



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

Certificate of Accreditation

(Certificate No : L1733-240228)

This is to certify that

Measurement Technology Co.,Ltd
Calibration Laboratory of Northern Region Service Department
4F, 130, Sec. 3, Keelung Rd., Taipei 106, Taiwan, R.O.C.

is accredited in respect of laboratory

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

Accreditation Number : 1733

Originally Accredited : December 28, 2006

Effective Period : December 28, 2021 to December 27, 2024

Accredited Scope : Calibration Field, see described in the Appendix



Scan to verify

Yi-Ling Chen

Yi-Ling Chen
President, Taiwan Accreditation Foundation
February 28, 2024

Accreditation Number : 1733
 Laboratory Head : LIN, Chin-Hua

Vibration & Acoustics						
calibration items	working standard brand /model	calibration method document name /no.	measurand level or range		measurement conditions /independent variable	
			minimum value	maximum value	units	smallest uncertainty
KB2004 Sound Level Meter /RION/NC-73 2.Pistonphone /RION/NC-72	1.Sound Pressure Level In-house method: Sound Level Meter Calibration Procedure (Document No.: MT-C-95-006)		94	94	dB	0.4 dB
			114	114	dB	0.4 dB
Approval Signatory: LIN, Chin-Hua; HUANG, Chun-Lin						

Mass/Force						
calibration items	working standard brand /model	calibration method document name /no.	measurand level or range		measurement conditions /independent variable	
			minimum value	maximum value	units	smallest uncertainty
KC1002 balance (including on-site calibration)	METTLER /1 mg-200 g/F1 SARTORIUS /1 mg-1 kg/F1 CHINA SCALE /2 kg/F1 CHINA SCALE /5 kg-20 kg/F1 CHINA SCALE /50 g-1 kg/F1	In-house method: Calibration procedure for electronic balance (1 mg 200 g) (Document No.: MT-C-111-001) Calibration procedure for electronic balance (200 g 2000 g) (Document No.: MT-C-111-002) Calibration procedure for electronic balance (2 kg 30 kg) (Document No.: MT-C-111-003)	0.001	50	g	0.00015 g
			>50	200	g	0.00038 g
			200	2	kg	0.004 g
			2	30	kg	0.3 g
Approval Signatory: LI, Yueh-Hsun; LIN, Chin-Hua; LIU, Li-Ming						



calibration items	working standard brand /model	calibration method document name /no.	measurand level or range			measurement conditions /independent variable explanation	smallest uncertainty	
			minimum value	units	maximum value		value	units
KC1004 Platform Scale (including on-site calibration)	METTLER/1 mg-200 g/F1 SARTORIUS/1 mg-1 kg/F1 CHINA SCALE/2 kg/F1 CHINA SCALE/5 kg - 20 kg/F1 CHINA SCALE/50 g-1kg/F1 CHINA SCALE/100 g - 10 kg/F1	In-house method: Calibration procedure for electronic scale (0.05 kg 150 kg) (Document No.: MT-C-111-004)	0.05	kg	150	kg	0.04	kg

Approval Signatory: LI, Yueh-Hsun; LIN, Chin-Hua; LIU, Li-Ming

Pressure/Vacuum								
calibration items	working standard brand /model	calibration method document name /no.	measurand level or range			measurement conditions /independent variable explanation	smallest uncertainty	
			minimum value	units	maximum value		value	units
KD1004 Pressure Gauge (Hydraulic Pressure Gauge)	Hydraulic Pressure Gauge Digital Pressure Gauge (Hydraulic Pressure Gauge) DHI/RPM3	In-house method: Calibration Procedure for Hydraulic Pressure Gauge/Pressure Transducer (MT-C-101-012)	49 (0.5)	kPa (kgf/cm ²)	2942 (30)	kPa (kgf/cm ²)	17	kPa
Pressure Gauge			2942 (30)	kPa (kgf/cm ²)	29420 (300)	kPa (kgf/cm ²)	20	kPa
			29420 (300)	kPa (kgf/cm ²)	96105 (980)	kPa (kgf/cm ²)	30	kPa

Approval Signatory: LIN, Yen-Chiu; LIN, Chin-Hua



calibration items	working standard brand /model	calibration method document name /no.	measurand level or range			measurement conditions /independent variable explanation	smallest uncertainty		
			minimum value	units	maximum value		units	value	units
KD1004 Pressure Gauge	Digital Pneumatic Pressure Calibrator DHI/PPC2+	In-house method: Pressure Gauge/Pressure Transducer Calibration Procedure (Document No.: MT-C-95-007)	20	kPa	490	Gauge pressure	6.7	kPa	
			490	kPa	1460	Gauge pressure	6.7	kPa	
			1460	kPa	2940	Gauge pressure	8.2	kPa	
Approval Signatory: LIN, Yen-Chiu; LIN, Chin-Hua									
KD1005 Barometer	Digital Pneumatic Pressure Calibrator DHI/PPC3	In-house method: Calibration Procedure for Barometer /MT-C-109-008	820	hPa	1045		0.38	hPa	
Approval Signatory: LIN, Yen-Chiu; LIN, Chin-Hua									
KD1005 Pressure Transducer	Digital Pneumatic Pressure Calibrator DHI/PPC2+	In-house method: Pressure Gauge/Pressure Transducer Calibration Procedure (Document No.: MT-C-95-007)	20	kPa	490	Gauge pressure	0.30	kPa	
			490	kPa	1460	Gauge pressure	0.60	kPa	
			1460	kPa	2940	Gauge pressure	1.0	kPa	
Approval Signatory: LIN, Yen-Chiu; LIN, Chin-Hua									
KD1007 Differential Gauge	Digital Pressure Calibrator DHI/PPC 3	In-house method: Differential Gauge/Digital Differential Gauge Calibration Procedure (MT-C-95-074)	0	Pa	1900		10	Pa	
			0	Pa	10000		40	Pa	
Approval Signatory: LIN, Yen-Chiu; LIN, Chin-Hua									



calibration items	working standard brand /model	calibration method document name /no.	measurand level or range			measurement conditions /independent variable explanation	smallest uncertainty	
			minimum value	units	maximum value		value	units
KD2006 Vacuum Gauge	Digital Pressure Calibrator DHI/PPC3	In-house method: Vacuum Gauge/Vacuum Transducer Calibration Procedure (MT-C-101-022)	-95	kPa	0	kPa	0.042	kPa
Approval Signatory: LIN, Yen-Chiu; LIN, Chin-Hua								

Temperature/Humidity

calibration items	working standard brand /model	calibration method document name /no.	measurand level or range			measurement conditions /independent variable explanation	smallest uncertainty	
			minimum value	units	maximum value		value	units
KE1007 Radiation Thermometer WADE/PT100 (4W) Radiation Thermometer OPTEX/Q188 OPTEX/VF-1600S		1. In-house method: Instrument calibration technical for the comparative calibration of the radiation thermometers (25 °C to 300 °C) (Document No.: MT-C-99-012) 2. In-house method: Instrument calibration technical for the comparative calibration of the radiation thermometers (800 °C to 1500 °C) (Document No.: MT-C-98-013)	25	°C	≤150	ε: 0.95	2.4	°C
			>150	°C	≤200	ε: 0.95	2.8	°C
			>200	°C	250	ε: 0.95	3.0	°C
			50	°C	≤250	ε: 1.00	2.4	°C
			>250	°C	300	ε: 1.00	2.5	°C
			800	°C	1500	ε: 1.0	13	°C
Approval Signatory: LIN, Chin-Hua; HUANG, Chun-Lin								



calibration items	working standard brand /model	calibration method document name /no.	measurand level or range			measurement conditions /independent variable	smallest uncertainty	
			minimum value	units	maximum value		units	value
KE1010 Temperature Controlled Chamber (on-site calibration included)	Hydra Data Bucket FLUKE/2635A	In-house method: Temperature Chamber Calibration Procedure (Document No.: MT-C-100-004)	-30	°C	300	°C	2.5	°C
Approval Signatory: CHIANG, Tsung-Yuan; LIN, Chin-Hua; HUANG, Chun-Lin; LIU, Li-Ming								
KE1010 Temperature Controlled Chamber (on-site calibration included)	MobileCorder YOKOGAWA /MV200 (K type)	In-house method: High Temperature Chamber Calibration Procedure/MT-C-108-001	50	°C	450	°C	3.6	°C
Approval Signatory: CHIANG, Tsung-Yuan; LIN, Chin-Hua; HUANG, Chun-Lin; LIU, Li-Ming								
KE2001 Hygrometer Hygrograph	Digital Hygrometer VAISALA/HMP233	In-house method: Hygrometer/Hygrograph Calibration Procedure (Document No.: MT-C-95-054)	15	°C	50	°C	40 % to 90 %	1.0 °C
			40	%	90	%	15 °C to 50 °C	3.0 %
Approval Signatory: CHIANG, Tsung-Yuan; LIN, Chin-Hua; HUANG, Chun-Lin; LIU, Li-Ming								
KE2004 Temperature & Humidity recorder	Digital Hygrometer VAISALA/HMP233	In-house method: Hygrometer/Hygrograph Calibration Procedure (Document No.: MT-C-95-054)	15	°C	50	°C	40 % to 90 %	1.3 °C
			40	%	90	%	15 °C to 50 °C	3.1 %
Approval Signatory: CHIANG, Tsung-Yuan; LIN, Chin-Hua; HUANG, Chun-Lin; LIU, Li-Ming								



calibration items	working standard brand /model	calibration method document name /no.	measurand level or range			measurement conditions /independent variable	smallest uncertainty	
			minimum value	units	maximum value		value	units
KE2005 Temp./Humidity Chamber	Digital Hygrometer VAISALA /HMP233	In-house method: Temperature/Humidity Chamber Calibration Procedure (Document No.: MT-C-100-003)	20	°C	50	40 % to 90 %	2.5	°C
			40	%	90	20 °C to 50 °C	3.5	%

Approval Signatory: CHIANG, Tsung-Yuan; LIN, Chin-Hua; HUANG, Chun-Lin; LIU, Li-Ming

Electricity

calibration items	working standard brand /model	calibration method document name /no.	measurand level or range			measurement conditions /independent variable	smallest uncertainty	
			minimum value	units	maximum value		value	units
KF1001 DC Voltmeter DCV source	Selfcal Digital Multimeter FLUKE/8508A Calibrator FLUKE/5730A	In-house method: DC voltage calibration procedure (Document No.: MT-C-104-001)	0.1	mV	<1	DC Volt Source	9.5	mV/V
			1	mV	<10	DC Volt Source	0.85	mV/V
			10	mV	<100	DC Volt Source	90	μV/V
			100	mV	100	DC Volt Source	12	μV/V
			100	mV	1000	DC Volt Source	20	μV/V
			1	V	1	DC Volt Source	7.0	μV/V
			10	V	10	DC Volt Source	7.0	μV/V
			100	V	100	DC Volt Source	12	μV/V
			1000	V	1000	DC Volt Source	12	μV/V
			0.1	mV	<1	DC Volt Meter	13	mV/V
			1	mV	<10	DC Volt Meter	1.3	mV/V
			10	mV	<100	DC Volt Meter	0.13	mV/V
			100	mV	100	DC Volt Meter	21	μV/V
100	mV	1000	DC Volt Meter	25	μV/V			



calibration items	working standard brand /model	calibration method document name /no.	measurand level or range				measurement conditions /independent variable	smallest uncertainty	
			minimum value	units	maximum value	units		value	units
KF1001 DC Voltmeter DCV source	Selfcal Digital Multimeter FLUKE/8508A Calibrator FLUKE/5730A	In-house method: DC voltage calibration procedure (Document No.: MT-C-104-001)	1	V	1	V	DC Volt Meter	10	μ V/V
			10	V	10	V	DC Volt Meter	10	μ V/V
			100	V	100	V	DC Volt Meter	15	μ V/V
			1000	V	1000	V	DC Volt Meter	15	μ V/V
Approval Signatory: LI, Yueh-Hsun; LIN, Chin-Hua; KAO, Chi-Hsiang									
KF1002 DC Current Meter/Source DC Shunt (On-Site Calibration)	Selfcal Digital Multimeter FLUKE/8508A Shunt LABS CS-50/CS-200 Current amplifier VALHALLA/2555A Calibrator FLUKE/5730A	In-house method: DC Current (2 A to 100 A) Calibration Procedure (Document No.: MT-C-104-036)	2	A	<40	A	DC Current Source	0.25	mA/A
			40	A	100	A	DC Current Source	0.32	mA/A
			2	A	<40	A	DC Current Meter	3.0	mA/A
			40	A	100	A	DC Current Meter	1.4	mA/A
			2	A	<40	A	DC Shunt	3.0	mA/A
40	A	100	A	DC Shunt	1.4	mA/A			
Approval Signatory: LI, Yueh-Hsun; LIN, Chin-Hua; KAO, Chi-Hsiang									
KF1002 DC ampere meter DCA source	Selfcal Digital Multimeter FLUKE/8508A Calibrator FLUKE/5730A	In-house method: DC current calibration procedure (Document No.: MT-C-104-003)	100	μ A	100	μ A	DC Current Source	35	μ A/A
			1	mA	1	mA	DC Current Source	35	μ A/A
			10	mA	10	mA	DC Current Source	40	μ A/A
			100	mA	100	mA	DC Current Source	95	μ A/A
			1	A	1	A	DC Current Source	0.23	mA/A
			100	μ A	<20	mA	DC Current Source	70	μ A/A
			20	mA	2	A	DC Current Source	0.30	mA/A
			100	μ A	100	μ A	DC Current Meter	0.11	mA/A
1	mA	1	mA	DC Current Meter	55	μ A/A			
10	mA	10	mA	DC Current Meter	55	μ A/A			



calibration items	working standard brand /model	calibration method document name /no.	measurand level or range			measurement conditions /independent variable explanation	smallest uncertainty	
			minimum value	units	maximum value		value	units
KF1002 DC ampere meter DCA source	Selfcal Digital Multimeter FLUKE/8508A Calibrator FLUKE/5730A	In-house method: DC current calibration procedure (Document No.: MT-C-104-003)	100	mA	100	DC Current Meter	0.12	mA/A
			1	A	1	DC Current Meter	0.24	mA/A
			100	µA	<20	DC Current Meter	0.11	mA/A
			20	mA	2	DC Current Meter	0.30	mA/A
Approval Signatory: LI, Yueh-Hsun; LIN, Chin-Hua; KAO, Chi-Hsiang								
KF1011 AC volt meter ACV source	Selfcal Digital Multimeter FLUKE/8508A Calibrator FLUKE/5730A	In-house method: AC voltage calibration procedure (Document No.: MT-C-104-002)	100	mV	100	AC Volt Source (@1 kHz, 60 Hz)	0.20	mV/V
			1	V	1	AC Volt Source (@1 kHz, 60 Hz)	0.14	mV/V
			10	V	10	AC Volt Source (@1 kHz, 60 Hz)	0.14	mV/V
			100	V	100	AC Volt Source (@1 kHz, 60 Hz)	0.15	mV/V
			1000	V	1000	AC Volt Source (@1 kHz, 60 Hz)	0.20	mV/V
			5	mV	<50	AC Volt Source (@1 kHz, 60 Hz)	1.2	mV/V
			50	mV	1000	AC Volt Source (@1 kHz, 60 Hz)	0.26	mV/V
			100	mV	100	AC Volt Meter (@1 kHz, 60 Hz)	0.25	mV/V
			1	V	1	AC Volt Meter (@1 kHz, 60 Hz)	0.15	mV/V
			10	V	10	AC Volt Meter (@1 kHz, 60 Hz)	0.15	mV/V
			100	V	100	AC Volt Meter (@1 kHz, 60 Hz)	0.16	mV/V
			1000	V	1000	AC Volt Meter (@1 kHz, 60 Hz)	0.21	mV/V
5	mV	<50	AC Volt Meter (@1 kHz, 60 Hz)	1.5	mV/V			
50	mV	1000	AC Volt Meter (@1 kHz, 60 Hz)	0.36	mV/V			
Approval Signatory: LI, Yueh-Hsun; LIN, Chin-Hua; KAO, Chi-Hsiang								



calibration items	working standard brand /model	calibration method document name /no.	measurand level or range			measurement conditions /independent variable		smallest uncertainty	
			minimum value	units	maximum value	units	explanation	value	units
KF1012 Ampere Meter/Source AC Shunt (On-Site Calibration)	Multimeter FLUKE/8508A Shunt LABS CS-50/CS-200 Current Amplifier VALHALLA/2555A Calibrator FLUKE/5730A	In-house method: AC Current (2A to 100A) Calibration Procedure (MT-C-104-037)	2	A	<10	A	AC Current Source (@ 60 Hz)	1.7	mA/A
			10	A	<40	A	AC Current Source (@ 60 Hz)	0.50	mA/A
			40	A	100	A	AC Current Source (@ 60 Hz)	0.70	mA/A
			2	A	<10	A	AC Current Meter (@ 60 Hz)	19	mA/A
			10	A	<40	A	AC Current Meter (@ 60 Hz)	7.0	mA/A
			40	A	100	A	AC Current Meter (@ 60 Hz)	5.5	mA/A
			2	A	<10	A	AC Shunt (@ 60 Hz)	19	mA/A
			10	A	<40	A	AC Shunt (@ 60 Hz)	7.0	mA/A
			40	A	100	A	AC Shunt (@ 60 Hz)	5.5	mA/A
			Approval Signatory: LJ, Yueh-Hsun; LIN, Chin-Hua; KAO, Chi-Hsiang						
KF1012 AC ampere meter ACA source	Selfcal Digital Multimeter FLUKE/8508A Calibrator FLUKE/5730A	In-house method: AC current calibration procedure (Document No.: MT-C-104-004)	100	μA	100	μA	AC Current Source (@1 kHz, 60 Hz)	0.80	mA/A
			1	mA	1	mA	AC Current Source (@1 kHz, 60 Hz)	0.55	mA/A
			10	mA	10	mA	AC Current Source (@1 kHz, 60 Hz)	0.55	mA/A
			100	mA	100	mA	AC Current Source (@1 kHz, 60 Hz)	0.55	mA/A
			1	A	1	A	AC Current Source (@1 kHz, 60 Hz)	0.95	mA/A
			100	μA	<100	mA	AC Current Source (@1 kHz, 60 Hz)	1.4	mA/A
			100	mA	2	A	AC Current Source (@1 kHz, 60 Hz)	1.8	mA/A
			100	μA	100	μA	AC Current Meter (@1 kHz, 60 Hz)	1.1	mA/A
			1	mA	1	mA	AC Current Meter (@1 kHz, 60 Hz)	0.75	mA/A
			10	mA	10	mA	AC Current Meter (@1 kHz, 60 Hz)	0.75	mA/A
100	mA	100	mA	AC Current Meter (@1 kHz, 60 Hz)	0.75	mA/A			
1	A	1	A	AC Current Meter (@1 kHz, 60 Hz)	1.4	mA/A			
100	μA	<100	mA	AC Current Meter (@1 kHz, 60 Hz)	1.9	mA/A			
100	mA	2	A	AC Current Meter (@1 kHz, 60 Hz)	2.4	mA/A			
Approval Signatory: LJ, Yueh-Hsun; LIN, Chin-Hua; KAO, Chi-Hsiang									



calibration items	working standard brand /model	calibration method document name /no.	measurand level or range			measurement conditions /independent variable		smallest uncertainty	
			minimum value	units	maximum value	units	explanation	value	units
KF1018 AC Clamp Meter	Multifunction Calibrator FLUKE/5730A Current Calibrator Valhalla/2555A Current Coil FLUKE/1kA	In-house method: CLAMP-METER (1 kA) MEASURING SYSTEM CALIBRATION PROCEDURE (MT-C-104-039)	1	A	30	A	AC Clamp Meter (@ 60 Hz)	36	mA/A
			>30	A	>100	A	AC Clamp Meter (@ 60 Hz)	65	mA/A
			100	A	1000	A	AC Clamp Meter (@ 60 Hz)	35	mA/A
Approval Signatory: LJ, Yueh-Hsun; LIN, Chin-Hua; KAO, Chi-Hsiang									
KF1018 DC Clamp Meter	Multifunction Calibrator FLUKE/5730A Current Calibrator Valhalla/2555A Current Coil FLUKE/1kA	In-house method: CLAMP-METER (1 kA) MEASURING SYSTEM CALIBRATION PROCEDURE (MT-C-104-039)	1	A	30	A	DC Clampmeter	6.0	mA/A
			>30	A	1000	A	DC Clampmeter	43	mA/A
Approval Signatory: LJ, Yueh-Hsun; LIN, Chin-Hua; KAO, Chi-Hsiang									
KF2001 THREE PHASE POWER METER /SOURCE (On-Site Calibration)	Power Calibrator CALMET/C300 Power Analyzer FLUKE/4000	In-house method: AC POWER MEASURING SYSTEM CALIBRATION PROCEDURE (Document No.: MT-C-104-013)	3.3	W	6600	W	Power Meter 110 V/0.01 A~20 A @ Freq: 60 Hz, PF: 1.0	2.3	mW/W
			6.6	W	13200	W	Power Meter 220 V/0.01 A~20 A @ Freq: 60 Hz, PF: 1.0	2.3	mW/W
			3.3	W	6600	W	Power Soerce110 V/0.01 A~20 A @ Freq: 60 Hz, PF: 1.0	3.0	mW/W
			6.6	W	13200	W	Power Soerce220 V/0.01 A~20 A @ Freq: 60 Hz, PF: 1.0	3.0	mW/W
Approval Signatory: LJ, Yueh-Hsun; LIN, Chin-Hua; KAO, Chi-Hsiang									



calibration items	working standard brand /model	calibration method document name /no.	measurand level or range			measurement conditions /independent variable explanation	smallest uncertainty	
			minimum value	units	maximum value		units	value
KF2001 SINGLE PHASE POWER METER /SOURCE (On-Site Calibration)	Power Calibrator CALMET/C300	In-house method: AC POWER MEASURING SYSTEM CALIBRATION PROCEDURE (Document No.: MT-C-104-013)	1.1	W	2200	W	0.70	mW/W
	Power Analyzer FLUKE/4000		2.2	W	4400	W	0.70	mW/W
			1.1	W	2200	W	2.8	mW/W
			2.2	W	4400	W	2.8	mW/W
Approval Signatory: LJ, Yueh-Hsun; LIN, Chin-Hua; KAO, Chi-Hsiang								
KF3001 Resistor /Decimal resistance box Ohmmeter (on-site calibration included)	Selfcal digital multimeter FLUKE/8508A Standard Resistor Guildline/9330 IET/SRX-100M IET/SRC-1G IET/SRC-10G YEW/2792 Decimal Resistance Box ESI/RS925C BIDDLE/72-6346-1	In-house method: resistance calibration procedure (Document No.: MT-C-104-005)	1	mΩ	1	mΩ	4.5	mΩ/Ω
			10	mΩ	10	mΩ	0.50	mΩ/Ω
			100	mΩ	100	mΩ	65	μΩ/Ω
			1	Ω	1	Ω	30	μΩ/Ω
			10	Ω	10	Ω	20	μΩ/Ω
			100	Ω	100	Ω	15	μΩ/Ω
			1	kΩ	1	kΩ	15	μΩ/Ω
			10	kΩ	10	kΩ	15	μΩ/Ω
			100	kΩ	100	kΩ	15	μΩ/Ω
			1	MΩ	1	MΩ	25	μΩ/Ω
			10	MΩ	10	MΩ	30	μΩ/Ω
			100	MΩ	100	MΩ	0.21	mΩ/Ω
			1	GΩ	1	GΩ	0.35	mΩ/Ω
			10	GΩ	10	GΩ	3.5	mΩ/Ω
			0.001	Ω	<0.1	Ω	4.5	mΩ/Ω
			0.1	Ω	<100	Ω	65	μΩ/Ω
			100	Ω	10	MΩ	35	μΩ/Ω
			>10	MΩ	100	MΩ	0.21	mΩ/Ω
			1	mΩ	1	mΩ	4.7	mΩ/Ω
			10	mΩ	10	mΩ	0.51	mΩ/Ω
			100	mΩ	100	mΩ	0.12	mΩ/Ω



calibration items	working standard brand /model	calibration method document name /no.	measurand level or range			measurement conditions /independent variable explanation	smallest uncertainty		
			minimum value	units	maximum value		units	value	units
KF3001 Resistor /Decimal resistance box Ohmmeter (on-site calibration included)	Selfcal digital multimeter FLUKE/8508A Standard Resistor Guildline/9330 IET/SRX-100M IET/SRC-1G IET/SRC-10G YEW/2792 Decimal Resistance Box ESI/RS925C BIDDLE/72-6346-1	In-house method: resistance calibration procedure (Document No.: MT-C-104-005)	1	Ω	1	Ω	Resistance Meter	35	$\mu\Omega/\Omega$
			10	Ω	10	Ω	Resistance Meter	25	$\mu\Omega/\Omega$
			100	Ω	100	Ω	Resistance Meter	25	$\mu\Omega/\Omega$
			1	k Ω	1	k Ω	Resistance Meter	25	$\mu\Omega/\Omega$
			10	k Ω	10	k Ω	Resistance Meter	25	$\mu\Omega/\Omega$
			100	k Ω	100	k Ω	Resistance Meter	25	$\mu\Omega/\Omega$
			1	M Ω	1	M Ω	Resistance Meter	50	$\mu\Omega/\Omega$
			10	M Ω	10	M Ω	Resistance Meter	65	$\mu\Omega/\Omega$
			100	M Ω	100	M Ω	Resistance Meter	0.26	m Ω/Ω
			1	G Ω	1	G Ω	Resistance Meter	0.85	m Ω/Ω
			10	G Ω	10	G Ω	Resistance Meter	4.0	m Ω/Ω
			0.1	Ω	<1	Ω	Resistance Meter	0.90	m Ω/Ω
			1	Ω	<100	Ω	Resistance Meter	0.25	m Ω/Ω
100	Ω	1	M Ω	Resistance Meter	50	$\mu\Omega/\Omega$			
>1	M Ω	100	M Ω	Resistance Meter	0.50	m Ω/Ω			
Approval Signatory: LI, Yueh-Hsun; LIN, Chin-Hua; KAO, Chi-Hsiang									
KF3001 Clamp-on Resistance meter (on-site calibration included)	Decimal Resistance Box ESI/RS925C	In-house method: Clamp-on Resistance calibration procedure /MT-C-109-007	0.1	Ω	<1	Ω	Clamp-on Resistance Meter	0.11	Ω/Ω
			1	Ω	<100	Ω	Clamp-on Resistance Meter	11	m Ω/Ω
			100	Ω	1200	Ω	Clamp-on Resistance Meter	25	m Ω/Ω
Approval Signatory: LI, Yueh-Hsun; LIN, Chin-Hua; KAO, Chi-Hsiang									



Flow 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
KH3001 Hot wire anemometer, Pitot tube anemometer	Hot wire anemometer TSI/8465-300-1 Pitot tube anemometer Setra/276	In-house method: Anemometer Calibration Procedure /MT-C-111-006			0.2	m/s	<1	m/s	0.15	m/s
					1	m/s	<5	m/s	0.43	m/s
					5	m/s	<10	m/s	0.45	m/s
					10	m/s	30	m/s	0.70	m/s
Approval Signatory: LI, Yueh-Hsun; LIN, Chin-Hua; LIU, Li-Ming										

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

