

~ Calibration Certificate ~

Per ISO 16063-21

Model Number: 356B41
 Serial Number: 279719 (x axis)
 Description: ICP® Triaxial Accelerometer
 Manufacturer: PCB

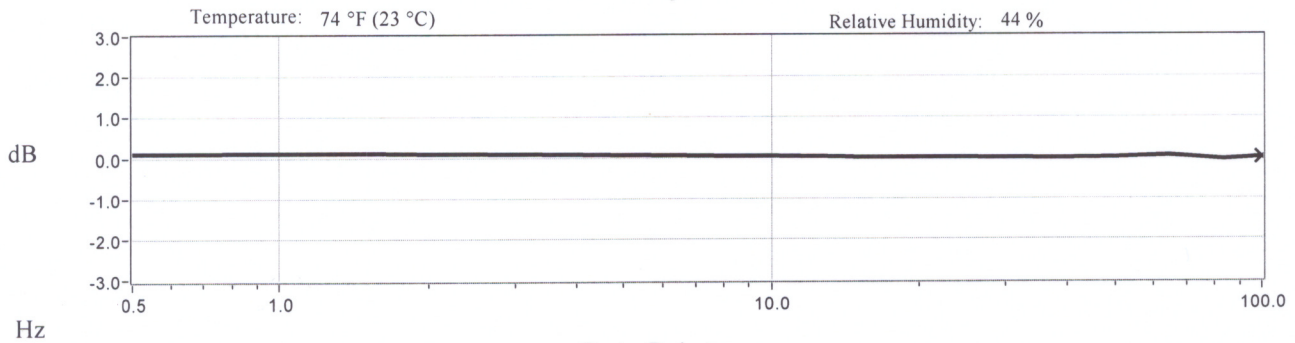
Seat pad acc.

Method: Back-to-Back Comparison AT401-12

Calibration Data

Sensitivity @ 100 Hz 92.4 mV/g Output Bias 3.7 VDC
 (9.42 mV/m/s²) Transverse Sensitivity 3.7 %

Sensitivity Plot



Data Points

Frequency (Hz)	Dev. (%)	Frequency (Hz)	Dev. (%)	Frequency (Hz)	Dev. (%)
0.5	1.2	10	0.4	70	0.3
1	1.3	15	0.1	REF. FREQ.	0.0
2	1.1	20	0.0		
5	0.8	30	-0.1		
7	0.6	50	0.0		

Mounting Surface: Aluminum Fixture Fastener: Stud Fixture Orientation: Inverted Vertical
 Acceleration Level (pk): 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) = 0.183 x (freq)². †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 traceable to one or more of the following; PTB 10065, PTB 10066 and NIST 683/283498.
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 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: 0.5-0.99 Hz; +/- 1.8%, 1-30 Hz; +/- 1.0%, 30.01-199 Hz; +/- 1.5%, 200-1 kHz; +/- 3.0%.

Technician: Richard Gardner *RG* Date: 11/21/2019



3425 WALDEN AVENUE - DEPEW, NY 14043
 TEL: 888-684-0013 - FAX: 716-685-3886 - www.pcb.com



~ Calibration Certificate ~

Per ISO 16063-21

Model Number: 356B41

Serial Number: 279719 (x axis)

Description: ICP® Triaxial Accelerometer

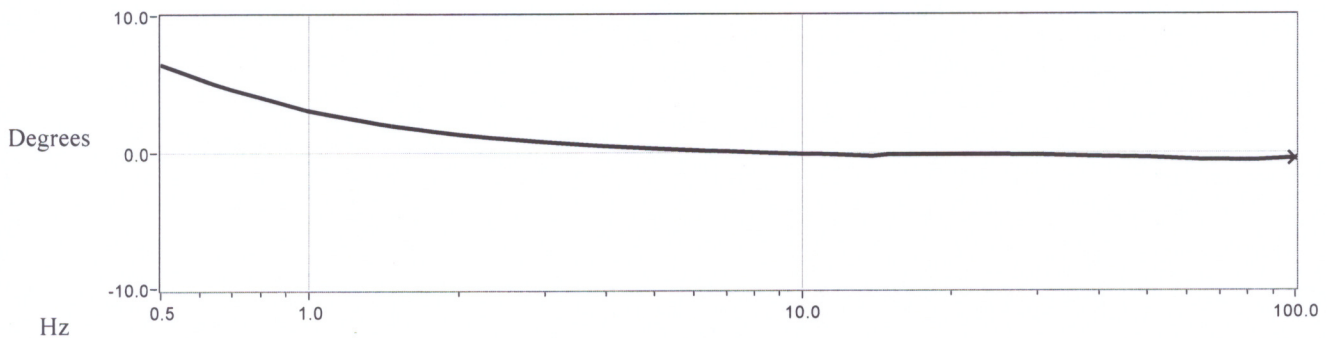
Manufacturer: PCB

Method: Back-to-Back Comparison AT401-12

Calibration Data

Sensitivity @ 100 Hz 92.4 mV/g (9.42 mV/m/s²)

Phase Plot



Data Points

Frequency (Hz)	Phase (°)	Frequency (Hz)	Phase (°)
0.5	6.4	30	-0.2
1	3.1	50	-0.4
2	1.3	70	-0.6
5	0.2	REF. FREQ.	-0.5
7	0.0		
10	-0.2		
15	-0.2		
20	-0.2		

Notes

1. Calibration is traceable to one or more of the following; PTB 10065, PTB 10066 and NIST 683/283498.
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 10012-1, ANSI Z540.3 and ISO 17025.
4. See Manufacturer's Specification Sheet for a detailed listing of performance specifications.
5. Measurement uncertainty for Phase (95% confidence level with coverage factor of 2) for frequency ranges tested during calibration are as follows: = 0.5 to < 10 Hz; +/- 2.5°, = 10 to < 200 Hz; +/- 0.75°, = 200 Hz to = 1 kHz; +/- 1.5°.

Technician: Richard Gardner *RG*

Date: 11/21/2019



3425 WALDEN AVENUE - DEPEW, NY 14043
TEL: 888-684-0013 - FAX: 716-685-3886 - www.pcb.com



~ Calibration Certificate ~

Per ISO 16063-21

Model Number: 356B41

Serial Number: 279719 (y axis)

Description: ICP® Triaxial Accelerometer

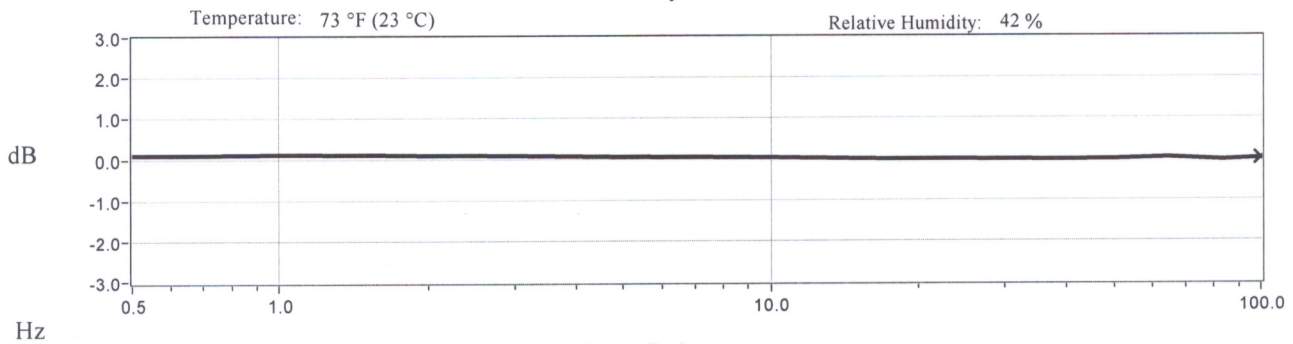
Manufacturer: PCB

Method: Back-to-Back Comparison AT401-12

Calibration Data

Sensitivity @ 100 Hz	98.2 mV/g (10.02 mV/m/s ²)	Output Bias	3.5 VDC
		Transverse Sensitivity	4.6 %

Sensitivity Plot



Data Points

Frequency (Hz)	Dev. (%)	Frequency (Hz)	Dev. (%)	Frequency (Hz)	Dev. (%)
0.5	1.1	10	0.2	70	-0.1
1	1.2	15	-0.1	REF. FREQ.	0.0
2	1.0	20	-0.2		
5	0.6	30	-0.3		
7	0.4	50	-0.3		

Mounting Surface: Aluminum Fixture Fastener: Stud Fixture Orientation: Vertical

Acceleration Level (pk): 1.00 g (9.81 m/s²)

¹The 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) = 0.183 x (freq)². ²The 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 traceable to one or more of the following; PTB 10065, PTB 10066 and NIST 683/283498.
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 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: 0.5-0.99 Hz; +/- 1.8%, 1-30 Hz; +/- 1.0%, 30.01-199 Hz; +/- 1.5%, 200-1 kHz; +/- 3.0%.

Technician: Richard Gardner *RG*

Date: 11/21/2019



3425 WALDEN AVENUE - DEPEW, NY 14043
TEL: 888-684-0013 - FAX: 716-685-3886 - www.pcb.com



~ Calibration Certificate ~

Per ISO 16063-21

Model Number: 356B41

Serial Number: 279719 (y axis)

Description: ICP® Triaxial Accelerometer

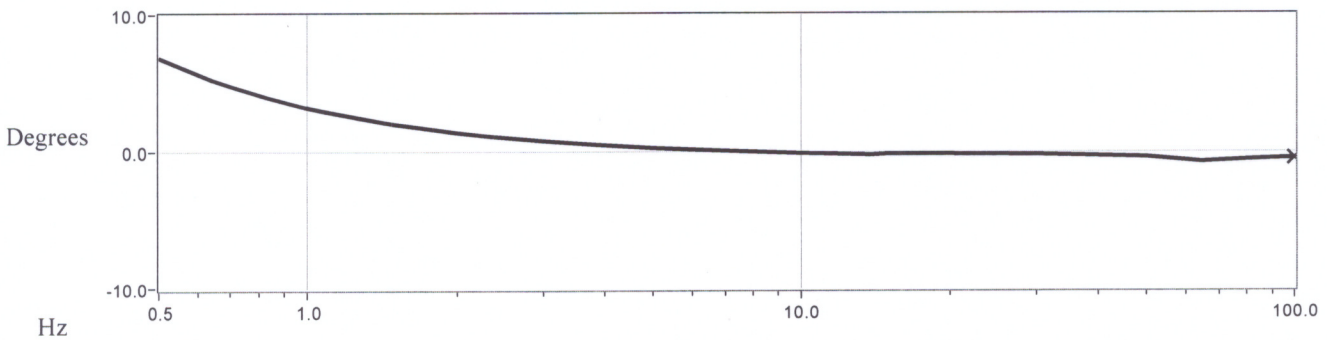
Manufacturer: PCB

Method: Back-to-Back Comparison AT401-12

Calibration Data

Sensitivity @ 100 Hz 98.2 mV/g (10.02 mV/m/s²)

Phase Plot



Data Points

Frequency (Hz)	Phase (°)	Frequency (Hz)	Phase (°)
0.5	6.8	30	-0.3
1	3.2	50	-0.4
2	1.4	70	-0.7
5	0.2	REF. FREQ.	-0.5
7	0.0		
10	-0.2		
15	-0.2		
20	-0.2		

Notes

1. Calibration is traceable to one or more of the following; PTB 10065, PTB 10066 and NIST 683/283498.
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 10012-1, ANSI Z540.3 and ISO 17025.
4. See Manufacturer's Specification Sheet for a detailed listing of performance specifications.
5. Measurement uncertainty for Phase (95% confidence level with coverage factor of 2) for frequency ranges tested during calibration are as follows: = 0.5 to < 10 Hz; +/- 2.5°, = 10 to < 200 Hz; +/- 0.75°, = 200 Hz to = 1 kHz; +/- 1.5°.

Technician: Richard Gardner *RG*

Date: 11/21/2019



3425 WALDEN AVENUE - DEPEW, NY 14043
TEL: 888-684-0013 - FAX: 716-685-3886 - www.pcb.com



~ Calibration Certificate ~

Per ISO 16063-21

Model Number: 356B41

Serial Number: 279719 (z axis)

Description: ICP® Triaxial Accelerometer

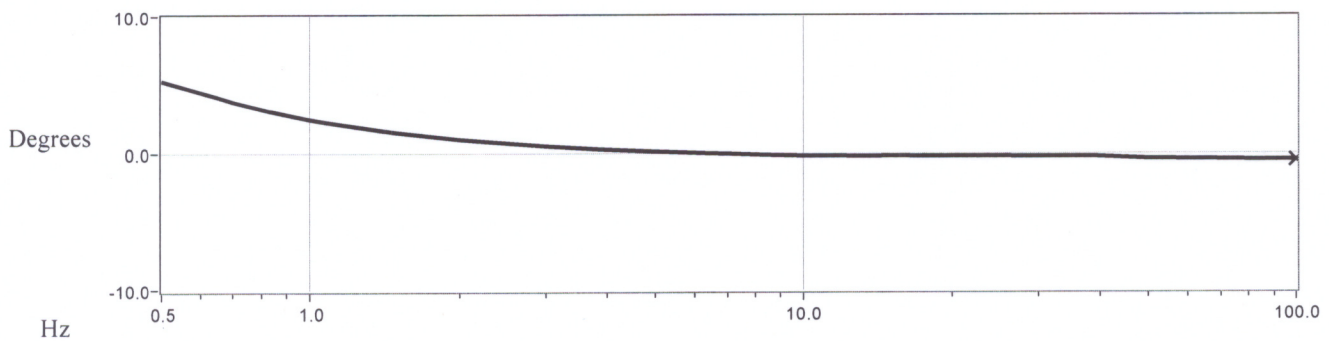
Manufacturer: PCB

Method: Back-to-Back Comparison AT401-12

Calibration Data

Sensitivity @ 100 Hz 96.2 mV/g (9.81 mV/m/s²)

Phase Plot



Data Points

Frequency (Hz)	Phase (°)	Frequency (Hz)	Phase (°)
0.5	5.3	30	-0.3
1	2.5	50	-0.5
2	1.0	70	-0.5
5	0.1	REF. FREQ.	-0.5
7	-0.1		
10	-0.2		
15	-0.2		
20	-0.3		

Notes

1. Calibration is traceable to one or more of the following; PTB 10065, PTB 10066 and NIST 683/283498.
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 10012-1, ANSI Z540.3 and ISO 17025.
4. See Manufacturer's Specification Sheet for a detailed listing of performance specifications.
5. Measurement uncertainty for Phase (95% confidence level with coverage factor of 2) for frequency ranges tested during calibration are as follows: = 0.5 to < 10 Hz; +/- 2.5°, = 10 to < 200 Hz; +/- 0.75°, = 200 Hz to = 1 kHz; +/- 1.5°.

Technician: Richard Gardner *RJG*

Date: 11/21/2019



3425 WALDEN AVENUE - DEPEW, NY 14043
TEL: 888-684-0013 - FAX: 716-685-3886 - www.pcb.com

