Model Number	ICP® FORCE	Revision: D
206C		ECN #: 17667

	ENGLISH	SI	
Performance			
Sensitivity (± 15 %)	0.06 mV/lb	13.5 mV/kN	
Measurement Range (Compression)	80,000 lb	355.86 kN	
Maximum Static Force (Compression)	90,000 lb	400.34 kN	
Broadband Resolution (1 to 10,000 Hz)	1.8 lb-rms	8.0 N-rms	[1]
Low Frequency Response (-5 %)	0.0003 Hz	0.0003 Hz	[2]
Upper Frequency Limit	40 kHz	40 kHz	[3]
Non-Linearity	≤ 1 % FS	≤ 1 % FS	[4]
Environmental			
Temperature Range	-65 to +250 °F	-54 to +121 °C	
Temperature Coefficient of Sensitivity	≤ 0.11 %/°F	≤ 0.198 %/°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 ohms	≤ 100 ohms	
Output Bias Voltage	8 to 14 VDC	8 to 14 VDC	
Spectral Noise (1 Hz)	0.16 lb/√Hz	0.71 N/√Hz	[1]
Spectral Noise (10 Hz)	0.050 lb/√Hz	0.22 N√Hz	[1]
Spectral Noise (100 Hz)	0.014 lb/√Hz	0.0625 N/√Hz	[1]
Spectral Noise (1 kHz)	0.0036 lb/√Hz	0.0160 N/√Hz	[1]
Output Polarity (Compression)	Positive	Positive	
Physical			
Preload	16,000 lb	71.172 kN	
Stiffness	74 lb/µin	13 kN/µm	[1]
Size (Diameter x Height x Bolt Diameter x Sensing Surface)	2.05 in x 0.590 in x 1 in x 1.750 in	52.1 mm x 15 mm x 24 mm x 44.4 mm	
Size (ID) (Hole Diameter)	1.025 in	26 mm	
Size (OD) (Sensor)	2.05 in	52 mm	
Weight	5.5 oz	155 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	

CE [5]

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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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 M081A16 Mounting Stud, M22 x 2.00 x 1.900, BeCu (1)
Supplied Accessory : Model M083B06 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 081A16 Mounting Stud, 7/8-14 x 1.900, BeCu (1)
Model 082B06 Anti-Friction Washer (1)
Model 083B06 Pilot Bushing (for Models 206C and 216B) (1)

ICP® Force

Entered:	Engineer:	Sales:	Approved:	Spec Number:
Date: 6/3/03	Date: 6/3/03	Date: 6/3/03	Date: 6/3/03	5875

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