/+30PSI; -14.5/+70PSI;
	8000PSI; 30PSI; 40PSI; 70PSI; 150PSI; 300PSI; 500PSI; 1500PSI; 3000PSI; 5000PSI
Туре	Absolute ; Gage
Type (for ranges > 40 bar)	Sealed Gage
Safe overload	150% FS
Burst pressure	300% FS
Power supply	8 to 30Vdc
Consumption	< 10mA
Insulation	> 1000 MOhms under 50Vdc at ambient temperature
Output at -100%FS (only for ± range)	1Vdc
Output at 0%FS (except ranges ±)	1Vdc
Output at 100%FS	6Vdc

Technical Specifications

Zero and sensitivity settings tolerances ±50mV

Non linearity and hysteresis combined ±0.25% FS

Option: ±0.1% FS

Non repeatability $\pm 0.02\%$ FS typ.

Signal bandwidth 1000Hz @ -3dB

Option : Special Adjustment up to 2000Hz @ -3dB

Compensated temperature range -40 to +125°C

Operating temperature range -40 to +125°C

Combined thermal zero & sensitivity shifts ±1.5% FS from -40 to +125°C; ±3% FS from -40 to +125°C for ranges < 1bar

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 Hermetic MIL-C-26482 - 6 pins Receptacle

Option: AWG26, Viton Jacketed Shielded Cable Ø3mm, 4 wires

Mechanical connection 1/4 Gaz A male ; 1/4 NPT male ; M14x1.5-4h male

Option: 1/4 Gaz female; 7/16-20 UNJF-3A male - MS33656-4; M10x1-4h male with 80° internal

cone ; M10x1-4h male 120° cone

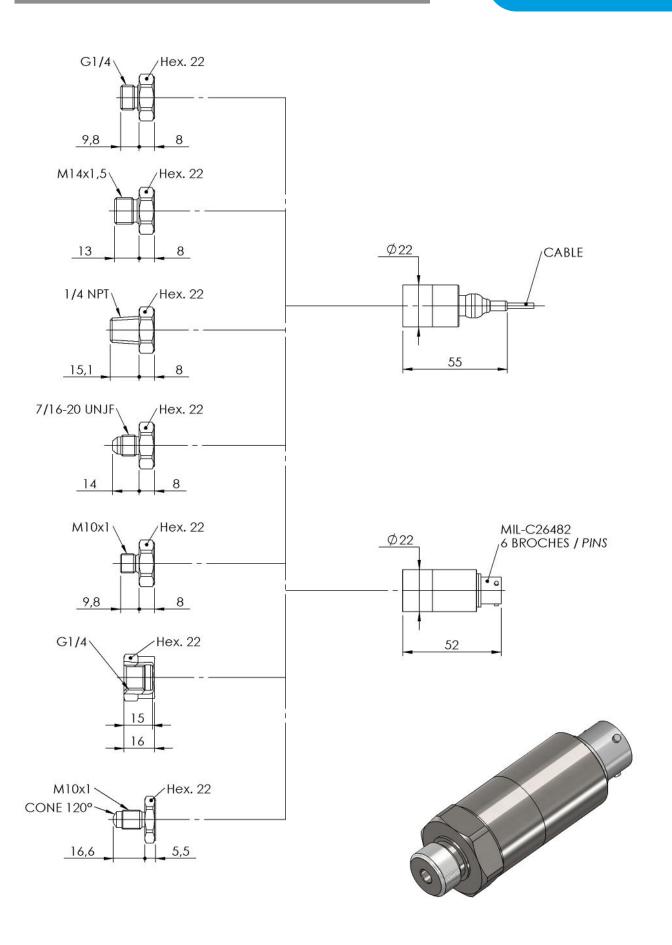
Material(s) of wetted parts Stainless Steel 316L; Stainless Steel 17-4PH; Stainless steel 15-5PH

Weight < 100g without cable

Enclosure protection IP65 for absolute & sealed gage version

Codification Compact Pressure Transducer for Harsh Environment PHE22 8000PSI A 01 03 **Output Signal** 0.5-4.5Vdc unregulated power supply 7 Material Stainless Steels S Range Example 8000PSI Туре Absolute Α G Gage Sealed Gage SG Mechanical connection M14x1.5-4h male 01 1/4 Gaz A male 07 1/4 Gaz female 08 7/16-20 UNJF-3A male - MS33656-4 10 1/4 NPT male 13 M10x1-4h male with 80° internal cone 19 M10x1-4h male 120° cone 21 Electrical connection 03 Hermetic MIL-C-26482 - 6 pins Receptacle AWG26, Viton Jacketed Shielded Cable Ø3mm, 4 wires 08/1m Compensated temperature range D -40 to +125°C Non linearity and hysteresis combined ±0.25% FS 1 ±0.1% FS 2 Combined thermal zero & sensitivity shifts ±3% FS from -40 to +125°C for ranges < 1bar ±1.5% FS from -40 to +125°C 2 Options Special Adjustment up to 2000Hz @ -3dB В

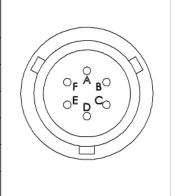
Dimensions PHE227



Dimensions: mm

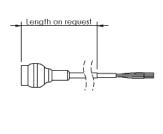


MIL-C26482 - 6 PINS		
VOLTAGE OUTPUT	PIN	
+ EXCITATION	PIN A	
+ SIGNAL	PIN B	
0 VOLT	PIN C	
0 VOLT	PIN D	
SENSOR HOUSING	PINS E &F	





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





E.F.E.

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