



- Pressure transducer with platinum RTD
- Miniature design (body ø12 mm)
- Any liquid or gas media compatible with stainless steel
- Operating temperature up to 150 ℃ (300 ℉)
- Rugged for severe environment
- CE approved

DESCRIPTION

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

FEATURES

- Pressure + temperature measurement
- Liquid and gas media compatible with SS
- Pressure port M8x1 or 5/16-24 UNF
- Operating temperature up to 150°C (300°F)

APPLICATIONS

- Motorsports
- Downhole Exploration
- Hydraulic Pressures
- Transportation

STANDARD RANGES

Pressure ranges		Pressure Reference	Presure Overload	Burst Presure		
(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	3K	•	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 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"	$\pm 1\% /100$ °C ($\pm 1.5\% /100$ °C for ranges ≤ 10	bar or 150 psi)			
Operating Temperature	-40°C to 150°C				
Compensated Temperature	0°C to 100°C	See option t able for other Temperature			
Output "FSO"	$0.5 \text{ to } 4.5 \text{V} = 4 \text{V} \pm 50 \text{mV}$				
Zero Offset at 23℃	$0.5V \pm 50mV$ (0.5V $\pm 100mV$ for ranges ≤ 10 k	oar 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)	15 g + 23 g per meter of cable				
Temperature sensor RTD	1000 ohms Platinum DIN EN 60751	63% response time: 3 seconds max.			
Ingress Protection	IP66				

CE compliance

EN55022 Emissions Class A & B

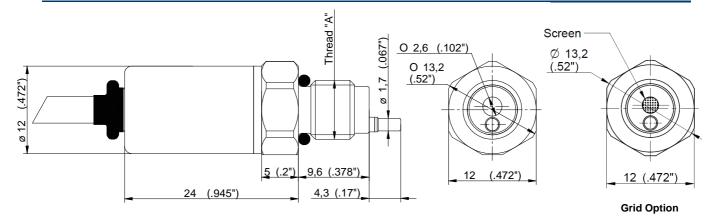
IEC61000-4-2 Electrostatic Discharge Immunity (1kV contact)

IEC61000-4-3 EM Field Immunity (3V/m)

IEC61000-4-4 Electrical Fast Transient Immunity (1kV)



DIMENSIONS

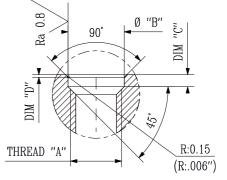


PHYSICAL (SEE BLOCK DIAGRAM)						
MODEL THREAD "A"		O-RING SUPPLIED	INSTALLATION TORQUE (MAX.)			
S	M8X1	Ø6.35x1.6 FKM Fluoroelastomer	2.5 Nm (5 Nm max.)			
Q	5/16-24 UNF-2A	Ø6.35x1.6 FKM Fluoroelastomer	2.5 Nm (5 Nm max.)			

INSTALLATION & CONNECTION

RECOMMENDED MOUNTED PORT								
Thread "A"	Dim. "B"	Dim. "C"	Dim. "D"					
M8x1	8.8 mm 1.9 mm		0.4 mm					
5/16-24 UNF-2A	0.35"	0.075"	0.015"					

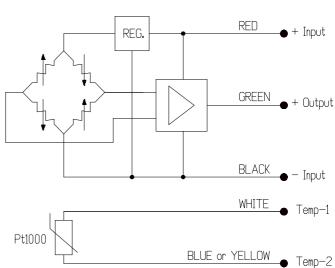
Tolerances on dimensions = ± 0.05 mm (0.002")



WIRING:

Standard: 1 meter of unshielded cable 5 x AWG26

Option **SC00M**: shielded cable 5 x AWG24 (Replace "00" with total length in meter)





OPTIONS & ACCESSORIES

OPTIONS	CODES	DESCRIPTIONS
Compensated Temperature Ranges	Z1 Z35	-20°C to 40°C +20°C to 120°C
Schielded cable	SC00M	Replace "00" with total length in meters (SC1M; SC3M; SC5M)
Grid	GR	Screen version (see dimension page 2)
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-3	-	S = M8x1	U = 8 to 32 VDC	3 = 0.5 to 4.5 V	3 = Absolute	-	3.5B	50P	-	/Z1
		Q = 5/16-24 UNF	R = 5 VDC reg.				6B	100P		/Z35
							10B	150P		/SC00M
							20B	300P		/GR
							35B	500P		/ATR
							60B	1KP		
							100B	1.5KP		
							200B	3KP		
							350B	5KP		
							700B	10KP		

Example: EPRB-3-QU33-500P-/Z1/SC3M

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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