

Performance	ENGLISH	SI	
Sensitivity(± 15 %)	0.12 mV/lb	27.0 mV/kN	
Measurement Range(Compression)	40,000 lb	177.92 kN	
Maximum Static Force(Compression)	50,000 lb	222.4 kN	
Broadband Resolution(1 to 10,000 Hz)	0.80 lb-rms	3.6 N-rms	[1]
Low Frequency Response(-5 %)	0.0003 Hz	0.0003 Hz	[2]
Upper Frequency Limit	55 kHz	55 kHz	[3]
Non-Linearity	≤ 1.5 % FS	≤ 1.5 % FS	[4]
Environmental			
Temperature Range	-65 to +250 °F	-54 to +121 °C	
Temperature Coefficient of Sensitivity	≤ 0.08 %/°F	≤ 0.14 %/°C	
Electrical			
Discharge Time Constant(at room temp)	≥ 2000 sec	≥ 2000 sec	
Excitation Voltage	20 to 30 VDC	20 to 30 VDC	
Constant Current Excitation	2 to 20 mA	2 to 20 mA	
Output Impedance	≤ 100 Ohm	≤ 100 Ohm	
Output Bias Voltage	8 to 14 VDC	8 to 14 VDC	
Spectral Noise(1 Hz)	0.088 lb/√Hz	0.39 N/√Hz	[1]
Spectral Noise(10 Hz)	0.025 lb/√Hz	0.11 N/√Hz	[1]
Spectral Noise(100 Hz)	0.0060 lb/√Hz	0.0266 N/√Hz	[1]
Spectral Noise(1 kHz)	0.0016 lb/√Hz	0.00719 N/√Hz	[1]
Output Polarity(Compression)	Positive	Positive	
Physical			
Preload	8000 lb	35.585 kN	
Stiffness	29 lb/μin	5 kN/μm	[1]
Size (Diameter x Height x Bolt Diameter x Sensing Surface)	1.34 in x 0.47 in x 0.625 in x 1.10 in	34 mm x 12 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	2.0 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 M081A14 Mounting Stud, M14 x 1.25 x 1.400, BeCu (1)		
Supplied Accessory : Model M083B04 Pilot Bushing (1)		
N - Negative Output Polarity		
Output Polarity(Compression)	Negative	Negative
W - Water Resistant Cable		
Electrical Connector	Sealed Cable	Sealed Cable
Electrical Connection Position	Side	Side

NOTES:
 [1] Typical.
 [2] Calculated from discharge time constant.
 [3] Estimated using rigid body dynamics calculations.
 [4] Zero-based, least-squares, straight line method.
 [5] See PCB Declaration of Conformance PS023 for details.

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

Entered: LK	Engineer: RPF	Sales: KK	Approved: RPF	Spec Number:
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All specifications are at room temperature unless otherwise specified.
 In the interest of constant product improvement, we reserve the right to change specifications without notice.
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