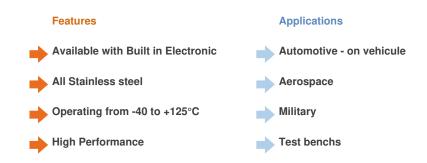


High Performance Miniature Pressure Sensor





The PGP160 series is designed for high accuracy absolute or gage pressure measurements, from -1 up to 600bar. The sensing element is an advanced piezo-resistive pressure module which together with the latest compensation techniques, provides high performance measurements. It is available with low (millivolt) or high level outputs (0,5-4,5Vdc ou 0-5Vdc). For transducers, the built-in electronic delivers a dynamic analogue output, signal's bandwidth being specified at a minimum of 1kHz @-3dB. With all stainless steel wetted parts, the sensor is compatible with most media used in industry, even corrosive ones. High accuracy embedded pressure measurements are main focus for the PGP160 series.

Technical specifications

Pressure ranges (FS)	-1/+2bar ; -1/+5bar ;
	3bar; 5bar; 10bar; 20bar; 40bar; 100bar; 250bar; 400bar; 600bar;
	-14.5/+30PSI; -14.5/+70PSI;
	8000PSI; 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 16Vdc
Consumption	< 10mA
Insulation	> 1000 MOhms under 50Vdc at ambient temperature
Output at -100%FS (only for ± range)	0.5Vdc
Output at 0%FS (except ranges ±)	0.5Vdc
Output at 100%FS	4.5Vdc
Zero and sensitivity settings tolerances	±50mV

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Technical Specifications

Non linearity and hysteresis combined ±0.1% FS

Option: ±0.05% FS

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

Signal bandwidth 1000Hz @ -3dB

Option: Special Adjustment up to 3000Hz@-3dB

Compensated temperature range 0 to +60°C

Option: -25 to +85°C; -25 to +125°C

Operating temperature range -40 to +125°C

Combined thermal zero & sensitivity shifts ±0.01% 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 3/8-24 UNF-3A male ; M10x1-4h male

Option: 1/4" VCR male; M10x1 male form G Minimess®; M8x1-6g male; Swagelok nut

SS-6M2-1 for OD 6mm pipe

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

Weight 30g without cable

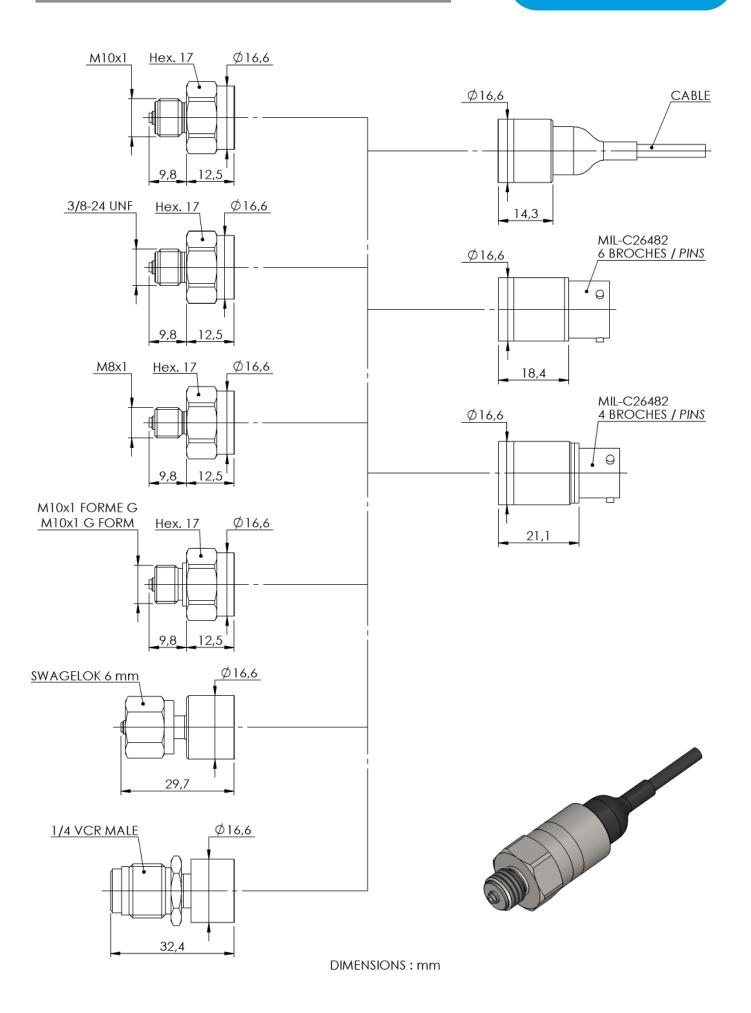
Enclosure protection IP65 for absolute & sealed gage version

Codification High Performance Miniature Pressure Sensor PGP16 10bar 02 **Output Signal** 0.5-4.5Vdc unregulated power supply 7 Material Stainless Steels Range Example 10bar Туре Absolute Α G Gage SG Sealed Gage Mechanical connection 02 M10x1-4h male M8x1-6g male 03 3/8-24 UNF-3A male 11 Swagelok nut SS-6M2-1 for OD 6mm pipe 15 M10x1 male form G Minimess® 16 1/4" VCR male 22 Electrical connection 03 Hermetic MIL-C-26482 - 6 pins Receptacle 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 Α В -25 to +85°C -25 to +125°C С Non linearity and hysteresis combined 2 ±0.1% FS ±0.05% FS 4 Combined thermal zero & sensitivity shifts ±0.01% FS/°C Options

Special Adjustment up to 3000Hz @ -3dB

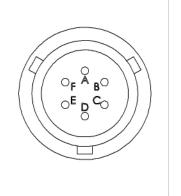
В

Dimensions PGP167



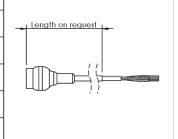


MIL-C26482 - 6 PINS		
VOLTAGE OUTPUT	PIN	
+ EXCITATION	PIN A	
+ SIGNAL	PIN B	
0 VOLT	PIN C	
0 VOLT	PIN D	
SENSOR HOUSING	PINS E &F	



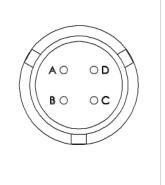


#26 AWG, 4 CONDUCTOR SHIELDED VITON CABLE		
VOLTAGE OUTPUT	CONDUCTOR	
+ EXCITATION	RED	
+ SIGNAL	GREEN / YELLOW	
NC	WHITE	
0 VOLT	BLUE / BLACK	
SENSOR HOUSING	SHIELD	





MIL-C26482 - 4 PINS			
VOLTAGE OUTPUT	PIN		
+ EXCITATION	PIN A		
+ SIGNAL	PIN C		
NC	PIN D		
0 VOLT	PIN B		
SENSOR HOUSING	CONNECTOR HOUSING		





E.F.E.

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