

~ Calibration Certificate ~

Per ISO 16063-21

Model Number: 393C

Serial Number: 22590

Description: ICP® Accelerometer

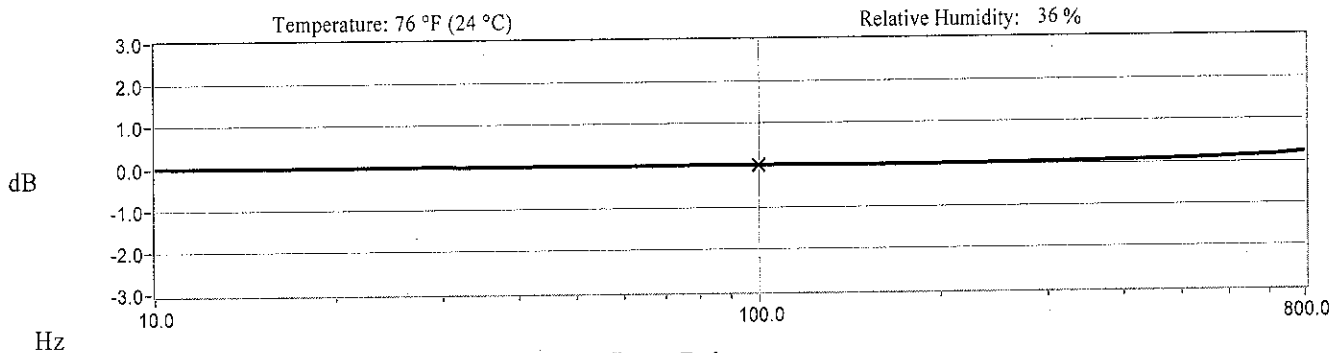
Method: Back-to-Back Comparison Calibration

Manufacturer: PCB

Calibration Data

Sensitivity @ 100.0 Hz	1048 mV/g	Output Bias	3.4 VDC
	(106.9 mV/m/s ²)	Transverse Sensitivity	3.4 %
Resonant Frequency	5523 Hz		

Sensitivity Plot



Data Points

Frequency (Hz)	Dev. (%)	Frequency (Hz)	Dev. (%)
10.0	0.1	300.0	0.4
15.0	-0.0	500.0	1.0
30.0	0.3	800.0	2.6
50.0	0.0		
REF. FREQ.	0.0		

Mounting Surface: Stainless Steel w/Silicone Grease Coating Fastener: Stud Mount
 Acceleration Level (rms): 1.00 g (9.81 m/s²)
 *The acceleration level may be limited by shaker displacement at low frequencies. If the listed level cannot be obtained, the calibration system uses the following formula to set the vibration amplitude; Acceleration Level (g) = 0.010 x (freq)².

Fixture Orientation: Vertical

*The gravitational constant used for calculations by the calibration system is: 1 g = 9.80665 m/s².

Condition of Unit

As Found: n/a
 As Left: New Unit, In Tolerance

Notes

1. Calibration is NIST Traceable thru Project 822/274086 and PTB Traceable thru Project 1060.
2. This certificate shall not be reproduced, except in full, without written approval from PCB Piezotronics, Inc.
3. Calibration is performed in compliance with ISO 9001, ISO 10012-1, ANSI/NCSL Z540-1-1994 and ISO 17025.
4. See Manufacturer's Specification Sheet for a detailed listing of performance specifications.
5. Measurement uncertainty (95% confidence level with coverage factor of 2) for frequency ranges tested during calibration are as follows: 5-9 Hz; +/- 2.0%, 10-99 Hz; +/- 1.5%, 100-1999 Hz; +/- 1.0%, 2-10 kHz; +/- 2.5%.

Technician: Thomas Witnauer Date: 04/26/07



CALIBRATION CERT #1862.01



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~ Calibration Certificate - Phase ~

Per ISO 16063-21

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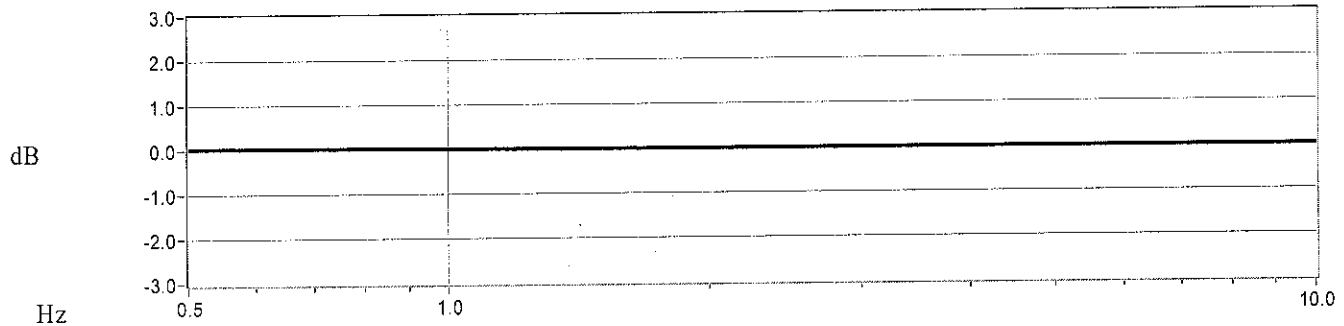
Method: Back-to-Back Comparison Calibration

Manufacturer: PCB

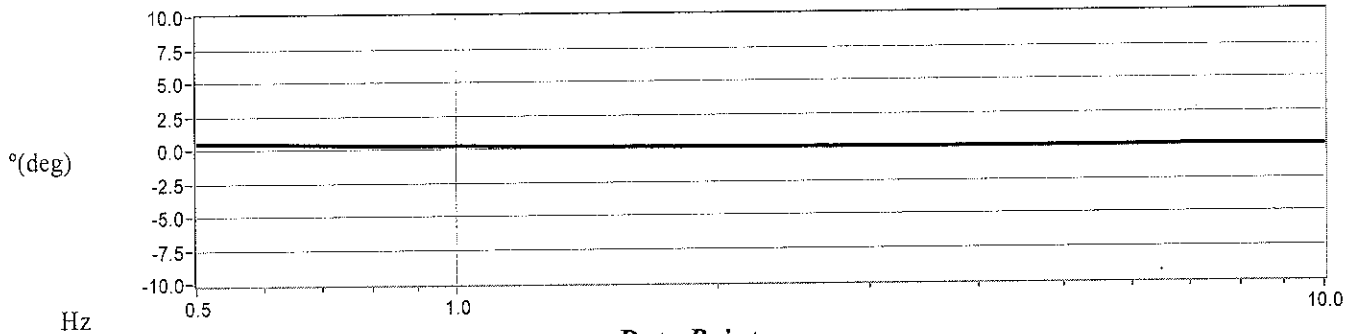
Calibration Data

Sensitivity @ 100.0 Hz 1048 mV/g (106.9 mV/m/s²)

Magnitude Plot



Phase Plot



Data Points

Frequency (Hz)	Deviation (%)	Phase (°)
0.5	0.4	0.5
1.0	0.2	0.3
2.0	0.0	0.1
5.0	0.0	0.0
7.0	0.0	0.1
10.0	0.1	-0.0

Notes

1. Calibration is traceable to one or more of the following report numbers; PTB 5399, PTB 5400 and NIST 822/271196.
2. This certificate shall not be reproduced, except in full, without written approval from PCB Piezotronics, Inc.
3. Calibration is performed in compliance with ISO 9001, ISO 10012-1, ANSI/NCSL Z540-1-1994 and ISO 17025.
4. See Manufacturer's Specification Sheet for a detailed listing of performance specifications.
5. Measurement uncertainty (95% confidence level with coverage factor of 2) for frequency ranges tested during calibration are as follows: 0.5-0.99 Hz; +/- 1.8%, 1-30 Hz; +/- 1.0%, 30.01-199 Hz; +/- 1.5%, 200-1 kHz; +/- 3.0%.

Technician: Thomas Witnauer Date: 04/26/07



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