

Model Number 207C		ICP® FORCE SENSOR		Revision: H ECN #: 48681	
Performance		ENGLISH	SI	OPTIONAL VERSIONS	
Sensitivity(± 15 %)		0.05 mV/lb	11.2 mV/kN	Optional versions have identical specifications and accessories as listed for the standard model except where noted below. More than one option may be used.	
Measurement Range(Compression)		100,000 lb	444.8 kN	M - Metric Mount	
Maximum Static Force(Compression)		110,000 lb	489.3 kN	Supplied Accessory : Model M081A17 Mounting Stud, M30 x 2.00 x 2.280, BeCu (1) replaces Model 081A17	
Broadband Resolution(1 to 10,000 Hz)		2.0 lb-rms	8.9 N-rms	Supplied Accessory : Model M083B07 Pilot Bushing (1) replaces Model 083B07	
Low Frequency Response(-5 %)		0.0003 Hz	0.0003 Hz	N - Negative Output Polarity	
Upper Frequency Limit		35 kHz	35 kHz	Output Polarity(Compression)	
Non-Linearity		≤ 1 % FS	≤ 1 % FS	Negative	
Environmental				Negative	
Temperature Range		-65 to +250 °F	-54 to +121 °C	W - Water Resistant Cable	
Temperature Coefficient of Sensitivity		≤ 0.12 %/°F	≤ 0.216 %/°C	Electrical Connector	
Electrical				Sealed Cable	
Discharge Time Constant(at room temp)		≥ 2000 sec	≥ 2000 sec	Electrical Connection Position	
Excitation Voltage		20 to 30 VDC	20 to 30 VDC	Side	
Constant Current Excitation		2 to 20 mA	2 to 20 mA	Sealed Cable	
Output Impedance		≤ 100 Ohm	≤ 100 Ohm	Side	
Output Bias Voltage		8 to 14 VDC	8 to 14 VDC		
Spectral Noise(1 Hz)(1)		0.0524 lb/√Hz	0.23 N/√Hz	NOTES:	
Spectral Noise(10 Hz)(10)		0.0230 lb/√Hz	0.10 N/√Hz	[1] Typical.	
Spectral Noise(100 Hz)(100)		0.00854 lb/√Hz	0.0381 N/√Hz	[2] Calculated from discharge time constant.	
Spectral Noise(1 kHz)(1)		0.00214 lb/√Hz	0.00955 N/√Hz	[3] Estimated using rigid body dynamics calculations.	
Output Polarity(Compression)		Positive	Positive	[4] Zero-based, least-squares, straight line method.	
Physical				[5] See PCB Declaration of Conformance PS023 for details.	
Preload		33,750 lb	150.13 kN		
Stiffness		131 lb/μin	23 kN/μm		
Size (Diameter x Height x Bolt Diameter x Sensing Surface)		2.950 in x 0.670 in x 1.5 in x 2.660 in	74.9 mm x 17.02 mm x 36 mm x 67.6 mm		
Size (ID)(Hole Diameter)		1.610 in	40 mm		
Size (OD)(Sensor)		2.950 in	74.9 mm		
Weight		11.57 oz	328 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		
Entered: LK		Engineer: RPF		Sales: KK	Approved: RPF
Date: 9/19/2018		Date: 9/19/2018		Date: 9/19/2018	Date: 9/19/2018
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