SNLW 24683

Model Number: 356A01

Serial Number: LW246083 (x axis)

Description: ICP® Triaxial Accelerometer

Manufacturer: **PCB** 

Method: Back-to-Back Comparison

AT401-3

## Calibration Data

Sensitivity @ 100 Hz

5.37 mV/g

**Output Bias** 

10.1 VDC

 $(0.548 \text{ mV/m/s}^2)$ 

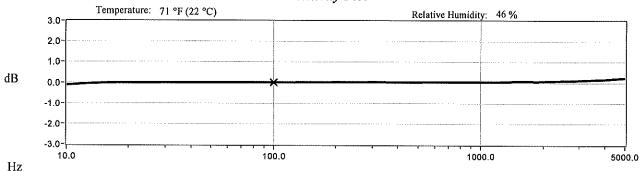
Transverse Sensitivity

0.3 %

Discharge Time Constant

0.33 seconds

Sensitivity Plot



## Data Points

Frequency (Hz)	Dev. (%)	Frequency (Hz)	Dev. (%)	
10	-1.5	300	0.2	
15	-0.4	500	0.2	
30	-0.1	1000	0.2	
50	-0.0	3000	1.2	
REF. FREQ.	0.0	5000	2.7	

Mounting Surface: Tungsten Adapter Fastener: Adhesive Fixture Orientation: Inverted Vertical

informating Surface. Toughter reasoner. Author Orientation. Invested Vertical.

Acceleration Level (pk): 10.0 (pg 8.1 m/s):

'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:

As Left:

New Unit, In Tolerance

Notes

- 1. Calibration is NIST Traceable thru Project 683/287323 and PTB Traceable thru Project 17014.
- 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: 5-9 Hz; +/- 2.0%, 10-99 Hz; +/- 1.5%, 100-1999 Hz; +/- 1.0%, 2-10 kHz; +/- 2.5%.

Donald Whalen

Date:

6/12/2018



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

CAL2-3611644540,778+0

## ~ Calibration Certificate ~

			Per ISO 16063-21			
Model Number:		356A01				
Serial Number:	LW246083 (y axis)					
Description:	ICP® Triaxial	Accelerometer				
Manufacturer:	P	СВ	Method: Bac		AT401-3	
		Calibration L	) ata			
Sensitivit	y @ 100 Hz	5.37 mV/g	rutu	Output Bias	10.3 VDC	
Solidativity (6) 100 112		(0.548 mV/m/s <sup>2</sup> )	Transverse Sensitivity		1.3 %	
Discharge Tir	me Constant	0.38 seconds	Transverse sensitivity 1		1.5 70	
8		0.000		•		
		Sensitivity 1	Plot			
3.0- <del></del>	Temperature: 71 °F (22 °C)		R	elative Humidity: 45 %		
2.0-						
1,0-						
dB <sub>0.0</sub>		<del></del>		1111-12-1111		
-1.0-						
-2.0-						
-3.0-			T	1 1 1		
10.0 Hz		100.0		1000,0	8000.0	
F. (11.)	75 (04)	Data Point				
Frequency (Hz)	Dev. (%)	Frequency (Hz)	Dev. (%)	Frequency (Hz		
10	-0.3	300	0.2	7000	2.0	
15	-0.2	500	0.2	8000	2.4	
30	-0.1	1000	0.3			
50	-0.0	3000	0.7			
REF. FREQ.	0.0	5000	1.2			
Mounting Surface: Tungsten Adapt Acceleration Level (pk): 10.0 g (9)	8.1 m/s²)					
The acceleration level may be lin (g) = 0.008 x (freq) <sup>2</sup> . The gravitat	nited by shaker displacement at lo tional constant used for calculations	we frequencies. If the listed level cannot be obtained, the by the calibration system is; $1 g = 9.80665 \text{ m/s}^2$ .		the following formula to set the vibration amplitude;	Acceleration Level	
As Found: n/a		Condition of V	Unit			
	Unit, In Toleran	ce				
		Notes				
1. Calibration is N	IIST Traceable th	ru Project 683/287323 and P	TB Traceable	thru Project 17014.		
2. This certificate:	shall not be reproc	duced, except in full, without	written approv	val from PCB Piezotronics, In	1c.	
4. See Manufacture	ertormed in compi er's Specification :	iance with ISO 10012-1, ANS Sheet for a detailed listing of	I Z540.3 and	ISO 17025,		
<ol><li>Measurement ur</li></ol>	ncertainty (95% co	onfidence level with coverage	factor of 2) fo	or frequency ranges tested du	ring calibration	
are as follows: 5-9	Hz; +/- 2.0%, 10	)-99 Hz; +/- 1.5%, 100-1999	Hz; +/- 1.0%,	, 2-10 kHz; +/- 2.5%.	<i>6</i>	
		l.	4. /			



PCB PIEZOTRONICS

VIBRATION DIVISION

Headquarters: 3425 Walden Avenue, Depew, NY 14043

Date: 6/12/2018

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.co

CAL2-3611646584,788+0

## ~ Calibration Certificate ~

Model Number:		356A01			
Serial Number:	LW	246083 (z axis)			
Description:	ICP® Triaxia	l Accelerometer			
Manufacturer:	PCB		Method: Bac	k-to-Back Comparison	AT401-3
		Calibration	Data		
Sensitivity @ 100 Hz		5.31 mV/g	Output Bias		10.2 VDC
		(0.541 mV/m/s <sup>2</sup> )	Transverse Sensitivity		0.6 %
Discharge Ti	me Constant	0.37 seconds			
		C	DI.		
70	emperature: 71 °F (	Sensitivity 22 °C)		Humidity: 45 %	
2.0-					
1.0-					
dB 0.0-					
-1.0-					
-2.0-					
-3.0-					
10.0 Hz		100.0	10	00.0	8000.0
112		Data Poir	its		
Frequency (Hz)	Dev. (%)	Frequency (Hz)	Dev. (%)	Frequency (Hz)	Dev. (
10	-0.5	300	0.3	7000	2.0
15	-0.3	500	0.3	8000	2.4
30	-0.1	1000	0.3		
50	-0.0	3000	0.7		
REF. FREQ.	0.0	5000	1.2		
Mounting Surface: Tungsten Adap Acceleration Level (pk) <sup>1</sup> : 10.0 g ( <sup>1</sup> The acceleration level may be fi	98.1 m/s²}	e Orientation: Vertical t low frequencies. If the listed level cannot be obtained,	the calibration rectors upon the following	ma formula to not the vilencia.	1 1
(g) = 0.008 x (freq) <sup>3</sup> . The gravit	ational constant used for calculati	ons by the cambration system is; 1 g = 9.80665 m/s².		ng tormula to set the vioration amphilude; Acce	ieration Levei
As Found: n/a		Condition of	Unit		
*****	v Unit, In Tolera	nce			
		Notes	······································		
		110100			

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%.

Date:

ACCREDITED

Technician:

PCB PIEZOTRONICS

Donald Whalen

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CAL2-3611646837.112+0

6/12/2018

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