



財團法人全國認證基金會  
Taiwan Accreditation Foundation

## Certificate of Accreditation

(Certificate No : L3439-240808)

This is to certify that

**I Pao Electronics Co., Ltd.**  
**Calibration Center(Vibration/Acoustics Laboratory)**

No.2, Ln. 159, Jinxi Rd., Yangmei Dist., Taoyuan City 326, Taiwan (R.O.C)

is accredited in respect of laboratory

**Accreditation Criteria :** ISO/IEC 17025:2017 ; CNS 17025:2018

**Accreditation Number :** 3439

**Originally Accredited :** February 01, 2018

**Effective Period :** February 01, 2024 to January 31, 2027

**Accredited Scope :** Calibration Field, see described in the Appendix

*Yi-Ling Chen*

Yi-Ling Chen  
President, Taiwan Accreditation Foundation  
August 08, 2024



Scan to verify

Accreditation Number : 3439

Laboratory Head : CHEN, Cain-Yi

## Vibration &amp; Acoustics

calibration items	working standard	calibration method	measurand level or range				measurement conditions /independent variable	smallest uncertainty	
	brand /model	document name /no.	minimum value	units	maximum value	units		value	units
KB1001 Accelerometer	Accelerometer PCB/301A11	In-house method: Accelerometer Calibration procedure ACP-001		mV/ (m/s <sup>2</sup> )		mV/ (m/s <sup>2</sup> )	Voltage sensitivity@5 m/s <sup>2</sup> & (10 Hz.20 Hz.30 Hz.40 Hz.50 Hz) Voltage sensitivity@10 m/s <sup>2</sup> & (10 Hz) Voltage sensitivity@100 m/s <sup>2</sup> & (30 Hz.50 Hz.100 Hz.160 Hz.300 Hz.500 Hz.1000 Hz.2000 Hz.3000 Hz.5000 Hz)	2.0	%
Approval Signatory: KUO, Ching-Hsuan; CHEN, Cain-Yi									
KB1002 Vibration meter	Acceleration gauge PCB/301A11	In-house method: Vibration meter Calibration procedure VCP-001	1	m/s <sup>2</sup>	1	m/s <sup>2</sup>	Acceleration (@10 Hz)	4.1	%
			5	m/s <sup>2</sup>	5	m/s <sup>2</sup>	Acceleration (@10 Hz.30 Hz.50 Hz)	4.1	%
			10	m/s <sup>2</sup>	10	m/s <sup>2</sup>	Acceleration (@10 Hz, 30 Hz, 50 Hz, 100 Hz, 160 Hz, 300 Hz, 500 Hz, 1000 Hz, )	4.1	%
			50	m/s <sup>2</sup>	50	m/s <sup>2</sup>	Acceleration (@30 Hz, 50 Hz, 100 Hz, 160 Hz, 300 Hz, 500 Hz, 1000 Hz, )	4.1	%
			100	m/s <sup>2</sup>	100	m/s <sup>2</sup>	Acceleration (@30 Hz, 50 Hz, 100 Hz, 160 Hz, 300 Hz, 500 Hz, 1000 Hz, )	4.1	%

The Appendix forms an integral part of this Certificate, which shall be invalid when use without the Appendix

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calibration items	working standard	calibration method	measurand level or range				measurement conditions /independent variable	smallest uncertainty	
	brand /model	document name /no.	minimum value	units	maximum value	units		value	units
KB1002 Vibration meter	Acceleration gauge PCB/301A11	In-house method: Vibration meter Calibration procedure VCP-001	10	mm/s	10	mm/s	Velocity (@300 Hz. 500 Hz)	4.1	%
			20	mm/s	20	mm/s	Velocity (@160 Hz.500 Hz)	4.1	%
			30	mm/s	30	mm/s	Velocity (@ 300 Hz)	4.1	%
			31.8	mm/s	31.8	mm/s	Velocity (@500 Hz)	4.1	%
			50	mm/s	50	mm/s	Velocity (@10 Hz.30 Hz.50 Hz.100 Hz.160 Hz)	4.1	%
			53.1	mm/s	53.1	mm/s	Velocity (@300 Hz)	4.1	%
			100	mm/s	100	mm/s	Velocity (@10 Hz.50 Hz.100 Hz.160 Hz)	4.1	%
			159.2	mm/s	159.2	mm/s	Velocity (@10 Hz.100 Hz)	4.1	%
			300	mm/s	300	mm/s	Velocity (@30 Hz)	4.1	%
			318.3	mm/s	318.3	mm/s	Velocity (@50 Hz)	4.1	%
			530.5	mm/s	530.5	mm/s	Velocity (@30 Hz)	4.1	%
			0.1	mm	0.1	mm	Displacement (@50 Hz.100 Hz)	4.1	%
			0.2	mm	0.2	mm	Displacement (@50 Hz.100 Hz)	4.1	%
			0.253	mm	0.253	mm	Displacement (@100 Hz)	4.1	%
			0.5	mm	0.5	mm	Displacement (@10 Hz.30 Hz.50 Hz)	4.1	%

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calibration items	working standard	calibration method	measurand level or range				measurement conditions /independent variable	smallest uncertainty		
			brand /model	document name /no.	minimum value	units		value	units	
KB1002 Vibration meter	Acceleration gauge PCB/301A11	In-house method: Vibration meter Calibration procedure VCP-001	1		mm	1	mm	Displacement (@10 Hz.30 Hz.50 Hz)	4.1	%
			2		mm	2	mm	Displacement (@10 Hz.30 Hz)	4.1	%
			2.533		mm	2.533	mm	Displacement (@10 Hz)	4.1	%
			2.815		mm	2.815	mm	Displacement (@30 Hz)	4.1	%
			0.05		mm	0.05	mm	Displacement (@160 Hz)	4.3	%
			0.0989		mm	0.0989	mm	Displacement (@160 Hz)	4.3	%
Approval Signatory: KUO, Ching-Hsuan; CHEN, Cain-Yi										

KB2004 Sound Level Meter	Sound Calibrator B&K 4231	In-house method: Sound Level Meter Calibration Procedure SCP-002	94	dB (reference: 20 µPa)	94	dB (reference: 20 µPa)	@ 1 kHz	0.3	dB
			114	dB (reference: 20 µPa)	114	dB (reference: 20 µPa)	@ 1 kHz	0.3	dB
Approval Signatory: CHEN, Cain-Yi; WEI, Wen-Chieh									

Note : Smallest uncertainty represents an expanded uncertainty using a coverage factor approximately 95 % level of confidence.  
(Null Below)

