



- Miniature design (body ø11 mm)
- Any liquid or gas media compatible with stainless steel
- Operating temperature up to 150 ℃ (300 F)
- Rugged for severe environment
- CE approved

DESCRIPTION

Ultra miniature pressure transducer, 100% stainless steel welded construction with amplified output, designed for severe environment where minimum size and weight are required.

FEATURES

- Liquid and gas media compatible with SS
- Ranges from 3.5 to 700 bar (50 to 10,000 PSI)
- Operating Temperature up to 150°C (300°F)
- Combined NL&H ±0.25%

APPLICATIONS

- Motorsports
- Downhole Exploration
- Hydraulic Pressures
- Transportation

STANDARD RANGES

Pressure ranges		Pressure Reference	Pressure Overload	Burst Pressure		
(BAR)	(PSI)	abs. (type3)	(rated pressure)	(rated pressure)		
3.5	50	•	2 x FS	3 x FS		
6	100	•	2 x FS	3 x FS		
10	150	•	2 x FS	3 x FS		
20	300	•	2 x FS	3 x FS		
35	500	•	2 x FS	3 x FS		
60	1K	•	2 x FS	3 x FS		
100	1.5K	•	2 x FS	3 x FS		
200	ЗK	•	2 x FS	3 x FS		
350	5K	•	2 x FS	3 x FS		
700	10K	•	1.5 x FS	2 x FS		



PERFORMANCE SPECIFICATIONS

All values are typical at temperature 20±1 °C

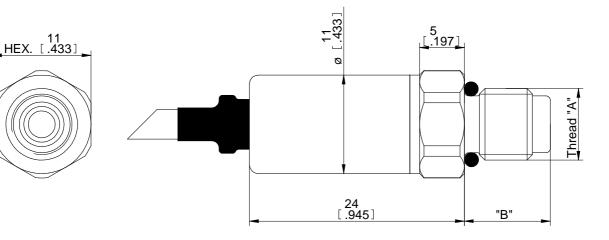
PARAMETERS	VALUES	NOTES
Supply Voltage	Version U: 8 to 32VDC ; Version R: 5 VDC reg.	
Max Current	< 8 mA	
Non-Repeatability	±0.05% FSO typ.	
CNL & H	± 0.25% FSO	
Long term stability	Offset = 0.1%span/year ; Span = 0.1%/year	
Bandwidth (-3 dB)	400 Hz	
Thermal Zero Shift "TZS"	± 1%FSO /100° C (±2% FSO/100℃ for range	es ≤ 10 bar or 150 psi)
Thermal Sensitivity Shift "TSS"	$\pm 1\% / 100^{\circ}$ C ($\pm 1.5\% / 100^{\circ}$ C for ranges ≤ 10	bar or 150 psi)
Operating Temperature	- 40°C to 150°C	
Compensated Temperature	0°C to 100°C	See option f or other Temperature
Output "FSO"	$0.5 \text{ to } 4.5 \text{V} = 4 \text{V} \pm 50 \text{mV}$	
Zero Offset at 23°C	$0.5V \pm 50mV (0.5V \pm 100mV \text{ for ranges} \le 10 \text{ b}$	ar or 150 psi)
Vibration	2g (10Hz to 60Hz) and 20g (60Hz to 1 KHz)	
Shock (1/2 sine)	50g (11 ms) and 200g (6 ms)	
Weight (without cable)	13 g + 20 g per meter of cable	
Ingress Protection	IP66	

CE compliance

EN55022 Emissions Class A & B IEC61000-4-2 Electrostatic Discharge Immunity (1kV contact) IEC61000-4-3 EM Field Immunity (3V/m) IEC61000-4-4 Electrical Fast Transient Immunity (1kV)



DIMENSIONS



PHYSICAL (SEE BLOCK DIAGRAM)							
MODEL	THREAD "A"	THREAD LENGTH "B"	O-RING SUPPLIED	RECOMMENDED INSTALLATION TORQUE			
Ν	M5x0.8	8.6 (.34")	Ø3.5x1.5 FKM Fluoroelastomer	1 Nm (2 Nm max.)			
V	10-32 UNF-2A	8.6 (.34")	Ø3.5x1.5 FKM Fluoroelastomer	1 Nm (2 Nm max.)			
S	M8X1	9.6 (.38")	Ø6.35x1.6 FKM Fluoroelastomer	2.5 Nm (5 Nm max.)			
Q	5/16-24 UNF-2A	9.6 (.38")	Ø6.35x1.6 FKM Fluoroelastomer	2.5 Nm (5 Nm max.)			

INSTALLATION & CONNECTION

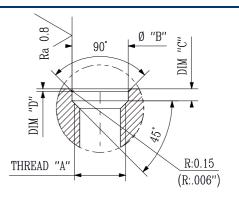
RECOMMENDED MOUNTED PORT							
Thread "A"	Dim. "B" Dim. "C		Dim. "D"				
M5x0.8	5.6 mm	1.5 mm	0.2 mm				
10-32 UNF	0.22"	0.060"	0.01"				
M8x1	8.8 mm	1.9 mm	0.4 mm				
5/16-24 UNF-2A	0.35"	0.075"	0.015"				

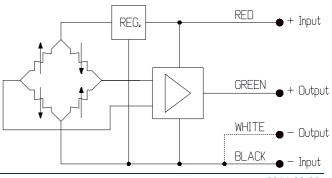
Tolerances on dimensions = ± 0.05 mm (0.002")

WIRING:

Standard: 1 meter of unshielded cable 3 x AWG24

Option SC00M: shielded cable 4 x AWG26 (Replace "00" with total length in meter)







OPTIONS AND ACCESSORIES

OPTIONS	CODES	DESCRIPTIONS
Compensated Temperature Ranges	Z1 Z35	-20°C to 40°C +20°C to 120°C
Schielded cable (4 leads x AWG26)	SC00M	Replace "00" with total length in meters (SC1M ; SC3M ; SC5M)
Acceptance Test Report	ATR	ATR for a complete Acceptance Test Report provided with transducer

ORDERING INFORMATION

Model	-	Pressure Port	Supply Voltage	Output Signal	Pres. Ref.	-	Range/Unit		-	Options
EPRB-1	-	N = M5x0.8 V = 10-32 UNF S = M8x1 Q = 5/16-24 UNF	U = 8 to 32 VDC R = 5 VDC reg.	3 = 0.5 to 4.5 V	3 = Absolute	-	3.5B 6B 10B 20B 35B 60B 100B 200B 350B 700B	50P 100P 150P 300P 500P 1KP 1.5KP 3KP 5KP 10KP	-	/Z1 /Z35 /SC00M /ATR

Example : EPRB-1-VU33-500P-/Z1/SC5M

The **psi** range models are only supplied with imperial thread design. The **bar** range models are only supplied with metric thread design.

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