

# ~ Calibration Certificate ~

Per ISO 16063-21

**Model Number:** 353B04

**Serial Number:** LW182728

**Description:** ICP® Accelerometer

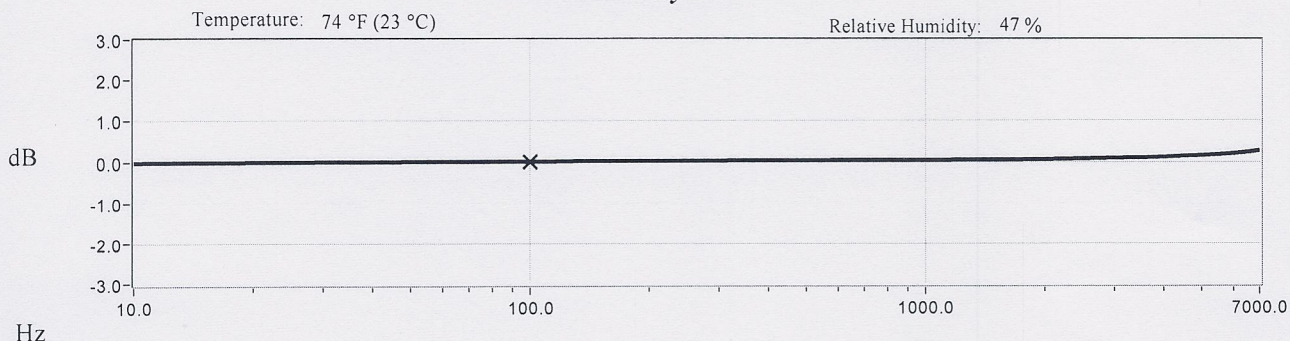
**Manufacturer:** PCB

**Method:** Back-to-Back Comparison AT401-3

### Calibration Data

<b>Sensitivity @ 100 Hz</b>	9.84 mV/g (1.003 mV/m/s <sup>2</sup> )	Output Bias	9.0 VDC
		Transverse Sensitivity	0.4 %
Discharge Time Constant	1.4 seconds	Resonant Frequency	50.7 kHz

### Sensitivity Plot



### Data Points

Frequency (Hz)	Dev. (%)	Frequency (Hz)	Dev. (%)	Frequency (Hz)	Dev. (%)
10	-0.3	300	0.2	7000	3.0
15	-0.2	500	0.3		
30	-0.1	1000	0.4		
50	0.0	3000	0.9		
REF. FREQ.	0.0	5000	1.6		

Mounting Surface: Beryllium w/Silicone Grease    Fastener: 10-32 Female    Fixture Orientation: Vertical

Acceleration Level (pk): 10.0 g (98.1 m/s<sup>2</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>.    \*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: Marguerite Alston *MA*

Date: 3/3/2015



CALIBRATION CERT #1862.02



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CAL48-3508272731.343+0

