



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

Certification Accreditation

(Certificate No : L1160-230130)

This is to certify that

Gong-Hung Technology Co., Ltd.

GCH Technology Calibration Laboratory (Electrical)

No.1, Ln. 36, Wenfeng St., Fengshan Dist., Kaohsiung City 830, Taiwan (R.O.C.)

is accredited in respect of laboratory

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

Accreditation Number : 1160

Originally Accredited : December 01, 2003

Effective Period : February 07, 2023 to February 06, 2026

Accredited Scope : Calibration Field, see described in the Appendix



Scan to verify

Ching-Chang Lien

Ching-Chang Lien
President, Taiwan Accreditation Foundation
January 30, 2023

Accreditation Number : 1160

Laboratory Head : CHEN, Chin-Chuan

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 Voltage Source DC Voltage Meter	HP/3458A FLUKE/5502A	DC Voltage calibration procedure (Document No.: GCH-SCP-E01)	10	mV	10	mV	voltage source	96	μV/V
			100	mV	100	mV	voltage source	21	μV/V
			1	V	1	V	voltage source	17	μV/V
			10	V	10	V	voltage source	17	μV/V
			100	V	100	V	voltage source	17	μV/V
			1000	V	1000	V	voltage source	18	μV/V
			0.1	V	1	V	voltage source	21	μV/V
			>1	V	10	V	voltage source	17	μV/V
			>10	V	100	V	voltage source	17	μV/V
			>100	V	1000	V	voltage source	18	μV/V
			10	mV	10	mV	voltage meter	0.43	mV/V
			100	mV	100	mV	voltage meter	0.11	mV/V
			1	V	1	V	voltage meter	67	μV/V
			10	V	10	V	voltage meter	67	μV/V
			100	V	100	V	voltage meter	72	μV/V
			1000	V	1000	V	voltage meter	69	μV/V
			0.1	V	1	V	voltage meter	0.11	mV/V
			>1	V	10	V	voltage meter	67	μV/V
			>10	V	100	V	voltage meter	72	μV/V
			>100	V	1000	V	voltage meter	73	μV/V
Approval Signatory: CHEN, Chin-Chuan									



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 Current Source DC Current Meter	HP/3458A FLUKE/5502A	DC Current calibration procedure (Document No.: GCH-SCP-E01)	10	μA	10	μA	current source	53	μA/A
			100	μA	100	μA	current source	46	μA/A
			1	mA	1	mA	current source	43	μA/A
			10	mA	10	mA	current source	43	μA/A
			100	mA	100	mA	current source	58	μA/A
			1	A	1	A	current source	0.15	mA/A
			0.1	mA	1	mA	current source	47	μA/A
			>1	mA	10	mA	current source	44	μA/A
			>10	mA	100	mA	current source	59	μA/A
			>0.1	A	1	A	current source	0.15	mA/A
			10	μA	10	μA	current meter	2.5	mA/A
			100	μA	100	μA	current meter	0.41	mA/A
			1	mA	1	mA	current meter	0.18	mA/A
			10	mA	10	mA	current meter	0.15	mA/A
			100	mA	100	mA	current meter	0.16	mA/A
			1	A	1	A	current meter	0.52	mA/A
			0.1	mA	1	mA	current meter	0.41	mA/A
			>1	mA	10	mA	current meter	0.18	mA/A
			>10	mA	100	mA	current meter	0.16	mA/A
			>0.1	A	1	A	current meter	0.52	mA/A
Approval Signatory: CHEN, Chin-Chuan									



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
KF1003 DC High Voltage Source DC High Voltage Meter	KIKUSUI /149-10A KIKUSUI /Tos5101	DC High Voltage calibration procedure (Document No: GCH-SCP-E06)	1	kV	1	kV	voltage source	1.0	%
			2	kV	2	kV	voltage source	0.8	%
			3	kV	3	kV	voltage source	0.7	%
			4	kV	4	kV	voltage source	0.7	%
			5	kV	5	kV	voltage source	0.7	%
			6	kV	6	kV	voltage source	0.7	%
			7	kV	7	kV	voltage source	0.7	%
			8	kV	8	kV	voltage source	0.7	%
			9	kV	9	kV	voltage source	0.7	%
			10	kV	10	kV	voltage source	1	%
			1	kV	10	kV	voltage source	1	%
			1	kV	1	kV	voltage meter	2.0	%
			2	kV	2	kV	voltage meter	2.0	%
			3	kV	3	kV	voltage meter	1.9	%
			4	kV	4	kV	voltage meter	1.9	%
			5	kV	5	kV	voltage meter	1.9	%
			6	kV	6	kV	voltage meter	1.9	%
			7	kV	7	kV	voltage meter	1.9	%
			8	kV	8	kV	voltage meter	1.9	%
			9	kV	9	kV	voltage meter	1.9	%
			10	kV	10	kV	voltage meter	2	%
			1	kV	10	kV	voltage meter	2	%
			Approval Signatory: CHEN, Chin-Chuan						



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 Voltage Source AC Voltage Meter	HP/3458A FLUKE/5502A	AC Voltage calibration procedure (Document No.: GCH-SCP-E03)	10	mV	10	mV	voltage source (@ 60 Hz)	3.7	mV/V
			100	mV	100	mV	voltage source (@ 60 Hz)	0.83	mV/V
			1	V	1	V	voltage source (@ 60 Hz)	0.82	mV/V
			10	V	10	V	voltage source (@ 60 Hz)	0.82	mV/V
			100	V	100	V	voltage source (@ 60 Hz)	0.83	mV/V
			750	V	750	V	voltage source (@ 60 Hz)	1.2	mV/V
			0.1	V	1	V	voltage source (@ 60 Hz)	0.83	mV/V
			>1	V	10	V	voltage source (@ 60 Hz)	0.83	mV/V
			>10	V	100	V	voltage source (@ 60 Hz)	0.83	mV/V
			>100	V	750	V	voltage source (@ 60 Hz)	1.2	mV/V
			10	mV	10	mV	voltage source (@1 kHz)	3.3	mV/V
			100	mV	100	mV	voltage source (@1 kHz)	0.37	mV/V
			1	V	1	V	voltage source (@1 kHz)	0.36	mV/V
			10	V	10	V	voltage source (@1 kHz)	0.37	mV/V
			100	V	100	V	voltage source (@1 kHz)	0.47	mV/V
			750	V	750	V	voltage source (@1 kHz)	0.95	mV/V
			0.1	V	1	V	voltage source (@1 kHz)	0.38	mV/V
			>1	V	10	V	voltage source (@1 kHz)	0.38	mV/V
			>10	V	100	V	voltage source (@1 kHz)	0.47	mV/V
			>100	V	750	V	voltage source (@1 kHz)	0.95	mV/V
			10	mV	10	mV	voltage meter (@60 Hz)	5.1	mV/V
			100	mV	100	mV	voltage meter (@60 Hz)	1.1	mV/V
			1	V	1	V	voltage meter (@60 Hz)	0.92	mV/V
			10	V	10	V	voltage meter (@60 Hz)	0.92	mV/V
			100	V	100	V	voltage meter (@60 Hz)	1.1	mV/V
			750	V	750	V	voltage meter (@60 Hz)	1.4	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 Voltage Source AC Voltage Meter	HP/3458A FLUKE/5502A	AC Voltage calibration procedure (Document No.: GCH-SCP-E03)	0.1	V	1	V	voltage meter (@60 Hz)	1.1	mV/V
			>1	V	10	V	voltage meter (@60 Hz)	0.94	mV/V
			>10	V	100	V	voltage meter (@60 Hz)	1.1	mV/V
			>100	V	750	V	voltage meter (@60 Hz)	1.4	mV/V
			10	mV	10	mV	voltage meter (@1 kHz)	4.8	mV/V
			100	mV	100	mV	voltage meter (@1 kHz)	0.71	mV/V
			1	V	1	V	voltage meter (@1 kHz)	0.55	mV/V
			10	V	10	V	voltage meter (@1 kHz)	0.57	mV/V
			100	V	100	V	voltage meter (@1 kHz)	0.78	mV/V
			750	V	750	V	voltage meter (@1 kHz)	1.2	mV/V
			0.1	V	1	V	voltage meter (@1 kHz)	0.72	mV/V
			>1	V	10	V	voltage meter (@1 kHz)	0.66	mV/V
			>10	V	100	V	voltage meter (@1 kHz)	0.78	mV/V
			>100	V	750	V	voltage meter (@1 kHz)	1.2	mV/V
Approval Signatory: CHEN, Chin-Chuan									
KF1012 AC Current Source AC Current Meter	HP/3458A FLUKE/5502A	AC Current calibration procedure (Document No.: GCH-SCP-E04)	0.1	mA	0.1	mA	current source (@60 Hz)	1.2	mA/A
			1	mA	1	mA	current source (@60 Hz)	1.1	mA/A
			10	mA	10	mA	current source (@60 Hz)	1.1	mA/A
			100	mA	100	mA	current source (@60 Hz)	1.1	mA/A
			1	A	1	A	current source (@60 Hz)	1.2	mA/A
			0.1	mA	1	mA	current source (@60 Hz)	1.2	mA/A
			>1	mA	10	mA	current source (@60 Hz)	1.1	mA/A
			>10	mA	100	mA	current source (@60 Hz)	1.1	mA/A
			>0.1	A	1	A	current source (@60 Hz)	1.2	mA/A
			0.1	mA	0.1	mA	current source (@1 kHz)	1.2	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	HP/3458A	AC Current calibration procedure (Document No.: GCH-SCP-E04)	1	mA	1	mA	current source (@1 kHz)	0.58	mA/A
	FLUKE/550		10	mA	10	mA	current source (@1 kHz)	0.58	mA/A
	2A		100	mA	100	mA	current source (@1 kHz)	0.58	mA/A
			1	A	1	A	current source (@1 kHz)	1.2	mA/A
			0.1	mA	1	mA	current source (@1 kHz)	1.2	mA/A
			>1	mA	10	mA	current source (@1 kHz)	0.60	mA/A
			>10	mA	100	mA	current source (@1 kHz)	0.62	mA/A
			>0.1	A	1	A	current source (@1 kHz)	1.4	mA/A
			0.1	mA	0.1	mA	current meter (@60 Hz)	2.9	mA/A
			1	mA	1	mA	current meter (@60 Hz)	1.8	mA/A
			10	mA	10	mA	current meter (@60 Hz)	1.3	mA/A
			100	mA	100	mA	current meter (@60 Hz)	1.3	mA/A
			1	A	1	A	current meter (@60 Hz)	1.4	mA/A
			0.1	mA	1	mA	current meter (@60 Hz)	2.9	mA/A
			>1	mA	10	mA	current meter (@60 Hz)	1.8	mA/A
			>10	mA	100	mA	current meter (@60 Hz)	1.3	mA/A
			>0.1	A	1	A	current meter (@60 Hz)	1.4	mA/A
			0.1	mA	0.1	mA	current meter (@1 kHz)	2.8	mA/A
			1	mA	1	mA	current meter (@1 kHz)	1.5	mA/A
			10	mA	10	mA	current meter (@1 kHz)	0.90	mA/A
			100	mA	100	mA	current meter (@1 kHz)	0.90	mA/A
			1	A	1	A	current meter (@1 kHz)	1.4	mA/A
			0.1	mA	1	mA	current meter (@1 kHz)	2.8	mA/A
			>1	mA	10	mA	current meter (@1 kHz)	1.5	mA/A
			>10	mA	100	mA	current meter (@1 kHz)	0.94	mA/A
			>0.1	A	1	A	current meter (@1 kHz)	1.6	mA/A
Approval Signatory: CHEN, Chin-Chuan									



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
KF1013 AC High Voltage Source AC High Voltage Meter	KIKUSUI /149-10A KIKUSUI /Tos5101	AC High Voltage calibration procedure (Document No: GCH-SCP-E07)	1	kV	1	kV	voltage source (@60Hz)	1.8	%
			2	kV	2	kV	voltage source (@60Hz)	1.5	%
			3	kV	3	kV	voltage source (@60Hz)	1.3	%
			4	kV	4	kV	voltage source (@60Hz)	1.3	%
			5	kV	5	kV	voltage source (@60Hz)	1.3	%
			6	kV	6	kV	voltage source (@60Hz)	1.3	%
			7	kV	7	kV	voltage source (@60Hz)	1.3	%
			8	kV	8	kV	voltage source (@60Hz)	1.3	%
			9	kV	9	kV	voltage source (@60Hz)	1.3	%
			10	kV	10	kV	voltage source (@60Hz)	2	%
			1	kV	10	kV	voltage meter (@60Hz)	3	%
			1	kV	1	kV	voltage meter (@60Hz)	2.5	%
			2	kV	2	kV	voltage meter (@60Hz)	2.3	%
			3	kV	3	kV	voltage meter (@60Hz)	2.3	%
			4	kV	4	kV	voltage meter (@60Hz)	2.2	%
			5	kV	5	kV	voltage meter (@60Hz)	2.2	%
			6	kV	6	kV	voltage meter (@60Hz)	2.2	%
			7	kV	7	kV	voltage meter (@60Hz)	2.2	%
			8	kV	8	kV	voltage meter (@60Hz)	2.2	%
			9	kV	9	kV	voltage meter (@60Hz)	2.2	%
			10	kV	10	kV	voltage meter (@60Hz)	3	%
			1	kV	10	kV	voltage source (@60Hz)	2	%

Approval Signatory: CHEN, Chin-Chuan



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
KF3001 high resistor megohmmeter	SOUKOU /HMR-100G FLUKE /1507	high resistance calibration procedure (Document No.: GCH-SCP-E08)	10	MΩ	10	MΩ	high resistor	3	%
			100	MΩ	100	MΩ	high resistor	2.1	%
			1	GΩ	1	GΩ	high resistor	2.1	%
			10	GΩ	10	GΩ	high resistor	3	%
			10	MΩ	10	MΩ	megohmmeter	2	%
			100	MΩ	100	MΩ	megohmmeter	1.2	%
			1	GΩ	1	GΩ	megohmmeter	1.2	%
			10	GΩ	10	GΩ	megohmmeter	2	%
Approval Signatory: CHEN, Chin-Chuan									
KF3001 resistor ohmmeter	HP/3458A FLUKE /5502	resistance calibration procedure (Document No.: GCH-SCP-E05)	1	Ω	1	Ω	resistor	0.16	mΩ/Ω
			10	Ω	10	Ω	resistor	36	μΩ/Ω
			100	Ω	100	Ω	resistor	36	μΩ/Ω
			1	kΩ	1	kΩ	resistor	19	μΩ/Ω
			10	kΩ	10	kΩ	resistor	19	μΩ/Ω
			100	kΩ	100	kΩ	resistor	19	μΩ/Ω
			1	MΩ	1	MΩ	resistor	30	μΩ/Ω
			10	MΩ	10	MΩ	resistor	0.10	mΩ/Ω
			1	Ω	1	Ω	ohmmeter	12	mΩ/Ω
			10	Ω	10	Ω	ohmmeter	1.3	mΩ/Ω
			100	Ω	100	Ω	ohmmeter	0.28	mΩ/Ω
			1	kΩ	1	kΩ	ohmmeter	0.13	mΩ/Ω



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
KF3001 resistor ohmmeter	HP/3458A FLUKE /5502	resistance calibration procedure (Document No.: GCH-SCP-E05)	10	kΩ	10	kΩ	ohmmeter	0.12	mΩ/Ω
			100	kΩ	100	kΩ	ohmmeter	0.14	mΩ/Ω
			1	MΩ	1	MΩ	ohmmeter	0.19	mΩ/Ω
			10	MΩ	10	MΩ	ohmmeter	0.73	mΩ/Ω
Approval Signatory: CHEN, Chin-Chuan									

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

(Null Below)

