



Certificate No. : L0150-200611

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

Certificate of Accreditation

This is to certify that

Systems Sustainment Center, NCSIST

Calibration Laboratory of Instrument Calibration Section

No.481, Jia'an Sec., Zhongzheng Rd., Longtan, Taoyuan 325, Taiwan (R.O.C.)

is accredited in respect of laboratory

Accreditation Criteria : ISO/IEC 17025:2017 ; CNS 17025:2018
Accreditation Number : 0150
Originally Accredited : June 01, 1994
Effective Period : June 12, 2020 to June 11, 2023
Accredited Scope : Calibration Field, see described in the Appendix

Chung-Lin Wang

Chung-Lin Wang
President, Taiwan Accreditation Foundation
Date : June 11, 2020



Certificate No. : L0150-200611

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

Accreditation Number : 0150

Laboratory Head : HUANG, Chao-Yu

Length

calibration items	working standard	calibration method	measurand level or range				measurement conditions /independent variable	smallest uncertainty	
	brand /model	document name /no.	mini mum value	units	maxi mum value	units	explanation	value	units
KA1001 gauge block	Mitutoyo S0002812, KOBA I0001034-4, Starrett I0001034-8, Starrett I0001034-10	(1) Document No.: CP-DM -0002; (2) Document No.: CP-DM -0053	0.5	mm	1.2	mm	Steel	0.06	μm
			1.21	mm	1.5	mm	Steel	0.06	μm
			1.6	mm	10	mm	Steel	0.06	μm
			10.5	mm	20	mm	Steel	0.08	μm
			20.5	mm	25	mm	Steel	0.08	μm
			30	mm	50	mm	Steel	0.11	μm
			60	mm	75	mm	Steel	0.16	μm
			80	mm	100	mm	Steel	0.22	μm
			0.5	mm	1.2	mm	Chromium Carbide	0.06	μm
			1.21	mm	1.5	mm	Chromium Carbide	0.06	μm
			1.6	mm	10	mm	Chromium Carbide	0.06	μm
			10.5	mm	20	mm	Chromium Carbide	0.08	μm
			20.5	mm	25	mm	Chromium Carbide	0.08	μm
			30	mm	50	mm	Chromium Carbide	0.10	μm
			60	mm	75	mm	Chromium Carbide	0.16	μm
			80	mm	100	mm	Chromium Carbide	0.22	μm
			125	mm	125	mm	Steel	0.22	μm
			150	mm	150	mm	Steel	0.28	μm
			175	mm	175	mm	Steel	0.30	μm
			200	mm	200	mm	Steel	0.32	μm
			250	mm	250	mm	Steel	0.37	μm
			300	mm	300	mm	Steel	0.45	μm
			400	mm	400	mm	Steel	0.57	μm
calibration	working	calibration	measurand level or range				measurement	smallest	

P2, total 41 pages



Certificate No. : L0150-200611

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

items	standard	method					conditions /independent variable	uncertainty	
	brand /model	document name /no.	mini mum value	units	maxi mum value	units	explanation	value	units
KA1001 gauge block	Mitutoyo S0002812, KOB I0001034-4, Starrett I0001034-8, Starrett I0001034-10	(1) Document No.: CP-DM -0002; (2) Document No.: CP-DM -0053	500	mm	500	mm	Steel	0.70	μm
			600	mm	600	mm	Steel	0.72	μm
			127.0	mm	127.0	mm	Steel	0.23	μm
			(5)	(in)	(5)	(in)		(9)	(μin)
			152.4	mm	152.4	mm	Steel	0.31	μm
			(6)	(in)	(6)	(in)		(12)	(μin)
			177.8	mm	177.8	mm	Steel	0.31	μm
			(7)	(in)	(7)	(in)		(12)	(μin)
			203.2	mm	203.2	mm	Steel	0.33	μm
			(8)	(in)	(8)	(in)		(13)	(μin)
			254.0	mm	254.0	mm	Steel	0.39	μm
			(10)	(in)	(10)	(in)		(15)	(μin)
			304.8	mm	304.8	mm	Steel	0.46	μm
			(12)	(in)	(12)	(in)		(18)	(μin)
			406.4	mm	406.4	mm	Steel	0.59	μm
			(16)	(in)	(16)	(in)		(23)	(μin)
KA1003 Ring Gauge	MITUTOYO S0001385& S0000841	(1) Document No.: CP-DM -0026 (2) Document No.: CP-DM -0027	11	mm	200	mm	(1) Internal	1.6	μm
			11.43	mm	127	mm	(2) Internal	1.3	μm
			(0.45)	(in)	(5)	(in)		(0.00005)	(in)



Certificate No. : L0150-200611

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

calibration items	working standard	calibration method	measurand level or range				measurement conditions /independent variable	smallest uncertainty	
	brand /model	document name /no.	mini mum value	units	maxi mum value	units	explanation	value	units
KA1009 Caliper Checker /Check Master (Steel, Ceramic)	CEJ IGA00007	Document No.: CP-DM -0018	0	mm	600	mm	steel, outside	4.7	μm
			0	mm	600	mm	steel, inside	6.7	μm
			0	mm	600	mm	ceramic, outside	4.6	μm
			0	mm	600	mm	ceramic, inside	6.5	μm
			0	mm	1000	mm	steel, outside	7.1	μm
			0	mm	1000	mm	steel, inside	11	μm
KA1019 Dial Gauge Checker	MITUTOYO S0001385	Document No.: CP-DM -0051	0	mm	25	mm	resolution: 0.1 μm	0.3	μm
KA2003 Dial /Digimatic Caliper Dial /Vernier Caliper Vernier Caliper	MITUTOYO LAO00002, MITUTOYO L0010167	(1) Document No.: CP-DM -0008; (2) Document No.: CP-DM -0061	0	mm	600	mm	(1) inside (Digimatic Caliper resolution: 0.01 mm)	0.02	mm
			0	mm	600	mm	(1) outside (Digimatic Caliper resolution: 0.01 mm)	0.02	mm
			0	mm	600	mm	(1) inside (Vernier Caliper resolution: 0.02 mm)	0.04	mm
			0	mm	600	mm	(1) outside (Vernier Caliper resolution: 0.02 mm)	0.04	mm
			0	mm	600	mm	(1) inside (Vernier Caliper resolution: 0.05 mm)	0.10	mm



Certificate No. : L0150-200611

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

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	brand /model	document name /no.	mini mum value	units	maxi mum value	units	explanation	value	units
KA2003 Dial /Digimatic Caliper Dial /Vernier Caliper Vernier Caliper	MITUTOYO LAO00002, MITUTOYO L0010167	(1) Document No.: CP-DM -0008; (2) Document No.: CP-DM -0061	0	mm	600	mm	(1) outside (Vernier Caliper resolution: 0.05 mm)	0.10	mm
			0	mm (in)	304.8 (12)	mm (in)	(2) inside (Vernier Caliper resolution: 0.0254 mm (0.001 in))	0.0508 (0.002)	mm (in)
			0	mm (in)	304.8 (12)	mm (in)	(2) outside (Vernier Caliper resolution: 0.0254 mm (0.001 in))	0.0508 (0.002)	mm (in)
			0	mm (in)	304.8 (12)	mm (in)	(2) inside (Digimatic Caliper resolution: 0.0127 mm (0.0005 in))	0.0254 (0.0010)	mm (in)
			0	mm (in)	304.8 (12)	mm (in)	(2) outside (Digimatic Caliper resolution: 0.0127 mm (0.0005 in))	0.0254 (0.0010)	mm (in)
KA2004 Inside Micrometer	MITUTOYO S0001385, CEJ IGA00007	(1) Document No.: CP-DM -0057; (2) Document No.: CP-DM -0058	5	mm	400	mm	(resolution: 0.01 mm)	0.01	mm
			5	mm	400	mm	(resolution: 0.002 mm)	0.004	mm
			5	mm	400	mm	(resolution: 0.001 mm)	0.004	mm



Certificate No. : L0150-200611

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

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	brand /model	document name /no.	mini mum value	units	maxi mum value	units	explanation	value	units
KA2005 Outside Micrometer	MITUTOYO S0001385, MITUTOYO S0000841	(1) Document No.: CP-DM -0055; (2) Document No.: CP-DM -0060	0	mm	225	mm	(1) vernier (resolution 0.01 mm)	0.02	mm
			0	mm	225	mm	(1) digital (resolution 0.001 mm)	0.008	mm
			0 (0)	mm (in)	203.2 (8)	mm (in)	(2) vernier (resolution 0.02 mm (0.001 i n))	0.08 (0.003)	mm (in)
			0 (0)	mm (in)	203.2 (8)	mm (in)	(2) digital (resolution 0.001 mm (0.000 05 in))	0.004 (0.00015)	mm (in)
KA2007 Three Points Inside Micrometer	HELIOS ILR00001& ILR00001-1, VR LLR00008	(1) Document No.: CP-DM -0054; (2) Document No.: CP-DM -0059	11	mm	200	mm	(1) digital (resolution: 1 μ m)	3	μ m
			11	mm	200	mm	(1) vernier (resolution: 2 μ m)	4	μ m
			11	mm	200	mm	(1) vernier (resolution: 5 μ m)	5	μ m
			11.43 (0.45)	mm (in)	20.32 (0.8)	mm (in)	(2) vernier (resolution: 0.02 mm (0.0001 in))	0.008 (0.0003)	mm (in)
			20.32 (0.8)	mm (in)	127 (5)	mm (in)	(2) vernier (resolution: 0.005 mm (0.0002 in))	0.016 (0.0006)	mm (in)
			20.32 (0.8)	mm (in)	127 (5)	mm (in)	(2) digital (resolution: 0.001 mm (0.00005 in))	0.004 (0.00015)	mm (in)



Certificate No. : L0150-200611

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

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	brand /model	document name /no.	mini mum value	units	maxi mum value	units	explanation	value	units
KA2008 Digital Height Gauge Dial Height Gauge Vernier Height Gauge	MITUTOYO 515-556	Document No.: CP-DM -0017	0	mm	600	mm	vernier (resolution: 0.02 mm)	0.02	mm
			0	mm	600	mm	digital, dial (resolution: 0.01 mm)	0.02	mm
KA2010 Dial Indicator	Mitutoyo I-Checker (S0001376)	Document No.: CP-DM -0010	0	mm	25	mm	(resolution: 0.01 mm)	0.01	mm
			0	mm	25	mm	(resolution: 0.001 mm)	0.005	mm
			0	mm	5	mm	(resolution: 0.001 mm)	0.002	mm
KA2012 Depth Checker	MITUTOYO S0001381	Document No.: CP-DM -0041	0	mm	150	mm		2.3	μm
			0	mm	300	mm		2.9	μm
KA3001 Angle Gauge Block	AA GAGE R-11562-3	Document No.: CP-AN -0008	1	"	45	°		0.92	"
KA3002 Square	FUJITA 451	Document No.: CP-AN -0011	120	mm	500	mm		5.0	μm
KA3003 True Square	Muller-Wedel ELCOMAT 2000	Document no.: CP-AN -0014	0	°	360	°		0.92	"
KA3004 Precision Index	Muller-Wedel ELCOMAT 2000	Document No.: CP-AN-0002, CP-AN-0023	0	°	360	°	calibrate one point per 30 degree.	0.42	"
			0	°	360	°	calibrate one point per 30 degree.	0.90	"



Certificate No. : L0150-200611

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

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	brand /model	document name /no.	mini mum value	units	maxi mum value	units	explanation	value	units
KA3005 Polygon	Muller-Wedel ELCOMAT 2000	Document No.: CP-AN-0014	0	°	360	°	12 faced polygon mirrors	0.96	"
KA3008 Autocolli mator	FUJITA 700	Document No.: CP-AN-0012	-400	"	+400	"	esolution: 0.1"	0.2	"
			-400	"	+400	"	resolution: 0.2"	0.3	"
			-400	"	+400	"	resolution: 0.5"	0.7	"
KA3010 Rotary Table	Muller-Wedel ELCOMAT 2000	Document No.: CP-AN-0027	0	°	360	°	calibrate one point per 30 degree.	2.1	"
KA3013 TILTMET ER	MOORE TOOLS UP2477	Document No.: CP-AN-0004	0	°	90	°		10	"
KA3015 Spirit Level	FUJITA 700	Document No.: CP-AN-0007	-1 (-205)	mm/m (")	1 (205)	mm/m (")		0.017 (4)	mm/m (")
KA3016 Electronic Level	FUJITA 700	Document No.: CP-AN-0010	-2 (-6.87)	mm/m (')	2 (6.87)	mm/m (')	resolution: 0.001 mm/m (0.2")	0.001 (0.2)	mm/m (")
			-2 (-6.87)	mm/m (')	2 (6.87)	mm/m (')	resolution: 0.005 mm/m (1")	0.005 (1)	mm/m (")
			-2 (-6.87)	mm/m (')	2 (6.87)	mm/m (')	resolution: 0.01 mm/m (2")	0.010 (2)	mm/m (")



Certificate No. : L0150-200611

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

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	brand /model	document name /no.	mini mum value	units	maxi mum value	units	explanation	value	units
KA3019 Combination Squares	HOMMEL WERKE 1602	Document No.: CP-AN -0003	0	°	90	°	resolution: 1'	1	'
			0	°	90	°	resolution: 2.5'	2.5	'
			0	°	90	°	resolution: 5'	5	'
			0	°	90	°	resolution: 1°	1	°
KA4002 Surface Plate	Mahn S0000825	Document No.: CP-DM -0021	250× 400	mm* mm	2400× 1200	mm* mm	Rectangle grid method	7.1	μm
KA4003 Straight Edge	Muller-Wedel ELCOMAT 2000	Document No.: CP-AM -0006	0.3	m	2	m		2.9	μm

Vibration & Acoustics

calibration items	working standard	calibration method	measurand level or range				measurement conditions /independent variable	smallest uncertainty	
	brand /model	document name /no.	mini mum value	units	maxi mum value	units	explanation	value	units
KB1001 Accelerometer	B&K 8305	Document No.: CP-VB -0002		mV /(m/s ²)		mV /(m/s ²)	voltage sensitivity @(5 Hz to <10 Hz) 5 m/s ²	2.7	%
				mV /(m/s ²)		mV /(m/s ²)	voltage sensitivity @(10 Hz to <50 Hz) 5 m/s ²	2.7	%
				mV /(m/s ²)		mV /(m/s ²)	voltage sensitivity @(50 Hz to <100 Hz) 14 m/s ²	2.7	%



Certificate No. : L0150-200611

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

calibration items	working standard	calibration method	measurand level or range				measurement conditions /independent variable	smallest uncertainty	
	brand /model	document name /no.	mini mum value	units	maxi mum value	units	explanation	value	units
KB1001 Accelerometer	B&K 8305	Document No.: CP-VB-0002		mV /(m/s^2)		mV /(m/s^2)	voltage sensitivity @ (100 Hz to <160 Hz) 23 m/s^2	2.7	%
				mV /(m/s^2)		mV /(m/s^2)	voltage sensitivity @ (160 Hz to <300 Hz) 29 m/s^2	2.7	%
				mV /(m/s^2)		mV /(m/s^2)	voltage sensitivity @ (300 Hz to <700 Hz) 71 m/s^2	2.7	%
				mV /(m/s^2)		mV /(m/s^2)	voltage sensitivity @ (700 Hz to <1000 Hz) 70 m/s^2	2.7	%
				mV /(m/s^2)		mV /(m/s^2)	voltage sensitivity @ (1000 Hz to <5000 Hz) 71 m/s^2	2.7	%
				mV /(m/s^2)		mV /(m/s^2)	voltage sensitivity @ (5000 Hz) 107 m/s^2	2.7	%
				pC /(m/s^2)		pC /(m/s^2)	charge sensitivity @ (10 Hz to <5 Hz) 5 m/s^2	3.0	%
				pC /(m/s^2)		pC /(m/s^2)	charge sensitivity @ (50 Hz to <100 Hz) 14 m/s^2	3.0	%
				pC /(m/s^2)		pC /(m/s^2)			



Certificate No. : L0150-200611

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

calibration items	working standard	calibration method	measurand level or range				measurement conditions /independent variable	smallest uncertainty	
	brand /model	document name /no.	mini mum value	units	maxi mum value	units	explanation	value	units
KB1001 Accelerometer	B&K 8305	Document No.: CP-VB-0002		pC /(m/s^2)		pC /(m/s^2)	charge sensitivity @ (100 Hz to <160 Hz) 23 m/s^2	3.0	%
				pC /(m/s^2)		pC /(m/s^2)	charge sensitivity @ (160 Hz to <300 Hz) 29 m/s^2	3.0	%
				pC /(m/s^2)		pC /(m/s^2)	charge sensitivity @ (300 Hz to <700 Hz) 71 m/s^2	3.0	%
				pC /(m/s^2)		pC /(m/s^2)	charge sensitivity @ (700 Hz to <1000 Hz) 70 m/s^2	3.0	%
				pC /(m/s^2)		pC /(m/s^2)	charge sensitivity @ (1000 Hz to <5000 Hz) 71 m/s^2	3.0	%
				pC /(m/s^2)		pC /(m/s^2)	charge sensitivity @ (5000 Hz) 107 m/s^2	3.0	%
KB1002 Vibration Meter	B&K 8305	Document No.: CP-VB-0005	10	m/s^2	100	m/s^2	Acceleration @ (10 Hz to 5000 Hz)	3.0	%
			10	mm/s	500	mm/s	Velocity @ (10 Hz to 2000 Hz)	3.4	%
			0.1	mm	5	mm	Displacement @ (10 Hz to 200 Hz)	3.9	%



Certificate No. : L0150-200611

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

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	brand /model	document name /no.	mini mum value	units	maxi mum value	units	explanation	value	units
KB2004 Sound Level Meter	DELTA OHM HD 9102	Document No.: CP-SL-0001	94	dB	94	dB	@1000 Hz	1	dB
			110	dB	110	dB	@1000 Hz	1	dB

Mass/Force

calibration items	working standard	calibration method	measurand level or range				measurement conditions /independent variable	smallest uncertainty	
	brand /model	document name /no.	mini mum value	units	maxi mum value	units	explanation	value	units
KC1001 (1) Weight (2) Gravity Weight	Sartorius C5s Sartorius C50s Sartorius C1000s Sartorius C10000s Mettler XP26003L & Mettler XPE56C Mettler XPE505C && Mettler MC210S Sartorius LA3200D Mettler XP26003L Mettler KA30-3	(1) Document No.: CP-MA-0002, CP-MA-0003, CP-MA-0004, CP-MA-0005, CP-MA-0009, CP-MA-0013, CP-MA-0016, & (2) Document No.: CP-MA-0008	1	mg	1	mg	(1) Weight	0.0019	mg
			2	mg	2	mg	(1) Weight	0.0019	mg
			5	mg	5	mg	(1) Weight	0.0019	mg
			10	mg	10	mg	(1) Weight	0.0019	mg
			20	mg	20	mg	(1) Weight	0.0019	mg
			50	mg	50	mg	(1) Weight	0.0020	mg
			100	mg	100	mg	(1) Weight	0.0023	mg
			200	mg	200	mg	(1) Weight	0.0029	mg
			500	mg	500	mg	(1) Weight	0.0031	mg
			1	g	1	g	(1) Weight	0.0037	mg
			2	g	2	g	(1) Weight	0.0045	mg
			5	g	5	g	(1) Weight	0.0086	mg
			10	g	10	g	(1) Weight	0.013	mg
			20	g	20	g	(1) Weight	0.013	mg
			50	g	50	g	(1) Weight	0.019	mg
			100	g	100	g	(1) Weight	0.039	mg
			200	g	200	g	(1) Weight	0.062	mg
			500	g	500	g	(1) Weight	0.12	mg
			1	kg	1	kg	(1) Weight	0.23	mg
			2	kg	2	kg	(1) Weight	1.4	mg
			5	kg	5	kg	(1) Weight	3.2	mg
			10	kg	10	kg	(1) Weight	5.2	mg
			20	kg	20	kg	(1) Weight	12	mg
			1	g	200	g	(2) Stainless Gravity Weight	0.13	mg



Certificate No. : L0150-200611

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

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	brand /model	document name /no.	mini mum value	units	maxi mum value	units	explanation	value	units
KC1001 (1) Weight (2) Gravity Weight	Sartorius C5s Sartorius C50s Sartorius C1000s Sartorius C10000s Mettler XP26003L Mettler XPE56C Mettler XPE505C && Mettler MC210S Sartorius LA3200D Mettler XP26003L Mettler KA30-3	(1) Document No.: CP-MA-0002, CP-MA-0003, CP-MA-0004, CP-MA-0005, CP-MA-0009, CP-MA-0013, CP-MA-0016, & (2) Document No.: CP-MA-0008	200	g	1	kg	(2) Stainless Gravity Weight	3.0	mg
			1	kg	26	kg	(2) Stainless Gravity Weight	20	mg
			26	kg	30	kg	(2) Stainless Gravity Weight	83	mg
			1	g	200	g	(2) Brass Gravity Weight	0.16	mg
			200	g	1	kg	(2) Brass Gravity Weight	3.0	mg
			1	kg	26	kg	(2) Brass Gravity Weight	23	mg
			26	kg	30	kg	(2) Brass Gravity Weight	84	mg
			1	g	200	g	(2) Cast Iron Gravity Weight	0.29	mg
			200	g	1	kg	(2) Cast Iron Gravity Weight	3.0	mg
			1	kg	26	kg	(2) Cast Iron Gravity Weight	40	mg
			26	kg	30	kg	(2) Cast Iron Gravity Weight	92	mg



Certificate No. : L0150-200611

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

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KC1002 Balance (On-site Calibration Included)	Mettler MC210S Sartorius LA3200D Mettler XP26003L Mettler KA30-3	Document No.: CP-MA-0007	1	mg	20	g	(Readability: 0.001 mg)	0.038	mg
			20	g	50	g	(Readability: 0.001 mg)	0.059	mg
			50	g	100	g	(Readability: 0.01 mg)	0.21	mg
			100	g	200	g	(Readability: 0.01 mg)	0.39	mg
			200	g	300	g	(Readability: 0.01 mg)	0.57	mg
			300	g	500	g	(Readability: 0.01 mg)	0.94	mg
			500	g	1	kg	(Readability: 0.001 g)	4	mg
			1	kg	6	kg	(Readability: 0.001 g)	14	mg
			6	kg	15	kg	(Readability: 0.001 g)	30	mg
			15	kg	26	kg	(Readability: 0.001 g)	51	mg
			26	kg	32	kg	(Readability: 0.005 g)	0.11	g
KC1004 (1) Platform Scale (on-site Calibration Included) (2) Crane Scale (on-site Calibration Included)	(1) Mettler KC500-1 (2) N.A. F1	(1) Document No.: CP-MA-0007 (2) Document No.: CP-MA-0013	32	kg	100	kg	(1) Platform Scale (Readability: 0.1 g)	11	g
			100	kg	300	kg	(1) Platform Scale (Readability: 0.1 g)	14	g
			300	kg	600	kg	(1) Platform Scale (Readability: 0.1 g)	19	g
			1	kg	200	kg	(2) Crane Scale (Readability: 0.01 kg)	0.02	kg

P14, total 41 pages



Certificate No. : L0150-200611

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

calibration items	working standard	calibration method	measurand level or range				measurement conditions /independent variable	smallest uncertainty	
	brand /model	document name /no.	mini mum value	units	maxi mum value	units	explanation	value	units
KC1004 (1) Platform Scale (on-site Calibration Included) (2) Crane Scale (on-site Calibration Included)	(1) Mettler KC500-1 (2) N.A. F1	(1) Document No.: CP-MA-0007 (2) Document No.: CP-MA-0013	1	kg	600	kg	(2) Crane Scale (Readability: 0.1 kg)	0.2	kg
			1	kg	600	kg	(2) Crane Scale (Readability: 0.2 kg)	0.4	kg
			1	kg	1000	kg	(2) Crane Scale (Readability: 0.2 kg)	0.4	kg
			1	kg	1000	kg	(2) Crane Scale (Readability: 0.5 kg)	1.0	kg
KC2001 Proving ring	Morehouse Series 1000	Document No.: CP-FO-0002	0.98	kN	440	kN	Tension	0.12	%
			0.98	kN	440	kN	Compression	0.12	%
KC2002 Load cell	Morehouse Series 1000	Document No.: CP-FO-0002	0.98	kN	440	kN	Tension	0.12	%
			0.98	kN	440	kN	Compression	0.12	%
KC2005 Material testing machine (on-site calibration included)	HBM S9, Ormond BUL-FF39-OS-**-90-251 Lebew 3143-5 kN, Morehouse Ultra-Precision	Document No.: CP-FO-0003	0.13	kN	2.2	kN	Tension, Compression	0.19	%
			0.44	kN	220	kN	Tension, Compression	0.15	%
			88	kN	440	kN	Tension	0.15	%
			88	kN	440	kN	Compression	0.16	%



Certificate No. : L0150-200611

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

calibration items	working standard	calibration method	measurand level or range				measurement conditions /independent variable	smallest uncertainty	
	brand /model	document name /no.	mini mum value	units	maxi mum value	units	explanation	value	units
KC3001 Standard Tank	Mettler KC500-1	Document No.: CP-VO -0001	5	L	10	L	Stainless Standard Tank	8.6	mL
			10	L	20	L	Stainless Standard Tank	8.7	mL
			20	L	50	L	Stainless Standard Tank	15	mL
KC4001 Torque Wrench	CDI 201-0-TTP, CDI 1601-0-TTP, CDI 4001-0-TTP NORBAR 50590.LOG, NORBAR 50592.LOG NORBAR 50028.ETS, NORBAR 50030.ETS NORBAR 50031.ETS	Document No.: CP-TQ -0001	0.015	N m	1	N m	CW, CCW	2.5	%
			1	N m	1000	N m	CW, CCW	2.0	%
KC4002 Torque Screwdriver	CDI 201-0-TTP, CDI 1601-0-TTP, CDI 4001-0-TTP NORBAR 50590.LOG, NORBAR 50592.LOG	Document No.: CP-TQ -0001	0.015	N m	1	N m	CW	2.5	%
			1	N m	50	N m	CW	2.0	%



Certificate No. : L0150-200611

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

calibration items	working standard	calibration method	measurand level or range				measurement conditions /independent variable	smallest uncertainty	
	brand /model	document name /no.	mini mum value	units	maxi mum value	units	explanation	value	units
KC4003 Torque Sensor /Gauge /Transducer	NORBAR 21400, NORBAR 21420 NORBAR 21421, NORBAR 21422 NORBAR 21515, Standard Bar 50 mm Standard Bar 1 in, Weight Set	Document No.: CP-TQ -0002	0.015	N m	1	N m	CW, CCW	1.0	%
			1	N m	5424	N m	CW, CCW	0.1	%
KC4004 Torque Calibrator	NORBAR 21400, NORBAR 21420 NORBAR 21421, NORBAR 21422 NORBAR 21515, Standard Bar 50 mm Standard Bar 1 in, Weight Set	Document No.: CP-TQ -0002	0.015	N m	1	N m	CW, CCW	1.0	%
			1	N m	5424	N m	CW, CCW	0.1	%
KC4005 Torque Multiplier	NORBAR 50030.ETS, NORBAR 50031.ETS NORBAR 50075.ETS	Document No.: CP-TQ -0003	1	N m	4000	N m	CW, CCW	1.2	%
KC5099 Rubber Hardness Tester	Electronic Balance SensorDisc SF400A	Document No.: CP-FO -0007	0		100		Shore hardness scale: Type A & Type D	0.7	



Certificate No. : L0150-200611

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

Pressure/Vacuum

calibration items	working standard	calibration method	measurand level or range				measurement conditions /independent variable	smallest uncertainty	
	brand /model	document name /no.	mini mum value	units	maxi mum value	units	explanation	value	units
KD1001 Gas lubricated piston pressure gauge	RUSKA 2465 RUSKA 2400	Document No.: CP-PR-0010	1.37	kPa	6.90	MPa		5.4 E-05 (of reading)	
		Document No.: CP-PR-0360	41.3	kPa	83.8	MPa		1.1 E-04 (of reading)	
KD1002 Oil lubricated piston pressure gauge	RUSKA 2400 RUSKA 2485	Document No.: CP-PR-0011	41.3	kPa	83.8	MPa		1.1 E-04 of Rdg	
		Document No.: CP-PR-0360	69.0	kPa	414	MPa		1.5 E-04 of Rdg	
KD1003 Mercury manometer (on-site calibration included)	RUSKA 2465, RUSKA 7750i, YOKOGAWA MT210	Document No.: CP-PR-0100	0	kPa	373	kPa		0.95 Pa + 2.2 E-05 of Rdg	
			0	kPa	108	kPa		0.0027 kPa +7.9 E-05 of Rdg	
			108	kPa	338	kPa		0.0051 kPa +7.9 E-05 of Rdg	
			0	kPa	130	kPa		0.015	kPa
			130	kPa	690	kPa		0.090	kPa



Certificate No. : L0150-200611

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

calibration items	working standard	calibration method	measurand level or range				measurement conditions /independent variable	smallest uncertainty	
	brand /model	document name /no.	mini mum value	units	maxi mum value	units	explanation	value	units
KD1004 Pressure gauge (on-site calibration included)	SCHWIEN 1025LX110 RUSKA 2465, RUSKA 2400, RUSKA 2485 RUSKA 7750i, RUSKA 7250sys, DHI PPCK-P10 YOKOGAWA MT210, DPI 104	Document No.: CP-PR-0360	0	Pa	373	kPa	gas pressure	0.0017 kPa + 2.2 E-5 of Rdg	
			1.37	kPa	6.90	MPa	gas pressure	7.8 E-05 of Rdg	
			41.3	kPa	83.8	MPa	gas pressure, oil pressure	1.1 E-04 of Rdg	
			68.9	kPa	414	MPa	oil pressure	1.5 E-04 of Rdg	
			0	kPa	108	kPa	gas pressure	0.0027 kPa + 7.9 E-05 of Rdg	
			108	kPa	338	kPa	gas pressure	0.0051 kPa + 7.9 E-05 of Rdg	
			0	kPa	69	kPa	gas pressure	0.0089	kPa
			69	kPa	6.9	MPa	gas pressure	1.3E-04 of Rdg	
			6.9	MPa	17.3	MPa	gas pressure	1.4E-04 of Rdg	
			0	kPa	3.4	MPa	gas pressure	0.73	kPa
			3.4	MPa	69	MPa	gas pressure	1.5E-4 of Reading	
			0	kPa	130	kPa	gas pressure	0.015	kPa
			130	kPa	690	kPa	gas pressure	0.090	kPa
			0	kPa	6.9	MPa	gas pressure, oil pressure	2.1	kPa
			6.9	MPa	20.7	MPa	gas pressure, oil pressure	4.1	kPa
			20.7	MPa	34.5	MPa	gas pressure, oil pressure	6.2	kPa
			34.5	MPa	69	MPa	gas pressure, oil pressure	21	kPa
			69	MPa	138	MPa	gas pressure, oil pressure	28	kPa



Certificate No. : L0150-200611

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

calibration items	working standard	calibration method	measurand level or range				measurement conditions /independent variable	smallest uncertainty	
	brand /model	document name /no.	mini mum value	units	maxi mum value	units	explanation	value	units
KD1005 Pressure transducer (on-site calibration included)	RUSKA 7750i, RUSKA 7250sys, DHI PPCK-P10 YOKOGAWA MT210 DPI 104	Document No.: CP-PR-0360	0	kPa	108	kPa	gas pressure	0.0027 kPa +7.9E-05 of Rdg	
			108	kPa	338	kPa	gas pressure	0.0051 kPa +7.9E-05 of Rdg	
			0	kPa	69	kPa	gas pressure	0.0089	kPa
			69	kPa	6.90	MPa	gas pressure	1.3E-04 of Rdg	
			6.90	MPa	17.3	MPa	gas pressure	1.4E-04 of Rdg	
			0	kPa	3.4	MPa	gas pressure	0.73	kPa
			3.4	MPa	69.0	MPa	gas pressure	1.5E-04 of Rdg	
			0	kPa	130	kPa	gas pressure	0.015	kPa
			130	kPa	690	kPa	gas pressure	0.090	kPa
			0	kPa	6.90	MPa	gas pressure, oil pressure	2.1	kPa
			6.90	MPa	20.7	MPa	gas pressure, oil pressure	4.1	kPa
			20.7	MPa	34.5	MPa	gas pressure, oil pressure	6.2	kPa
			34.5	MPa	69.0	MPa	gas pressure, oil pressure	21	kPa
			69.0	MPa	138	MPa	gas pressure, oil pressure	28	kPa
KD1006 Air data test system (on-site calibration included)	RUSKA 2465, RUSKA 7750i, YOKOGAWA MT210	Document No.: CP-PR-0360	-915 (-3)	m (kft)	0 (0)	m (kft)	Altitude	0.37 (1.2)	m (ft)
			0 (0)	m (kft)	9144 (30)	m (kft)	Altitude	0.43 (1.4)	m (ft)
			9144 (30)	m (kft)	1524 0 (50)	m (kft)	Altitude	0.67 (2.2)	m (ft)
			15240 (50)	m (kft)	2438 4 (80)	m (kft)	Altitude	2.4 (7.8)	m (ft)
			24384 (80)	m (kft)	30480 (100)	m (kft)	Altitude	6.1 (20)	m (ft)
			12 (25)	m/s (Knots)	33 (65)	m/s (Knots)	Air Speed	0.062 (0.12)	m/s (Knots)
			33 (65)	m/s (Knots)	51 (100)	m/s (Knots)	Air Speed	0.024 (0.046)	m/s (Knots)



Certificate No. : L0150-200611

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

calibration items	working standard	calibration method	measurand level or range				measurement conditions /independent variable	smallest uncertainty	
	brand /model	document name /no.	mini mum value	units	maxi mum value	units	explanation	value	units
KD1006 Air data test system (on-site calibration included)	RUSKA 2465, RUSKA 7750i, YOKOGAWA MT210	Document No.: CP-PR -0360	51 (100)	m/s (Knots)	128 (250)	m/s (Knots)	Air Speed	0.016 (0.030)	m/s (Knots)
			128 (250)	m/s (Knots)	180 (350)	m/s (Knots)	Air Speed	0.0072 (0.014)	m/s (Knots)
			180 (350)	m/s (Knots)	515 (1000)	m/s (Knots)	Air Speed	0.0057 (0.011)	m/s (Knots)
			-915 (-3)	m (kft)	0 (0)	m (kft)	Altitude	0.98 (3.2)	m (ft)
			0 (0)	m (kft)	9144 (30)	m (kft)	Altitude	1.3 (4.0)	m (ft)
			9144 (30)	m (kft)	15240 (50)	m (kft)	Altitude	2.0 (6.5)	m (ft)
			15240 (50)	m (kft)	24384 (80)	m (kft)	Altitude	7.1 (23)	m (ft)
			24384 (80)	m (kft)	30480 (100)	m (kft)	Altitude	18 (56)	m (ft)
			12 (25)	m/s (Knots)	33 (65)	m/s (Knots)	Air Speed	0.35 (0.68)	m/s (Knots)
			33 (65)	m/s (Knots)	51 (100)	m/s (Knots)	Air Speed	0.14 (0.26)	m/s (Knots)
			51 (100)	m/s (Knots)	128 (250)	m/s (Knots)	Air Speed	0.088 (0.17)	m/s (Knots)
			128 (250)	m/s (Knots)	180 (350)	m/s (Knots)	Air Speed	0.037 (0.072)	m/s (Knots)
			180 (350)	m/s (Knots)	515 (1000)	m/s (Knots)	Air Speed	0.029 (0.055)	m/s (Knots)
			-915 (-3)	m (kft)	0 (0)	m (kft)	Altitude	1.4 (4.4)	m (ft)
			0 (0)	m (kft)	9144 (30)	m (kft)	Altitude	3.5 (11.2)	m (ft)
			9144 (30)	m (kft)	15240 (50)	m (kft)	Altitude	8.3 (27)	m (ft)
			15240 (50)	m (kft)	24384 (80)	m (kft)	Altitude	36 (116)	m (ft)
			24384 (80)	m (kft)	30480 (100)	m (kft)	Altitude	93 (303)	m (ft)
			24 (50)	m/s (Knots)	33 (65)	m/s (Knots)	Air Speed	3.1 (5.9)	m/s (Knots)
			33 (65)	m/s (Knots)	51 (100)	m/s (Knots)	Air Speed	2.0 (3.8)	m/s (Knots)

P21, total 41 pages

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



Certificate No. : L0150-200611

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

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
KD1006 Air data test system (on-site calibration included)	RUSKA 2465, RUSKA 7750i, YOKOGAWA MT210	Document No.: CP -PR-0360	51 (100)	m/s (Knots)	128 (250)	m/s (Knots)	Air Speed	0.39 (0.76)	m/s (Knots)
			128 (250)	m/s (Knots)	180 (350)	m/s (Knots)	Air Speed	0.15 (0.28)	m/s (Knots)
			180 (350)	m/s (Knots)	515 (1000)	m/s (Knots)	Air Speed	0.079 (0.16)	m/s (Knots)
KD1007 Differential pressure gauge (on-site calibration included)	RUSKA 7750i, YOKOGAWA MT210 DPI 104	Document No.: CP -PR-0360	0	Pa	230	kPa		0.0051 kPa + 7.9 E-05 of Rdg	
			0	kPa	690	kPa		0.090	kPa
			0	kPa	6.90	MPa		2.1	kPa
KD2001 Spinning rotor viscosity vacuum gauge	MKS SRG-2 MKS 390HA-0001	Document No.: CP -VA-0001	5.00 E-05	Pa	1.33 E-04	Pa		32	%
			>1.33 E-04	Pa	1.33 E-03	Pa		12	%
			>1.33 E-03	Pa	1.33 E-01	Pa		4.0	%
KD2002 Ionization vacuum gauge (on-site calibration included)	MKS SRG-2 MKS 390HA-0001	Document No.: CP -VA-0001	5.00 E-05	Pa	1.33 E-04	Pa		33	%
			>1.33 E-04	Pa	1.33 E-03	Pa		13	%
			>1.33 E-03	Pa	1.33 E-01	Pa		7.2	%
KD2003 Capacitance diaphragm vacuum gauge (on-site calibration included)	MKS 390HA-01000 MKS 390HA-00001	Document No.: CP -VA-0001 Document No.: CP -VA-0140	1.33 E-01	Pa	1.33 E+00	Pa		2.7	%
			>1.33 E+00	Pa	1.33 E+03	Pa		1.5	%
			>1.33 E+03	Pa	1.33 E+05	Pa		0.32	%

P22, total 41 pages

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Certificate No. : L0150-200611

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

calibration items	working standard	calibration method	measurand level or range				measurement conditions /independent variable	smallest uncertainty	
	brand /model	document name /no.	mini mum value	units	maxi mum value	units	explanation	value	units
KD2004 Compression vauum gauge (on-site calibration included)	MKS 390HA-01000 MKS 390HA-00001	Document No.: CP-VA -0001	1.33 E-01	Pa	1.33 E+00	Pa		3.5	%
			>1.33 E+00	Pa	1.33 E+03	Pa		1.9	%
KD2005 Thermocouple vacuum gauge (on-site calibration included)	MKS 390HA-01000 MKS 390HA-00001	Document No.: CP-VA -0001	1.33 E-01	Pa	1.33 E+00	Pa		5.0	%
			> 1.33 E+00	Pa	1.33 E+03	Pa		4.3	%
			> 1.33 E+03	Pa	1.33 E+05	Pa		3.6	%
KD2006 Pirani vacuum gauge Digital pressure gauge Mechanical Vacuum gauge (on-site calibration included)	MKS 390HA-01000 MKS 390HA-00001	Document No.: CP-VA -0001	1.33 E-01	Pa	1.33 E+00	Pa		3.5	%
			>1.33 E+00	Pa	1.33 E+03	Pa		1.9	%
			>1.33 E+03	Pa	1.33 E+05	Pa		0.34	%



Certificate No. : L0150-200611

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

Temperature/Humidity

calibration items	working standard	calibration method	measurand level or range				measurement conditions /independent variable	smallest uncertainty	
	brand /model	document name /no.	mini mum value	units	maxi mum value	units	explanation	value	units
KE1001 Liquid-in-glass Thermometer	HART 5626	Document No.: CP-TE-0010	-50	°C	250	°C	total immersion	0.10	°C
			-50	°C	250	°C	partial immersion	0.12	°C
KE1002 Platinum Resistance Thermometer	HART 5626 HART 5624	Document No.: CP-TE-0010	-70	°C	250	°C		0.022	°C
			> 250	°C	660	°C		0.038	°C
			>660	°C	962	°C		0.35	°C
KE1004 Thermocouple	HART 5626 HART 5624	Document No.: CP-TE-0010	-70	°C	600	°C	J Type	0.50	°C
			>600	°C	1000	°C	J Type	0.70	°C
			-70	°C	600	°C	K Type	0.50	°C
			>600	°C	1000	°C	K Type	0.70	°C
			-70	°C	400	°C	T Type	0.50	°C
			-70	°C	600	°C	E Type	0.50	°C
			>600	°C	1000	°C	E Type	0.70	°C
			-70	°C	600	°C	R Type	0.50	°C
			>600	°C	1000	°C	R Type	0.70	°C
			-70	°C	600	°C	S Type	0.50	°C
KE1005 Thermocouple Thermometer	HART 5626 HART 5624	CP-TE-0010	-70	°C	600	°C	J Type	0.50	°C
			>600	°C	1000	°C	J Type	0.70	°C
			-70	°C	600	°C	K Type	0.50	°C
			>600	°C	1000	°C	K Type	0.70	°C
			-70	°C	400	°C	T Type	0.50	°C
			-70	°C	600	°C	E Type	0.50	°C
			>600	°C	1000	°C	E Type	0.70	°C
			-70	°C	600	°C	R Type	0.50	°C
			>600	°C	1000	°C	R Type	0.70	°C
			-70	°C	600	°C	S Type	0.50	°C
KE1006 Temperature Indicator	EDC 522	CP-TE-0004	-70	°C	1000	°C	J TYPE	0.40	°C
			-70	°C	1000	°C	K TYPE	0.40	°C
			-70	°C	400	°C	T TYPE	0.40	°C
			-70	°C	1000	°C	E TYPE	0.40	°C
			0	°C	1000	°C	R TYPE	0.40	°C
			0	°C	1000	°C	S TYPE	0.40	°C
			-70	°C	800	°C	RTD	0.10	°C



Certificate No. : L0150-200611

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

calibration items	working standard	calibration method	measurand level or range				measurement conditions /independent variable	smallest uncertainty	
	brand /model	document name /no.	mini mum value	units	maxi mum value	units	explanation	value	units
KE1008 Thermocouples Simulator	EDC 522	Document No.: CP-TE-0004	-70	°C	1000	°C	J TYPE	0.40	°C
			-70	°C	1000	°C	K TYPE	0.40	°C
			-70	°C	400	°C	T TYPE	0.40	°C
			-70	°C	1000	°C	E TYPE	0.40	°C
			0	°C	1000	°C	R TYPE	0.40	°C
			0	°C	1000	°C	S TYPE	0.40	°C
			-70	°C	800	°C	RTD	0.10	°C
KE1009 Temperature Calibrator	1. Platinum Resistance Thermometer /HART 5626 Temperature Indicator /HART 1594A 2. Platinum Resistance Thermometer /HART 5624 Temperature Indicator /HART 1529	Document No.: CP-TE-0010	-70	°C	600	°C		0.50	°C
			>600	°C	1000	°C		0.70	°C
KE1010 Temperature Chamber, Temperature Furnace, Oven, Dry Oven (on-site calibration)	FLUKE 753	Document No.: CP-TE-0005	-70	°C	1000	°C		1.2	°C



Certificate No. : L0150-200611

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

calibration items	working standard	calibration method	measurand level or range				measurement conditions /independent variable	smallest uncertainty	
	brand /model	document name /no.	mini mum value	units	maxi mum value	units	explanation	value	units
KE1011 Thermocouple Thermometer, Temperature Indicator (Temperature Chamber, Temperature Furnace, Oven, Dry Oven) (on-site calibration)	FLUKE 753	Document No.: CP-TE-0005	-70	°C	1000	°C	measurement	1.2	°C
			-70	°C	1000	°C	simulation	1.0	°C
KE2001 Hygrometer	THUNDER 2500ST	Document No.: CP-HU-0001	10	%RH	95	%RH		1.0	%RH
			10	°C	60	°C		0.2	°C
KE2003 Dew Point Hygrometer	RH SYSTEMS 373L	Document No.: CP-HU-0002	-60	°C	0	°C		0.45	°C
KE2004 Temperature & Humidity Recorder	THUNDER 2500ST	Document No.: CP-HU-0001	10	%RH	95	%RH		1.2	%RH
			10	°C	60	°C		0.7	°C



Certificate No. : L0150-200611

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

Electricity

calibration items	working standard	calibration method	measurand level or range				measurement conditions /independent variable	smallest uncertainty	
	brand /model	document name /no.	mini mum value	units	maxi mum value	units	explanation	value	units
KF1001 DCV Source DCV Meter	FLUKE 5700A	Document No.: CP-SD-0004, CP-SD-0001, CP-MT-0001	< 100	mV	< 100	mV		32	$\mu\text{V/V}$
			0.1	V	1.0	V		17	$\mu\text{V/V}$
			1.0	V	10	V		17	$\mu\text{V/V}$
			10	V	100	V		21	$\mu\text{V/V}$
			100	V	1000	V		23	$\mu\text{V/V}$
			1	mV	1	mV		1.1	mV/V
			10	mV	10	mV		0.13	mV/V
			100	mV	100	mV		13	mV/V
			1	V	1	V		9.0	$\mu\text{V/V}$
			10	V	10	V		9.0	$\mu\text{V/V}$
			100	V	100	V		11	$\mu\text{V/V}$
			1000	V	1000	V		12	$\mu\text{V/V}$
KF1001 DCV Source	DATRON 4910, DATRON 1281	Document No.: CP-SD-V001	0.1	V	0.1	V		11	$\mu\text{V/V}$
			1.0	V	1.0	V		1.3	$\mu\text{V/V}$
			1.018	V	1.018	V		1.3	$\mu\text{V/V}$
			10	V	10	V		1.2	$\mu\text{V/V}$
			100	V	100	V		4.5	$\mu\text{V/V}$
			1000	V	1000	V		7.8	$\mu\text{V/V}$
KF1002 DC Current Source DC Current Meter	FLUKE 5700A	Document No.: CP-SD-0004	< 100	μA	< 100	μA		94	$\mu\text{A/A}$
			0.1	mA	1.0	mA		79	$\mu\text{A/A}$
			1.0	mA	10	mA		54	$\mu\text{A/A}$
			10	mA	100	mA		67	$\mu\text{A/A}$
			100	mA	1000	mA		96	$\mu\text{A/A}$
KF1002 DC Current Source DC Current Meter	FLUKE 5700A, DATRON 1281	Document No.: CP-SD-0001, CP-MT-0001	100	μA	100	μA		71	$\mu\text{A/A}$
			1	mA	1	mA		45	$\mu\text{A/A}$
			10	mA	10	mA		46	$\mu\text{A/A}$
			100	mA	100	mA		61	$\mu\text{A/A}$
			1	A	1	A		68	$\mu\text{A/A}$



Certificate No. : L0150-200611

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

calibration items	working standard	calibration method	measurand level or range				measurement conditions /independent variable	smallest uncertainty	
	brand /model	document name /no.	mini mum value	units	maxi mum value	units	explanation	value	units
KF1011 AC/DC Thermal Transfer Standard	FLUKE 792A	Document No.: CP-SD-0002	600	mV	600	mV	@(40 Hz)	0.038	mV/V
			600	mV	600	mV	@(100 Hz)	0.030	mV/V
			600	mV	600	mV	@(1 kHz)	0.033	mV/V
			600	mV	600	mV	@(10 kHz)	0.032	mV/V
			600	mV	600	mV	@(100 kHz)	0.080	mV/V
			600	mV	600	mV	@(300 kHz)	0.018	mV/V
			600	mV	600	mV	@(1 MHz)	0.65	mV/V
			1	V	1	V	@(40 Hz)	0.037	mV/V
			1	V	1	V	@(100 Hz)	0.019	mV/V
			1	V	1	V	@(1 kHz)	0.020	mV/V
			1	V	1	V	@(10 kHz)	0.020	mV/V
			1	V	1	V	@(100 kHz)	0.070	mV/V
			1	V	1	V	@(300 kHz)	0.16	mV/V
			1	V	1	V	@(1 MHz)	0.53	mV/V
			10	V	10	V	@(40 Hz)	0.037	mV/V
			10	V	10	V	@(100 Hz)	0.025	mV/V
			10	V	10	V	@(1 kHz)	0.025	mV/V
			10	V	10	V	@(10 kHz)	0.024	mV/V
			10	V	10	V	@(100 kHz)	0.070	mV/V
			10	V	10	V	@(300 kHz)	0.16	mV/V
			10	V	10	V	@(1 MHz)	0.57	mV/V
			100	V	100	V	@(40 Hz)	0.043	mV/V
			100	V	100	V	@(100 Hz)	0.040	mV/V
			100	V	100	V	@(1 kHz)	0.038	mV/V
			100	V	100	V	@(10 kHz)	0.038	mV/V
			100	V	100	V	@(100 kHz)	0.092	mV/V
			200	V	200	V	@(40 Hz)	0.038	mV/V
			200	V	200	V	@(100 Hz)	0.036	mV/V
			200	V	200	V	@(1 kHz)	0.034	mV/V
			200	V	200	V	@(10 kHz)	0.034	mV/V
			200	V	200	V	@(100 kHz)	0.096	mV/V
			1000	V	1000	V	@(40 Hz)	0.077	mV/V
			1000	V	1000	V	@(100 Hz)	0.076	mV/V
			1000	V	1000	V	@(1 kHz)	0.077	mV/V
			1000	V	1000	V	@(10 kHz)	0.078	mV/V



Certificate No. : L0150-200611

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

calibration items	working standard	calibration method	measurand level or range				measurement conditions /independent variable	smallest uncertainty	
	brand /model	document name /no.	mini mum value	units	maxi mum value	units	explanation	value	units
KF1011 ACV Source ACV Meter	FLUKE 5700A, DATRON 1281 && FLUKE 5700A	Document No.: CP-SD-0001, CP-MT-0001, CP-SD-0004	0.1	V	0.1	V	@(1 kHz)	0.25	mV/V
			1.0	V	1.0	V	@(1 kHz)	0.092	mV/V
			10	V	10	V	@(1 kHz)	0.092	mV/V
			100	V	100	V	@(1 kHz)	0.12	mV/V
			1000	V	1000	V	@(1 kHz)	0.13	mV/V
			0.1	V	0.1	V	@(60 Hz)	0.25	mV/V
			1.0	V	1.0	V	@(60 Hz)	0.092	mV/V
			10	V	10	V	@(60 Hz)	0.092	mV/V
			100	V	100	V	@(60 Hz)	0.12	mV/V
			1000	V	1000	V	@(60 Hz)	0.13	mV/V
			< 100	mV	< 100	mV	@(1 kHz)	0.26	mV/V
			0.1	V	1.0	V	@(1 kHz)	0.26	mV/V
			1.0	V	10	V	@(1 kHz)	0.11	mV/V
			10	V	100	V	@(1 kHz)	0.13	mV/V
			100	V	1000	V	@(1 kHz)	0.15	mV/V
KF1012 AC Current Source AC Current Meter	FLUKE 5700A, DATRON -1281 & FLUKE 5700A	Document No.: CP-SD-0001, CP-MT-0001 & Document No.: CP-SD-0004	100	μA	100	μA	@(1 kHz)	0.45	mA/A
			1	mA	1	mA	@(1 kHz)	0.20	mA/A
			10	mA	10	mA	@(1 kHz)	0.20	mA/A
			100	mA	100	mA	@(1 kHz)	0.22	mA/A
			1	A	1	A	@(1 kHz)	0.88	mA/A
			100	μA	100	μA	@(60 Hz)	0.45	mA/A
			1	mA	1	mA	@(60 Hz)	0.20	mA/A
			10	mA	10	mA	@(60 Hz)	0.20	mA/A
			100	mA	100	mA	@(60 Hz)	0.22	mA/A
			1	A	1	A	@(60 Hz)	0.88	mA/A
			< 100	μA	< 100	μA	@ACA at (1 kHz)	0.56	mA/A
			0.1	mA	1.0	mA	@ACA at (1 kHz)	0.47	mA/A
			1.0	mA	10	mA	@ACA at (1 kHz)	0.23	mA/A
			10	mA	100	mA	@ACA at (1 kHz)	0.25	mA/A
			100	mA	1000	mA	@ACA at (1 kHz)	0.92	mA/A



Certificate No. : L0150-200611

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

calibration items	working standard	calibration method	measurand level or range				measurement conditions /independent variable	smallest uncertainty	
	brand /model	document name /no.	mini mum value	units	maxi mum value	units	explanation	value	units
KF3001 Resistor	FLUKE -5700A	Document No.: CP-SD-0004	1	Ω	10	Ω		0.15	m Ω / Ω
			10	Ω	100	Ω		46	$\mu\Omega$ / Ω
			100	Ω	1	k Ω		50	$\mu\Omega$ / Ω
			1	k Ω	10	k Ω		45	$\mu\Omega$ / Ω
			10	k Ω	100	k Ω		49	$\mu\Omega$ / Ω
			100	k Ω	1	M Ω		34	$\mu\Omega$ / Ω
			1	M Ω	10	M Ω		0.28	m Ω / Ω
KF3001 Resistor	ESI SR104, L&N4210B	Document No.: CP-SD-R001	0.001	Ω	0.001	Ω		68	$\mu\Omega$ / Ω
			0.01	Ω	0.01	Ω		50	$\mu\Omega$ / Ω
			0.1	Ω	0.1	Ω		38	$\mu\Omega$ / Ω
			1	Ω	1	Ω		2.4	$\mu\Omega$ / Ω
			10	Ω	10	Ω		6.4	$\mu\Omega$ / Ω
			100	Ω	100	Ω		8.8	$\mu\Omega$ / Ω
			1	k Ω	1	k Ω		6.0	$\mu\Omega$ / Ω
			10	k Ω	10	k Ω		1.2	$\mu\Omega$ / Ω
			100	k Ω	100	k Ω		12	$\mu\Omega$ / Ω
KF3001 Ohmmeter Multimeter	FLUKE -5700A DATRON -1281	Document No.: CP-SD-0001 Document No.: CP-MT-0001	1	Ω	1	Ω		0.13	m Ω / Ω
			10	Ω	10	Ω		41	$\mu\Omega$ / Ω
			100	Ω	100	Ω		27	$\mu\Omega$ / Ω
			1	k Ω	1	k Ω		20	$\mu\Omega$ / Ω
			10	k Ω	10	k Ω		18	$\mu\Omega$ / Ω
			100	k Ω	100	k Ω		30	$\mu\Omega$ / Ω
			1	M Ω	1	M Ω		31	$\mu\Omega$ / Ω
KF3002 Inductor Inductance Meter /Bridge	Quad Tech1482-B 1482-E 1482-H 1482-L 1482-P 1482-T	Document No.: CP-SD-L001	100	μ H	100	μ H	@(100 Hz)	3.0	mH/H
			1	mH	1	mH	@(100 Hz)	0.60	mH/H
			10	mH	10	mH	@(100 Hz)	0.60	mH/H
			100	mH	100	mH	@(100 Hz)	0.60	mH/H
			1	H	1	H	@(100 Hz)	0.60	mH/H
			10	H	10	H	@(100 Hz)	0.60	mH/H
			100	μ H	100	μ H	@(1 kHz)	3.0	mH/H
			1	mH	1	mH	@(1 kHz)	0.60	mH/H
			10	mH	10	mH	@(1 kHz)	0.60	mH/H
			100	mH	100	mH	@(1 kHz)	0.60	mH/H
			1	H	1	H	@(1 kHz)	2.0	mH/H
			10	H	10	H	@(1 kHz)	5.0	mH/H

P30, total 41 pages



Certificate No. : L0150-200611

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

calibration items	working standard	calibration method	measurand level or range				measurement conditions /independent variable	smallest uncertainty	
	brand /model	document name /no.	mini mum value	units	maxi mum value	units	explanation	value	units
KF3003 Capacitor Capacitor Meter /Bridge	H-1100 ESI-SC1000 GR-1409-L GR-1409-T GR-1409-Y	Document No.: CP-SD -C001	1	pF	1	pF	@(1 kHz)	7.0	μF/F
			10	pF	10	pF	@(1 kHz)	6.0	μF/F
			100	pF	100	pF	@(1 kHz)	6.0	μF/F
			1000	pF	1000	pF	@(1 kHz)	13	μF/F
			0.01	μF	0.01	μF	@(1 kHz)	0.15	mF/F
			0.1	μF	0.1	μF	@(1 kHz)	0.15	mF/F
			1	μF	1	μF	@(1 kHz)	0.15	mF/F
KF4001 1. Oscilloscope Calibrator 2. Digital Oscilloscope	1. HP-5335A DATRON 1281 2. FLUKE 9500B	1. Document No.: CP-SD -0005 2. Document No.: CP-SD -0006	1	Hz	1	Hz	1. Oscilloscope Calibrator -Frequency	7.1	E-5
			10	Hz	10	Hz	1. Oscilloscope Calibrator -Frequency	7.1	E-5
			100	Hz	100	Hz	1. Oscilloscope Calibrator -Frequency	7.1	E-5
			1	kHz	1	kHz	1. Oscilloscope Calibrator -Frequency	7.1	E-5
			10	kHz	10	kHz	1. Oscilloscope Calibrator -Frequency	7.1	E-5
			100	kHz	100	kHz	1. Oscilloscope Calibrator -Frequency	7.1	E-5
			1	MHz	1	MHz	1. Oscilloscope Calibrator -Frequency	7.1	E-5
			10	MHz	10	MHz	1. Oscilloscope Calibrator -Frequency	7.1	E-5
			100	MHz	100	MHz	1. Oscilloscope Calibrator -Frequency	0.26	E-6
			1	GHz	1	GHz	1. Oscilloscope Calibrator -Frequency	0.26	E-6



Certificate No. : L0150-200611

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

calibration items	working standard	calibration method	measurand level or range				measurement conditions /independent variable	smallest uncertainty	
	brand /model	document name /no.	mini mum value	units	maxi mum value	units	explanation	value	units
KF4001 1. Oscilloscope Calibrator 2. Digital Oscilloscope	1. HP-5335A DATRON 1281 2. FLUKE 9500B	1. Document No.: CP-SD -0005 2. Document No.: CP-SD -0006	100	mV	100	mV	1. Oscilloscope Calibrator-vibration amplitude (Vpk-pk): Impedance 50 Ω (@1 kHz)	2.0	mV/V
			200	mV	200	mV	1. Oscilloscope Calibrator -vibration amplitude (Vpk-pk): Impedance 50 Ω (@1 kHz)	2.0	mV/V
			500	mV	500	mV	1. Oscilloscope Calibrator -vibration amplitude (Vpk-pk): Impedance 50 Ω (@1kHz)	2.0	mV/V
			1	V	1	V	1. Oscilloscope Calibrator -vibration amplitude (Vpk-pk): Impedance 50 Ω (@1 kHz)	2.0	mV/V
			2	V	2	V	1. Oscilloscope Calibrator -vibration amplitude (Vpk-pk): Impedance 50 Ω (@1 kHz)	2.0	mV/V
			5	V	5	V	1. Oscilloscope Calibrator -vibration amplitude (Vpk-pk): Impedance 50 Ω (@1 kHz)	2.0	mV/V



Certificate No. : L0150-200611

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

calibration items	working standard	calibration method	measurand level or range				measurement conditions /independent variable	smallest uncertainty	
	brand /model	document name /no.	mini mum value	units	maxi mum value	units	explanation	value	units
KF4001 1. Oscilloscope Calibrator 2. Digital Oscilloscope	1. HP-5335A DATRON 1281 2. FLUKE 9500B	1. Document No.: CP-SD -0005 2. Document No.: CP-SD -0006	100	mV	100	mV	1. Oscilloscope Calibrator -vibration amplitude (Vpk-pk): Impedance 1 MΩ(@1 kHz)	2.0	mV/V
			200	mV	200	mV	1. Oscilloscope Calibrator -vibration amplitude (Vpk-pk): Impedance 1 MΩ(@1 kHz)	2.0	mV/V
			500	mV	500	mV	1. Oscilloscope Calibrator -vibration amplitude (Vpk-pk): Impedance 1 MΩ(@1 kHz)	2.0	mV/V
			1	V	1	V	1. Oscilloscope Calibrator -vibration amplitude (Vpk-pk): Impedance 1 MΩ(@1 kHz)	2.0	mV/V
			2	V	2	V	1. Oscilloscope Calibrator -vibration amplitude (Vpk-pk): Impedance 1 MΩ(@1 kHz)	2.0	mV/V
			5	V	5	V	1. Oscilloscope Calibrator -vibration amplitude (Vpk-pk): Impedance 1 MΩ(@1 kHz)	2.0	mV/V

P33, total 41 pages



Certificate No. : L0150-200611

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

calibration items	working standard	calibration method	measurand level or range				measurement conditions /independent variable	smallest uncertainty	
	brand /model	document name /no.	mini mum value	units	maxi mum value	units	explanation	value	units
KF4001 1. Oscilloscope Calibrator 2. Digital Oscilloscope	1. HP-5335A DATRON 1281 2. FLUKE 9500B	1. Document No.: CP-SD -0005 2. Document No.: CP-SD -0006	10	V	10	V	1. Oscilloscope Calibrator-vibration amplitude (Vpk-pk): Impedance 1 MΩ(@ 1kHz)	2.0	mV/V
			20	V	20	V	1. Oscilloscope Calibrator -vibration amplitude (Vpk-pk): Impedance 1 MΩ(@1 kHz)	2.0	mV/V
			50	V	50	V	1. Oscilloscope Calibrator -vibration amplitude (Vpk-pk): Impedance 1 MΩ(@1 kHz)	2.0	mV/V
			100	V	100	V	1. Oscilloscope Calibrator -vibration amplitude (Vpk-pk): Impedance 1 MΩ(@1 kHz)	2.0	mV/V
			1	Hz	1	GHz	2. Digital Oscilloscope -Frequency	0.70	E-3
			100	mV	100	V	2. Digital Oscilloscope -vibration amplitude (Vpk-pk)	17	mV/V



Certificate No. : L0150-200611

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

Electromagnetics

calibration items	working standard	calibration method	measurand level or range				measurement conditions /independent variable	smallest uncertainty	
	brand /model	document name /no.	mini mum value	units	maxi mum value	units	explanation	value	units
KG1002 Attenuator, Terminator, Open, Short, Mismatch, Microwave Testing Cable, Microwave Device, Vector Network Analyzer	HP 8510C	Document No.: CP-SD-1702	0		1		1.reflection coefficient: 3.5 mm Type @45 MHz to 2 GHz	0.0062 (1.2°)	
			0		1		1.reflection coefficient: N Type @45 MHz to 2 GHz	0.0062 (0.93°)	
			0		1		1.reflection coefficient: 7 mm Type @45 MHz to 2 GHz	0.013 (1.7°)	
			0		1		1.reflection coefficient: 3.5 mm Type @> 2 GHz to 8 GHz	0.0085 (3.3°)	
			0		1		1.reflection coefficient: N Type @> 2 GHz to 8 GHz	0.011 (3.2°)	
			0		1		1.reflection coefficient: 7 mm Type @> 2 GHz to 8 GHz	0.013 (3.5°)	
			0		1		1.reflection coefficient: 3.5 mm Type @> 8 GHz to 20 GHz	0.0086 (5.8°)	
			0		1		1.reflection coefficient: N Type @> 8 GHz to 18 GHz	0.011 (5.6°)	



Certificate No. : L0150-200611

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

calibration items	working standard	calibration method	measurand level or range				measurement conditions /independent variable	smallest uncertainty	
	brand /model	document name /no.	mini mum value	units	maxi mum value	units	explanation	value	units
KG1002 Attenuator, Terminator, Open, Short, Mismatch, Microwave Testing Cable, Microwave Device, Vector Network Analyzer	HP 8510C	Document No.: CP-SD-1702	0		1		1.reflection coefficient: 7 mm Type @> 8 GHz to 18 GHz	0.013 (6.0°)	
			0		1		1.reflection coefficient: 3.5 mm Type @> 20 GHz to 26.5 GHz	0.0087 (7.1°)	
			10	dB	-60	dB	2.transmission coefficient: 3.5 mm Type @45 MHz to 2 GHz	0.054 (0.21°)	dB
			10	dB	-60	dB	2.transmission coefficient: N Type @45 MHz to 2 GHz	0.051 (0.21°)	dB
			10	dB	-60	dB	2.transmission coefficient: 7 mm Type @45 MHz to 2 GHz	0.059 (0.25°)	dB
			10	dB	-60	dB	2.transmission coefficient: 3.5 mm Type @> 2 GHz to 8 GHz	0.064 (1.8°)	dB
			10	dB	-60	dB	2.transmission coefficient: N Type @> 2 GHz to 8 GHz	0.061 (1.8°)	dB
			10	dB	-60	dB	2.transmission coefficient: 7 mm Type @> 2 GHz to 8 GHz	0.061 (1.8°)	dB
			10	dB	-60	dB	2.transmission coefficient: 7 mm Type @> 2 GHz to 8 GHz	0.061 (1.8°)	dB



Certificate No. : L0150-200611

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

calibration items	working standard	calibration method	measurand level or range				measurement conditions /independent variable	smallest uncertainty	
	brand /model	document name /no.	mini mum value	units	maxi mum value	units	explanation	value	units
KG1002 Attenuator, Terminator, Open, Short, Mismatch, Microwave Testing Cable, Microwave Device, Vector Network Analyzer	HP 8510C	Document No.: CP-SD-1702	10	dB	-60	dB	2.transmission coefficient: 3.5 mm Type @> 8 GHz to 20 GHz	0.094 (4.3°)	dB
			10	dB	-60	dB	2.transmission coefficient: N Type @> 8 GHz to 18 GHz	0.092 (4.0°)	dB
			10	dB	-60	dB	2.transmission coefficient: 7 mm Type @> 8 GHz to 18 GHz	0.085 (3.9°)	dB
			10	dB	-60	dB	2.transmission coefficient: 3.5 mm Type @> 20 GHz to 26.5 GHz	0.11 (5.7°)	dB



Certificate No. : L0150-200611

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

Flow

calibration items	working standard	calibration method	measurand level or range				measurement conditions /independent variable	smallest uncertainty	
	brand /model	document name /no.	mini mum value	units	maxi mum value	units	explanation	value	units
KH1001 Thermal mass flowmeters, Rotameters, Turbine flowmeter, Laminar flowmeters, sonic nozzle flowmeter	Brooks Bell Prover 1092A	Document No.: CP-FL-0004	3.6	dm ³ /min	300	dm ³ /min		0.41	%
KH1002 Turbine flowmeter, Rotameters, Difference pressure Flowmeters, orifice-plate flowmeter, Electromag netic flowmeter, Coriolis mass flowmeter (on-site calibration included)	EG&G OT4002T1S	Document No.: CP-FL-0002, CP-FL-0006	1.52 (0.4)	L/min (GPM)	946 (250)	L/min (GPM)	CP-FL-0002	0.19	%
			1.52 (0.4)	L/min (GPM)	189 (50)	L/min (GPM)	CP-FL-0002 (on-site)	1.0	%



Certificate No. : L0150-200611

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

calibration items	working standard	calibration method	measurand level or range				measurement conditions /independent variable	smallest uncertainty	
	brand /model	document name /no.	mini mum value	units	maxi mum value	units	explanation	value	units
KH1003 Turbine flowmeter, Rotameters, Difference pressure Flowmeters, orifice-plate flowmeter, Electromag netic flowmeter, Coriolis mass flowmeter (on-site calibration included)	EG&G MT501T1A	Document No.: CP-FL-0001, CP-FL-0006	0.189 (0.05)	L/min (GPM)	189 (50)	L/min (GPM)	CP-FL-0001	0.15	%
			1.52 (0.4)	L/min (GPM)	189 (50)	L/min (GPM)	CP-FL-0006 (on-site)	1.0	%

Chemical

calibration items	working standard	calibration method	measurand level or range				measurement conditions /independent variable	smallest uncertainty	
	brand /model	document name /no.	mini mum value	units	maxi mum value	units	explanation	value	units
KI9004 cylinder	Mettler XPE505C Mettler XP26003L Sartorius LA3200	Document No.: CP-VO-0003	1	mL	10	mL		0.04	mL
			10	mL	25	mL		0.09	mL
			25	mL	50	mL		0.14	mL
			50	mL	100	mL		0.16	mL
			100	mL	250	mL		0.3	mL
			250	mL	500	mL		0.8	mL
			500	mL	1000	mL		1.6	mL
			1	L	2	L		3.0	mL



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Time And Frequency

calibration items	working standard	calibration method	measurand level or range				measurement conditions /independent variable	smallest uncertainty	
	brand /model	document name /no.	mini mum value	units	maxi mum value	units	explanation	value	units
KJ0100 Timer	HP5071A	Document No.: CP-TM-0001	1	s	900	s		5.0 E-02	s
KJ0200 Frequency counter	HP5071A	Document No.: CP-FN-F002	1	Hz	10	MHz		7.0 E-05	
			10	MHz	20	GHz		3.0 E-10	
KJ0200 Signal generator	HP5071A	Document No.: CP-SG-0001	1	Hz	10	MHz		7.0 E-05	
			10	MHz	20	GHz		3.0 E-10	
KJ0200 Frequency Standard, Frequency Standard etc.	HP5071A	Document No.: CP-FN-0035	1	MHz	1	MHz		8.2 E-11	
			5	MHz	5	MHz		8.2 E-11	
			10	MHz	10	MHz		8.2 E-11	
KJ0300 Optical tachometer	HP-33120	Document No.: CP-TA-0002	60	rpm	600	rpm		0.01	rpm
			600	rpm	6000	rpm		0.1	rpm
			6000	rpm	60000	rpm		1	rpm
			60000	rpm	210000	rpm		2	rpm
KJ0300 Tachometer	TICO 8730	Document No.: CP-TA-0001	20	rpm	15000	rpm		2	rpm

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



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Approval Signatory

Approval Signatory	Scope
WANG, Chun-Kai	KC1001, KC1002, KC1004, KC2001, KC2002, KC2005, KC3001, KC4001, KC4002, KC4003, KC4004, KC4005, KC5099, KE1001, KE1002, KE1004, KE1005, KE1006, KE1008, KE1009, KE1010, KE1011, KI9004
LEE, Kuo-Chi	KA1001, KA1003, KA1009, KA1019, KA2003, KA2004, KA2005, KA2007, KA2008, KA2010, KA2012, KA3001, KA3002, KA3003, KA3004, KA3005, KA3008, KA3010, KA3013, KA3015, KA3016, KA3019, KA4002, KA4003, KB1001, KB1002, KB2004, KC1001, KC1002, KC1004, KC2001, KC2002, KC2005, KC3001, KC4001, KC4002, KC4003, KC4004, KC4005, KC5099, KD1001, KD1002, KD1003, KD1004, KD1005, KD1006, KD1007, KD2001, KD2002, KD2003, KD2004, KD2005, KD2006, KE1001, KE1002, KE1004, KE1005, KE1006, KE1008, KE1009, KE1010, KE1011, KE2001, KE2003, KE2004, KF1001, KF1002, KF1011, KF1012, KF3001, KF3002, KF3003, KF4001, KG1002, KH1001, KH1002, KH1003, KI9004, KJ0100, KJ0200, KJ0300
LEE, Yuh-Tay	KJ0100, KJ0200, KJ0300
HU, Jia-Wei	KF4001, KG1002, KJ0100, KJ0200, KJ0300
CHUANG, Chao-Chang	KC1001, KC1002, KC1004, KC2001, KC2002, KC2005, KC3001, KC5099, KE2001, KE2003, KE2004, KH1001, KH1002, KH1003
YU, Chi-Yu	KF1001, KF1002, KF1011, KF1012, KF3001, KF3002, KF3003, KF4001
HUANG, Chao-Yu	KB1001, KB1002, KB2004, KC1001, KC1002, KC1004, KC3001, KC5099, KD1001, KD1002, KD1003, KD1004, KD1005, KD1006, KD1007, KD2001, KD2002, KD2003, KD2004, KD2005, KD2006, KI9004
YANG, Chih-Ying	KF1001, KF1002, KF1011, KF1012, KF3001, KF3002, KF3003, KF4001, KG1002, KJ0100, KJ0200, KJ0300
YEH, Dong-Ming	KF1001, KF1002, KF1011, KF1012, KF3001, KF3002, KF3003, KF4001, KG1002, KJ0100, KJ0200, KJ0300
TSAI, Yuan-Hsing	KA1001, KA1003, KA1009, KA1019, KA2003, KA2004, KA2005, KA2007, KA2008, KA2010, KA2012, KA4002
LO, Yun-Shao	KA3001, KA3002, KA3003, KA3004, KA3005, KA3008, KA3010, KA3013, KA3015, KA3016, KA3019, KA4003, KC4001, KC4002, KC4003, KC4004, KC4005, KH1001, KH1002, KH1003

(Null Below)