

AUTHORIZED DISTRIBUTOR









FEATURES

- Stainless steel construction
- Diaphragm size ø3.18 or ø3.56
- -40°C to +80°C Operating Temperature
- Wide ranges of temperature compensation

APPLICATIONS

- General lab. testing
- Robotics and machine control
- Automotive testing
- Marine and Flight testing

EPB

Miniature Pressure Sensor

SPECIFICATIONS

- Ranges from 0.35 to 350 bar (or 5 to 5000 psi)
- References absolute, sealed or vented
- Flush diaphragm
- Designed for static or dynamic measurements
- Accuracy up to ±0.5% FS

EPB is a small pressure probe sensor, small profile, stainless steel, flush mount transducer designed for general media.

The **EPB**'s frequency resonance goes from 55 kHz up to 400 kHz and makes it suitable for both static and dynamic measurements.

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.

Another version, the EPB-PW has been designed for pore water monitoring.

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

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STANDARD RANGES

Range (FS)		Pressure Reference			Pressure	Resonant Frequency ⁽¹⁾	Sensitivity "FSO"	CNL&H	ThermalZero Shift"TZS"
bar	psi	gage	sealed	abs.	Limit	(nom.)	(nom.)	(%FSO)	(/50°C)
0.35	5	•	•	•	10 x FS	55 kHz	10 mV	±1%	± 1mV
0.7	10	•	•	•	5 x FS	55 kHz	20 mV	±1%	±1mV
1	15	•	•	•	3.5 x FS	55 kHz	30 mV	±1%	± 1mV
1.5	25	•	•	•	2 x FS	55 kHz	50 mV	±1%	±2% FSO
3.5	50	•	•	•	2 x FS	60 kHz	75 mV	±1%	±2% FSO
7	100	•	•	•	2 x FS	70 kHz	125 mV	±0.75%	±1.5% FSO
15	250	•	•	•	2 x FS	100 kHz	125 mV	±0.5%	±1.5% FSO
35	500	•	•	•	2 x FS	150 kHz	125 mV	±0.5%	±1.5% FSO
70	1000		•	•	2 x FS	200 kHz	125 mV	±0.5%	±1.5% FSO
150	2500		•	•	2 x FS	300 kHz	125 mV	±0.5%	±1.5% FSO
350	5000		•	•	2 x FS	450 kHz	125 mV	±1%	±1.5% FSO

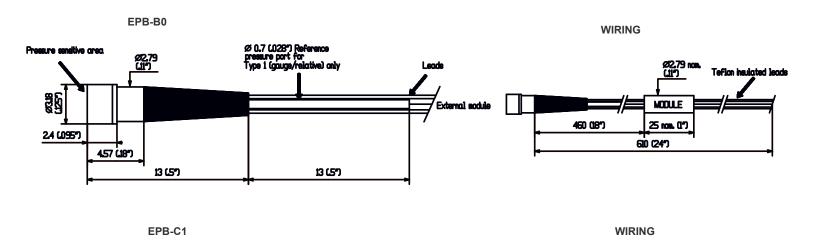
Note 1: useful frequency is 20% of Resonant Frequency

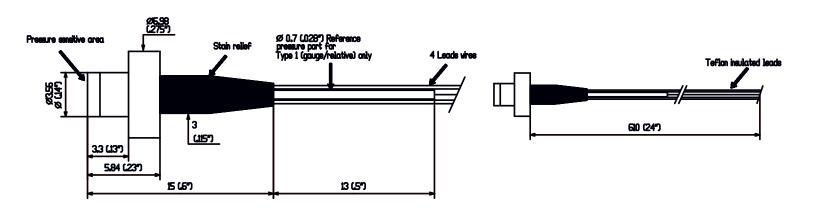
PERFORMANCE SPECIFICATIONS (typical values at temperature 23±3°C)

PARAMETERS	VALUES	NOTES			
Supply Voltage	10 Vdc	See option table for other Voltages			
Input Resistance	1200 Ωnom.				
Output Resistance	350 Ωnom.				
Non-Repeatability	±0.25% FS				
Thermal Sensitivity Shift in CTR	±2%/50°C				
Operating Temperature Range (OTR)	-40°C to 120°C				
Compensated temperature Range (CTR)	20°C to 80°C	See option table for other Temperatures			
Zero Offset	± 10 mV				
CE conformance according to	EN 61010-1, EN 50081-1, EN 50082-1				

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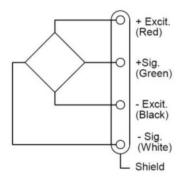
DIMENSIONS (in metric and imperial)





Dimensioninmm (ininch)

CONNECTIONS & INSTALLATION



Note: for EPB-B0 thermal compensation is made with an external module

OPTIONS AND ACCESSORIES

OPTIONS	CODES DESCRIPTIONS			
Compensated Temperature Ranges	Z0	-40°C to 20°C		
	Z 1	-20°C to 40°C		
	Z2	0°C to 60°C		
	Z 4	40°C to 90°C		
	Z*	Non-standard, contact factory		
Supply Voltage	V00	Replace "00" with Voltage between 1 and 10. If less than 10, Sensitivity "FSO" will decrease accordingly		
	V*	Custom Excitation with standard Sensitivity FSO non-standard TSS		
Special Cable Length	L00F	Replace "00" with total length in feet		
	L00M	Replace "00" with total length in meters		
Special Module Location for EPB-B0	M00F	Replace "00" with distance between sensor and module in feet		
	MOOM	Replace "00" with distance between sensor and module in meters		
Waterproofing Cable Exit	Х	Short Term Waterproofing (only for EPB-C1 sealed or absolute)		
Connector Wired to Leads or Cable C		Microtech type male or equivalent (w/o mate)		
	RS	RJ Telephone type male (w/o mate)		

ORDERING INFORMATION

EPB	-	В0	1	-	7B		-	/Z1/V5/L3M/M2M
Model		Body	Pres. Ref.	-	Range & Unit ⁽¹⁾		-	/Options
ЕРВ	-	B0 C1	1 = Gauge 2 = Sealed 3 = Absolute	-	0.35B 0.7B 1B 1.5B 3.5B 7B 15B 35B 70B 150B 350B	5P 10P 15P 25P 50P 100P 250P 500P 1KP 2.5KP	-	/Z0, Z1, Z2, Z4 or Z* /V1 thru V10 or V* /L00F or L00M /M00F or M00M /X /C or RS

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