

~ Calibration Certificate ~

Per ISO 16063-21

Model Number: 393C

Serial Number: 25045

Description: ICP® Accelerometer

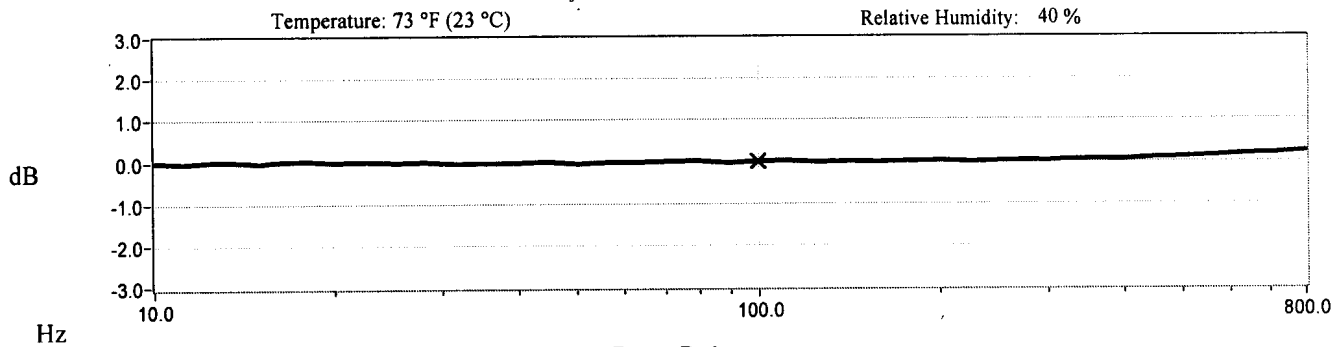
Method: Back-to-Back Comparison (AT401-3)

Manufacturer: PCB

Calibration Data

Sensitivity @ 100.0 Hz 1075 mV/g Output Bias 3.4 VDC
(109.6 mV/m/s²) Transverse Sensitivity 4.1 %
Resonant Frequency 5603.2 Hz

Sensitivity Plot



Data Points

| Frequency (Hz) | Dev. (%) | Frequency (Hz) | Dev. (%) |
|----------------|----------|----------------|----------|
| 10.0 | -0.1 | 300.0 | -0.0 |
| 15.0 | -0.4 | 500.0 | 1.0 |
| 30.0 | -0.3 | 800.0 | 2.5 |
| 50.0 | -0.6 | | |
| REF. FREQ. | 0.0 | | |

Mounting Surface: Stainless Steel w/Silicone Grease Coating Fastener: Stud Mount
Acceleration Level (rms): 0.100 g (0.981 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

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: Robert Zsebehazy R.Z. Date: 09/02/08



CALIBRATION CERT #1862.02

PCB PIEZOTRONICS
VIBRATION DIVISION

Headquarters: 3425 Walden Avenue, Depew, NY 14043

Calibration Performed at: 10869 Highway 903, Halifax, NC 27839

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~ Calibration Certificate - Phase ~

Per ISO 16063-21

Model Number: 393C

Serial Number: 25045

Description: ICP® Accelerometer

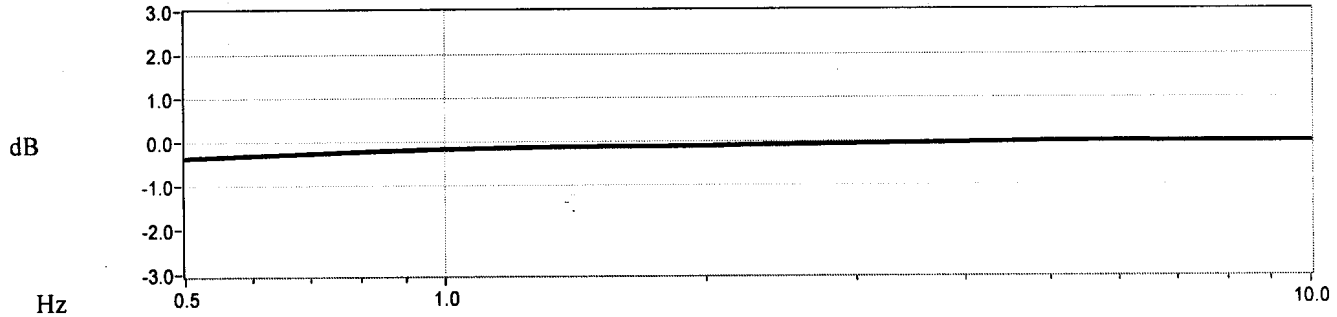
Method: Back-to-Back Comparison (AT401-12)

Manufacturer: PCB

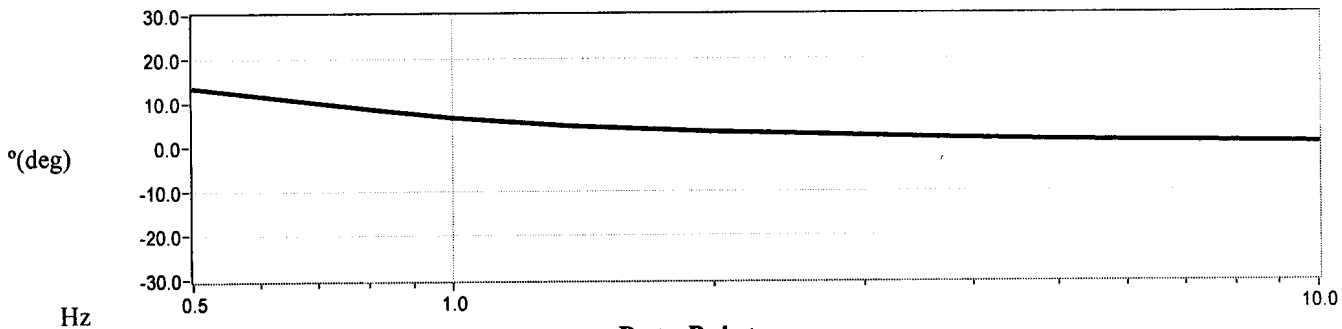
Calibration Data

Sensitivity @ 100.0 Hz 1075 mV/g (109.6 mV/m/s²)

Magnitude Plot



Phase Plot



Data Points

| Frequency (Hz) | Deviation (%) | Phase (°) |
|----------------|---------------|-----------|
| 0.5 | -4.1 | 13.4 |
| 1.0 | -1.9 | 6.6 |
| 2.0 | -1.2 | 3.3 |
| 5.0 | -0.1 | 1.4 |
| 7.0 | -0.1 | 1.1 |
| 10.0 | -0.1 | 0.7 |

Notes

1. Calibration is traceable to one or more of the following report numbers; PTB 5399, PTB 5400 and NIST 822/271196.
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3. Calibration is performed in compliance with ISO 9001, ISO 10012-1, ANSI/NCCL 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: Robert Zsebehazy R.Z. Date: 09/02/08



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