L'Essor Français Electronique

PET161

Extreme Temperature Pressure Sensor



Features

- All Stainless steel
- Miniature pressure sensor
- Optional remote electronic
- Operating from -20 to +250°C

Applications

- Oil & gas
- Aerospace
- Military
- Test benchs

Operating up to 250°C, PET160 is a ruggedized pressure sensor dedicated to extreme temperature. With all stainless steel wetted parts, It is compatible with most media, including corrosive fluids used in automotive and aerospace industries. Equipped with the latest thin film technology developed by EFE, its performances and stability over wide temperature range are excellent. Models are available with unamplified and voltage outputs, thanks to a remote electronic module, packaged in a miniature stainless steel housing, fitted in the cable and operating up to 125°C.

Technical specifications

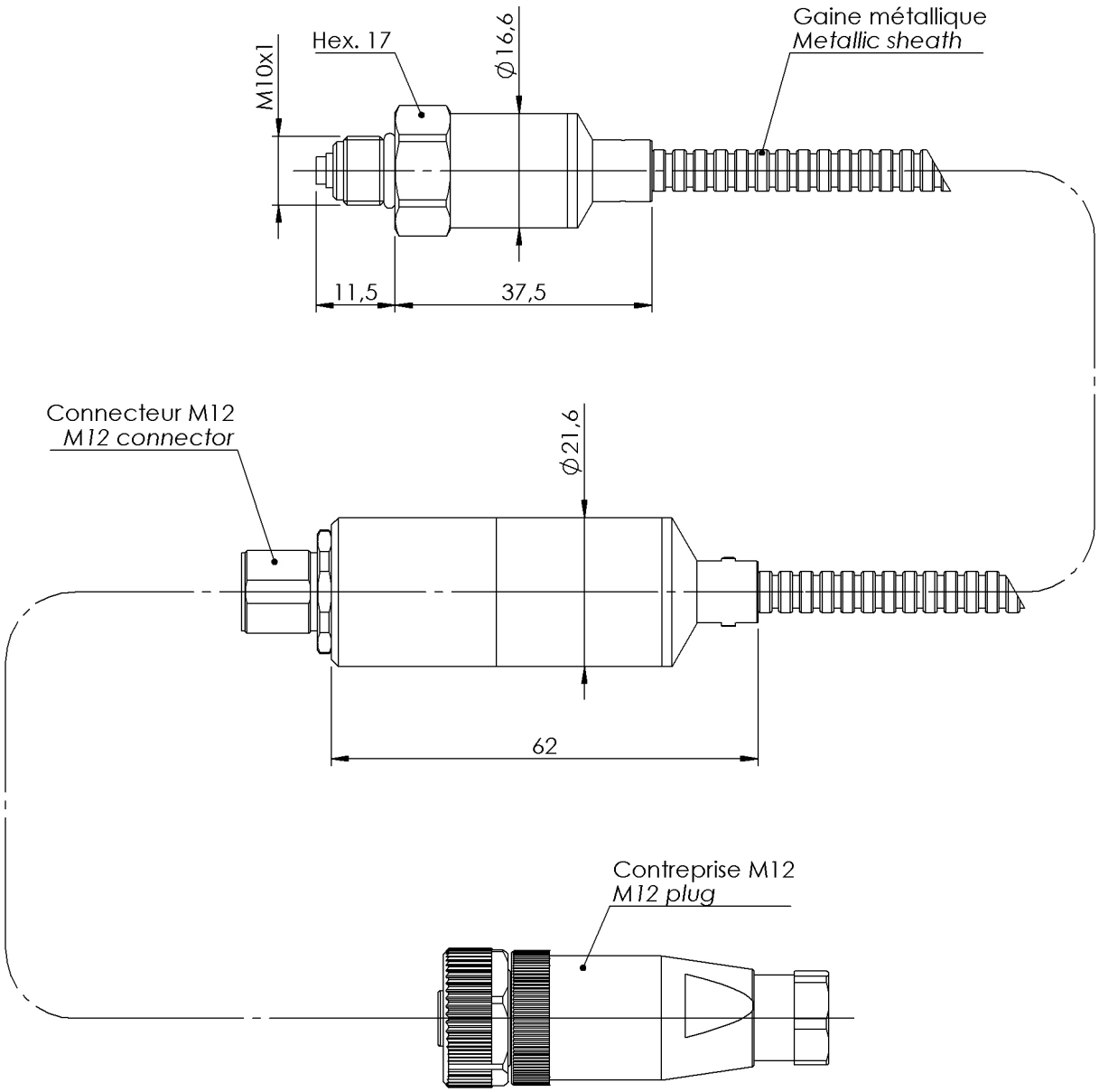
Pressure ranges (FS)	20bar ; 40bar ; 100bar ; 250bar ; 400bar ; 600bar ; 300PSI ; 500PSI ; 1500PSI ; 3000PSI ; 10000PSI ; 5000PSI
Type	Gage
Safe overload	150% FS
Burst pressure	300% FS
Output impedance	> 3000 Ohms typ.
Input impedance	> 3500 Ohms typ.
Power supply	5 to 15Vdc
Consumption	< 10mA
Insulation	> 1000 MOhms under 50Vdc at ambient temperature
Output at 0%FS	0mV/V
Output at 100%FS	1 to 2mV/V
Zero and sensitivity settings tolerances	±3% FS
Non linearity and hysteresis combined	±0.25% FS
Non repeatability	±0.02% FS typ.

Technical Specifications

Compensated temperature range	+20 to +250°C
Operating temperature range	-20 to +250°C
Combined thermal zero & sensitivity shifts	±0.03% 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 Shielded Teflon Cable Ø3.4mm ±0.2, 5 wires
Mechanical connection	M10x1-4h male Option : 3/8-24 UNF-3A male
Material(s) of wetted parts	Stainless Steel 316L ; Stainless Steel 17-4PH ; Stainless steel 15-5PH
Weight	< 40g without cable
Enclosure protection	IP65 for absolute & sealed gage version

Codification

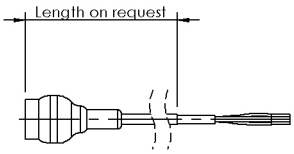
Extreme Temperature Pressure Sensor	PET16	1	S	40bar	G	02	09/1m	H	1	3
Output Signal										
mV/V		1								
Material										
Stainless Steels			S							
Range										
Example				40bar						
Type										
Gage					G					
Mechanical connection										
M10x1-4h male						02				
3/8-24 UNF-3A male						11				
Electrical connection										
AWG26 Shielded Teflon Cable Ø3.4mm ±0.2, 5 wires							09/1m			
Compensated temperature range										
+20 to +250°C								H		
Non linearity and hysteresis combined										
±0.25% FS									1	
Combined thermal zero & sensitivity shifts										
±0.03% FS/°C										3



Dimensions : mm



5 CONDUCTOR TEFLON CABLE	
mV/V OUTPUT	**CONDUCTOR**
+ EXCITATION	RED
+ SIGNAL	GREEN
- SIGNAL	WHITE
- EXCITATION	BLACK
NC	BLUE
SENSOR HOUSING	SHIELD



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