Model Number 9106C11

PRIMARY DOUBLE-ENDED TRANSFER STANDARD ACCELEROMETER SYSTEM [1]

Revision: NR ECN #:

PERFORMANCE	English	SI		
Sensitivity (±10%)	10 mV/g	1.02 mV/(m/s ²)		
Measurement Range	±500 g pk	±4905 m/s ² pk		Typical Sensitivity Deviation vs Temperature
Frequency Range (±5%)	1 to 10,000 Hz	1 to 10,000 Hz		<u> </u>
Frequency Range (±10%)	0.7 to 20,000 Hz	0.7 to 20,000 Hz		<u> </u>
Resonant Frequency	≥70 kHz	≥70 kHz		
Broadband Resolution (1 to 10000 Hz)	0.005 g rms	$0.05 \text{ m/s}^2 \text{ rms}$	[2]	- Fig. 5-
Non-Linearity	≤1 %	≤1 %	[3]	å 0
Transverse Sensitivity	≤5 %	≤5 %	[4]	.⊉ -5-
ENVIRONMENTAL				10 10 10 10 10 10 170 210 250
Overload Limit (Shock)	±10,000 g pk	±98,100 m/s ² pk		ង់ -70 -30 10 50 90 130 170 210 250
Temperature Range (Operating)	-65 to 250 °F	-54 to +121 °C		ν -10 -30 10 30 30 130 110 210 230
Temperature Response	See Graph	See Graph	[2]	Tarana américa (SC)
ELECTRICAL				Temperature (°F)
Excitation Voltage	18 to 30 VDC	18 to 30 VDC		
Constant Current Excitation	2 to 20 mA	2 to 20 mA		
Output Impedance	≤100 Ohm	≤100 Ohm		LASER PRIMARY CALIBRATION UNCERTAINTY
Output Bias Voltage	8 to 12 VDC	8 to 12 VDC		MCS-A065 Calibration with K394A31 air bearing shaker.
Discharge Time Constant	0.5 to 2.0 Sec	0.5 to 2.0 Sec		Calibration data acquired from 5 to 20 kHz at 10 pts/decade plus 159 Hz.
Setting Time (Within 10% of Bias)	<5 sec	<5 sec		
Spectral Noise (1 Hz)	3200 μg/√Hz	31392 (µm/s²)/√Hz	[2]	Expanded uncertainties using a coverage factor of k=2:
Spectral Noise (10 Hz)	700 μg/√Hz	6867 (µm/s²)/√Hz	[2]	5 Hz 1%
Spectral Noise (100 Hz)	180 μg/√Hz	1766 (µm/s²)/√Hz	[2]	(5 < f < 100) Hz 0.5%
Spectral Noise (1 kHz)	64 μg/√Hz	628 (μm/s²)/√Hz	[2]	100 Hz, 159 Hz 0.2%
PHYSICAL	1 3	(1-1-7)		$(159 < f \le 1000) \text{ Hz}$ 0.5%
Sensing Element/Geometry	Quartz/Shear	Quartz/Shear		(1000 < f ≤ 5000) Hz 0.7%
Housing Material	Beryllium	Beryllium		(15000< f ≤ 20000) Hz 2.0%
Sealing	Welded Hermetic	Welded Hermetic		f represents calibration frequency
Size (Hex x Height)	1.05 in x 1.45 in	26.7 mm x 36.8 mm		
Weight (Without Cable)	1.66 oz	47.0 gm	[2]	
Electrical Connector	10-32 Coaxial Plug	10-32 Coaxial Plug		NOTES SUPPLIED ACCESSORIES
Mounting Thread (Shaker Mount)	4 x 8-32	4 x 8-32		[1] For use with 396C10/C11 air bearing shaker. 003C03 Sensor Cable (1)
Mounting Thread (Unit Under Test Mount)	1/4-28 Female	1/4-28 Female		[2] Typical. 012A03 Output Cable (1)
ICP® SIGNAL CONDITIONER				[3] Zero-based, least squares, straight line method. K9525-1032-MACC or 9101C Mount Kit (1)
Voltage Gain (±1%)	1:1	1:1		[4] Transverse sensitivity is typically ≤3%. 100-8623-00 Hex key 9/16 (1)
Low Frequency Response (-5%)	<0.1 Hz	<0.1 Hz		[5] Supplied external DC power supply 488B04. 100-8092-40 8/32 x 1 screws (4)
Universal Input Power	100-240 VAC; 50-60 Hz	100-240 VAC; 50-60 Hz	[5]	[6] With ≥ 1M ohm input impedance of readout MCS-A065 Primary Calibration 5-20 kHz (1)
Discharge Time Constant (0 to +50%)	10 sec	10 sec	[6]	device.
Electrical Connectors (Input, Output)	BNC Jack	BNC Jack		
All specifications are at room temperature unless otherwise specified.				
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				EJS Thus PS-0087
In the interest of constant product improvement, specifications may change without notice.			Date: 7/11/11 Date: 7/12/11 Date: 7 11/11	



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