

FEATURES

- M16x1.5 high pressure port
- Metal / metal screw sealing
- Integrated Amplifier optional
- Heavy duty body

APPLICATIONS

- Burst pressure test benches
- Fatigue test benches
- Laboratory and research
- Pressure amplifier equipment

P125 High Pressure Sensor

SPECIFICATIONS

- Ranges from 2000 to 7000 bar (30k to 100k psi)
- Stainless steel pressure port
- Robust for Fatigue testing
- For static and dynamic applications
- Linearity up to ±0.3% F.S.

The **P125** is a high pressure transducer designed for to measure static and dynamic pressure up to 7 000 bar (100 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. TESS 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 a manufacturer of sensors, TE CONNECTIVITY often works with customers to design or customize sensors for specific uses and testing environments.

On request, Instruction documents can be provided to ease the selection and use of our sensors and provide helpful tips.

STANDARD RANGES

Ranges (FS)		Pressure Reference	Combined Linearity & Hysteresis
Bar	psi	Gauge	(%FS)
2k	30k	٠	±0.5%
4k	60k	•	±0.5%
7k	100K	•	±0.5%

TEMPERATURE CHARACTERISTICS

Ranges (FS)		Operating T Range	•	•	Temperature (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

Rang	jes (FS)	Pressure	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

Material: Body in stainless steel; housing in aluminium alloy.
 Protection Index: IP65 with cable gland, IP50 with connector output
 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 23±3°C)

NON AMPLIFIED VERSION

Range	es (FS)	Frequency Bower supply Sensitivity		Zero	Input	Output		
Bar	Psi	resonnance	Power supply	(FSO)	Offset	Impedance Ze	Impédance Zs	
2k	30k	TBD	10 Vdc	2 mV/V	< ±1mV/V	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

Range	es (FS)	Bandwidth	Power supply	Sensitivity	Zero	Consumption	Output Impédance
Bar	Psi	Danuwiuth	Fower suppry	¹ (FSO)	Offset	consumption	Zs ²
All ranges		3 kHz	10 to 30 Vdc	4 ±0.2V	0.5 ±0.2V	25 mA	1 000 Ω

AMPLIFIED VERSION A2

Range	es (FS)	Bandwidth	Power supply	Full Scale Output ¹	Zero	Consumption	Output Impédance	
Bar	Psi	Danuwiuth		(FSO)	Offset	consumption	Zs ²	
All ranges		3 kHz	±12 to ±18 Vdc	5 ±0.25V	0 ±0.25V	25 mA	1 000 Ω	

AMPLIFIED VERSION A34

	Ranges (FS)		Bandwidth	Power supply	Full Scale Output	Zero	Consumption	Output Impédance
i	Bar	Psi	Danuwiuth	Fower suppry	(FSO)	Offset	consumption	Zs
All ranges		3 KHz	10 to 26 Vdc	16 ±0.3mA	4 ±0.3mA	Up to 20 mA	-	

Notes

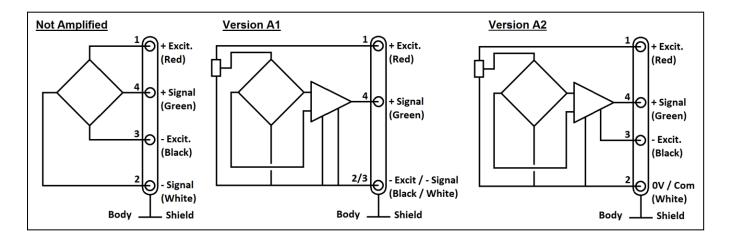
1. Standard output signal, custom outputs available on request.

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

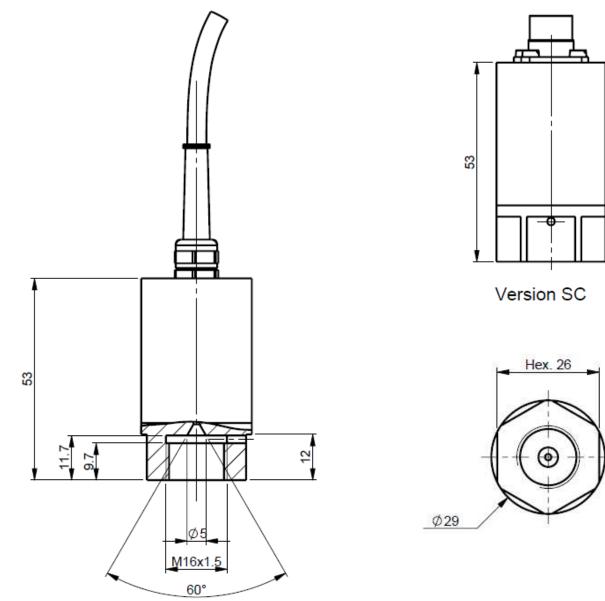
3. Insulation under 50Vdc ≥100MΩ

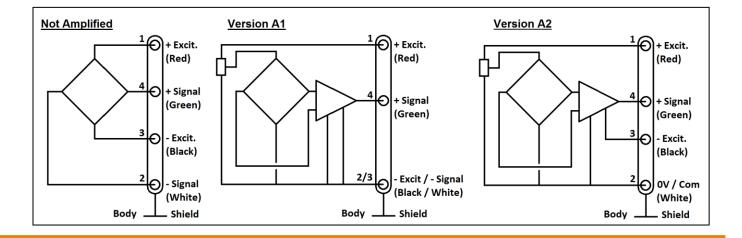
4. A3 current output is a two wires version

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



DIMENSIONS (METRIC ONLY)





OPTIONS

SC : Connector output
L00M : special cable length, replace "00" with total length in meters

ORDERING INFORMATION

P125	-	A1	-	2KB	G	-	/L4M
Model	-	Electrical interface	-	Ranges & unit	Pressure Reference	-	/Options
P125	-	(empty) = bridge mV/V A1 = 0.5 to 4.5V A2 = 0-5V A3 = 4-20mA	-	2KB 4KB 7KB	G = Gage	-	/ETX /SC /L00M

The sensor ordering codes uses only bar as units because **P125** uses metric threads. Psi value correspondence is noted as information

SUPPLIED ACCESSOIRES (ONLY WITH SC OPTION)

EFMX-4M : mating plug Jaeger 530-801-006 with clamp 530-841-006 standard with SC option

EFMX-4H : mating plug Jaeger 530-804-006 with clamp 530-844-006 for ET1, ET2 or ET3 & SC options



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