XPM10-*Vi* SERIES

High Performance Pressure Transducer

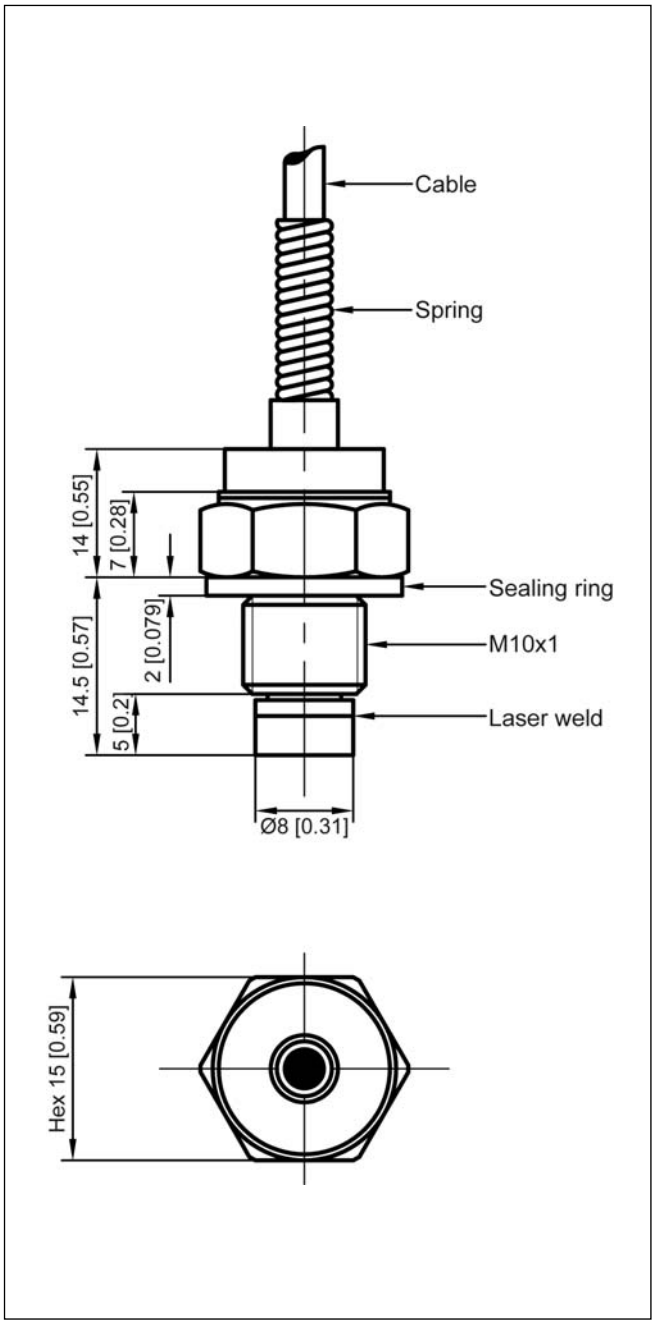
- **High Accuracy and Stability**
- **Temperature Range -40 to 120 °C [-40 to 248 °F]**
- **High Level Analogue Output**
- **Full Scale Range :**
  from 0-1 to 0-350 bar [0-15 to 0-5,000 psi]
- **Flush Diaphragm**
- **For Static and Dynamic Applications**
- **Low Installation Torque Sensitivity**
- **M10 Threading**

The **XPM10-*Vi*** 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 in standard ranges from 15 psi up to 5,000 psi. With its all stainless steel or titanium construction, the XPM10-*Vi* adapts to a wide variety of conditions, including hostile environments.

Incorporating FGP Sensors *Vi* 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.



Performance specifications subject to change without notice. September 19, 2006

Technical Specifications

Range (F. S.)

0-1	0-2	0-5	0-10	0-20	0-35	0-50	0-100	0-200	0-350	bar	in gauge, sealed gauge
0-15	0-30	0-75	0-150	0-300	0-500	0-750	0-1500	0-3000	0-5000	psi	or absolute reference

Performance Characteristics

Combined Non-Linearity & Hysteresis : **<±0.25% F.S. (<±0.35% for 15 psi model)**
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 : 5 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 : 5 N.m [44 lb-in] for ≤75 psi models, 10 N.m [88 lb-in] for other ranges (zero and sensitivity shift <1%)
Maximal : 10 N.m [88 lb-in] for ≤75 psi models, 15 N.m [132 lb-in] for other ranges

Mechanical Characteristics

Material : Body and flush diaphragm in stainless steel or titanium, laser welded
Pressure Port : M10 threading
Self centered sealing ring
Protection Index : IP 50

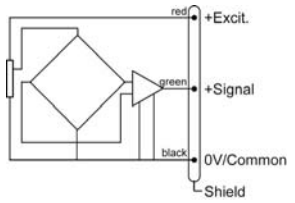
Product References

High Level Output Transducer

Model	Full Scale Range (F.S.) In psi G (gauge), S (sealed gauge), A (absolute)	Option(s) TT : Titanium version P5 : IP65 protection P7 : IP67 protection LC"X" : Additional Cable length in ft
XPM10-*Vi*	300G	LC2

"X" = Custom value

Schéma électrique



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