

- Ranges from 2000 to 7000 bar
- Stainless steel
- Robust for Fatigue testing
- High level output in option
- For static and dynamic applications
- Linearity up to ±0.3% F.S.

DESCRIPTION

The **P125** is a high pressure transducer designed for to measure static and dynamic pressure up to 7 000 bar (600 kpsi). The mechanical design and a stainless steel construction allow the sensor to withstand most aggressive liquids and fatigue testing.

The sensing element is fitted with a temperature compensated Wheatstone bridge equipped with thin strain gauges. MEAS offers amplified analogue versions to obtain 0.5-4.5V, 0-5V and 4-20mA.

For miniature with flush diaphragm designs, the model **XPM6** can measure up to 1 000 bar (15 kpsi)

With many years of experience as a designer and manufacturer of sensors, Measurement Specialties, Inc. has the expertise to customize and/or design sensors for specific uses and testing environments. To meet your needs we also offer complete turnkey systems. Our conditioning electronics can power the sensor, amplify the electronic signal, and display the data digitally. A turnkey measurement system arrives with matched components, formatted, calibrated and ready for your immediate use.

CARACTERISTIQUES

APPLICATIONS

- M16x1.5 thread for high pressure junction
- Analogue Tension and Current outputs
- For Static and Dynamic Applications
- Burst pressure test benches
- Pressure amplifier equipment
- Tube testing

Full Scale (FS)		Pressure Reference	Combined Linearity & Hysteresis			
Bar	psi	Gauge	(%FS)			
2k	30k	•	±0.5%			
4k	60k	•	±0.5%			
7k	100K	•	±0.5%			
ETENDUES DE MESURE						







TEMPERATURE CHARACTERISTICS

Full Scale (FS)		Operating Temperature Range (OTR)		Compensated Temperature Range (CTR)		ZeroShift in CTR	Sensitivity Shift in CTR
Bar	psi	Celcius	Farenheit	Celcius	Farenheit	/50°C	/50°C
2k	30k	-20 to 80°C	0 to 170°F	0 to 60°C	32 to 140°F	< ±2%FS	< ±3%
4k	60k						
7k	100K						

MECANICAL CHARACTERISTICS

Full Scale (FS)		Pressur	re limit	Tightening Torque		
Bar	psi	Without damage	Without destruction	N.m	lbf.in	
2k	30k	1,5x FS	3x FS	30	265	
4k	60k	1,5x FS	3x FS	30	265	
7k	100K	1,2x FS	2x FS	45	400	

Notes

1. Material: Body in stainless steel; housing in aluminium alloy.

2. Protection Index: IP65 with cable gland, IP50 with connector output

3. Electrical Termination: cable gland with Ø5 mm shielded cable with 4 wires, standard length 2.0 m [6.6 ft]



ELECTRICAL CHARACTERISTICS (All values are typical at temperature 20±1°C)

NON AMPLIFIED VERSION

Full Scale (FS)		Frequency	Power supply	Full Scale Output	Offset	Input Impedance	Output Impédance
Bar	Psi	resonnance	,	(FSO)		Ze	Zs
2k	30k	TBD	10 Vdc	20 mV	< ±10mV	1500 Ω	500 Ω
4k	60k	TBD				1500 Ω	500 Ω
7k	1K	TBD				1000 Ω	500 Ω

Note

1. Output impedance standard, available <100 Ω on request.

AMPLIFIED VERSION A1

Full Span (FS)		Bandwidth	Power supply	Full Scale Output ¹	Offset	Consumption	Output Impédance
Bar	Psi			(FŠO)			Zs ²
All rar	nges	3 kHz	10 to 30 Vdc	4 ±0.2V	0.5 ±0.2V	25 mA	1 000 Ω

AMPLIFIED VERSION A2

Full Span (FS)		Bandwidth	andwidth Power supply	Full Scale Output ¹ Offse	Offset	offset Consumption	Output Impédance
Bar	Psi			(FSO)			Zs ²
All rar	nges	3 kHz	±12 to ±18 Vdc	5 ±0.25V	±0.25V	25 mA	1 000 Ω

AMPLIFIED VERSION A34

Full Span (FS)		Bandwidth	Power supply	Full Scale Output	Offset	Consumption	Output Impédance
Bar	Psi			(FSO)			Zs
All ran	nges	3 KHz	10 to 26 Vdc	16 ±0.3mA	4 ±0.3mA	Up o 20 mA	-

Notes

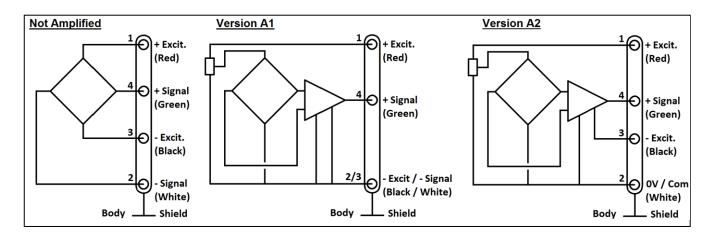
1. Standard output signal, custom outputs available on request.

2. Output impedance standard, available <100 Ω on request.

3. Insulation under 50Vdc ≥100MΩ

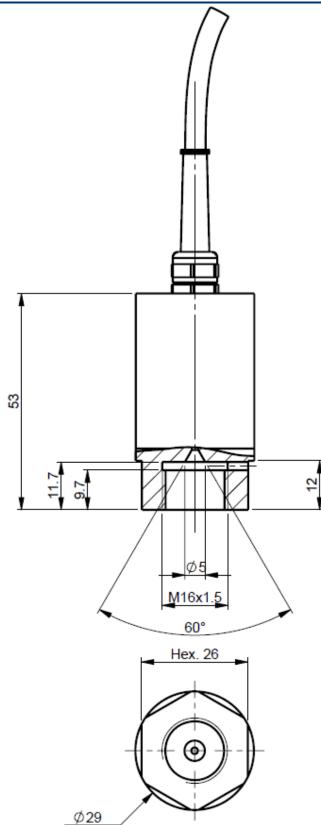
4. A3 current output is a two wires version

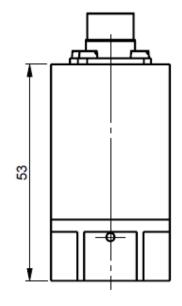
5. CE conformance according to EN 61010-1, EN 50081-1, EN 50082-1.











Version SC



OPTIONS

A1 : Unipolar Tension power ; 0,5-4,5V output

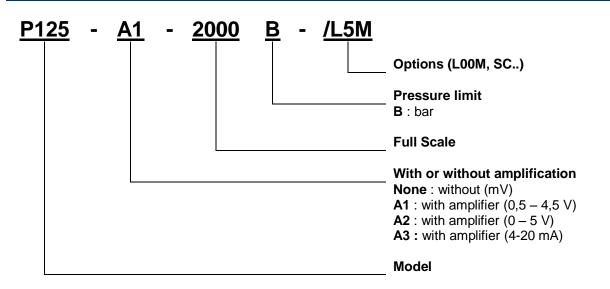
A2 : Bipolar Tension power ; 0-5V output

A3 : Unipolar Tension power ; 4-20mA output

SC : Connector output, mating plug Jaeger ref. 4b 533 801 supplied

LOOM : special cable length, replace "00" with total length in meters

ORDERING INFORMATION



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ASIE

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