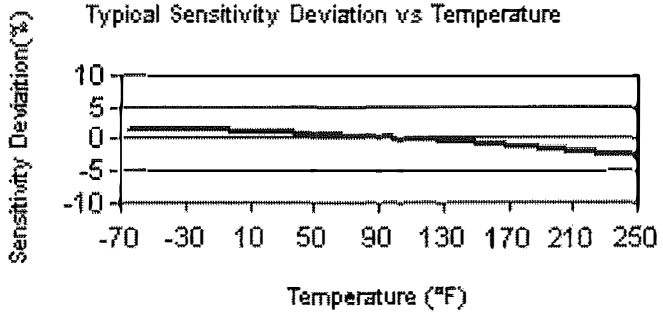
Model Number
9106C01

DOUBLE-ENDED TRANSFER STANDARD ACCELEROMETER SYSTEM

Revision: NR
ECN #:

PERFORMANCE	English	SI	
Sensitivity (±2.0%)	100 mV/g	10.2 mV/(m/s²)	
Measurement Range	±50 g pk	±490 m/s² pk	
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	
Frequency Range (±3 dB)	0.2 to 20,000 Hz	0.2 to 20,000 Hz	
Resonant Frequency	≥35 kHz	≥35 kHz	
Broadband Resolution (1 to 10000 Hz)	0.004 g rms	0.039 m/s² rms	[1]
Non-Linearity	≤1 %	≤1 %	[2]
Transverse Sensitivity	≤3 %	≤3 %	
ENVIRONMENTAL			
Overload Limit (Shock)	±5000 g pk	±49050 m/s² pk	
Temperature Range (Operating)	-65 to +250 °F	-54 to +121 °C	
Temperature Response	See Graph	See Graph	[1]
ELECTRICAL			
Excitation Voltage	23 to 30 VDC	23 to 30 VDC	
Constant Current Excitation	2 to 20 mA	2 to 20 mA	
Output Impedance	<100	<100	
Output Bias Voltage	11 to 17 VDC	11 to 17 VDC	
Discharge Time Constant	2.0 to 5.0 sec	2.0 to 5.0 sec	
Setting Time (Within 10% of Bias)	<12.0 sec	<12.0 sec	
Spectral Noise (10 Hz)	65 µg/√Hz	638 (µm/sec²)/√Hz	[1]
Spectral Noise (100 Hz)	20 µg/√Hz	196 (µm/sec²)/√Hz	[1]
Spectral Noise (1 kHz)	15 µg/√Hz	147 (µm/sec²)/√Hz	[1]
PHYSICAL			
Sensing Element/Geometry	Quartz/Shear	Quartz/Shear	
Housing Material	316L Stainless Steel	316L Stainless Steel	
Sealing	Welded Hermetic	Welded Hermetic	
Size (Hex x Height)	1 3/16 in x 1 1/2 in	30.2 mm x 38.1 mm	
Weight	6.2 oz	176 gm	[1]
Electrical Connector	10-32 Coaxial Jack	10-32 Coaxial Jack	
Electrical Connector Position	Side	Side	
Mounting Thread	¼-28 Female	¼-28 Female	
ICP® SIGNAL CONDITIONER			
Voltage Gain (±1%)	1:1	1:1	
Low Frequency Response (-5%)	<0.1 Hz	<0.1 Hz	
Universal Input Power	100-240 VAC; 50-60 Hz	100-240 VAC; 50-60 Hz	[3]
Discharge Time Constant (0 to +50%)	10 sec	10 sec	[4]
Electrical Connectors (Input, Output)	BNC Jack	BNC Jack	

All specifications are at room temperature unless otherwise specified.



LASER PRIMARY CALIBRATION UNCERTAINTY

MCS-A065 Mid Frequency with K394A31 airbearing shaker.
Calibration data acquired from 5 to 10 kHz at 10 pts/decade plus 159 Hz.

Expanded uncertainties using a coverage factor of k=2:

5 Hz	1%
(5 < *f* <100) Hz	0.5%
100 Hz,159 Hz	0.2%
(159 < f ≤ 1000) Hz	0.5%
(1000 < *f* ≤ 5000) Hz	0.7%
(5000 < *f* ≤ 10000) Hz	1.5%

f represents calibration frequency

NOTES
[1] Typical.
[2] Zero-based, least squares, straight line method.
[3] Supplied external DC power supply 488B04.
[4] With ≥ 1M ohm input impedance of readout device.

SUPPLIED ACCESSORIES
003C03 Sensor Cable (1)
012A03 Output Cable (1)
9101C Mounting Kit - Assorted Studs (1)
MCS-A065 Primary Calibration 5-10 kHz (1)

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In the interest of constant product improvement, specifications may change without notice.

Project Engineer:	Product Manager:	Mkt Team Leader:	Spec Number:
	EJS		**PS-0086**
Date: 7-5-11	Date: 7/5/11	Date: 7/5/11	

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