

Model Number
214B

Revision: H
ECN #: 50221

	ENGLISH	SI	
Performance			
Sensitivity(± 15 %)	18 pC/lb	4,047 pC/kN	
Measurement Range(Compression)	≤ 40,000 lb	≤ 177.92 kN	
Maximum Static Force(Compression)	50,000 lb	222.4 kN	
Upper Frequency Limit	55,000 Hz	55,000 Hz	[1][2]
Non-Linearity	≤ 1.5 % FS	≤ 1.5 % FS	[3]
Environmental			
Temperature Range	-100 to +400 °F	-73 to +204 °C	
Temperature Coefficient of Sensitivity	≤ 0.03 %/°F	≤ 0.054 %/°C	
Electrical			
Capacitance	32 pF	32 pF	[4]
Insulation Resistance	≥ 1E12	≥ 1E12	
Output Polarity(Compression)	Negative	Negative	
Physical			
Preload	8,000 lb	35.585 kN	
Stiffness	29 lb/μin	5 kN/μm	[4]
Size (Diameter x Height x Bolt Diameter x Sensing Surface)	1.34 in x 0.470 in x 0.625 in x 1.10 in	34 mm x 11.9 mm x 16 mm x 28 mm	
Size - ID(Hole Diameter)	0.660 in	16.76 mm	
Size - OD(Sensor)	1.340 in	34 mm	
Weight	2 oz	57 gm	
Housing Material	Stainless Steel	Stainless Steel	
Sealing	Hermetic	Hermetic	
Electrical Connector	10-32 Coaxial Jack	10-32 Coaxial Jack	
Electrical Connection Position	Side	Side	

OPTIONAL VERSIONS

Optional versions have identical specifications and accessories as listed for the standard model except where noted below. More than one option may be used.

M - Metric Mount
 Supplied Accessory: Model 080A82 Assembly Lubricant
 Supplied Accessory: Model 082B04 Anti-friction washer (for Models 204C and 214B)
 Supplied Accessory: Model M081A14 Mounting Stud, M14 x 1.25 x 1.400, BeCu
 Supplied Accessory: Model M083B04 Pilot Bushing

P - Positive Output Polarity
 Output Polarity(Compression) Positive Positive

W - Water Resistant Cable
 Electrical Connector Molded Integral Cable Molded Integral Cable
 Electrical Connection Position Side Side

NOTES:

- [1] Estimated using rigid body dynamics calculations.
- [2] Low frequency response and system noise dependent on choice of external signal conditioning electronics.
- [3] Zero-based, least-squares, straight line method.
- [4] Typical.

SUPPLIED ACCESSORIES:

- Model 080A82 Assembly Lubricant
- Model 081A14 Mounting Stud, 1/2-20 x 1.400, BeCu
- Model 082B04 Anti-friction washer (for Models 204C and 214B)
- Model 083B04 Pilot bushing (for Models 204C and 214B)

Entered: RB	Engineer: RPF	Sales: RWM	Approved: RPF	Spec Number:
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All specifications are at room temperature unless otherwise specified.
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