



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

Certificate of Accreditation

(Certificate No: L0133-260601)

This is to certify that

Tektronix Taiwan, Ltd.
Calibration Laboratory

3F, No. 89, Sec. 2, Ti Ding Avenue, Taipei City 11493, Taiwan (R.O.C.)

is accredited in respect of laboratory

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

Accreditation Number : 0133

Originally Accredited : January 01, 1994

Effective Period : June 01, 2026 to May 31, 2029

Accredited Scope : Calibration Field, see described in the Appendix



Scan to verify

Yi-Ling Chen

Yi-Ling Chen
President, Taiwan Accreditation Foundation
June 01, 2026

Accreditation Number : 0133

Laboratory Head : HSIEH, Yu-Hsuan

Electricity

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
KF1001 DC volt source /meter	Multimeter /Fluke/8508A	In-house method: Calibrator MET/CAL calibration procedure (Document No.: TTL-0017)	1	mV	1	mV		0.14	mV/V
			10	mV	10	mV		0.020	mV/V
			19	mV	19	mV		14	μV/V
			30	mV	30	mV		12	μV/V
			100	mV	100	mV		8.1	μV/V
			190	mV	190	mV		7.8	μV/V
			0.3	V	0.3	V		5.9	μV/V
			1	V	1	V		4.6	μV/V
			2	V	2	V		4.4	μV/V
			3	V	3	V		5.8	μV/V
			10	V	10	V		4.6	μV/V
			19	V	19	V		4.4	μV/V
			30	V	30	V		8.1	μV/V
			100	V	100	V		6.9	μV/V
			190	V	190	V		6.7	μV/V
			300	V	300	V		8.6	μV/V
			500	V	500	V		7.7	μV/V
			1000	V	1000	V		7.1	μV/V
			1	mV	<20	mV		0.14	mV/V
			20	mV	<200	mV		13	μV/V
			200	mV	<2	V		6.4	μV/V
			2	V	<20	V		6.7	μV/V
			20	V	<200	V		9.2	μV/V
			200	V	1000	V		8.7	μV/V

Approval Signatory: SHAO, Feng-Chuan; HSIEH, Yu-Hsuan



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
KF1002 DC ampere source/meter	Multimeter /Fluke/8508A Resistance standard /Fluke/742A Precision current shunt /FLUKE/A40B	In-house method: Calibrator MET/CAL calibration procedure (Document No.: TTL-0017)	1	μA	1	μA		0.060	mA/A
			10	μA	10	μA		16	μA/A
			19	μA	19	μA		15	μA/A
			30	μA	30	μA		12	μA/A
			100	μA	100	μA		11	μA/A
			190	μA	190	μA		11	μA/A
			0.3	mA	0.3	mA		16	μA/A
			1	mA	1	mA		15	μA/A
			2	mA	2	mA		15	μA/A
			3	mA	3	mA		22	μA/A
			10	mA	10	mA		21	μA/A
			19	mA	19	mA		21	μA/A
			30	mA	30	mA		22	μA/A
			100	mA	100	mA		21	μA/A
			190	mA	190	mA		21	μA/A
			0.3	A	0.3	A		52	μA/A
			1	A	1	A		51	μA/A
			1.9	A	1.9	A		51	μA/A
			3	A	3	A		64	μA/A
			5	A	5	A		64	μA/A
			10	A	10	A		64	μA/A
			1	μA	<20	μA		61	μA/A
			20	μA	<200	μA		12	μA/A
			0.2	mA	<2	mA		16	μA/A
			2	mA	<20	mA		23	μA/A
			20	mA	<200	mA		23	μA/A
			0.2	A	<=2	A		52	μA/A
			>2	A	<=10	A		65	μA/A
Approval Signatory: SHAO, Feng-Chuan; HSIEH, Yu-Hsuan									



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
KF1011 AC volt source /meter	AC Measurement Standard /Fluke/5790A	In-house method: Calibrator METCAL calibration procedure (Document No.: TTL-0017)	100	mV	100	mV	@ 40 Hz	69	μV/V
			100	mV	100	mV	@ 50 Hz	0.070	mV/V
			100	mV	100	mV	@ 60 Hz	0.070	mV/V
			100	mV	100	mV	@ 500 Hz	69	μV/V
			100	mV	100	mV	@ 1 kHz	0.070	mV/V
			100	mV	100	mV	@ 5 kHz	0.070	mV/V
			100	mV	100	mV	@ 10 kHz	69	μV/V
			100	mV	100	mV	@ 20 kHz	0.070	mV/V
			100	mV	100	mV	@ 50 kHz	0.11	mV/V
			100	mV	100	mV	@ 100 kHz	0.22	mV/V
			100	mV	100	mV	@ 200 kHz	0.38	mV/V
			100	mV	100	mV	@ 300 kHz	0.38	mV/V
			100	mV	100	mV	@ 500 kHz	0.56	mV/V
			100	mV	100	mV	@ 1 MHz	1.5	mV/V
			1	V	1	V	@ 40 Hz	35	μV/V
			1	V	1	V	@ 50 Hz	35	μV/V
			1	V	1	V	@ 60 Hz	35	μV/V
			1	V	1	V	@ 500 Hz	35	μV/V
			1	V	1	V	@ 1 kHz	35	μV/V
			1	V	1	V	@ 5 kHz	35	μV/V
			1	V	1	V	@ 10 kHz	35	μV/V
			1	V	1	V	@ 20 kHz	35	μV/V
			1	V	1	V	@ 50 kHz	61	μV/V
			1	V	1	V	@ 100 kHz	89	μV/V
			1	V	1	V	@ 200 kHz	0.24	mV/V
			1	V	1	V	@ 300 kHz	0.24	mV/V
			1	V	1	V	@ 500 kHz	0.36	mV/V
			1	V	1	V	@ 1 MHz	1.4	mV/V
			10	V	10	V	@ 40 Hz	37	μV/V
			10	V	10	V	@ 50 Hz	37	μV/V
			10	V	10	V	@ 60 Hz	37	μV/V



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
KF1011 AC volt source /meter	AC Measurement Standard /Fluke/5790A	In-house method: Calibrator METCAL calibration procedure (Document No.: TTL-0017)	10	V	10	V	@ 500 Hz	37	$\mu\text{V/V}$
			10	V	10	V	@ 1 kHz	37	$\mu\text{V/V}$
			10	V	10	V	@ 5 kHz	37	$\mu\text{V/V}$
			10	V	10	V	@ 10 kHz	37	$\mu\text{V/V}$
			10	V	10	V	@ 20 kHz	37	$\mu\text{V/V}$
			10	V	10	V	@ 50 kHz	62	$\mu\text{V/V}$
			10	V	10	V	@ 100 kHz	99	$\mu\text{V/V}$
			10	V	10	V	@ 200 kHz	0.26	mV/V
			10	V	10	V	@ 300 kHz	0.26	mV/V
			10	V	10	V	@ 500 kHz	0.55	mV/V
			10	V	10	V	@ 1 MHz	1.8	mV/V
			100	V	100	V	@ 40 Hz	46	$\mu\text{V/V}$
			100	V	100	V	@ 50 Hz	46	$\mu\text{V/V}$
			100	V	100	V	@ 60 Hz	46	$\mu\text{V/V}$
			100	V	100	V	@ 500 Hz	46	$\mu\text{V/V}$
			100	V	100	V	@ 1 kHz	46	$\mu\text{V/V}$
			100	V	100	V	@ 5 kHz	46	$\mu\text{V/V}$
			100	V	100	V	@ 10 kHz	46	$\mu\text{V/V}$
			100	V	100	V	@ 20 kHz	46	$\mu\text{V/V}$
			100	V	100	V	@ 50 kHz	0.090	mV/V
			100	V	100	V	@ 100 Hz	0.14	mV/V
			1000	V	1000	V	@ 40 Hz	53	$\mu\text{V/V}$
			1000	V	1000	V	@ 50 Hz	53	$\mu\text{V/V}$
			1000	V	1000	V	@ 60 Hz	53	$\mu\text{V/V}$
			1000	V	1000	V	@ 500 Hz	53	$\mu\text{V/V}$
			1000	V	1000	V	@ 1 KHz	53	$\mu\text{V/V}$
			1000	V	1000	V	@ 5 KHz	53	$\mu\text{V/V}$
			1000	V	1000	V	@ 10 KHz	53	$\mu\text{V/V}$
			1000	V	1000	V	@ 20 KHz	53	$\mu\text{V/V}$
			2	mV	<22	mV	@ 40 Hz to 20 kHz	1.5	mV/V
			2	mV	<22	mV	@ 20 kHz to 50 kHz	2.2	mV/V



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
KF1011 AC volt source /meter	AC Measurement Standard /Fluke/5790A	In-house method: Calibrator METCAL calibration procedure (Document No.: TTL-0017)	2	mV	<22	mV	@ 50 kHz to 100 kHz	0.0030	V/V
			2	mV	<22	mV	@ 100 kHz to 300 kHz	5.1	mV/V
			2	mV	<22	mV	@ 300 kHz to 500 kHz	7.7	mV/V
			2	mV	<22	mV	@ 500 kHz to 1 MHz	11	mV/V
			22	mV	<220	mV	@ 40 Hz to 20 kHz	0.12	mV/V
			22	mV	<220	mV	@ 20 kHz to 50 kHz	0.20	mV/V
			22	mV	<220	mV	@ 550 kHz to 100 kHz	0.36	mV/V
			22	mV	<220	mV	@ 100 kHz to 300 kHz	0.70	mV/V
			22	mV	<220	mV	@ 300 kHz to 500 kHz	0.95	mV/V
			22	mV	<220	mV	@ 500 kHz to 1 MHz	1.9	mV/V
			0.22	V	<2.2	V	@ 40 Hz to 20 kHz	73	μV/V
			0.22	V	<2.2	V	@ 20 kHz to 50 kHz	94	μV/V
			0.22	V	<2.2	V	@ 50 kHz to 100 kHz	0.15	mV/V
			0.22	V	<2.2	V	@ 100 kHz to 300 kHz	0.29	mV/V
			0.22	V	<2.2	V	@ 300 kHz to 500 kHz	0.55	mV/V
			0.22	V	<2.2	V	@ 500 kHz to 1 MHz	2.5	mV/V
			2.2	V	<22	V	@ 40 Hz to 20 kHz	72	μV/V
			2.2	V	<22	V	@ 20 kHz to 50 kHz	68	μV/V
			2.2	V	<22	V	@ 50 kHz to 100 kHz	0.11	mV/V
			2.2	V	<22	V	@ 100 kHz to 300 kHz	0.26	mV/V
			2.2	V	<22	V	@ 300 kHz to 500 kHz	0.56	mV/V
			2.2	V	<22	V	@ 500 kHz to 1 MHz	1.8	mV/V
			22	V	<220	V	@ 40 Hz to 20 kHz	56	μV/V
			22	V	<220	V	@ 20 kHz to 50 kHz	95	μV/V
			22	V	<220	V	@ 50 kHz to 100 kHz	0.22	mV/V
			220	V	1000	V	@ 40 Hz to 20 kHz	62	μV/V
Approval Signatory: SHAO, Feng-Chuan; HSIEH, Yu-Hsuan									



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/Meter	AC Measurement Standard /Fluke/5790A Fluke current shunt /Fluke/A40B	In-house method: Calibrator MET/CAL calibration procedure (Document No.: TTL-0017)	10	μA	20	μA	@ 40 Hz to 10 kHz	0.65	mA/A
			>20	μA	200	μA	@ 40 Hz to 10 kHz	0.33	mA/A
			>0.2	mA	2	mA	@ 40 Hz to 10 kHz	0.21	mA/A
			>2	mA	20	mA	@ 40 Hz to 10 kHz	0.13	mA/A
			>20	mA	200	mA	@ 40 Hz to 10 kHz	0.12	mA/A
			>0.2	A	2	A	@ 40 Hz to 10 kHz	0.12	mA/A
			>2	A	10	A	@ 40 Hz to 10 kHz	0.19	mA/A
Approval Signatory: SHAO, Feng-Chuan; HSIEH, Yu-Hsuan									
KF3001 DC resistor source/meter	Multimeter /Fluke/8508A	In-house method: Calibrator MET/CAL calibration procedure (Document No.: TTL-0017)	1	Ω	1	Ω		25	μΩ/Ω
			1.9	Ω	1.9	Ω		24	μΩ/Ω
			10	Ω	10	Ω		13	μΩ/Ω
			19	Ω	19	Ω		13	μΩ/Ω
			100	Ω	100	Ω		11	μΩ/Ω
			190	Ω	190	Ω		9.8	μΩ/Ω
			1	kΩ	1	kΩ		11	μΩ/Ω
			1.9	kΩ	1.9	kΩ		9.7	μΩ/Ω
			10	kΩ	10	kΩ		11	μΩ/Ω
			19	kΩ	19	kΩ		9.8	μΩ/Ω
			100	kΩ	100	kΩ		11	μΩ/Ω
			190	kΩ	190	kΩ		9.8	μΩ/Ω
			1	MΩ	1	MΩ		13	μΩ/Ω
			1.9	MΩ	1.9	MΩ		12	μΩ/Ω
			10	MΩ	10	MΩ		37	μΩ/Ω
			19	MΩ	19	MΩ		31	μΩ/Ω
			100	MΩ	100	MΩ		0.26	mΩ/Ω
			1	GΩ	1	GΩ		2.4	mΩ/Ω
Approval Signatory: SHAO, Feng-Chuan; HSIEH, Yu-Hsuan									



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
KF4001 Digital oscilloscope (Digital Oscilloscope Bandwidth from DC to 3.2 GHz)	Oscilloscope calibrator /Fluke 9500B Active head /Fluke 9530	In-house method: Digital oscilloscope calibration procedure (Document No.: TTL-0016)	0	V	0	V	DC Volts-1 M Ω load, 50 Ω load	15	μ V
			1	mV	100	mV	DC Volts-1 M Ω load, 50 Ω load	0.05 % $\times$ Reading +26	μ V
			>100	mV	1.0	V	DC Volts-1 M Ω load, 50 Ω load	0.022 % $\times$ Reading +65	μ V
			>1.0	V	5.6	V	DC Volts- 1 M Ω load, 50 Ω load	0.026 % $\times$ Reading+50	μ V
			>5.6	V	222.4	V	DC Volts-1 M Ω load	0.03	%
			4.4	mV	5.6	V	Sinewave Flatness-50 Ω load, 50 kHz to 10 MHz Reference, V (p-p) , @ 1 Hz to 100 MHz	0.22	dB
			4.4	mV	5.6	V	Sinewave Flatness-50 Ω load, 50 kHz to 10 MHz Reference, V (p-p) , @ (>100 to 550) MHz	0.27	dB
			4.4	mV	3.4	V	Sinewave Flatness-50 Ω load, 50 kHz to 10 MHz Reference, V (p-p) , @ > 550 MHz to 1.1 GHz	0.37	dB
			4.4	mV	3.4	V	Sinewave Flatness- 50 Ω load, 50 kHz to 10 MHz Reference, V (p-p) , @ (>1.1 to 2.5) GHz	0.47	dB
			4.4	mV	2.2	V	Sinewave Flatness-50 Ω load, 50 kHz to 10 MHz Reference, V (p-p) , @ (>2.5 to 3.2) GHz	0.48	dB



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
KF4001 Digital oscilloscope (Digital Oscilloscope Bandwidth from DC to 3.2 GHz)	Oscilloscope calibrator /Fluke 9500B Active head /Fluke 9530	In-house method: Digital oscilloscope calibration procedure (Document No.: TTL-0016)	4.4	mV	5.6	V	AC Volts-50 Ω, sinewave, V (p-p) , @ 1 Hz to 550 MHz	0.033	V/V
			4.4	mV	3.4	V	AC Volts-50 Ω, sinewave, V (p-p) , @ >550 MHz to 2.5 GHz	0.063	V/V
			4.4	mV	2.2	V	AC Volts- 50 Ω, sinewave, V (p-p) , @ (>2.5 to 3.2) GHz	0.11	V/V
			50	Ω	50	Ω	Resistance Measure	0.066	Ω
			1	MΩ	1	MΩ	Resistance Measure	1.2	kΩ
			12	kHz	3.2	GHz	Frequency and Period	2.7 x 10 ⁻⁷	Hz/Hz
Approval Signatory: SHAO, Feng-Chuan; HSIEH, Yu-Hsuan									
KF4012 Arbitrary Function Generator	Frequency counter /HP /Agilent 53132A Digital multimeter /HP /Agilent 3458A Power meter & Power sensor /Rohde&Schwarz NRVS & NRV-Z 5/NPR & NRP-Z91 Digital phosphor oscilloscope /Tektronix DPO7254	In-house method: Arbitrary Function Generator calibration procedure (Document No.: TTL-0040)	0.02	V	0.2	V	Voltage (Amplitude) /1 kHz	0.11	%
			0.2	V	2.5	V	Voltage (Amplitude) /1 kHz	0.30	%
			2.5	V	10	V	Voltage (Amplitude) /1 kHz	0.30	%
			0.001	V	0.1	V	Voltage (DC Offset)	0.19	%
			0.1	V	1	V	Voltage (DC Offset)	0.14	%
			1	V	10	V	Voltage (DC Offset)	0.12	%
			1	Hz	240	MHz	Frequency	2.5x10 ⁻⁸	
			-20	dBm	10	dBm	Sine Flatness/ (0.1~240) MHz, Reference 100 kHz	0.2	dB
			10	dBm	20	dBm	Sine Flatness/ (0.1~100) MHz, Reference 100 kHz	0.2	dB



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
KF4012 Arbitrary Function Generator	Frequency counter /HP /Agilent 53132A Digital multimeter /HP /Agilent 3458A Power meter & Power sensor /Rohde&Schwarz NRVS & NRV-Z 5/NPR & NRP-Z91 Digital phosphor oscilloscope /Tektronix DPO7254	In-house method: Arbitrary Function Generator calibration procedure (Document No.: TTL-0040)	10	dBm	20	dBm	Sine Flatness/ (100~240) MHz, Reference 100 kHz	0.4	dB
			2.5	ns	2.5	ns	Rise Time	0.11	ns
			5	ns	5	ns	Rise Time	0.28	ns
			13	ns	13	ns	Rise Time	0.53	ns
Approval Signatory: SHAO, Feng-Chuan; HSIEH, Yu-Hsuan									



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
KF4016 Voltage probe Current probe	Oscilloscope calibrator/Active head /Fluke 9500B/9530 Probe Calibration System /Fluke 9100 Digital sampling oscilloscope/TDR sampling head /Tektronix TDS8200/80E04 Multifunction calibrator /Fluke 5700A Digital phosphor oscilloscope /Tektronix DPO7254	In-house method: Voltage probe calibration procedure (Document No.: TTL-0019) In-house method: Curent probe calibration procedure (Document No.: TTL-0021)	1	V	1000	V	DC attenuator accuracy (Voltage probe)	0.5	%
			5	mA	500	A	DC gain accuracy (Current probe)	0.5	%
			17.5	ps	7	ns	Rise time (Voltage probe)	1.5	%
			175	ps	7	μs	Rise time (Current probe)	1.0	%
			2.1	V	3	V	Frequency response (Voltage probe)	2.5	%
			2.1	V	3	V	Frequency response (Current probe)	2.1	%
Approval Signatory: SHAO, Feng-Chuan; HSIEH, Yu-Hsuan									



Time And Frequency

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
KJ0200 frequency standard	Rubidium frequency standard /Fluke/910R Universal counter /Agilent/HP53132A	In-house method: frequency standard calibration procedure (Document No.: TTL-0013)	10	MHz	10	MHz		3.9×10^{-9}	
Approval Signatory: SHAO, Feng-Chuan; HSIEH, Yu-Hsuan									

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

