



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

## Certificate of Accreditation

(Certificate No : L1567-240718)

This is to certify that

**ARNOS International Inc.**  
**ANS Inspection Calibration center**

No.8, Aly. 51, Ln. 39, Liancun Rd., Fengyuan Dist., Taichung City 420, Taiwan (R.O.C.)

**is accredited in respect of laboratory**

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

**Accreditation Number** : 1567

**Originally Accredited** : July 19, 2006

**Effective Period** : July 20, 2024 to July 19, 2027

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



Scan to verify

*Yi-Ling Chen*

Yi-Ling Chen  
President, Taiwan Accreditation Foundation  
July 18, 2024

Accreditation Number : 1567

Laboratory Head : CHANG, Yu-Shao

## Length

calibration items	working standard	calibration method	measurand level or range				measurement conditions /independent variable	smallest uncertainty	
			minimum value	units	maximum value	units		value	units
KA2003 dial caliper vernier caliper digimatic caliper	Gauge Block Mitutoyo /516-938-10 Mitutoyo /516-702-10	In-house method: Caliper calibration procedure (Document No.: ANS-SCP-L-001)	0	mm	300	mm	dial caliper outside diameter (resolution: 0.02 mm)	0.03	mm
			0	mm	300	mm	dial caliper inside diameter (resolution: 0.02 mm)	0.03	mm
			0	mm	300	mm	vernier caliper outside diameter (resolution: 0.02 mm)	0.04	mm
			0	mm	300	mm	vernier caliper inside diameter (resolution: 0.02 mm)	0.04	mm
			0	mm	300	mm	digimatic caliper outside diameter (resolution: 0.01 mm)	0.02	mm
			0	mm	300	mm	digimatic caliper inside diameter (resolution: 0.01 mm)	0.02	mm
Approval Signatory: LIN, Yuan-Sheng; CHANG, Yu-Shao; CHEN, Wei-Hao; HUANG, Qi-En; LAI, Yung-Chi									



## Mass/Force

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	explanation	value	units
KC1001 Weight (Brass, Stainless steel, Cast iron/grey)	Standard weights METTLER Class E <sub>2</sub> METTLER Class F <sub>1</sub>	In-house method: Weights calibration procedure (Document No.: ANS-SCP-G-001)	1	mg	1	mg	brass	0.03	mg
			2	mg	2	mg	brass	0.03	mg
			5	mg	5	mg	brass	0.03	mg
			10	mg	10	mg	brass	0.03	mg
			20	mg	20	mg	brass	0.03	mg
			50	mg	50	mg	brass	0.03	mg
			100	mg	100	mg	brass	0.03	mg
			200	mg	200	mg	brass	0.03	mg
			500	mg	500	mg	brass	0.03	mg
			1	g	1	g	brass	0.03	mg
			2	g	2	g	brass	0.03	mg
			5	g	5	g	brass	0.03	mg
			10	g	10	g	brass	0.03	mg
			20	g	20	g	brass	0.04	mg
			50	g	50	g	brass	0.05	mg
			100	g	100	g	brass	0.11	mg
			200	g	200	g	brass	0.11	mg
			500	g	500	g	brass	2	mg
			1	kg	1	kg	brass	3	mg
			2	kg	2	kg	brass	14	mg
			5	kg	5	kg	brass	15	mg
			10	kg	10	kg	brass	0.1	g
			20	kg	20	kg	brass	0.1	g
			1	mg	1	mg	stainless steel	0.03	mg
2	mg	2	mg	stainless steel	0.03	mg			
5	mg	5	mg	stainless steel	0.03	mg			
10	mg	10	mg	stainless steel	0.03	mg			



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	explanation	value	units
KC1001 Weight (Brass, Stainless steel, Cast iron/grey)	Standard weights METTLER Class E <sub>2</sub> METTLER Class F <sub>1</sub>	In-house method: Weights calibration procedure (Document No.: ANS-SCP-G-001)	20	mg	20	mg	stainless steel	0.03	mg
			50	mg	50	mg	stainless steel	0.03	mg
			100	mg	100	mg	stainless steel	0.03	mg
			200	mg	200	mg	stainless steel	0.03	mg
			500	mg	500	mg	stainless steel	0.03	mg
			1	g	1	g	stainless steel	0.03	mg
			2	g	2	g	stainless steel	0.03	mg
			5	g	5	g	stainless steel	0.03	mg
			10	g	10	g	stainless steel	0.03	mg
			20	g	20	g	stainless steel	0.04	mg
			50	g	50	g	stainless steel	0.04	mg
			100	g	100	g	stainless steel	0.11	mg
			200	g	200	g	stainless steel	0.11	mg
			500	g	500	g	stainless steel	2	mg
			1	kg	1	kg	stainless steel	3	mg
			2	kg	2	kg	stainless steel	14	mg
			5	kg	5	kg	stainless steel	15	mg
			10	kg	10	kg	stainless steel	0.1	g
			20	kg	20	kg	stainless steel	0.1	g
						1	kg	1	kg
			2	kg	2	kg	cast iron/grey	14	mg
			5	kg	5	kg	cast iron/grey	15	mg
			10	kg	10	kg	cast iron/grey	0.1	g
			20	kg	20	kg	cast iron/grey	0.1	g
Approval Signatory: LIN, Yuan-Sheng; SHIH, Chuan-Yuan; CHEN, Wei-Hao; HUANG, Qi-En; LAI, Yung-Chi									



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	explanation	value	units
KC1002 Balance (on-site calibration included)	Standard weights METTLER CLASS E <sub>2</sub>	In-house method: Balance and platform scale calibration procedure (Document No.: ANS-SCP-G-002)	1	mg	50	g		0.06	mg
			50	g	200	g		0.12	mg
Approval Signatory: LIN, Yuan-Sheng; SHIH, Chuan-Yuan; CHEN, Wei-Hao; LAI, Yung-Chi									
KC1004 Platform Scale (on-site calibration included)	Standard weights METTLER Class E <sub>2</sub> METTLER Class F <sub>1</sub>	In-house method: balance and platform scale calibration procedure (Document No.: ANS-SCP-G-002)	300	g	1	kg		0.004	g
			1	kg	5	kg		0.03	g
			5	kg	30	kg		0.3	g
Approval Signatory: LIN, Yuan-Sheng; SHIH, Chuan-Yuan; CHEN, Wei-Hao; LAI, Yung-Chi									



## Temperature/Humidity

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	explanation	value	units
KE1006 Temperature Indicator (on-site calibration included)	Chub-E4 Standards Thermometer /FLUKE 1529 Multifunction Calibrator /FLUKE 5500A	In-house method: Customized Thermometer Calibration Standard Book (Document No.: ANS-SCP-T-001)	-50	°C	1000	°C	K TYPE	0.81	°C
			-50	°C	750	°C	J TYPE	0.80	°C
			-50	°C	400	°C	T TYPE	0.72	°C
			-50	°C	1000	°C	E TYPE	0.60	°C
			-50	°C	800	°C	RTD	0.64	°C
			-50	°C	1000	°C	on-site calibration: K TYPE	1.0	°C
			-50	°C	750	°C	on-site calibration: J TYPE	1.0	°C
			-50	°C	400	°C	on-site calibration: T TYPE	0.9	°C
Approval Signatory: LIN, Yuan-Sheng; SHIH, Chuan-Yuan; CHEN, Wei-Hao									
KE1009 Temperature Calibrator	Chub-E4 Standards Thermometer /FLUKE 1529	In-house method: Customized temperature corrector calibration standard book (Document No.: ANS-SCP-T-002)	-50	°C	1000	°C	K TYPE (output)	0.70	°C
			-50	°C	750	°C	J TYPE (output)	0.66	°C
			-50	°C	400	°C	T TYPE (output)	0.63	°C
			-50	°C	1000	°C	E TYPE (output)	0.49	°C
			-50	°C	800	°C	RTD (output)	0.42	°C
Approval Signatory: LIN, Yuan-Sheng; SHIH, Chuan-Yuan; CHEN, Wei-Hao									



## Electricity

calibration items	working standard	calibration method	measurand level or range				measurement conditions /independent variable	smallest uncertainty	
			minimum value	units	maximum value	units		explanation	value
KF1001 DC Voltage Source DC Voltage Meter	1. Multi-function digital meter Agilent 3458A 2. Multifunction Calibrator Fluke 5500A	In-house method: DC Voltage calibration procedure (Document No.: ANS-SCP-E-003)	100	mV	100	mV	DC Voltage Source	33	$\mu\text{V}/\text{V}$
			1	V	1	V	DC Voltage Source	22	$\mu\text{V}/\text{V}$
			10	V	10	V	DC Voltage Source	20	$\mu\text{V}/\text{V}$
			100	V	100	V	DC Voltage Source	25	$\mu\text{V}/\text{V}$
			1000	V	1000	V	DC Voltage Source	25	$\mu\text{V}/\text{V}$
			100	mV	100	mV	DC Voltage Meter	77	$\mu\text{V}/\text{V}$
			1	V	1	V	DC Voltage Meter	48	$\mu\text{V}/\text{V}$
			10	V	10	V	DC Voltage Meter	47	$\mu\text{V}/\text{V}$
			100	V	100	V	DC Voltage Meter	53	$\mu\text{V}/\text{V}$
			1000	V	1000	V	DC Voltage Meter	50	$\mu\text{V}/\text{V}$
Approval Signatory: SHIH, Chuan-Yuan; CHEN, Wei-Hao; LAI, Yung-Chi									
KF1002 DC Current Source DC Current Meter	1. Multi-function digital meter Agilent 3458A 2. Multifunction Calibrator Fluke 5500A	In-house method: DC current calibration procedure (Document No.: ANS-SCP-E-004)	1	mA	1	mA	DC Current Source	0.10	mA/A
			10	mA	10	mA	DC Current Source	0.11	mA/A
			100	mA	100	mA	DC Current Source	0.18	mA/A
			1	A	1	A	DC Current Source	0.40	mA/A
			1	mA	1	mA	DC Current Meter	0.17	mA/A
			10	mA	10	mA	DC Current Meter	0.14	mA/A
			100	mA	100	mA	DC Current Meter	0.21	mA/A
			1	A	1	A	DC Current Meter	0.48	mA/A
Approval Signatory: SHIH, Chuan-Yuan; CHEN, Wei-Hao; LAI, Yung-Chi									



calibration items	working standard	calibration method	measurand level or range				measurement conditions /independent variable	smallest uncertainty	
			minimum value	units	maximum value	units		explanation	value
KF1011 AC Volt Source AC Volt Meter	1. Multi-function digital meter Agilent 3458A 2. Multifunction Calibrator Fluke 5500A	In-house method: AC Voltage calibration procedure (Document No.: ANS-SCP-E-001)	1	V	1	V	AC Volt Source (@1 kHz)	0.24	mV/V
			10	V	10	V	AC Volt Source (@1 kHz)	0.25	mV/V
			100	V	100	V	AC Volt Source (@1 kHz)	0.34	mV/V
			750	V	750	V	AC Volt Source (@1 kHz)	0.62	mV/V
			1	V	1	V	AC Volt Source (@60 Hz)	0.24	mV/V
			10	V	10	V	AC Volt Source (@60 Hz)	0.25	mV/V
			100	V	100	V	AC Volt Source (@60 Hz)	0.34	mV/V
			750	V	750	V	AC Volt Source (@60 Hz)	0.62	mV/V
			1	V	1	V	AC Volt Meter (@1 kHz)	0.37	mV/V
			10	V	10	V	AC Volt Meter (@1 kHz)	0.43	mV/V
			100	V	100	V	AC Volt Meter (@1 kHz)	0.56	mV/V
			750	V	750	V	AC Volt Meter (@1 kHz)	0.78	mV/V
			1	V	1	V	AC Volt Meter (@60 Hz)	0.37	mV/V
			10	V	10	V	AC Volt Meter (@60 Hz)	0.43	mV/V
100	V	100	V	AC Volt Meter (@60 Hz)	0.56	mV/V			
750	V	750	V	AC Volt Meter (@60 Hz)	0.78	mV/V			
Approval Signatory: SHIH, Chuan-Yuan; CHEN, Wei-Hao; LAI, Yung-Chi									
KF1012 AC Current Source AC Current Meter	1. Multi-function digital meter Agilent 3458A 2. Multifunction Calibrator Fluke 5500A	In-house method: AC current calibration procedure (Document No.: ANS-SCP-E-002)	1	mA	1	mA	AC Current Source (@1 kHz)	1.0	mA/A
			10	mA	10	mA	AC Current Source (@1 kHz)	1.0	mA/A
			100	mA	100	mA	AC Current Source (@1 kHz)	1.0	mA/A
			1	A	1	A	AC Current Source (@1 kHz)	2.1	mA/A
			1	mA	1	mA	AC Current Source (@60 Hz)	1.2	mA/A
			10	mA	10	mA	AC Current Source (@60 Hz)	1.2	mA/A
			100	mA	100	mA	AC Current Source (@60 Hz)	1.2	mA/A
			1	A	1	A	AC Current Source (@60 Hz)	1.9	mA/A
1	mA	1	mA	AC Current Meter (@1 kHz)	1.4	mA/A			



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	explanation	value	units
KF1012 AC Current Source AC Current Meter	1. Multi-function digital meter Agilent 3458A 2. Multifunction Calibrator Fluke 5500A	In-house method: AC current calibration procedure (Document No.: ANS-SCP-E-002)	10	mA	10	mA	AC Current Meter (@ 1 kHz)	1.4	mA/A
			100	mA	100	mA	AC Current Meter (@ 1 kHz)	1.4	mA/A
			1	A	1	A	AC Current Meter (@ 1 kHz)	2.3	mA/A
			1	mA	1	mA	AC Current Meter (@60 Hz)	1.6	mA/A
			10	mA	10	mA	AC Current Meter (@60 Hz)	1.6	mA/A
			100	mA	100	mA	AC Current Meter (@60 Hz)	1.6	mA/A
			1	A	1	A	AC Current Meter (@60 Hz)	2.2	mA/A
Approval Signatory: SHIH, Chuan-Yuan; CHEN, Wei-Hao; LAI, Yung-Chi									

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

