


Model Number 394A 10		CALIBRATION SYSTEM		Revision: H ECN #: 50036	
Performance		ENGLISH	SI	OPTIONAL VERSIONS	
Sensitivity(± 0.5 %)(Voltage)		100 mV/g	10.2 mV/(m/s ²)	Optional versions have identical specifications and accessories as listed for the standard model except where noted below. More than one option may be used. [5]	
Measurement Range(± 5V)(Output)		50 ±g pk	490 ±m/s ² pk	M - Metric Mount	
Frequency Range(± 2 %)		5 to 5,000 Hz	5 to 5,000 Hz	Sensitivity± 0.5	10 mV/(m/s ²) 98 mV/g
Frequency Range(± 5 %)		0.5 to 10,000 Hz	0.5 to 10,000 Hz		
Frequency Range(± 10 %)		0.3 to 14,000 Hz	0.3 to 14,000 Hz		
Resonant Frequency(Mounted)		≥ 35 kHz	≥ 35 kHz		
Broadband Resolution(1 Hz to 10 kHz)		0.004 g rms	0.039 m/s ² rms [1]		
Amplitude Linearity		≤ 1 %	≤ 1 % [2]		
Transverse Sensitivity		≤ 3 %	≤ 3 %		
Sensitivity(Base Strain)		0.0001 g/µε	0.001 (m/s ²)/µε		
Environmental					
Warm Up		< 5.0 sec	< 5.0 sec		
Temperature Range(Operating)		-65 to +250 °F	-54 to +121 °C		
Electrical					
Spectral Noise(1 Hz)		235 (µm/s ²)/√Hz	2,303 [1]		
Spectral Noise(10 Hz)		55 (µm/s ²)/√Hz	539 [1]		
Spectral Noise(100 Hz)		18 (µm/s ²)/√Hz	176 [1]		
Spectral Noise(1 kHz)		12 (µm/s ²)/√Hz	118 [1]		
Physical					
Sensing Element		Quartz/Shear	Quartz/Shear		
Housing Material		Stainless Steel/Welded	Stainless Steel/Welded		
Size (Hex x Height x Height x Width x Depth)		1.19 in x 1.5 in x 6.3 in x 2.4 in x 30.2 mm x 38.1 mm x 16 cm x			
		11.0 in	6.1 cm x 28 cm		
Weight		6.2 oz	176 gm [1]		
Electrical Connector		10-32 Coaxial/Side	10-32 Coaxial/Side		
Mounting Thread(Standard)		1/4-28 UNF	1/4-28 UNF [3]		
Mounting Torque		20 to 30 in-lb	225 to 338 N-cm		
Power(± 5%)(Required)		36 VDC	36 VDC [4]		
Weight		1.51 lb	685 gm [1]		
Cable Connector(Input)		BNC Jack/Rear	BNC Jack/Rear		
Cable Connector(Output)		BNC Jack/Rear	BNC Jack/Rear		
NOTES:					
[1]Typical.					
[2]Zero-based, least-squares, straight line method.					
[3]Mounting thread typical top and bottom of sensor.					
[4]Provided by 488A04.					
[5]Measured at 159 Hz.					
SUPPLIED ACCESSORIES:					
Model 002C10 General purpose, white, coaxial PTFE cable, 10-ft, 10-32 coaxial plug to BNC plug (1)					
Model 012A03 Output cable, black coaxial (RG58/U), 3-ft, BNC plug to BNC plug (1)					
Model 017AXX Power Cord (1)					
Model 081A08 Mounting Stud (10-32 to 1/4-28) (2)					
Model 081B20 Mounting Stud, with shoulder (1/4-28 to 1/4-28) (2)					
Model 301A10 Calibration ICP® accel., 100 mV/g, 50g, 0.5 to 10 kHz, 10-32 side conn., -28 bottom, -28 top (1)					
Model 482A23 1-channel, line-powered, ICP® sensor signal cond., BNC input/output conn. X0.9 to x1.1 gain, (for use in 394A10/394A11 systems) (1)					
Model 488B04 Power Supply, 100 to 125 VAC or 200 to 250 VAC input, 27 VDC @ 20 mA output. (1)					
Model ACS-1 NIST traceable frequency response (10 Hz to upper 5% point).					
Model ACS-4 Single axis, low frequency phase and amplitude response cal (from 0.5 to 10Hz)					
Model M081B20 Mounting Stud 1/4-28 to M6 X 0.75 (2)					
Entered: LK	Engineer: CPH	Sales: WDC	Approved: DY	Spec Number:	
Date: 10/18/2019	Date: 10/18/2019	Date: 10/18/2019	Date: 10/18/2019	3445	
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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. ICP® is a registered trademark of PCB Piezotronics, Inc.					