



PGP 9407



PGP9407 has been designed to offer combined pressure and temperature measurements.

The sensor includes the latest digital compensation techniques to provide high performance over the compensated temperature range. PGP9407 accuracy is up to $\pm 0.05\%FS$ at room temperature and $\pm 0.005\%FS/^{\circ}C$ max from 0 to $+50^{\circ}C$ or -25 to $+85^{\circ}C$. An EEPROM is available for data storage.

PGP9407 built-in electronics delivers 0.5-4.5Vdc analogue output for pressure and 0.5-1Vdc for temperature.

Wetted parts being all stainless steel, the sensor is compatible with most media used in industry, even corrosive ones.

High accuracy measurements on test benches is one of the main applications for PGP9407.

FEATURES

- High Accuracy: up to $\pm 0.05\%FS$ at ambient
- Pressure & Temperature Measurements
- Digital compensation: $\pm 0.005\%FS/^{\circ}C$
- Compact All Stainless Steel Ruggedized Design
- Built-in electronics : 0.5-4.5Vdc
- Integrated EEPROM

APPLICATIONS

X	Aerospace Ground testing
X	Automotive
X	Test Benches
	Others



TECHNICAL SPECIFICATIONS

- Pressure Specifications

Pressure ranges (FS)	15 PSI 30 PSI 50 PSI 100 PSI 300 PSI 500 PSI 1000 PSI 1500 PSI 3000 PSI 5000 PSI 10 000 PSI
Type	Absolute ; Gage; Sealed Gage
Safe overload	150% FS
Burst pressure	300% FS with no excess of 1000bar

- Electrical Specifications

Power Supply	8 to 30Vdc
Consumption	< 10mA
Insulation	> 1000 MOhms under 50Vdc at ambient temperature
Offset (Pressure signal)	0.5Vdc
Sensitivity (Pressure signal)	4Vdc
Rated Output (Pressure signal)	4.5Vdc
Zero and sensitivity settings tolerances	±0.05Vdc
Temperature output	0.5-1Vdc from 0 to +50°C
EEPROM	EEPROM included (data blank)



- Accuracy

Nonlinearity and hysteresis combined	$\pm 0.05\%$ FS for pressure up to 500 PSI $\pm 0.1\%$ FS above
Non repeatability	$\pm 0.02\%$ FS typ.

- Environmental Specifications

Compensated temperature range (CTR)	0 to +50°C <i>Option : -25 to +85°C</i>
Operating temperature range	-25 to +125°C
Temperature error band over CTR	$\pm 0.005\%$ FS/°C
EMC protection	Compliant to EN61000

- Technical Specifications

Electrical connection	8-pin receptacle following MIL-C 26482
Mechanical connection	1/4 NPT male <i>Option : 7/16-20 UNJF male</i>
Material(s) of wetted parts	Stainless Steel 316L, 17-4PH and 15-5PH
Weight	100g approx.
Enclosure protection	IP65 for absolute and sealed gage versions

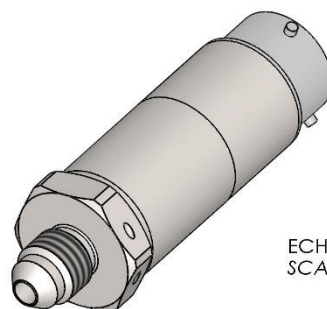
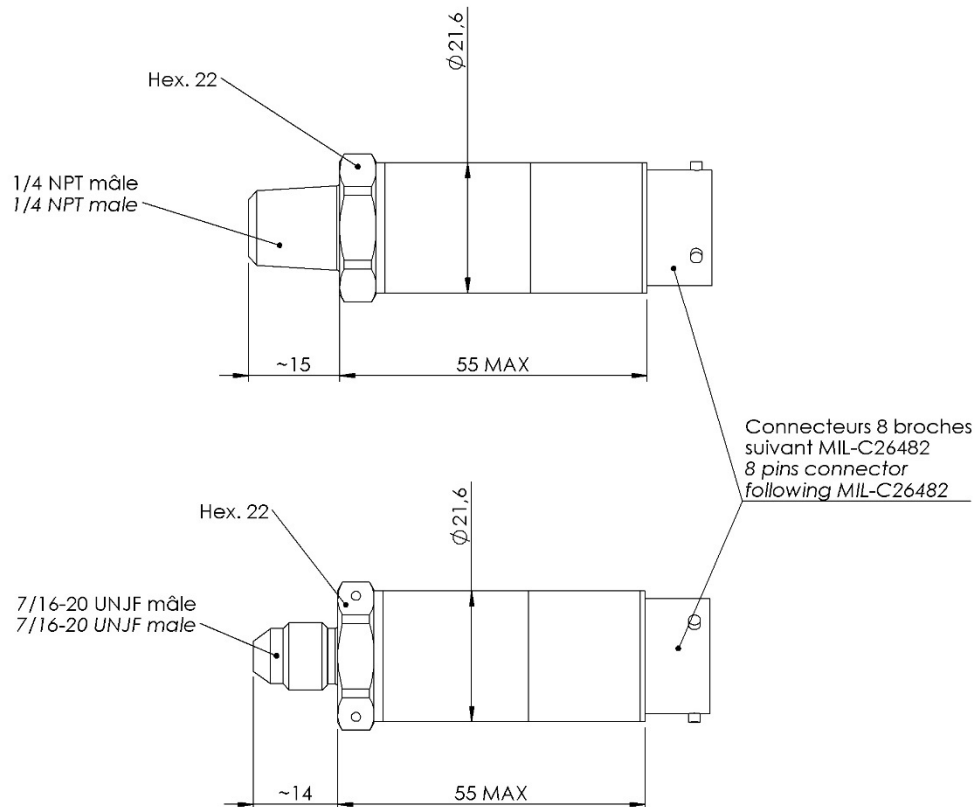


CODIFICATION

High Performance Transducer	PGP940	7	S	50 PSI	G	13	25	A	4	4	-
Output Signal											
0.5-4.5Vdc		7									
Material											
Stainless Steel			S								
Range											
Example : 50 PSI				50 PSI							
Type											
Absolute					A						
Gage					G						
Sealed Gage					SG						
Mechanical connection											
1/4 NPT male						13					
7/16-20 UNJF male						10					
Electrical Connection											
8-pin MIL-C26482 receptacle							25				
Compensated temperature range											
0 to +50°C								A			
-25 to +85°C								B			
Nonlinearity and hysteresis combined											
±0.05% FS up to 500 PSI									4		
±0.1% FS above									2		
Combined thermal zero & sensitivity shifts											
±0.005%FS/°C										4	
Options											
											-



DIMENSIONS



ECHELLE 1:1
SCALE 1:1

Dimensions : mm

MIL C26482 - 8 PINS	
TENSION OUTPUT	PIN
+ Power Supply	PIN A
+ Signal Pressure	PIN B
Ground (0Vdc)	PIN C
+ Signal Temperature	PIN D
SCLK (EEPROM)	PIN E
SDATA (EEPROM)	PIN F
Not connected	PIN G
Ground (0Vdc)	PIN H

AGENT



**L'ESSOR FRANÇAIS ELECTRONIQUE
EFE**