

# ~ Calibration Certificate ~

Per ISO 16063-21

Model Number: M353B15

Serial Number: LW187034

Description: ICP® Accelerometer

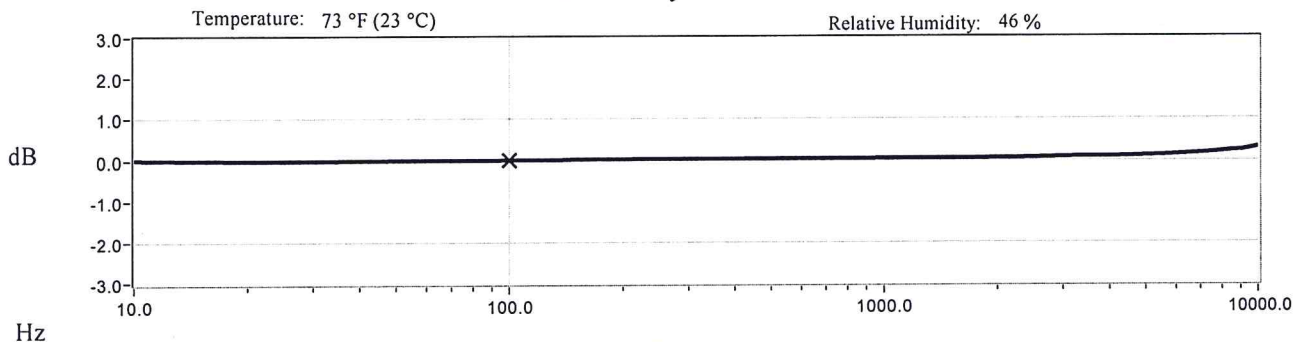
Manufacturer: PCB

Method: Back-to-Back Comparison AT401-3

## Calibration Data

Sensitivity @ 100 Hz	10.32 mV/g (1.053 mV/m/s <sup>2</sup> )	Output Bias	8.8 VDC
Discharge Time Constant	0.7 seconds	Transverse Sensitivity	0.9 %
		Resonant Frequency	77.5 kHz

## Sensitivity Plot



## Data Points

Frequency (Hz)	Dev. (%)	Frequency (Hz)	Dev. (%)	Frequency (Hz)	Dev. (%)
10	0.1	300	0.3	7000	1.8
15	-0.1	500	0.4	10000	3.6
30	-0.3	1000	0.4		
50	-0.1	3000	0.8		
REF. FREQ.	0.0	5000	1.2		

Mounting Surface: Tungsten Adapter w/Silicone Grease Fastener: M3 x 0.50 Male Fixture Orientation: Vertical

Acceleration Level (pk): 10.0 g (98.1 m/s<sup>2</sup>)

<sup>1</sup>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) = 0.008 x (freq)<sup>2</sup>. <sup>2</sup>The gravitational constant used for calculations by the calibration system is: 1 g = 9.80665 m/s<sup>2</sup>.

## Condition of Unit

As Found: n/a

As Left: New Unit, In Tolerance

## Notes

1. Calibration is NIST Traceable thru Project 683/283498 and PTB Traceable thru Project 10065.
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 Z540.3 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: Tammy Haskins

Date: 5/6/2015



CALIBRATION CERT #1862.02

**PCB PIEZOTRONICS**  
VIBRATION DIVISION

Headquarters: 3425 Walden Avenue, Depew, NY 14043

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

TEL: 888-684-0013 FAX: 716-685-3886 www.pcb.com

CAL48-3513786641.868+0

