



XPM6- $\frac{1}{4}$ SERIES

High Performance Pressure Transducer



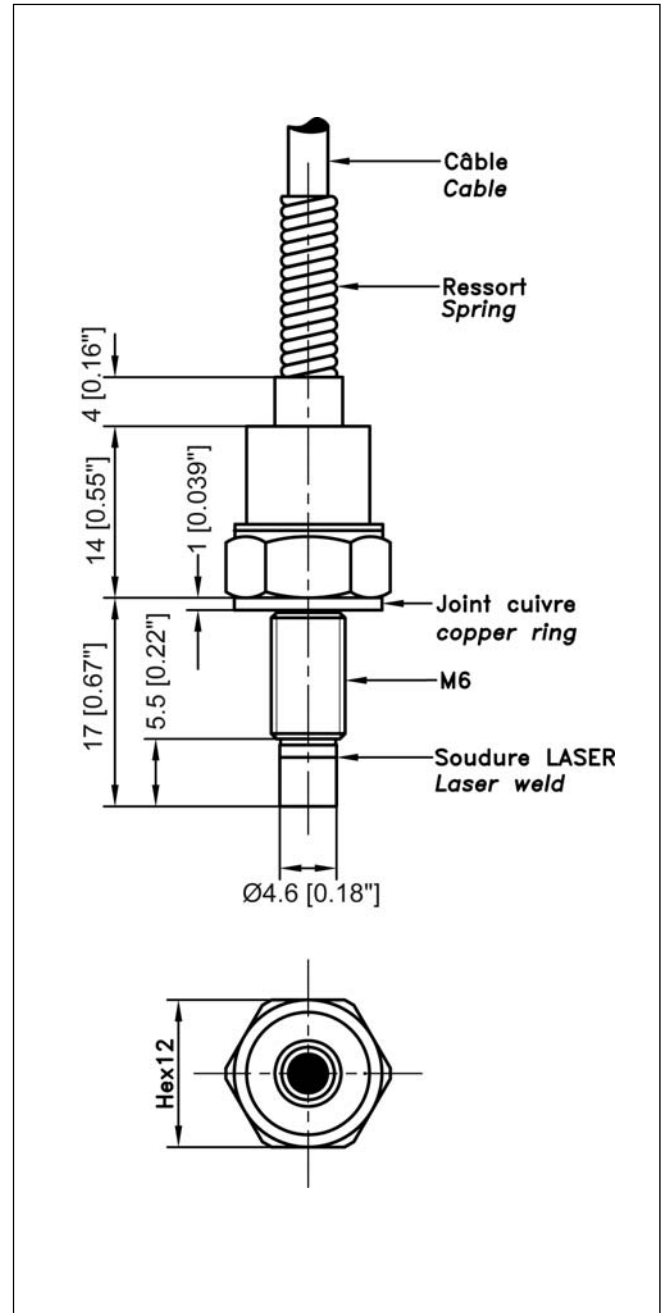
- High Accuracy and Stability
- Temperature Range -40 to 120 °C [-40 to 248 °F]
- High Level Analogue Output
- Full Scale Range :
from 0-100 to 0-1000 bar [0-1500 to 0-15,000 psi]
- Flush Diaphragm
- Low Installation Torque Sensitivity
- M6 Threading

The XPM6- $\frac{1}{4}$ represents a new series of pressure transducers combining piezoresistive sensor technology and digital temperature compensation, providing superior performance and excellent long-term stability over a temperature range of -40 to 248 °F.

The sensor is designed to measure pressure under a wide variety of conditions, including hostile environments. It is made of stainless steel and is available in ranges from 1500 psi up to 15,000 psi.

Incorporating FGP Sensors $\frac{1}{4}$ technology, the sensor features high level analogue signal output and offers a cost-effective solution for the most demanding applications.

Consult FGP's Engineering Department if the standard options do not meet your needs or should your application require a more comprehensive measurement system.



Technical Specifications

Range (F. S.)

0-100 0-200 0-500 0-1000 bar gauge, sealed gauge
0-1500 0-3000 0-7500 0-15,000 psi

Performance Characteristics

Combined Non-Linearity & Hysteresis : **<±0.25% F.S.**
Repeatability : ±0.2% F.S.
Zero Shift in CTR : **<0.5% F.S. / 60 °C** [108 °F]
Sensitivity Shift in CTR : <2% of reading / 60 °C [108 °F]
Operating Temperature Range (OTR) : -40 to 125 °C [-40 to 257 °F]
Compensated Temperature Range (CTR) : **-40 to 120 °C** [-40 to 248 °F]
Save Overload : 2 x F.S.
Ultimate Pressure : 3 x F.S.
Bandwidth ±1% : 100 Hz

Electrical Characteristics

Supply Voltage 8 to 16 Vdc (polarity inversion protection)
F.S. Output 4 V ±2% F.S.
Zero Offset 0.5 V ±2% F.S.
Consumption <20 mA
Output Impedance <10 Ω
Insulation under 50 Vdc ≥100 MΩ

Electrical Termination

Shielded cable, 3 Teflon wires (AWG30), standard length 2.0 m [6.6 ft] with strain relief spring

Tightening Torque

Nominal : 10 N.m [88 lb-in] (zero and sensitivity shift <1%)
Maximal : 15 N.m [132 lb-in]

Mechanical Characteristics

Material : Body and flush diaphragm in stainless steel, laser welded
Pressure port : M6
Sealing ring : Copper
Protection Index : IP 50

Product References

High Level Output Transducer

Model

Full Scale Range (F.S.)

In psi G (gauge), S (sealed gauge)

Option(s)

LC"X" : Additional Cable length in ft

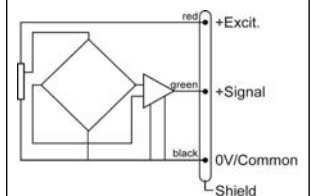
XPM6-*ri*

1500G

LC2

"X" = Custom value

Schéma électrique



Performance specifications nominal and subject to change without notice. Current specifications see web-site. September 19, 2006

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