

EPB-PW Miniature Pressure Transducer



- Miniature design (body ø6.4 mm)
- Titanium Construction
- EMI Protected per CE Compliance
- IP68 Ingress Protection
- Sealed Gauge reference

DESCRIPTION

The **EPB-PW** pressure transducer is specifically designed for pore water applications in either centrifuges or laboratory equipment. Using either ceramic or bronze sintered filters, the sensor can be used on clay or sand-based materials.

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Made of titanium, the **EPB-PW** provides a rugged construction and is not affected by external clamping forces when fitted. Having a miniature design of 6.4 x 11.4mm ensures it is backwards compatible with other older manufacturers' products. This miniature pressure transducer features an **IP68** rating, flexible cable and is available with options such as a **PT1000** temperature sensor upon request.

The standard version is suitable for many applications, but the dedicated design team at our Transducer Engineering Centre stands ready to provide a custom design as required.

FEATURES

APPLICATIONS

- Miniature Design and Light Weight
- Pressure Range: 1 to 70 Bar (15 to 1000 psi)
- -40℃ to +80℃ Operating Temperature Range
- Pore Water Measurement
- Centrifuge
- Laboratory

STANDARD RANGES

Pressure ranges		Pressure Reference	Pressure	Output "FSO"	CNL&H	Thermal Zero Shift "TZS"
(BAR)	(PSI)	Sealed	Limit	(nom.)	(%FSO)	(/50°C)
1	15	•	4.5 x FS	30 mV	±1%	±4% FSO
1.5	25	•	3 x FS	50 mV	±1%	±2% FSO
3.5	50	•	2 x FS	75 mV	±1%	±2% FSO
7	100	•	2 x FS	125 mV	±0.5%	±1.5% FSO
15	250	•	2 x FS	125 mV	±0.5%	±1.5% FSO
35	500	•	2 x FS	125 mV	±0.5%	±1.5% FSO
70	1K	•	2 x FS	125 mV	±0.5%	±1.5% FSO



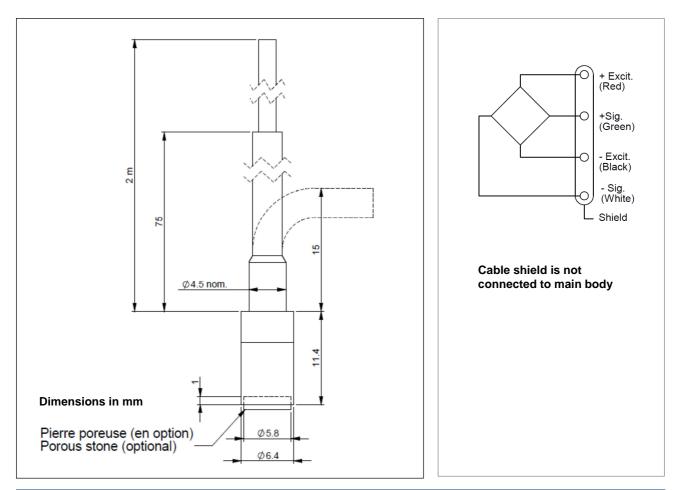
EPB-PW Miniature Pressure Transducer

PERFORMANCE SPECIFICATIONS

All values are typical at temperature 20±1°C (unless otherwise specified)								
PARAMETERS	VALUES	NOTES						
Supply Voltage	10VDC	See option table for other Voltages						
Input Resistance	1000Ω nom.							
Output Resistance	400Ω nom.							
Non-Repeatability	±0.25% FSO							
Thermal Sensitivity Shift "TSS"	±2% / 50°C [/100 °F]							
Operating Temperature	-40°C to 80°C [-40 to 170 °F]							
Compensated temperature	0°C to 60°C [32 to 140 °F]	See option table for other temperatures						
Zero Offset at 23℃	±10 mV							
Protection index	IP68 – 10 meters (1bar)							
CE conformance according to	EN 61010-1, EN 50081-1, EN 50082-1							

For custom configurations, consult factory.

DIMENSIONS & WIRING SCHEMATIC (IN METRIC)





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OPTIONS

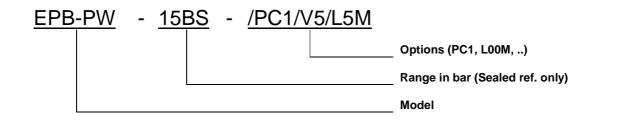
Z0 : Compensation Temperature Range -40 to 20℃ [-40 to 70年]

V5 : Excitation 5 Vdc and signal 50% of the FSO range

PCxx : Porous Ceramic installed. Replace "xx" by air entry value 0.5; 1; 3 or 5 bar

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

ORDERING INFORMATION



RECOMMENDED ACCESSORIES

Description	Air entry value	Maximum pore size	Part Number
PC: Porous Ceramic with	Porous Ceramic 0.5 bar	6.0 µm	ZPBS6220040.5
air entry from 0.5 to 5 bar ordered separately	Porous Ceramic 1 bar	2.5 µm	ZPBS6220041
	Porous Ceramic 3 bar	0.7 µm	ZPBS6220043
	Porous Ceramic 5 bar	0.5 µm	ZPBS6220045
BF: Bronze Filter	Consult factory	Consult factory	Consult factory

NORTH AMERICA

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