


Model Number 394A10		CALIBRATION SYSTEM		Revision: G ECN #: 40806	
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.	
Measurement Range(± 5V)(Output)	50 ±g pk	490 ±m/s ² pk		M - Metric Mount [5]	
Frequency Range(± 2 %)	5 to 5000 Hz	5 to 5000 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]	NOTES:	
Transverse Sensitivity	≤ 3 %	≤ 3 %		[1]Typical.	
Sensitivity(Base Strain)	0.0001 g/με	0.001 (m/s ²)/με		[2]Zero-based, least-squares, straight line method.	
Environmental				[3]Mounting thread typical top and bottom of sensor.	
Warm Up	<5.0 sec	<5.0 sec		[4]Provided by 488A04.	
Temperature Range(Operating)	-65 to +250 °F	-54 to +121 °C		[5]Measured at 159 Hz.	
Electrical				SUPPLIED ACCESSORIES:	
Spectral Noise(1 Hz)	235 (μm/s ²)/√Hz	2303	[1]	Model 002C10 General purpose, white, coaxial PTFE cable, 10-ft, 10-32 coaxial plug to BNC plug (1)	
Spectral Noise(10 Hz)	55 (μm/s ²)/√Hz	539	[1]	Model 017AXX Power Cord (1)	
Spectral Noise(100 Hz)	18 (μm/s ²)/√Hz	176	[1]	Model 012A03 Output cable, black coaxial (RG58/U), 3-ft, BNC plug to BNC plug (1)	
Spectral Noise(1 kHz)	12 (μm/s ²)/√Hz	118	[1]	Model 017AXX Power Cord (1)	
Physical				Model 081A08 Mounting Stud (10-32 to 1/4-28) (2)	
Sensing Element	Quartz/Shear	Quartz/Shear		Model 081B20 Mounting Stud, with shoulder (1/4-28 to 1/4-28) (2)	
Housing Material	Stainless Steel/Welded	Stainless Steel/Welded		Model 301A10 Calibration ICP® accel., 100 mV/g, 50g, 0.5 to 10 kHz, 10-32 side conn., -28 Bottom, -28 Top (1)	
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 11.0 in	30.2 mm x 38.1 mm x 16 cm x 6.1 cm x 28 cm		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)	
Weight	6.2 oz	176 gm	[1]	Model 488A04 Universal AC power source (1)	
Electrical Connector	10-32 Coaxial/Side	10-32 Coaxial/Side		Model ACS-1 NIST traceable frequency response (10 Hz to upper 5% point).	
Mounting Thread(Standard)	1/4-28 UNF	1/4-28 UNF	[3]	Model ACS-4 Single axis, low frequency phase and amplitude response cal (from 0.5 to 10Hz)	
Mounting Torque	20 to 30 in-lb	225 to 338 N-cm		Model M081B20 Mounting Stud 1/4-28 to M6 X 0.75 (2)	
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			
<i>All specifications are at room temperature unless otherwise specified.</i>					
<i>In the interest of constant product improvement, we reserve the right to change specifications without notice.</i>					
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