Accreditation No : KC01-018

SCOPE OF ACCREDITATION TO ISO/IEC 17025:2017 & KS Q ISO/IEC 17025:2017

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CALIBRATION

Valid To : Oct. 29. 2025 Accreditation No : KC01-018

In recognition of the successful completion of the KOLAS evaluation process,
accreditation is granted to this laboratory to perform the following calibrations

Field Code	Item of Calibration	On-Site
102. Linear dimension		
10211	Filler gauges	Y
10216	Height gauges/measuring machines	Y
10228	Cylindricalplug/pingauges, Threadmeasuringwiregauges	Y
10234	Ultrasonic thickness gauges	Y
10236	Coating thickness testers	Y
104. Form		
10401	Form testers	Y
10407	Precision surface plates	Y
10409	Roundness measurement instruments	N
10412	Straight edges	Y
105. Complex geometry		
10503	Contactcoordinatemeasuring machines	Y
10504	Non-contactcoordinate measuringmachines	Y
10511	Measuringmicroscopes, Profileprojectors	Y
10512	Microscopes, micro measuring	Y
10517	Stylus type roughness testers	Y
106. Various dimensional		
10601	Inside/Outside/Geartooth calipers,Calipergauges	Y
10603	Cylinder/bore gauges	Y
10604	Depthgauges,Depthmicrometers	Y
10605	Dial/digital gauges	Y
10609	Microindicators, Testindicators	Y
10611	3-points, Micrometers	Y
10612	Inside micrometers	Y
10613	Outside micrometers	Y

Field Code	Item of Calibration	On-Site
201. Mass		
20109	Electric balances	Y
20112	Platform scale balances	Y
20116	Weights	Y
401. DC Voltage & current		
40101	DC ammeters	Y
40103	DC voltage/current calibrators	Y
40104	Electricaltemperature calibrators	Y
40108	DC power supplies	Y
40112	DC voltmeters	Y
402. Resistance, Capacitance and Inductance		
40205	Earth testers	Y
40210	Insulation testers	Y
40214	Resistance meters	Y
40215	Resistors	Y
403. AC voltage, current & power		
40301	AC ammeters	Y
40302	Clamp ammeters/voltmeters	Y
40303	AC voltage/current calibrators	Y
40310	Power factor meters	Y
40311	AC power meters	Y
40312	AC power supplies	Y
40313	Puncture/safety testers	Y
40314	Power recorders	Y
40318	AC voltmeters	Y
404. Other DC & LF Measurements		
40410	Line frequency meters	Y
40416	Leakage current testers	Y
40417	Electronic AC/DC loads	Y
40419	Analogue/Digital multimeters	Y
40421	Oscilloscopes	Y

Field Code	Item of Calibration	On-Site
40424	Volt/Current recorders	Y
501. Contact thermometry		
50101	Temperature generators: ovens, furnaces,isothermal liquid baths,ice-point baths, dry-block calibrators	Y
50102	Temperature indicators /recorders/controllers, temperature calibrators	Y
50103	Glass thermometers; liquid-in-glass, Beckmann	N
50104	Resistance thermometers; SPRT, IPRT, thermistors, etc.	Y
50105	Thermal expansion thermometers ; bimetal, gas or liquid type	Y
50107	Temperature transducers	Y
503. Humidity		
50302	Relative humidity hygrometers polimer thinfilm, hair, etc.	Y
50304	Temperature humidity recorders ; Hygrothermograph, etc	N
50305	Transducers; dew-point /relative humidity	N
50306	Humidity generators; two-pressure, two-temperature, flow mixing humidity gererator, constant temperature and humidity chamber, etc.	Y

Note

1. This laboratory provides calibration services in permanent standard laboratory and at on-site.
2. Laboratory conducts on-site calibration should meet requirements of KOLAS-SR-007.
3. On-site calibration is allowed to items with marking 'Y', not allowed to items with marking 'N'.
4. Measurement uncertainty normally is quoted as an expanded uncertainty at a coverage probability of 95%, which usually requires the use of a coverage factor of $k = 2$. It expresses the lowest uncertainty of measurement that can be provided by accredited calbration laboratories in normal conditions.
5. Due to the calibration environment such as reference standards or customers' facilities, it is note that uncertainty of measurement on a calibration certificate may be expressed larger than measurement uncertainty on scope of accreditation in general.

102. Linear dimension

Measured Quantity Instrument or Gauge	Field Code	Range	Measurement uncertainty (The Confidence Level is about 95 %)	Standard/Method of Measurement etc.
Filler gauges	10211	(0.01 ~ 10) mm	1.2 μm	Micrometers/ SICT-CP-10211
Height gauges/measuring machines	10216	(0 ~ 1 010) mm	$\sqrt{1.1^2 + (0.003\ 7 \times l_0)^2}$ μm	Gauge Block, Step gauge/ SICT-CP-10216
Cylindrical plug/pin gauges, Thread measuring wire gauges Cylindrical plug/pin gauges	10228	(1 ~ 20) mm	$\sqrt{0.48^2 + (0.003\ 4 \times l_0)^2}$ μm	Laser Scan Micrometers/ SICT-CP-10228
Ultrasonic thickness gauges	10234	(2.5 ~ 100) mm	3 μm	Ultrasonic Tester Blocks/ SICT-CP-10234
Coating thickness testers	10236	(0 ~ 1.527) mm	1.1 μm	Thickness specimens/ SICT-CP-10236

Note 1. l_0 unit : mm

104. Form

Measured Quantity Instrument or Gauge	Field Code	Range	Measurement uncertainty (The Confidence Level is about 95 %)	Standard/Method of Measurement etc.
Form testers	10401			Form Standard Specimens
Height length		(0 ~ 50) mm	1.0 μm	Gage Block, Angle Gage Block/
Width		(0 ~ 45) mm	1.7 μm	SICT-CP-10401
Angle		15° ~ 45°	2'	
Precision surface plates	10407			Electronic Level/
Flatness		(2 000 ~ 20 000) cm^2	2.0 μm	SICT-CP-10407
Roundness measurement instruments	10409			Roundness Standard Ball/
Detoctor accuracy		(0 ~ 15) μm	0.62 μm	SICT-CP-10409
Rotational accuracy of spindle		360°	0.09 μm	
Rotational accuracy of axis		360°	0.05 μm	
Straight edges	10412			Electronic Micrometers/
		(0 ~ 1 500) mm	1.9 μm	SICT-CP-10412
		(0 ~ 1 500) mm	1.8 μm	

Note 1. l_0 unit : mm

105. Complex geometry

Measured Quantity Instrument or Gauge	Field Code	Range	Measurement uncertainty (The Confidence Level is about 95 %)	Standard/Method of Measurement etc.
Contact coordinate measuring machines	10503	(0 ~ 1 000) mm	$\sqrt{0.94^2 + (0.004\ 8 \times l_0)^2}$ μm	Step Gauge/ SICT-CP-10503
Non-contact coordinate measuring machines	10504	(0 ~ 500) mm	$\sqrt{0.53^2 + (0.003\ 6 \times l_0)^2}$ μm	Standard Scale/ SICT-CP-10504
Measuring microscopes,Profile projectors	10511			Standard Scale/
Length		(0 ~ 300) mm	$\sqrt{0.56^2 + (0.003\ 6 \times l_0)^2}$ μm	SICT-CP-10511
Magnification		(5 ~ 100) 배	0.05 %	
Angle		(0 ~ 360)°	0.9'	
Microscopes, micro measuring	10512			Standard Scale/
		(0 ~ 1) mm	1.3 μm	SICT-CP-10512
		(1 ~ 50) mm	3.0 μm	
Stylus type roughness testers	10517			Roughness Specimen/
Ra		(0 ~ 4) μm	추후확정	SICT-CP-10517
Rz		(0 ~ 12) μm	추후확정	

Note 1. l_0 unit : mm

106. Various dimensional

Measured Quantity Instrument or Gauge	Field Code	Range	Measurement uncertainty (The Confidence Level is about 95 %)	Standard/Method of Measurement etc.
Inside/Outside/Geartooth calipers, Caliper gauges	10601			Gauge Block/ SICT-CP-10601
Inside/Outside calipers		(0 ~ 2 000) mm	$\sqrt{8.2^2 + (0.008\ 1 \times l_0)^2}$ μm	
Caliper gauges		(0 ~ 100) mm	$\sqrt{2.6^2 + (0.004\ 2 \times l_0)^2}$ μm	
		(100 ~ 300) mm	$\sqrt{8.2^2 + (0.004\ 2 \times l_0)^2}$ μm	
Cylinder/bore gauges	10603			Dial Gauge Tester/
Cylinder gauges		(0 ~ 400) mm	0.7 μm	SICT-CP-10603
Hole gauges		(0.1 ~ 25) mm	3.5 μm	
Depth gauges,Depth micrometers	10604			Gauge Block/
Depth micrometers		(0 ~ 300) mm	$\sqrt{0.87^2 + (0.003\ 3 \times l_0)^2}$ μm	SICT-CP-10604
Depth gauges		(0 ~ 600) mm	$\sqrt{6.0^2 + (0.007\ 8 \times l_0)^2}$ μm	
Dial/digital gauges	10605			Gauge Block/
Dial/Digital gauges		(0 ~ 100) mm	$\sqrt{0.33^2 + (0.006\ 8 \times l_0)^2}$ μm	SICT-CP-10605
Digital thickness gauges		(0 ~ 25) mm	$\sqrt{0.82^2 + (0.006\ 8 \times l_0)^2}$ μm	
Micro indicators,Test indicators	10609			Dial Gauge Tester/
		(0 ~ 5) mm	0.29 μm	SICT-CP-10609
3-points, Micrometers	10611	(6 ~ 100) mm	$\sqrt{1.2^2 + (0.004\ 1 \times l_0)^2}$ μm	Ring Gauge/ SICT-CP-10611
Inside micrometers	10612			Gauge Block/
Inside micrometer		(5 ~ 200) mm	$\sqrt{1.1^2 + (0.004\ 2 \times l_0)^2}$ μm	SICT-CP-10612
bar type micrometer(Accuracy of scale)		(25 ~ 200) mm	$\sqrt{1.1^2 + (0.004\ 2 \times l_0)^2}$ μm	
bar type micrometer(Length of extension bars)		(13 ~ 150) mm	$\sqrt{1.6^2 + (0.004\ 2 \times l_0)^2}$ μm	
Outside micrometers	10613			Gauge Block, cylinderical plug gauges/
Outside micrometers		(0 ~ 25) mm	$\sqrt{0.22^2 + (0.003 \times l_0)^2}$ μm	SICT-CP-10613
		(25 ~ 500) mm	$\sqrt{0.83^2 + (0.003\ 1 \times l_0)^2}$ μm	
V-anvil micrometers		(1 ~ 20) mm	0.97 μm	

Note 1. l_0 unit : mm

201. Mass

Measured Quantity Instrument or Gauge	Field Code	Range	Measurement uncertainty (The Confidence Level is about 95 %)	Standard/Method of Measurement etc.
Electric balances	20109			Weight/
		(0 ~ 2) g	21 µg	SICT-CP-20109
		(2 ~ 6) g	40 µg	
		(6 ~ 20) g	42 µg	
		(20 ~ 50) g	61 µg	
		(50 ~ 200) g	0.12 mg	
		(200 ~ 500) g	0.33 mg	
		(500 ~ 2 000) g	1.2 mg	
		(2 ~ 5) kg	3.2 mg	
		(5 ~ 10) kg	6.2 mg	
		(10 ~ 20) kg	12 mg	
		(20 ~ 30) kg	0.20 g	
		(30 ~ 60) kg	0.36 g	
		(60 ~ 100) kg	6.8 g	
		(100 ~ 600) kg	18 g	
		(600 ~ 1 000) kg	38 g	
Platform scale balances	20112			Weight/
		(0 ~ 200) kg	46 g	SICT-CP-20112
		(200 ~ 500) kg	0.092 kg	
		(500 ~ 1 000) kg	0.46 kg	
Weights	20116			Weight,Electronic Balance/
less than class F1		(1 mg ~ 20 kg)		SICT-CP-20116
		1 mg	3.5 µg	
		2 mg	3.5 µg	
		5 mg	3.5 µg	
		10 mg	3.5 µg	
		20 mg	4.4 µg	
		50 mg	5.3 µg	
		100 mg	6.4 µg	
		200 mg	7.5 µg	
		500 mg	10 µg	
		1 g	12 µg	
		2 g	16 µg	
		5 g	19 µg	
		10 g	24 µg	
		20 g	31 µg	
		50 g	38 µg	
		100 g	64 µg	
		200 g	0.12 mg	
		500 g	0.39 mg	
		1 kg	0.66 mg	
		2 kg	1.2 mg	
		5 kg	4.7 mg	
		10 kg	7.1 mg	
		20 kg	13 mg	

401. DC voltage & current

Measured Quantity Instrument or Gauge	Field Code	Range	Measurement uncertainty (The Confidence Level is about 95 %)	Standard/Method of Measurement etc.
DC ammeters	40101			Calibrator/
DC Current		(±)		SICT-CP-40101
		0 μA	9.3 nA	
		(0.1 ~ 1) μA	9.4×10^{-3}	
		(1 ~ 10) μA	9.9×10^{-4}	
		(10 ~ 100) μA	1.5×10^{-4}	
		(0.1 ~ 10) mA	6.9×10^{-5}	
		(10 ~ 100) mA	8.0×10^{-5}	
		(0.1 ~ 1) A	1.2×10^{-4}	
		(1 ~ 10) A	6.5×10^{-4}	
		(10 ~ 20) A	1.2×10^{-3}	
DC voltage/current calibrators	40103			Reference Multimeter/
DC Voltage		(±)		SICT-CP-40103
		0 mV	0.51 μV	
		(0 ~ 1) mV	6.1×10^{-4}	
		(1 ~ 10) mV	6.2×10^{-5}	
		(10 ~ 100) mV	1.3×10^{-5}	
		(0.1 ~ 1) V	6.6×10^{-6}	
		(1 ~ 10) V	5.2×10^{-6}	
		(10 ~ 100) V	7.2×10^{-6}	
		(100 ~ 1 000) V	9.0×10^{-6}	
DC Current		(±)		
		0 μA	6.9 nA	
		(0 ~ 10) μA	7.4×10^{-4}	
		(10 ~ 100) μA	1.1×10^{-4}	
		(0.1 ~ 1) mA	7.2×10^{-5}	
		(1 ~ 10) mA	4.7×10^{-5}	
		(10 ~ 100) mA	7.5×10^{-5}	
		(0.1 ~ 1) A	2.4×10^{-4}	
		(1 ~ 10) A	5.7×10^{-4}	
		(10 ~ 100) A	2.8×10^{-4}	
Electricaltemperaturecalibrators	40104			Digital Multimeter/
TEMPERATURE(SOURCE)				SICT-CP-40104
T/C		-9.835 mV	0.62 μV	
		(-9.835 ~ -5.237) mV	0.62 μV	
		(-5.237 ~ 0.000) mV	0.52 μV	
		(0.000 ~ 13.421) mV	0.62 μV	
		(13.421 ~ 68.788) mV	1.2 μV	
		(68.788 ~ 76.373) mV	1.3 μV	
RTD		1.000 Ω	0.063 mΩ	
		(1.000 ~ 2.499) Ω	3.7×10^{-5}	
		(2.499 ~ 16.996) Ω	3.0×10^{-5}	
		(16.996 ~ 100.000) Ω	1.0×10^{-5}	
		(100.000 ~ 249.584) Ω	2.8×10^{-5}	
		(249.584 ~ 3 233.3) Ω	1.8×10^{-5}	

401. DC voltage & current

Measured Quantity Instrument or Gauge	Field Code	Range	Measurement uncertainty (The Confidence Level is about 95 %)	Standard/Method of Measurement etc.
Electricaltemperaturecalibrators	40104			Digital Multimeter/
DC VOLTAGE(SOURCE)		(±)		SICT-CP-40104
		0 mV	8.1 μV	
		(0 ~ 10) mV	8.5×10^{-4}	
		(10 ~ 100) mV	1.2×10^{-4}	
		(0.1 ~ 1) V	4.6×10^{-5}	
		(1 ~ 10) V	4.0×10^{-5}	
		(10 ~ 100) V	5.9×10^{-5}	
DC CURRENT(SOURCE)		(±)		
		0 mA	0.14 μA	
		(0 ~ 1) mA	7.0×10^{-4}	
		(1 ~ 10) mA	1.0×10^{-3}	
		(10 ~ 100) mA	7.0×10^{-4}	
RESISTANCE(SOURCE)		0 Ω	0.072 mΩ	
		(0 ~ 1) Ω	6.7×10^{-5}	
		(1 ~ 10) Ω	4.6×10^{-4}	
		100 Ω ~ 50 kΩ	1.2×10^{-4}	
TEMPERATURE(MEASURE)				
T/C		-9.836 mV	0.84 μV	
		(-9.836 ~ -5.238) mV	0.83 μV	
		(-5.238 ~ 0.000) mV	0.80 μV	
		(0.000 ~ 0.002) mV	0.70 μV	
		(0.002 ~ 6.319) mV	0.81 μV	
		(6.319 ~ 13.421) mV	0.87 μV	
		(13.421 ~ 21.036) mV	0.94 μV	
		(21.036 ~ 28.946) mV	1.0 μV	
		(28.946 ~ 37.006) mV	1.1 μV	
		(37.006 ~ 53.112) mV	1.2 μV	
		(53.112 ~ 61.017) mV	1.3 μV	
		(61.017 ~ 76.373) mV	1.4 μV	
RTD		0.999 Ω	0.24 mΩ	
		(0.999 ~ 2.497) Ω	1.0×10^{-4}	
		(2.497 ~ 4.316) Ω	7.1×10^{-5}	
		(4.316 ~ 16.995) Ω	3.9×10^{-5}	
		(16.995 ~ 177.156) Ω	3.4×10^{-5}	
		(177.156 ~ 249.584) Ω	3.5×10^{-5}	
		(249.584 ~ 3 233.3) Ω	4.3×10^{-5}	
DC VOLTAGE(MEASURE)		(±)		
		0 mV	1.2 μV	
		(0 ~ 10) mV	1.4×10^{-4}	
		(10 ~ 100) mV	3.5×10^{-5}	
		(0.1 ~ 1) V	6.0×10^{-5}	
		(1 ~ 10) V	1.7×10^{-5}	
		(10 ~ 200) V	2.3×10^{-5}	
		(200 ~ 300) V	2.9×10^{-5}	
DC CURRENT(MEASURE)		(±)		
		0 mA	0.09 μA	
		(0 ~ 1) mA	9.3×10^{-5}	
		(1 ~ 10) mA	7.0×10^{-5}	
		(10 ~ 50) mA	9.6×10^{-5}	
		(50 ~ 100) mA	8.1×10^{-5}	
		(100 ~ 130) mA	9.6×10^{-5}	

401. DC voltage & current

Measured Quantity Instrument or Gauge	Field Code	Range	Measurement uncertainty (The Confidence Level is about 95 %)	Standard/Method of Measurement etc.
Electricaltemperaturecalibrators	40104			Digital Multimeter/
RESISTANCE(MEASURE)		0 Ω	23 mΩ	SICT-CP-40104
		(0 ~ 1) Ω	1.3×10^{-4}	
		(1 ~ 10) Ω	4.8×10^{-5}	
		(10 ~ 100) Ω	3.4×10^{-5}	
		(0.1 ~ 1) kΩ	7.3×10^{-5}	
		(1 ~ 10) kΩ	7.0×10^{-5}	
		(10 ~ 20) kΩ	4.8×10^{-5}	
		(20 ~ 30) kΩ	4.0×10^{-5}	
		(30 ~ 40) kΩ	4.2×10^{-5}	
		(40 ~ 50) kΩ	3.9×10^{-5}	
DC power supplies	40108			DC Electronics Load/
DC Voltage		(±)		SICT-CP-40108
		0 mV	5.8 μV	
		(0 ~ 10) mV	5.8×10^{-4}	
		(10 ~ 100) mV	5.9×10^{-5}	
		100 mV ~ 1 V	9.2×10^{-5}	
		(1 ~ 10) V	5.3×10^{-5}	
		(10 ~ 100) V	9.2×10^{-5}	
		(100 ~ 600) V	1.7×10^{-5}	
		(600 ~ 1 000) V	6.6×10^{-5}	
DC Current		1 mA	5.8 μA	
		(1 ~ 10) mA	6.5×10^{-3}	
		(10 ~ 100) mA	6.5×10^{-4}	
		(0.1 ~ 1) A	8.7×10^{-5}	
		(1 ~ 5) A	1.3×10^{-4}	
		(5 ~ 10) A	4.0×10^{-4}	
		(10 ~ 20) A	3.1×10^{-4}	
		(20 ~ 200) A	2.2×10^{-4}	
Load regulation		0 mV	0.97 mV	
		(0 ~ 2) mV	4.9×10^{-1}	
		(2 ~ 20) mV	3.3×10^{-1}	
		(20 ~ 200) mV	3.3×10^{-2}	
Ripple		0.1 mV	0.097 mV	
		(0.1 ~ 0.2) mV	6.4×10^{-1}	
		(0.2 ~ 0.4) mV	2.5×10^{-1}	
		(0.4 ~ 0.6) mV	1.6×10^{-1}	
		(0.6 ~ 1) mV	9.6×10^{-2}	
		(1 ~ 10) mV	9.2×10^{-2}	
		(10 ~ 50) mV	1.9×10^{-1}	
DC voltmeters	40112			Calibrator/
DC Voltage		(±)		SICT-CP-40112
		0 mV	0.69 μV	
		(0 ~ 1) mV	8.0×10^{-4}	
		(1 ~ 2) mV	4.0×10^{-4}	
		(2 ~ 8) mV	1.6×10^{-4}	
		(8 ~ 10) mV	8.0×10^{-5}	
		(10 ~ 20) mV	4.5×10^{-5}	
		(20 ~ 50) mV	2.4×10^{-5}	
		(50 ~ 80) mV	1.9×10^{-5}	
		(80 ~ 100) mV	1.6×10^{-5}	
		(0.1 ~ 1) V	9.4×10^{-6}	
		(1 ~ 10) V	8.6×10^{-6}	
		(10 ~ 100) V	1.0×10^{-5}	
		(100 ~ 1 000) V	1.1×10^{-5}	

402. Resistance, Capacitance and Inductance

Measured Quantity Instrument or Gauge	Field Code	Range	Measurement uncertainty (The Confidence Level is about 95 %)	Standard/Method of Measurement etc.
Earth testers	40205			Decade Resistor/
Test Voltage		60 Hz		SICT-CP-40205
		1 V	6.1×10^{-3}	
		(1 ~ 10) V	6.2×10^{-4}	
		(10 ~ 50) V	1.2×10^{-3}	
		(50 ~ 100) V	6.2×10^{-4}	
		(100 ~ 500) V	4.9×10^{-4}	
		(500 ~ 1 000) V	7.7×10^{-4}	
Resistance		1 mΩ	1.3×10^{-3}	
		1 mΩ ~ 1 Ω	1.3×10^{-3}	
		1 Ω ~ 10 Ω	8.4×10^{-4}	
		10 Ω ~ 100 kΩ	6.5×10^{-4}	
AC Current out		60 Hz		
		1 A	3.1×10^{-3}	
		(1 ~ 3) A	4.1×10^{-3}	
		(3 ~ 10) A	3.1×10^{-3}	
		(10 ~ 20) A	3.4×10^{-3}	
		(20 ~ 30) A	6.4×10^{-3}	
		(30 ~ 60) A	4.6×10^{-3}	
Timer		(1 ~ 100) s	5.8×10^{-6}	
		(100 ~ 1 000) s	8.2×10^{-6}	
Insulation testers	40210			High Resistance Decade/
AC Voltage		60 Hz		SICT-CP-40210
		1 V	1.2×10^{-4}	
		(1 ~ 10) V	1.2×10^{-4}	
		(10 ~ 100) V	1.3×10^{-4}	
		(100 ~ 1 000) V	4.9×10^{-4}	
Insulation Voltage		1 V	6.1×10^{-4}	
		(1 ~ 10) V	6.1×10^{-5}	
		(10 ~ 25) V	2.5×10^{-4}	
		(25 ~ 50) V	1.2×10^{-4}	
		(50 ~ 100) V	6.2×10^{-5}	
		(100 ~ 250) V	2.5×10^{-4}	
		(250 ~ 500) V	1.2×10^{-4}	
		(500 ~ 1 000) V	6.1×10^{-5}	
		(1 000 ~ 5 000) V	6.5×10^{-3}	
		(5 000 ~ 10 000) V	6.1×10^{-3}	
Insulation Resistance		1 kΩ	1.4×10^{-4}	
		1 kΩ ~ 1 MΩ	1.2×10^{-4}	
		(1 ~ 10) MΩ	3.6×10^{-4}	
		(10 ~ 100) MΩ	1.2×10^{-3}	
		100 MΩ ~ 1 GΩ	2.3×10^{-3}	
		(1 ~ 10) GΩ	5.8×10^{-3}	
		(10 ~ 100) GΩ	5.9×10^{-3}	
		100 GΩ ~ 1 TΩ	3.5×10^{-2}	
Resistance meters	40214			Standard Resistance Set/
Resistance		1 mΩ	2.2×10^{-5}	SICT-CP-40214
		(1 ~ 10) mΩ	2.1×10^{-5}	
		(10 ~ 100) mΩ	2.2×10^{-5}	
		100 mΩ ~ 1 MΩ	2.1×10^{-5}	

402. Resistance, Capacitance and Inductance

Measured Quantity Instrument or Gauge	Field Code	Range	Measurement uncertainty (The Confidence Level is about 95 %)	Standard/Method of Measurement etc.
Resistors	40215			Standard Resistance Set/
Decade Resistance		0 Ω	62 μΩ	SICT-CP-40215
		(0 ~ 1) mΩ	3.1×10^{-3}	
		(1 ~ 2) mΩ	6.2×10^{-3}	
		(2 ~ 3) mΩ	2.1×10^{-3}	
		(3 ~ 6) mΩ	1.5×10^{-3}	
		(6 ~ 8) mΩ	8.9×10^{-4}	
		(8 ~ 10) mΩ	6.9×10^{-4}	
		(10 ~ 30) mΩ	3.1×10^{-3}	
		(30 ~ 60) mΩ	1.6×10^{-3}	
		60 mΩ ~ 0.1 Ω	8.9×10^{-4}	
		(0.1 ~ 0.3) Ω	3.1×10^{-4}	
		(0.3 ~ 0.6) Ω	1.6×10^{-4}	
		(0.6 ~ 1) Ω	9.0×10^{-5}	
		(1 ~ 3) Ω	4.6×10^{-5}	
		(3 ~ 10) Ω	2.5×10^{-5}	
		(10 ~ 300) Ω	2.9×10^{-5}	
		(300 ~ 1000) Ω	1.6×10^{-5}	
		(1 ~ 10) kΩ	3.7×10^{-5}	
		(10 ~ 100) kΩ	3.0×10^{-5}	
		100 kΩ ~ 1 MΩ	4.0×10^{-5}	
		(1 ~ 2) MΩ	8.5×10^{-5}	
		(2 ~ 10) MΩ	5.9×10^{-5}	
		(10 ~ 100) MΩ	6.5×10^{-4}	
		100 MΩ ~ 1 GΩ	6.6×10^{-3}	

403. AC voltage, current & power

Measured Quantity Instrument or Gauge	Field Code	Range	Measurement uncertainty (The Confidence Level is about 95 %)	Standard/Method of Measurement etc.
AC ammeters	40301			Power Calibrator, Calibrator/
AC Current		(100 μA)		SICT-CP-40301
		50 Hz ~ 1 kHz	2.7×10^{-3}	
		(0.1 ~ 1) mA		
		50 Hz ~ 1 kHz	1.4×10^{-3}	
		(1 ~ 10) mA		
		(50 ~ 60) Hz	6.1×10^{-4}	
		60 Hz ~ 1 kHz	7.0×10^{-4}	
		(10 ~ 100) mA		
		(50 ~ 60) Hz	4.7×10^{-4}	
		60 Hz ~ 1 kHz	7.0×10^{-4}	
		(0.1 ~ 1) A		
		(50 ~ 60) Hz	2.1×10^{-4}	
		60 Hz ~ 1 kHz	7.0×10^{-4}	
		(1 ~ 5) A		
		(50 ~ 60) Hz	2.6×10^{-4}	
		60 Hz ~ 1 kHz	1.3×10^{-3}	
		(5 ~ 10) A		
		(50 ~ 60) Hz	3.0×10^{-4}	
		60 Hz ~ 1 kHz	1.4×10^{-3}	
		(10 ~ 20) A		
		(50 ~ 60) Hz	4.8×10^{-4}	
		(20 ~ 40) A		
		(50 ~ 60) Hz	5.2×10^{-4}	
Clamp ammeters/voltmeters	40302			Power Calibrator, Calibrator/
AC Current		(50 ~ 60) Hz		SICT-CP-40302
		100 μA	0.27 μA	
		(100 ~ 200) μA	2.1×10^{-3}	
		(200 ~ 300) μA	1.9×10^{-3}	
		(300 ~ 400) μA	1.7×10^{-3}	
		(400 ~ 500) μA	1.6×10^{-3}	
		(500 ~ 600) μA	1.5×10^{-3}	
		(600 ~ 900) μA	1.4×10^{-3}	
		900 μA ~ 1 mA	1.5×10^{-3}	
		(1 ~ 2) mA	1.3×10^{-3}	
		(2 ~ 3) mA	1.2×10^{-3}	
		(3 ~ 4) mA	1.1×10^{-3}	
		(4 ~ 5) mA	9.5×10^{-4}	
		(5 ~ 6) mA	8.7×10^{-4}	
		(6 ~ 7) mA	8.1×10^{-4}	
		(7 ~ 8) mA	7.6×10^{-4}	
		(8 ~ 9) mA	7.3×10^{-4}	
		(9 ~ 10) mA	9.3×10^{-4}	
		(10 ~ 20) mA	7.6×10^{-4}	
		(20 ~ 30) mA	6.5×10^{-4}	
		(30 ~ 40) mA	6.0×10^{-4}	
		(40 ~ 50) mA	5.7×10^{-4}	
		(50 ~ 60) mA	4.8×10^{-4}	
		(60 ~ 70) mA	4.6×10^{-4}	

403. AC voltage, current & power

Measured Quantity Instrument or Gauge	Field Code	Range	Measurement uncertainty (The Confidence Level is about 95 %)	Standard/Method of Measurement etc.
Clamp ammeters/voltmeters	40302			Power Calibrator, Calibrator/
AC Current		(70 ~ 90) mA	4.4×10^{-4}	SICT-CP-40302
		(90 ~ 100) mA	7.5×10^{-4}	
		(100 ~ 200) mA	3.9×10^{-4}	
		(200 ~ 300) mA	3.1×10^{-4}	
		(300 ~ 400) mA	2.7×10^{-4}	
		(400 ~ 500) mA	2.5×10^{-4}	
		(500 ~ 700) mA	2.4×10^{-4}	
		(700 ~ 900) mA	2.2×10^{-4}	
		900 mA ~ 1 A	6.4×10^{-4}	
		(1 ~ 2) A	3.7×10^{-4}	
		(2 ~ 3) A	4.0×10^{-4}	
		(3 ~ 4) A	3.3×10^{-4}	
		(4 ~ 5) A	2.9×10^{-4}	
		(5 ~ 6) A	3.4×10^{-4}	
		(6 ~ 7) A	3.3×10^{-4}	
		(7 ~ 9) A	3.1×10^{-4}	
		(9 ~ 10) A	6.8×10^{-4}	
		(10 ~ 20) A	6.4×10^{-4}	
		(20 ~ 30) A	5.6×10^{-4}	
		(30 ~ 40) A	5.2×10^{-4}	
		(40 ~ 500) A	1.2×10^{-3}	
		(500 ~ 700) A	1.4×10^{-3}	
		(700 ~ 1 000) A	1.3×10^{-3}	
DC Current		30 μA	29 nA	
		(30 ~ 40) μA	7.7×10^{-4}	
		(40 ~ 50) μA	6.5×10^{-4}	
		(50 ~ 60) μA	5.7×10^{-4}	
		(60 ~ 70) μA	5.1×10^{-4}	
		(70 ~ 80) μA	4.7×10^{-4}	
		(80 ~ 90) μA	4.4×10^{-4}	
		(90 ~ 100) μA	7.3×10^{-4}	
		(100 ~ 200) μA	4.2×10^{-4}	
		(200 ~ 300) μA	3.2×10^{-4}	
		(300 ~ 400) μA	2.8×10^{-4}	
		(400 ~ 500) μA	2.5×10^{-4}	
		(500 ~ 600) μA	2.4×10^{-4}	
		(600 ~ 700) μA	2.3×10^{-4}	
		(700 ~ 800) μA	2.2×10^{-4}	
		(800 ~ 900) μA	2.1×10^{-4}	
		900 μA ~ 1 mA	6.4×10^{-4}	
		(1 ~ 2) mA	3.6×10^{-4}	
		(2 ~ 4) mA	2.7×10^{-4}	
		(4 ~ 9) mA	1.8×10^{-4}	
		(9 ~ 10) mA	6.2×10^{-4}	
		(10 ~ 20) mA	3.3×10^{-4}	
		(20 ~ 70) mA	2.4×10^{-4}	
		(70 ~ 90) mA	1.5×10^{-4}	
		(90 ~ 100) mA	6.2×10^{-4}	
		(100 ~ 200) mA	3.3×10^{-4}	
		(200 ~ 400) mA	3.9×10^{-4}	

403. AC voltage, current & power

Measured Quantity Instrument or Gauge	Field Code	Range	Measurement uncertainty (The Confidence Level is about 95 %)	Standard/Method of Measurement etc.
Clamp ammeters/voltmeters	40302			Power Calibrator, Calibrator/ SICT-CP-40302
DC Current		(400 ~ 900) mA	3.5×10^{-4}	
		900 mA ~ 1 A	6.7×10^{-4}	
		(1 ~ 2) A	4.8×10^{-4}	
		(2 ~ 3) A	6.0×10^{-4}	
		(3 ~ 9) A	8.1×10^{-4}	
		(9 ~ 10) A	8.9×10^{-4}	
		(10 ~ 20) A	1.2×10^{-3}	
		(20 ~ 40) A	3.8×10^{-4}	
		(40 ~ 500) A	1.3×10^{-3}	
		(500 ~ 1 000) A	1.7×10^{-3}	
AC Voltage		(50 ~ 60) Hz		
		10 mV	11 μV	
		(10 ~ 20) mV	6.3×10^{-4}	
		(20 ~ 30) mV	4.7×10^{-4}	
		(30 ~ 40) mV	4.6×10^{-4}	
		(40 ~ 50) mV	4.0×10^{-4}	
		(50 ~ 60) mV	3.6×10^{-4}	
		(60 ~ 80) mV	3.3×10^{-4}	
		(80 ~ 90) mV	2.9×10^{-4}	
		(90 ~ 100) mV	2.8×10^{-4}	
		(100 ~ 200) mV	2.2×10^{-4}	
		(200 ~ 300) mV	2.0×10^{-4}	
		(300 ~ 400) mV	3.6×10^{-4}	
		(400 ~ 600) mV	3.2×10^{-4}	
		(600 ~ 700) mV	2.8×10^{-4}	
		(700 ~ 800) mV	2.6×10^{-4}	
		800 mV ~ 1 V	2.5×10^{-4}	
		(1 ~ 3) V	2.1×10^{-4}	
		(3 ~ 4) V	3.5×10^{-4}	
		(4 ~ 5) V	3.2×10^{-4}	
		(5 ~ 6) V	2.9×10^{-4}	
		(6 ~ 7) V	2.8×10^{-4}	
		(7 ~ 8) V	2.6×10^{-4}	
		(8 ~ 10) V	2.5×10^{-4}	
		(10 ~ 20) V	2.3×10^{-4}	
		(20 ~ 40) V	1.9×10^{-4}	
		(40 ~ 70) V	2.2×10^{-4}	
		(70 ~ 90) V	1.9×10^{-4}	
		(90 ~ 100) V	1.8×10^{-4}	
		(100 ~ 200) V	1.5×10^{-4}	
		(200 ~ 500) V	1.9×10^{-4}	
		(500 ~ 700) V	2.6×10^{-4}	
		(700 ~ 1 000) V	3.7×10^{-4}	
DC Voltage		10 mV	61 μV	
		(10 ~ 20) mV	3.1×10^{-3}	
		(20 ~ 30) mV	2.0×10^{-3}	
		(30 ~ 40) mV	1.5×10^{-3}	
		(40 ~ 50) mV	1.2×10^{-3}	
		(50 ~ 60) mV	1.0×10^{-3}	
		(60 ~ 70) mV	8.7×10^{-4}	
		(70 ~ 80) mV	7.6×10^{-4}	
		(80 ~ 90) mV	6.8×10^{-4}	
		(90 ~ 100) mV	7.0×10^{-5}	

403. AC voltage, current & power

Measured Quantity Instrument or Gauge	Field Code	Range	Measurement uncertainty (The Confidence Level is about 95 %)	Standard/Method of Measurement etc.
Clamp ammeters/voltmeters	40302			Power Calibrator, Calibrator/ SICT-CP-40302
DC Voltage		(100 ~ 200) mV	4.2×10^{-5}	
		(200 ~ 300) mV	3.4×10^{-5}	
		(300 ~ 400) mV	2.4×10^{-5}	
		(400 ~ 500) mV	2.2×10^{-5}	
		(500 ~ 600) mV	2.0×10^{-5}	
		(600 ~ 800) mV	1.8×10^{-5}	
		(800 ~ 900) mV	1.7×10^{-5}	
		900 mV ~ 1 V	6.3×10^{-5}	
		(1 ~ 2) V	3.4×10^{-5}	
		(2 ~ 4) V	2.5×10^{-5}	
		(4 ~ 5) V	2.2×10^{-5}	
		(5 ~ 6) V	2.0×10^{-5}	
		(6 ~ 7) V	1.9×10^{-5}	
		(7 ~ 9) V	1.8×10^{-5}	
		(9 ~ 10) V	6.3×10^{-5}	
		(10 ~ 20) V	3.4×10^{-5}	
		(20 ~ 30) V	2.5×10^{-5}	
		(30 ~ 40) V	3.0×10^{-6}	
		(40 ~ 50) V	2.7×10^{-5}	
		(50 ~ 60) V	2.6×10^{-5}	
		(60 ~ 70) V	2.5×10^{-5}	
		(70 ~ 90) V	2.4×10^{-5}	
		(90 ~ 100) V	6.5×10^{-5}	
		(100 ~ 200) V	3.8×10^{-5}	
		(200 ~ 400) V	3.0×10^{-5}	
		(400 ~ 500) V	2.8×10^{-5}	
		(500 ~ 600) V	2.6×10^{-5}	
		(600 ~ 700) V	2.5×10^{-5}	
		(700 ~ 900) V	2.4×10^{-5}	
		(900 ~ 1 000) V	6.5×10^{-5}	
Resistance		1 Ω	0.62 mΩ	
		(1 ~ 9) Ω	3.1×10^{-4}	
		(9 ~ 100) Ω	6.1×10^{-4}	
		(100 ~ 900) Ω	4.7×10^{-5}	
		900 Ω ~ 90 kΩ	7.0×10^{-5}	
		90 kΩ ~ 1 MΩ	7.2×10^{-5}	
		(1 ~ 10) MΩ	1.9×10^{-4}	
		(10 ~ 100) MΩ	7.1×10^{-4}	
AC voltage/current calibrators	40303			Alternating Voltage Measurement Standard, Reference Multimeter, Current Shunt/ SICT-CP-40303
AC Voltage		(2 mV)		
		10 Hz	8.2×10^{-3}	
		(10 ~ 40) Hz	2.5×10^{-3}	
		40 Hz ~ 1 kHz	1.3×10^{-3}	
		(1 ~ 20) kHz	5.0×10^{-3}	
		(20 ~ 100) kHz	1.2×10^{-2}	
		(2 ~ 20) mV		
		10 Hz	9.5×10^{-4}	
		(10 ~ 40) Hz	3.5×10^{-4}	
		40 Hz ~ 1 kHz	2.3×10^{-4}	
		(1 ~ 20) kHz	8.1×10^{-4}	
		(20 ~ 100) kHz	2.0×10^{-3}	

403. AC voltage, current & power

Measured Quantity Instrument or Gauge	Field Code	Range	Measurement uncertainty (The Confidence Level is about 95 %)	Standard/Method of Measurement etc.
AC voltage/current calibrators	40303			Alternating Voltage
AC Voltage		(20 ~ 30) mV		Measurement Standard,
		10 Hz	6.8×10^{-4}	Reference Multimeter,
		(10 ~ 40) Hz	2.7×10^{-4}	Current Shunt/
		40 Hz ~ 1 kHz	1.9×10^{-4}	SICT-CP-40303
		(1 ~ 20) kHz	6.5×10^{-4}	
		(20 ~ 100) kHz	1.6×10^{-3}	
		(30 ~ 40) mV		
		10 Hz	5.4×10^{-4}	
		(10 ~ 40) Hz	2.3×10^{-4}	
		40 Hz ~ 1 kHz	1.7×10^{-4}	
		(1 ~ 20) kHz	5.8×10^{-4}	
		(20 ~ 100) kHz	1.4×10^{-3}	
		(40 ~ 50) mV		
		10 Hz	4.6×10^{-4}	
		(10 ~ 40) Hz	2.1×10^{-4}	
		40 Hz ~ 1 kHz	1.6×10^{-4}	
		(1 ~ 20) kHz	5.3×10^{-4}	
		(20 ~ 100) kHz	1.3×10^{-3}	
		(50 ~ 60) mV		
		10 Hz	4.1×10^{-4}	
		(10 ~ 40) Hz	1.9×10^{-4}	
		40 Hz ~ 1 kHz	1.5×10^{-4}	
		(1 ~ 20) kHz	5.0×10^{-4}	
		(20 ~ 100) kHz	1.2×10^{-3}	
		(70 ~ 90) mV		
		10 Hz	3.7×10^{-4}	
		(10 ~ 40) Hz	1.8×10^{-4}	
		40 Hz ~ 1 kHz	1.5×10^{-4}	
		(1 ~ 20) kHz	4.8×10^{-4}	
		(20 ~ 100) kHz	1.1×10^{-3}	
		(90 ~ 100) mV		
		10 Hz	3.0×10^{-4}	
		(10 ~ 40) Hz	1.6×10^{-4}	
		40 Hz ~ 1 kHz	1.4×10^{-4}	
		(1 ~ 20) kHz	4.4×10^{-4}	
		(20 ~ 100) kHz	1.0×10^{-3}	
		(100 ~ 200) mV		
		10 Hz	2.3×10^{-4}	
		(10 ~ 40) Hz	1.4×10^{-4}	
		40 Hz ~ 1 kHz	1.3×10^{-4}	
		(1 ~ 20) kHz	3.9×10^{-4}	
		(20 ~ 100) kHz	9.3×10^{-4}	
		(200 ~ 300) mV		
		10 Hz	8.6×10^{-4}	
		(10 ~ 40) Hz	2.5×10^{-4}	
		40 Hz ~ 1 kHz	2.0×10^{-4}	
		(1 ~ 20) kHz	4.1×10^{-4}	
		(20 ~ 100) kHz	1.4×10^{-3}	

403. AC voltage, current & power

Measured Quantity Instrument or Gauge	Field Code	Range	Measurement uncertainty (The Confidence Level is about 95 %)	Standard/Method of Measurement etc.
AC voltage/current calibrators	40303			Alternating Voltage
AC Voltage		(300 mV ~ 0.4 V)		Measurement Standard,
		10 Hz	6.6×10^{-4}	Reference Multimeter,
		(10 ~ 40) Hz	2.1×10^{-4}	Current Shunt/
		40 Hz ~ 1 kHz	1.6×10^{-4}	SICT-CP-40303
		(1 ~ 20) kHz	3.6×10^{-4}	
		(20 ~ 100) kHz	1.2×10^{-3}	
		(0.4 ~ 0.9) V		
		10 Hz	5.7×10^{-4}	
		(10 ~ 40) Hz	1.9×10^{-4}	
		40 Hz ~ 1 kHz	1.6×10^{-4}	
		(1 ~ 20) kHz	3.3×10^{-4}	
		(20 ~ 100) kHz	1.2×10^{-3}	
		(0.9 ~ 2) V		
		10 Hz	4.1×10^{-4}	
		(10 ~ 40) Hz	1.6×10^{-4}	
		40 Hz ~ 1 kHz	1.1×10^{-4}	
		(1 ~ 20) kHz	2.8×10^{-4}	
		(20 ~ 100) kHz	8.2×10^{-4}	
		(2 ~ 3) V		
		10 Hz	8.6×10^{-4}	
		(10 ~ 40) Hz	2.3×10^{-4}	
		40 Hz ~ 1 kHz	2.0×10^{-4}	
		(1 ~ 20) kHz	4.1×10^{-4}	
		(20 ~ 100) kHz	1.4×10^{-3}	
		(3 ~ 9) V		
		10 Hz	6.6×10^{-4}	
		(10 ~ 40) Hz	2.0×10^{-4}	
		40 Hz ~ 1 kHz	1.6×10^{-4}	
		(1 ~ 20) kHz	3.6×10^{-4}	
		(20 ~ 100) kHz	1.2×10^{-3}	
		(9 ~ 20) V		
		10 Hz	4.1×10^{-4}	
		(10 ~ 40) Hz	1.5×10^{-4}	
		40 Hz ~ 1 kHz	1.1×10^{-4}	
		(1 ~ 20) kHz	2.9×10^{-4}	
		(20 ~ 100) kHz	8.4×10^{-4}	
		(20 ~ 30) V		
		10 Hz	8.8×10^{-4}	
		(10 ~ 40) Hz	2.5×10^{-4}	
		40 Hz ~ 1 kHz	2.0×10^{-4}	
		(1 ~ 20) kHz	4.1×10^{-4}	
		(20 ~ 100) kHz	1.4×10^{-3}	
		(30 ~ 90) V		
		10 Hz	6.8×10^{-4}	
		(10 ~ 40) Hz	2.1×10^{-4}	
		40 Hz ~ 1 kHz	1.6×10^{-4}	
		(1 ~ 20) kHz	3.6×10^{-4}	
		(20 ~ 100) kHz	1.2×10^{-3}	

403. AC voltage, current & power

Measured Quantity Instrument or Gauge	Field Code	Range	Measurement uncertainty (The Confidence Level is about 95 %)	Standard/Method of Measurement etc.
AC voltage/current calibrators	40303			Alternating Voltage
AC Voltage		(90 ~ 200) V		Measurement Standard,
		10 Hz	8.6×10^{-4}	Reference Multimeter,
		(10 ~ 40) Hz	2.3×10^{-4}	Current Shunt/
		40 Hz ~ 1 kHz	2.0×10^{-4}	SICT-CP-40303
		(1 ~ 20) kHz	4.1×10^{-4}	
		(20 ~ 100) kHz	1.4×10^{-3}	
		(200 ~ 300) V		
		50 Hz ~ 1 kHz	1.7×10^{-4}	
		(300 ~ 1 000) V		
		50 Hz	1.3×10^{-4}	
		50 Hz ~ 1 kHz	1.2×10^{-4}	
AC Current		(100 μA)		
		10 Hz	7.1×10^{-4}	
		10 Hz ~ 1 kHz	5.6×10^{-4}	
		(1 ~ 5) kHz	7.1×10^{-4}	
		(5 ~ 10) kHz	2.3×10^{-3}	
		(100 μA ~ 1 mA)		
		10 Hz	6.2×10^{-4}	
		10 Hz ~ 1 kHz	5.5×10^{-4}	
		(1 ~ 5) kHz	6.4×10^{-4}	
		(5 ~ 10) kHz	2.1×10^{-3}	
		(1 ~ 10) mA		
		10 Hz	6.2×10^{-4}	
		10 Hz ~ 1 kHz	5.5×10^{-4}	
		(1 ~ 5) kHz	6.2×10^{-4}	
		(5 ~ 10) kHz	3.2×10^{-3}	
		(10 ~ 100) mA		
		10 Hz	6.3×10^{-4}	
		10 Hz ~ 1 kHz	5.4×10^{-4}	
		(1 ~ 5) kHz	6.1×10^{-4}	
		(5 ~ 10) kHz	1.5×10^{-3}	
		(100 mA ~ 1 A)		
		40 Hz ~ 1 kHz	9.8×10^{-4}	
		(1 ~ 5) kHz	1.2×10^{-3}	
		(5 ~ 10) kHz	8.1×10^{-3}	
		(1 ~ 10) A		
		(40 ~ 100) Hz	1.3×10^{-3}	
		100 Hz ~ 1 kHz	1.5×10^{-3}	
		(10 ~ 20) A		
		(40 ~ 100) Hz	1.6×10^{-3}	
		100 Hz ~ 1 kHz	1.7×10^{-3}	

403. AC voltage, current & power

Measured Quantity Instrument or Gauge	Field Code	Range	Measurement uncertainty (The Confidence Level is about 95 %)	Standard/Method of Measurement etc.
Power factor meters	40310			Power Calibrator/
AC Power Factor		(50 ~ 60) Hz		SICT-CP-40310
		-1 ~ 1	2.1×10^{-4}	
		-0.9 , 0.9	2.7×10^{-4}	
		-0.8 , 0.8	3.2×10^{-4}	
		-0.7 , 0.7	4.2×10^{-4}	
		-0.6 , 0.6	4.4×10^{-4}	
		-0.5 , 0.5	4.6×10^{-4}	
		-0.4 , 0.4	4.8×10^{-4}	
		-0.3 , 0.3	4.9×10^{-4}	
		-0.2 , 0.2	5.0×10^{-4}	
		-0.1 , 0.1	5.0×10^{-4}	
AC power meters	40311			Power Calibrator, Calibrator/
AC Voltage		(50 ~ 60) Hz		SICT-CP-40311
		3 mV	8 μV	
		(3 ~ 10) mV	9.6×10^{-4}	
		(10 ~ 20) mV	5.6×10^{-4}	
		(20 ~ 40) mV	4.4×10^{-4}	
		(40 ~ 60) mV	3.8×10^{-4}	
		(60 ~ 90) mV	3.2×10^{-4}	
		(90 ~ 100) mV	2.4×10^{-4}	
		(100 ~ 200) mV	2.4×10^{-4}	
		(200 ~ 300) mV	1.6×10^{-4}	
		(300 ~ 400) mV	1.3×10^{-4}	
		(400 ~ 600) mV	1.2×10^{-4}	
		(600 ~ 700) mV	1.1×10^{-4}	
		(700 ~ 900) mV	1.0×10^{-4}	
		900 mV ~ 1 V	9.9×10^{-5}	
		(1 ~ 5) V	1.2×10^{-4}	
		(5 ~ 10) V	9.8×10^{-5}	
		(10 ~ 20) V	2.2×10^{-4}	
		(20 ~ 30) V	1.8×10^{-4}	
		(30 ~ 40) V	1.5×10^{-4}	
		(40 ~ 70) V	1.4×10^{-4}	
		(70 ~ 100) V	1.2×10^{-4}	
		(100 ~ 300) V	1.6×10^{-4}	
		(300 ~ 400) V	1.3×10^{-4}	
		(400 ~ 500) V	1.2×10^{-4}	
		(500 ~ 800) V	1.1×10^{-4}	
		(800 ~ 1 000) V	1.0×10^{-4}	
AC Current		(50 ~ 60) Hz		
		100 μA	0.27 μA	
		(100 ~ 200) μA	2.0×10^{-3}	
		(200 ~ 400) μA	1.8×10^{-3}	
		(400 ~ 500) μA	1.6×10^{-3}	
		(500 ~ 700) μA	1.5×10^{-3}	
		(700 ~ 900) μA	1.4×10^{-3}	
		900 μA ~ 1 mA	3.2×10^{-4}	
		(1 ~ 2) mA	3.5×10^{-4}	
		(2 ~ 5) mA	2.7×10^{-4}	
		(5 ~ 8) mA	2.5×10^{-4}	
		(8 ~ 10) mA	2.2×10^{-4}	
		(10 ~ 15) mA	4.4×10^{-4}	
		(15 ~ 20) mA	3.5×10^{-4}	
		(20 ~ 30) mA	3.6×10^{-4}	

403. AC voltage, current & power

Measured Quantity Instrument or Gauge	Field Code	Range	Measurement uncertainty (The Confidence Level is about 95 %)	Standard/Method of Measurement etc.
AC power meters	40311			Power Calibrator, Calibrator/ SICT-CP-40311
AC Current		(30 ~ 40) mA	3.0×10^{-4}	
		(40 ~ 60) mA	2.7×10^{-4}	
		(60 ~ 70) mA	2.4×10^{-4}	
		(70 ~ 100) mA	2.3×10^{-4}	
		(100 ~ 150) mA	2.7×10^{-4}	
		(150 ~ 300) mA	2.5×10^{-4}	
		(300 ~ 800) mA	2.2×10^{-4}	
		(800 mA ~ 2 A)	2.1×10^{-4}	
		(2 ~ 3) A	3.4×10^{-4}	
		(3 ~ 4) A	2.9×10^{-4}	
		(4 ~ 5) A	2.6×10^{-4}	
		(5 ~ 6) A	3.3×10^{-4}	
		(6 ~ 10) A	3.1×10^{-4}	
		(10 ~ 15) A	6.2×10^{-4}	
		(15 ~ 20) A	5.7×10^{-4}	
		(20 ~ 30) A	5.2×10^{-4}	
		(30 ~ 40) A	5.0×10^{-4}	
		(40 ~ 500) A	1.3×10^{-3}	
		(500 ~ 800) A	1.4×10^{-3}	
		(800 ~ 1 000) A	1.3×10^{-3}	
AC Wattage		(50 ~ 60) Hz		
		24 mW	0.42 mW	
		(24 ~ 72) mW	5.8×10^{-3}	
		(72 ~ 120) mW	3.5×10^{-3}	
		(120 ~ 480) mW	2.9×10^{-3}	
		480 mW ~ 2.4 W	1.1×10^{-3}	
		(2.4 ~ 24) W	4.9×10^{-4}	
		(24 ~ 120) W	2.1×10^{-4}	
		(120 ~ 240) W	2.3×10^{-4}	
		(240 ~ 480) W	2.6×10^{-4}	
		(480 ~ 600) W	2.0×10^{-4}	
		(600 ~ 960) W	2.4×10^{-4}	
		960 W ~ 1.2 kW	2.0×10^{-4}	
		(1.2 ~ 2.4) kW	3.0×10^{-4}	
		(2.4 ~ 4.8) kW	6.4×10^{-4}	
		(4.8 ~ 9.6) kW	5.8×10^{-4}	
		(9.6 ~ 120) kW	1.3×10^{-3}	
Frequency		25 Hz	9.1 mHz	
		(25 ~ 60) Hz	1.7×10^{-4}	
		(60 ~ 100) Hz	6.0×10^{-4}	
		(100 ~ 200) Hz	3.9×10^{-4}	
		(200 ~ 400) Hz	2.7×10^{-4}	
		(400 ~ 1 000) Hz	1.3×10^{-3}	
Power Factor		(50 ~ 60) Hz		
		240 mW		
		-1 ~ 1	3.1×10^{-4}	
		-0.8, 0.8	3.9×10^{-4}	
		-0.5, 0.5	4.6×10^{-4}	
		-0.3, 0.3	5.6×10^{-4}	
		-0.1, 0.1	5.7×10^{-4}	
		240 mW ~ 120 kW		
		-1 ~ 1	2.1×10^{-4}	
		-0.8, 0.8	3.2×10^{-4}	
		-0.5, 0.5	4.6×10^{-4}	
		-0.3, 0.3	4.9×10^{-4}	
		-0.1, 0.1	5.0×10^{-4}	

403. AC voltage, current & power

Measured Quantity Instrument or Gauge	Field Code	Range	Measurement uncertainty (The Confidence Level is about 95 %)	Standard/Method of Measurement etc.
AC power supplies	40312			Voltage Standard, Multimeter,
AC Voltage		100 mV		Current Shunt/
		40 Hz ~ 1 kHz	2.7×10^{-4}	SICT-CP-40312
		(100 mV ~ 10 V)		
		40 Hz ~ 1 kHz	1.3×10^{-4}	
		(10 ~ 100) V		
		50 Hz ~ 1 kHz	1.4×10^{-4}	
		(100 ~ 500) V		
		40 Hz ~ 5 kHz	1.3×10^{-4}	
		(100 ~ 1 000) V		
		40 Hz ~ 5 kHz	1.4×10^{-4}	
Frequency		10 Hz	1.3×10^{-4}	
		10 Hz ~ 5 kHz	1.2×10^{-4}	
AC Current		(50 ~ 60) Hz		
		(1 mA)	3.7×10^{-3}	
		1 mA ~ 1 A	2.4×10^{-3}	
		(1 ~ 5) A	2.6×10^{-3}	
		(5 ~ 8) A	2.9×10^{-3}	
		(8 ~ 10) A	2.5×10^{-3}	
Puncture/safety testers	40313			AC/DC Kilovoltmeter,
DC Voltage		0.1 kV	2.8 V	High Voltage Digital Meter,
		(0.1 ~ 0.5) kV	1.0×10^{-2}	Reference Multimeter/
		(0.5 ~ 1) kV	6.6×10^{-3}	SICT-CP-40313
		(1 ~ 2) kV	4.8×10^{-3}	
		(2 ~ 3) kV	4.2×10^{-3}	
		(3 ~ 4) kV	3.9×10^{-3}	
		(4 ~ 5) kV	3.7×10^{-3}	
		(5 ~ 6) kV	3.6×10^{-3}	
		(6 ~ 10) kV	3.4×10^{-3}	
AC Voltage		60 Hz		
		0.1 kV	2.4 V	
		(0.1 ~ 0.5) kV	7.4×10^{-3}	
		(0.5 ~ 1) kV	4.8×10^{-3}	
		(1 ~ 2) kV	3.5×10^{-3}	
		(2 ~ 4) kV	3.0×10^{-3}	
		(4 ~ 5) kV	2.8×10^{-3}	
		(5 ~ 10) kV	2.6×10^{-3}	
AC Breaking Current		60 Hz		
		0.1 mA	0.67 μA	
		(0.1 ~ 0.5) mA	1.5×10^{-3}	
		(0.5 ~ 1) mA	8.2×10^{-4}	
		(1 ~ 2) mA	5.3×10^{-4}	
		(2 ~ 5) mA	8.3×10^{-4}	
		(5 ~ 10) mA	5.5×10^{-4}	
		(10 ~ 20) mA	5.3×10^{-3}	
		(20 ~ 100) mA	8.3×10^{-4}	

403. AC voltage, current & power

Measured Quantity Instrument or Gauge	Field Code	Range	Measurement uncertainty (The Confidence Level is about 95 %)	Standard/Method of Measurement etc.
Puncture/safety testers	40313			AC/DC Kilovoltmeter,
DC Breaking Current		0.1 mA	0.61 μA	High Voltage Digital Meter,
		(0.1 ~ 0.5) mA	1.2×10^{-3}	Reference Multimeter/
		(0.5 ~ 1) mA	6.1×10^{-4}	SICT-CP-40313
		(1 ~ 2) mA	3.1×10^{-4}	
		(2 ~ 5) mA	1.5×10^{-4}	
		(5 ~ 10) mA	7.7×10^{-5}	
		(10 ~ 20) mA	3.2×10^{-4}	
		(20 ~ 50) mA	1.8×10^{-4}	
		(50 ~ 100) mA	6.2×10^{-4}	
Resistance		1 mΩ	0.84 μΩ	
		1 mΩ ~ 10 mΩ	7.0×10^{-4}	
		10 mΩ ~ 100 kΩ	6.5×10^{-4}	
Insulation Voltage		1 V	0.62 mV	
		(1 ~ 10) V	1.2×10^{-4}	
		(10 ~ 25) V	2.8×10^{-4}	
		(25 ~ 50) V	1.7×10^{-4}	
		(50 ~ 100) V	1.2×10^{-4}	
		(100 ~ 250) V	2.8×10^{-4}	
		(250 ~ 500) V	1.7×10^{-4}	
		(500 ~ 1 000) V	1.2×10^{-4}	
		(1 000 ~ 2 000) V	6.9×10^{-3}	
Insulation Resistance		1 kΩ	0.14 Ω	
		(1 ~ 100) kΩ	1.3×10^{-4}	
		100 kΩ ~ 1 MΩ	1.0×10^{-4}	
		(1 ~ 10) MΩ	9.1×10^{-4}	
		(10 ~ 100) MΩ	2.0×10^{-4}	
		100 MΩ ~ 1 GΩ	2.6×10^{-4}	
		(1 ~ 10) GΩ	9.1×10^{-3}	
		(10 ~ 100) GΩ	1.5×10^{-3}	
		100 GΩ ~ 1 TΩ	2.8×10^{-3}	
Leakage current(DC)		30 μA	29 nA	
		(30 ~ 100) μA	7.3×10^{-4}	
		100 μA ~ 10 mA	6.4×10^{-4}	
		(10 ~ 50) mA	2.2×10^{-4}	
Leakage current(AC)		60 Hz		
		30 μA	0.16 μA	
		(30 ~ 100) μA	2.7×10^{-3}	
		100 μA ~ 1 mA	1.5×10^{-3}	
		(1 ~ 10) mA	9.3×10^{-4}	
		(10 ~ 50) mA	9.5×10^{-4}	
Timer		1 s	5.8 μs	
		(1 ~ 100) s	5.8×10^{-6}	
		(100 ~1 000) s	8.2×10^{-6}	
		(1 000 ~10 000) s	5.8×10^{-5}	
Output AC Current		60 Hz		
		1 A	2.9 mA	
		(1 ~ 5) A	2.1×10^{-3}	
		(5 ~ 10) A	2.0×10^{-3}	
		(10 ~ 20) A	3.0×10^{-3}	
		(20 ~ 30) A	4.0×10^{-3}	
		(30 ~ 50) A	3.1×10^{-3}	
		(50 ~ 60) A	7.8×10^{-3}	

403. AC voltage, current & power

Measured Quantity Instrument or Gauge	Field Code	Range	Measurement uncertainty (The Confidence Level is about 95 %)	Standard/Method of Measurement etc.
Power recorders	40314			Power Energy Calibrator/
AC Wattage		(50 ~ 60) Hz		SICT-CP-40314
		240 mW	1.4 mW	
		240 mW ~ 1.2 W	3.2×10^{-3}	
		(1.2 ~ 60) W	4.9×10^{-4}	
		60 W ~ 2.4 kW	3.0×10^{-4}	
		(2.4 ~ 9.6) kW	6.4×10^{-4}	
		(9.6 ~ 120) kW	3.5×10^{-3}	
AC voltmeters	40318			Reference Multimeter,
AC Voltage		1 mV		Calibrator/
		50 Hz ~ 1 kHz	7.4×10^{-3}	SICT-CP-40318
		(1 ~ 10) kHz	8.7×10^{-3}	
		(10 ~ 100) kHz	3.2×10^{-2}	
		(1 ~ 3) mV		
		50 Hz ~ 1 kHz	2.6×10^{-3}	
		(1 ~ 10) kHz	3.0×10^{-3}	
		(10 ~ 100) kHz	1.2×10^{-2}	
		(3 ~ 10) mV		
		50 Hz ~ 1 kHz	9.6×10^{-4}	
		(1 ~ 10) kHz	1.0×10^{-3}	
		(10 ~ 100) kHz	6.1×10^{-3}	
		(10 ~ 30) mV		
		50 Hz ~ 1 kHz	4.3×10^{-4}	SICT-CP-40318
		(1 ~ 10) kHz	4.4×10^{-4}	
		(10 ~ 100) kHz	4.6×10^{-3}	
		(30 ~ 100) mV		
		50 Hz ~ 10 kHz	2.8×10^{-4}	
		(10 ~ 100) kHz	1.3×10^{-3}	
		(100 ~ 300) mV		
		50 Hz ~ 1 kHz	2.0×10^{-4}	
		(1 ~ 10) kHz	2.4×10^{-4}	
		(10 ~ 100) kHz	1.4×10^{-3}	
		(300 mV ~ 1 V)		
		50 Hz ~ 1 kHz	2.5×10^{-4}	
		(1 ~ 10) kHz	2.6×10^{-4}	
		(10 ~ 100) kHz	1.0×10^{-3}	
				SICT-CP-40318
		(1 ~ 3) V		
		50 Hz ~ 10 kHz	2.1×10^{-4}	
		(10 ~ 100) kHz	1.0×10^{-3}	
		(3 ~ 10) V		
		50 Hz ~ 1 kHz	2.4×10^{-4}	
		(1 ~ 10) kHz	2.5×10^{-4}	
		(10 ~ 100) kHz	1.2×10^{-3}	

403. AC voltage, current & power

Measured Quantity Instrument or Gauge	Field Code	Range	Measurement uncertainty (The Confidence Level is about 95 %)	Standard/Method of Measurement etc.
AC voltmeters	40318			Reference Multimeter,
AC Voltage		(10 ~ 30) V		Calibrator/
		50 Hz ~ 1 kHz	2.0×10^{-4}	SICT-CP-40318
		(1 ~ 10) kHz	2.2×10^{-4}	
		50 Hz ~ 100 kHz	1.2×10^{-3}	
		(30 ~ 100) V		
		50 Hz ~ 1 kHz	2.4×10^{-4}	
		(1 ~ 10) kHz	2.5×10^{-4}	
		50 Hz ~ 100 kHz	2.9×10^{-3}	
		(100 ~ 1 000) V		
		50 Hz ~ 1 kHz	3.6×10^{-4}	
AC Output Voltage		(50 Hz ~ 1 kHz)		
		1 mV	5.4 μV	
		(1 ~ 10) mV	7.8×10^{-4}	
		(10 ~ 100) mV	2.0×10^{-4}	
		100 mV ~ 1 V	1.1×10^{-4}	
DC Output Voltage		1 mV	0.86 μV	
		(1 ~ 10) mV	8.7×10^{-5}	
		(10 ~ 100) mV	1.4×10^{-5}	
		100 mV ~ 1 V	9.0×10^{-5}	
Line frequency meters	40410			Calibrator/
Frequency		10 Hz	6.1 mHz	SICT-CP-40410
		(10 ~ 60) Hz	1.5×10^{-4}	
		(60 ~ 400) Hz	1.2×10^{-4}	
		400 Hz ~ 1 kHz	1.4×10^{-4}	
Leakage current testers	40416			Calibrator/
DC Current		(±)		SICT-CP-40416
		0 μA	9 nA	
		(0 ~ 5) μA	1.9×10^{-3}	
		(5 ~ 10) μA	9.9×10^{-4}	
		(10 ~ 30) μA	3.7×10^{-4}	
		(30 ~ 50) μA	2.4×10^{-4}	
		(50 ~ 100) μA	1.6×10^{-4}	
		(100 ~ 200) μA	1.3×10^{-4}	
		(200 ~ 500) μA	8.1×10^{-5}	
		(0.5 ~ 1) mA	6.1×10^{-4}	
		(1 ~ 2) mA	3.2×10^{-4}	
		(2 ~ 5) mA	1.5×10^{-4}	
		(5 ~ 10) mA	6.1×10^{-4}	
		(10 ~ 15) mA	4.1×10^{-4}	
		(15 ~ 20) mA	3.1×10^{-4}	
AC Current		(30 μA)		
		50 Hz ~ 1 kHz	0.16 μA	
		(30 ~ 50) μA		
		50 Hz ~ 1 kHz	3.9×10^{-3}	
		(50 ~ 100) μA		
		50 Hz ~ 1 kHz	2.7×10^{-3}	

403. AC voltage, current & power

Measured Quantity Instrument or Gauge	Field Code	Range	Measurement uncertainty (The Confidence Level is about 95 %)	Standard/Method of Measurement etc.
Leakage current testers	40416			Calibrator/
AC Current		(100 ~ 200) μA		SICT-CP-40416
		50 Hz ~ 1 kHz	2.1×10^{-3}	
		(200 ~ 500) μA		
		50 Hz ~ 1 kHz	1.6×10^{-3}	
		(0.5 ~ 1) mA		
		50 Hz ~ 1 kHz	6.9×10^{-4}	
		(1 ~ 2) mA		
		50 Hz ~ 1 kHz	4.7×10^{-4}	
		(2 ~ 5) mA		
		50 Hz ~ 1 kHz	3.0×10^{-3}	
		(5 ~ 10) mA		
		50 Hz ~ 1 kHz	8.2×10^{-4}	
		(10 ~ 20) mA		
		50 Hz ~ 1 kHz	5.3×10^{-4}	
		(20 ~ 30) mA		
		50 Hz ~ 1 kHz	1.2×10^{-4}	
DC Voltage		0 V	61 μV	
		(0 ~ 0.1) V	6.1×10^{-4}	
		(0.1 ~ 0.2) V	3.1×10^{-4}	
		(0.2 ~ 0.5) V	1.2×10^{-4}	
		(0.5 ~ 1) V	6.1×10^{-4}	
		(1 ~ 2) V	3.1×10^{-4}	
		(2 ~ 5) V	1.2×10^{-4}	
		(5 ~ 10) V	6.2×10^{-5}	
		(10 ~ 20) V	3.3×10^{-5}	
		(20 ~ 50) V	1.7×10^{-5}	
		(50 ~ 100) V	1.2×10^{-5}	
		(100 ~ 200) V	3.4×10^{-5}	
		(200 ~ 300) V	2.5×10^{-5}	
		(300 ~ 500) V	1.2×10^{-4}	
		(500 ~ 1 000) V	6.2×10^{-5}	
AC Voltage		(0.1 V)		
		50 Hz ~ 1 kHz	6.5×10^{-4}	
		(1 ~ 20) kHz	6.6×10^{-4}	
		(20 ~ 50) kHz	7.8×10^{-4}	
		(50 ~ 100) kHz	1.4×10^{-3}	
		(0.1 ~ 1) V		
		50 Hz ~ 1 kHz	1.2×10^{-4}	
		(1 ~ 20) kHz	1.3×10^{-4}	
		(20 ~ 50) kHz	1.8×10^{-4}	
		(50 ~ 100) kHz	3.8×10^{-4}	

403. AC voltage, current & power

Measured Quantity Instrument or Gauge	Field Code	Range	Measurement uncertainty (The Confidence Level is about 95 %)	Standard/Method of Measurement etc.
Leakage current testers	40416			Calibrator/
AC Voltage		(1 ~ 10) V		SICT-CP-40416
		50 Hz ~ 1 kHz	1.2×10^{-4}	
		(1 ~ 20) kHz	1.3×10^{-4}	
		(20 ~ 50) kHz	1.8×10^{-4}	
		(50 ~ 100) kHz	3.4×10^{-4}	
		(10 ~ 100) V		
		50 Hz ~ 1 kHz	1.3×10^{-4}	
		(1 ~ 20) kHz	1.2×10^{-4}	
		(20 ~ 50) kHz	3.0×10^{-4}	
		(50 ~ 100) kHz	6.8×10^{-4}	
		(100 ~ 300) V		
		50 Hz ~ 1 kHz	3.1×10^{-4}	
		(1 ~ 10) kHz	3.4×10^{-4}	
		(10 ~ 20) kHz	5.5×10^{-4}	
		(300 ~ 1 000) V		
		50 Hz ~ 10 kHz	3.7×10^{-4}	
Output Resistance		100 mΩ	8.6 μΩ	
		100 mΩ ~ 1 Ω	6.3×10^{-5}	
		1 Ω ~ 10 kΩ	6.2×10^{-5}	
Input Resistance		100 mΩ	24 μΩ	
		100 mΩ ~ 100 Ω	2.4×10^{-4}	
		100 Ω ~ 10 kΩ	6.3×10^{-5}	
Electronic AC/DC loads	40417			Calibrator/
DC Voltage		100 mV	6.3 μV	SICT-CP-40417
		(0.1 ~ 1) V	6.2×10^{-5}	
		(1 ~ 2) V	3.2×10^{-5}	
		(2 ~ 4) V	2.3×10^{-5}	
		(4 ~ 6) V	1.5×10^{-5}	
		(6 ~ 8) V	1.2×10^{-5}	
		(8 ~ 10) V	1.1×10^{-5}	
		(10 ~ 50) V	3.3×10^{-5}	
		(50 ~ 100) V	1.2×10^{-5}	
		(100 ~ 200) V	3.6×10^{-5}	
		(200 ~ 400) V	2.6×10^{-5}	
		(400 ~ 1 000) V	1.7×10^{-5}	
DC Current		100 mA	44 μA	
		100 mA ~ 0.2 A	4.8×10^{-4}	
		(0.2 ~ 0.4) A	4.2×10^{-4}	
		(0.4 ~ 0.6) A	3.8×10^{-4}	
		(0.6 ~ 2) A	3.7×10^{-4}	
		(2 ~ 20) A	8.1×10^{-4}	
`		(20 ~ 80) A	4.2×10^{-4}	
		(80 ~ 100) A	4.1×10^{-4}	

404. Other DC & LF measurements

Measured Quantity Instrument or Gauge	Field Code	Range	Measurement uncertainty (The Confidence Level is about 95 %)	Standard/Method of Measurement etc.
Electronic AC/DC loads	40417			Calibrator/
AC Voltage		(50 ~ 60) Hz		SICT-CP-40417
		0.1 V	0.61 mV	
		(0.1 ~ 0.2) V	3.1×10^{-3}	
		(0.2 ~ 0.5) V	1.2×10^{-3}	
		(0.5 ~ 1) V	6.2×10^{-4}	
		(1 ~ 10) V	3.5×10^{-4}	
		(10 ~ 100) V	2.2×10^{-4}	
		(100 ~ 200) V	1.9×10^{-4}	
		(200 ~ 500) V	2.0×10^{-4}	
AC Current		(50 ~ 60) Hz		
		100 mA	2.5 mA	
		100 mA ~ 0.3 A	3.9×10^{-3}	
		(0.3 ~ 0.4) A	3.2×10^{-3}	
		(0.4 ~ 0.5) A	2.7×10^{-3}	
		(0.5 ~ 0.6) A	3.5×10^{-3}	
		(0.6 ~ 0.8) A	3.1×10^{-3}	
		(0.8 ~ 2) A	2.7×10^{-3}	
		(2 ~ 4) A	3.5×10^{-3}	
		(4 ~ 5) A	2.6×10^{-3}	
		(5 ~ 7) A	3.5×10^{-3}	
		(7 ~ 9) A	2.9×10^{-3}	
		(9 ~ 10) A	2.5×10^{-3}	
		(10 ~ 13) A	4.5×10^{-3}	
		(13 ~ 16) A	3.7×10^{-3}	
		(16 ~ 20) A	3.2×10^{-3}	
Analogue/Digital multimeters	40419			Calibrator/
DC Voltage		(±)		SICT-CP-40419
		0 mV	0.7 μV	
		(0 ~ 1) mV	7.7×10^{-4}	
		(1 ~ 2) mV	3.9×10^{-4}	
		(2 ~ 5) mV	1.6×10^{-4}	
		(5 ~ 10) mV	8.4×10^{-5}	
		(10 ~ 20) mV	4.6×10^{-5}	
		(20 ~ 50) mV	2.4×10^{-5}	
		(50 ~ 100) mV	1.6×10^{-5}	
		100 mV ~ 0.2 V	1.7×10^{-5}	
		(0.2 ~ 0.5) V	1.1×10^{-5}	
		(0.5 ~ 1) V	9.4×10^{-6}	
		(1 ~ 2) V	1.2×10^{-5}	
		(2 ~ 5) V	9.3×10^{-6}	
		(5 ~ 10) V	8.6×10^{-6}	
		(10 ~ 20) V	1.6×10^{-5}	
		(20 ~ 50) V	1.2×10^{-5}	
		(50 ~ 100) V	1.0×10^{-5}	
		(100 ~ 200) V	1.8×10^{-5}	
		(200 ~ 500) V	1.2×10^{-5}	
		(500 ~ 1 000) V	1.1×10^{-5}	

404. Other DC & LF measurements

Measured Quantity Instrument or Gauge	Field Code	Range	Measurement uncertainty (The Confidence Level is about 95 %)	Standard/Method of Measurement etc.
Analogue/Digital multimeters	40419			Calibrator/
AC Voltage		(3 mV)		SICT-CP-40419
		50 Hz ~ 1 kHz	10 μV	
		(3 ~ 10) mV		
		50 Hz ~ 10 kHz	9.0×10^{-4}	
		(10 ~ 20) kHz	1.3×10^{-3}	
		(20 ~ 50) kHz	1.3×10^{-3}	
		(50 ~ 100) kHz	2.1×10^{-3}	
		(10 ~ 100) mV		
		50 Hz ~ 10 kHz	2.5×10^{-4}	
		(10 ~ 20) kHz	2.7×10^{-4}	
		(20 ~ 50) kHz	5.4×10^{-4}	
		(50 ~ 100) kHz	1.4×10^{-3}	
		(0.1 ~ 1) V		
		50 Hz ~ 10 kHz	1.1×10^{-4}	
		(10 ~ 20) kHz	1.3×10^{-4}	
		(20 ~ 50) kHz	2.0×10^{-4}	
		(50 ~ 100) kHz	4.2×10^{-4}	
		(1 ~ 10) V		
		50 Hz ~ 10 kHz	1.1×10^{-4}	
		(10 ~ 20) kHz	1.3×10^{-4}	
		(20 ~ 50) kHz	2.0×10^{-4}	
		(50 ~ 100) kHz	3.8×10^{-4}	
		(10 ~ 100) V		
		50 Hz ~ 20 kHz	1.2×10^{-4}	
		(20 ~ 50) kHz	3.4×10^{-4}	
		(50 ~ 100) kHz	8.1×10^{-4}	
		(100 ~ 300) V		
		50 Hz ~ 1 kHz	2.3×10^{-4}	
		(1 ~ 10) kHz	2.7×10^{-4}	
		(10 ~ 20) kHz	5.1×10^{-4}	
		(300 ~ 1 000) V		
		50 Hz ~ 10 kHz	3.6×10^{-4}	
Resistance		0 Ω	85 μΩ	
		(0 ~ 1) Ω	1.3×10^{-4}	
		(1 ~ 10) Ω	3.4×10^{-5}	
		(10 ~ 100) Ω	2.0×10^{-5}	
		100 Ω ~ 1 kΩ	1.6×10^{-5}	
		(1 ~ 10) kΩ	1.4×10^{-5}	
		(10 ~ 100) kΩ	1.7×10^{-5}	
		100 kΩ ~ 1 MΩ	2.4×10^{-5}	
		(1 ~ 10) MΩ	5.0×10^{-5}	
		(10 ~ 100) MΩ	1.3×10^{-4}	

404. Other DC & LF measurements

Measured Quantity Instrument or Gauge	Field Code	Range	Measurement uncertainty (The Confidence Level is about 95 %)	Standard/Method of Measurement etc.
Analogue/Digital multimeters	40419			Calibrator/
DC Current		(±)		SICT-CP-40419
		10 μA	10 nA	
		(10 ~ 20) μA	5.2×10^{-4}	
		(20 ~ 50) μA	2.5×10^{-4}	
		(50 ~ 100) μA	1.5×10^{-4}	
		(0.1 ~ 0.2) mA	1.0×10^{-4}	
		(0.2 ~ 0.5) mA	8.1×10^{-5}	
		(0.5 ~ 1) mA	6.8×10^{-5}	
		(1 ~ 2) mA	9.0×10^{-5}	
		(2 ~ 5) mA	8.1×10^{-5}	
		(5 ~ 10) mA	6.8×10^{-5}	
		(10 ~ 20) mA	9.0×10^{-5}	
		(20 ~ 50) mA	9.2×10^{-5}	
		(50 ~ 100) mA	8.0×10^{-5}	
		(0.1 ~ 0.2) A	9.8×10^{-5}	
		(0.2 ~ 0.5) A	1.5×10^{-4}	
		(0.5 ~ 1) A	1.2×10^{-4}	
		(1 ~ 2) A	4.6×10^{-4}	
		(2 ~ 5) A	7.4×10^{-4}	
		(5 ~ 10) A	6.5×10^{-4}	
		(10 ~ 20) A	1.2×10^{-3}	
AC Current		(30 μA)		
		50 Hz ~ 1 kHz	0.16 μA	
		(30 ~ 50) μA		
		50 Hz ~ 1 kHz	3.9×10^{-3}	
		(50 ~ 100) μA		
		50 Hz ~ 1 kHz	2.7×10^{-3}	
		(0.1 ~ 0.2) mA		
		50 Hz ~ 1 kHz	3.6×10^{-5}	
		(0.2 ~ 0.5) mA		
		50 Hz ~ 1 kHz	4.9×10^{-5}	
		(0.5 ~ 1) mA		
		50 Hz ~ 1 kHz	2.4×10^{-4}	
		(1 ~ 2) mA		
		50 Hz ~ 1 kHz	3.0×10^{-4}	
		(2 ~ 5) mA		
		50 Hz ~ 1 kHz	1.4×10^{-4}	
		(5 ~ 10) mA		
		50 Hz ~ 1 kHz	7.2×10^{-5}	
		(10 ~ 20) mA		
		50 Hz ~ 1 kHz	3.0×10^{-4}	

404. Other DC & LF measurements

Measured Quantity Instrument or Gauge	Field Code	Range	Measurement uncertainty (The Confidence Level is about 95 %)	Standard/Method of Measurement etc.
Analogue/Digital multimeters	40419			Calibrator/
AC Current		(20 ~ 50) mA		SICT-CP-40419
		50 Hz ~ 1 kHz	1.4×10^{-4}	
		(50 ~ 100) mA		
		50 Hz ~ 1 kHz	7.2×10^{-5}	
		100 mA ~ 0.2 A		
		50 Hz ~ 1 kHz	4.5×10^{-4}	
		(0.2 ~ 0.5) A		
		50 Hz ~ 1 kHz	2.6×10^{-4}	
		(0.5 ~ 1) A		
		50 Hz ~ 1 kHz	1.3×10^{-4}	
		(1 ~ 2) A		
		50 Hz ~ 1 kHz	7.6×10^{-4}	
		(2 ~ 5) A		
		50 Hz ~ 1 kHz	1.7×10^{-3}	
		(5 ~ 10) A		
		50 Hz ~ 1 kHz	1.4×10^{-3}	
		(10 ~ 15) A		
		50 Hz ~ 1 kHz	2.1×10^{-3}	
		(15 ~ 20) A		
		50 Hz ~ 1 kHz	2.0×10^{-3}	
Frequency		10 Hz ~ 1 MHz	6.1×10^{-7}	
Oscilloscopes	40421			Calibration Generator/
Impedance Measure		50 Ω	0.7 mΩ	SICT-CP-40421
		75 Ω	0.8 mΩ	
		1 MΩ	13 Ω	
DC Voltage		1 mV	1.0 μV	
		(1 ~ 2) mV	4.9×10^{-4}	
		(2 ~ 5) mV	2.0×10^{-4}	
		(5 ~ 10) mV	1.0×10^{-4}	
		(10 ~ 20) mV	5.5×10^{-5}	
		(20 ~ 50) mV	2.7×10^{-5}	
		(50 ~ 100) mV	1.8×10^{-5}	
		100 mV ~ 0.5 V	1.6×10^{-5}	
		(0.5 ~ 1) V	9.4×10^{-6}	
		(1 ~ 2) V	1.1×10^{-5}	
		(2 ~ 5) V	9.2×10^{-6}	
		(5 ~ 10) V	8.6×10^{-6}	
		(10 ~ 50) V	1.2×10^{-5}	
		(50 ~ 200) V	1.5×10^{-5}	

404. Other DC & LF measurements

Measured Quantity Instrument or Gauge	Field Code	Range	Measurement uncertainty (The Confidence Level is about 95 %)	Standard/Method of Measurement etc.
Oscilloscopes	40421			Calibration Generator/
AC Voltage(Square wave)		(1 kHz)		SICT-CP-40421
		1 mV	47 μV	
		(1 ~ 2) mV	2.4×10^{-2}	
		(2 ~ 5) mV	1.0×10^{-2}	
		(5 ~ 10) mV	5.8×10^{-3}	
		(10 ~ 20) mV	3.5×10^{-3}	
		(20 ~ 50) mV	2.1×10^{-3}	
		(50 ~ 100) mV	1.6×10^{-3}	
		(100 ~ 200) mV	1.4×10^{-3}	
		(0.2 ~ 0.5) V	1.3×10^{-3}	
		(0.5 ~ 120) V	1.2×10^{-3}	
Time Marker		5 ns	16 fs	
		5 ns ~ 10 ms	3.0×10^{-6}	
		(10 ~ 20) ms	3.3×10^{-6}	
		20 ms ~ 5 s	3.3×10^{-5}	
CAL Output Amplitude		(50 Hz ~ 10 kHz)		
		100 mV	36 μV	
		(100 ~ 200) mV	2.2×10^{-4}	
		200 mV ~ 1.2 V	1.7×10^{-4}	
		(1.2 ~ 2) V	1.4×10^{-4}	
		(2 ~ 4) V	1.2×10^{-4}	
		(4 ~ 12) V	1.7×10^{-4}	
CAL Output Frequency		100 Hz ~ 10 MHz	6.5×10^{-7}	
Sine Wave Signal Generator Level		(600 mV)		
		50 kHz	25 mV	
		(0.05 ~ 100) MHz	4.5×10^{-2}	
		(100 ~ 500) MHz	7.2×10^{-2}	
		(0.5 ~ 1) GHz	1.9×10^{-2}	
		(1 ~ 3) GHz	2.3×10^{-2}	
Volt/Current recorders	40424			Calibrator/
DC Voltage		(±)		SICT-CP-40424
		0 μV	0.70 μV	
		0 μV ~ 10 mV	8.1×10^{-5}	
		(10 ~ 100) mV	1.6×10^{-5}	
		100 mV ~ 1 V	9.4×10^{-6}	
		(1 ~ 10) V	8.6×10^{-6}	
		(10 ~ 100) V	1.0×10^{-5}	
		(100 ~ 500) V	1.2×10^{-5}	
		(500 ~ 1 000) V	1.1×10^{-5}	
DC Current		(±)		
		0 μA	9.3 nA	
		(0 ~ 10) μA	9.9×10^{-4}	
		(10 ~ 100) μA	1.6×10^{-4}	
		100 μA ~ 10 mA	9.2×10^{-5}	
		10 mA ~ 1 A	2.0×10^{-4}	
		(1 ~ 10) A	6.5×10^{-4}	
		(10 ~ 20) A	1.2×10^{-3}	

501. Contact thermometry

Measured Quantity Instrument or Gauge	Field Code	Range	Measurement uncertainty (The Confidence Level is about 95 %)	Standard/Method of Measurement etc.
Temperature generators: ovens,	50101			SPRT,STANDARD TC/
furnaces, isothermal liquid baths,				SICT-CP-50101
ice-point baths, dry-block calibrators		0 ℃	0.01 ℃	
		(-90 ~ 250) ℃	0.020 ℃	
		(250 ~ 500) ℃	0.024 ℃	
		(500 ~ 650) ℃	0.028 ℃	
		(650 ~ 700) ℃	1.3 ℃	
		(700 ~ 1 300) ℃	2.6 ℃	
Temperature indicators/recorders	50102			SPRT,STANDARD TC/
/controllers, temperature calibrators				SICT-CP-50102
emperature indicators/recorders/controllers				
(With Sensor)		(-45 ~ 0) ℃	0.024 ℃	
		(0 ~ 250) ℃	0.031 ℃	
		(250 ~ 650) ℃	0.13 ℃	
		(650 ~ 900) ℃	1.4 ℃	
		(900 ~ 1 100) ℃	1.5 ℃	
		(1 100 ~ 1 300) ℃	2.6 ℃	
(Without Sensor)		(-45 ~ 0) ℃	0.013 ℃	
		(0 ~ 100) ℃	0.018 ℃	
		(100 ~ 200) ℃	0.022 ℃	
		(200 ~ 300) ℃	0.027 ℃	
		(300 ~ 400) ℃	0.031 ℃	
		(400 ~ 500) ℃	0.035 ℃	
		(500 ~ 600) ℃	0.048 ℃	
		(600 ~ 700) ℃	0.052 ℃	
		(700 ~ 800) ℃	0.057 ℃	
		(800 ~ 1 100) ℃	0.08 ℃	
		(1 100 ~ 1 300) ℃	0.09 ℃	
Glass thermometers; liquid-in-glass,	50103			SPRT/
Beckmann				SICT-CP-50103
liquid-in-glass		(-45 ~ 0) ℃	0.048 ℃	
		(0 ~ 100) ℃	0.058 ℃	
		(100 ~ 200) ℃	0.062 ℃	
Resistance thermometers; SPRT, IPRT,	50104			SPRT, Fixed point/
thermistors, etc.				SICT-CP-50104
IPRT		(-45 ~ 50) ℃	0.024 ℃	
		(50 ~ 250) ℃	0.028 ℃	
Thermal expansion thermometers;	50105			SPRT/
bimetal, gas or liquid type				SICT-CP-50105
bimetal		(-45 ~ 100) ℃	0.4 ℃	
		(100 ~ 300) ℃	0.6 ℃	
		(300 ~ 400) ℃	1.5 ℃	
		(400 ~ 650) ℃	3.2 ℃	

501. Contact thermometry

Measured Quantity Instrument or Gauge	Field Code	Range	Measurement uncertainty (The Confidence Level is about 95 %)	Standard/Method of Measurement etc.
Thermomecouples: noble metal, base metal, pure metal, special type, etc.	50106			SPRT,Fixed point, STANDARD TC/ SICT-CP-50106
Base metal		(-45 ~ 300) ℃	0.4 ℃	
		(300 ~ 400) ℃	0.6 ℃	
		(400 ~ 500) ℃	0.7 ℃	
		(500 ~ 650) ℃	0.8 ℃	
		(650 ~ 1 000) ℃	1.8 ℃	
		(1 000 ~ 1 100) ℃	2.0 ℃	
		(1 100 ~ 1 200) ℃	3.1 ℃	
		(1 200 ~ 1 300) ℃	3.6 ℃	
Temperature transducers	50107			SPRT,THERMOCOUPLE,MULTIMETER SICT-CP-50107
		(-45 ~ 100) ℃	0.05 ℃	
		(100 ~ 200) ℃	0.06 ℃	
		(200 ~ 250) ℃	0.09 ℃	
		(250 ~ 300) ℃	0.14 ℃	
		(300 ~ 500) ℃	0.16 ℃	
		(500 ~ 650) ℃	0.18 ℃	
		(650 ~ 700) ℃	1.4 ℃	
		(700 ~ 800) ℃	1.6 ℃	
		(800 ~ 1 000) ℃	1.7 ℃	
		(1 000 ~ 1 100) ℃	2.8 ℃	
		(1 100 ~ 1 300) ℃	3.0 ℃	

503. Humidity

Measured Quantity Instrument or Gauge	Field Code	Range	Measurement uncertainty (The Confidence Level is about 95 %)	Standard/Method of Measurement etc.
Relative humidity hygrometers;	50302			Dewpoint Meter/
polimer thinfilm, hair, etc.				SICT-CP-50302
humidity		(20 ~ 30) % R.H.	1.9 % R.H.	
		(30 ~ 50) % R.H.	1.6 % R.H.	
		(50 ~ 60) % R.H.	1.7 % R.H.	
		(60 ~ 70) % R.H.	1.9 % R.H.	
		(70 ~ 95) % R.H.	2.1 % R.H.	
Temperature		(-20 ~ 50) ℃	0.7 ℃	
		(50 ~ 80) ℃	0.9 ℃	
		(80 ~ 100) ℃	1.2 ℃	
Temperature humidity recorders;	50304			Dewpoint Meter/
Hygrothermograph, etc				SICT-CP-50304
Humidity		(20 ~ 30) % R.H.	2.4 % R.H.	
		(30 ~ 95) % R.H.	2.6 % R.H.	
Temperature		(-20 ~ 50) ℃	1.1 ℃	
Transducers; dew-point	50305			Dewpoint Meter/
/relative humidity				SICT-CP-50305
Humidity		(20 ~ 30) % R.H.	1.9 % R.H.	
		(30 ~ 40) % R.H.	1.6 % R.H.	
		(40 ~ 50) % R.H.	1.7 % R.H.	
		(50 ~ 60) % R.H.	1.8 % R.H.	
		(60 ~ 70) % R.H.	1.9 % R.H.	
		(70 ~ 80) % R.H.	2.0 % R.H.	
		(80 ~ 90) % R.H.	2.1 % R.H.	
		(90 ~ 95) % R.H.	2.2 % R.H.	
Temperature		(-20 ~ 50) ℃	0.7 ℃	
		(50 ~ 80) ℃	0.9 ℃	
		(80 ~ 100) ℃	1.2 ℃	
Humidity generators; two-pressure,	50306			Dewpoint Meter/
two-temperature, flow mixing humidity				SICT-CP-50306
gererator, constant temperature and				
humidity chamber, etc.				
essure/two-temperature/flow mixing humidity				
(humidity)		(10 ~ 40) % R.H.	1.8 % R.H.	
		(40 ~ 50) % R.H.	1.6 % R.H.	
		(50 ~ 60) % R.H.	1.8 % R.H.	
		(60 ~ 70) % R.H.	1.9 % R.H.	
		(70 ~ 80) % R.H.	2.1 % R.H.	
		(80 ~ 90) % R.H.	2.3 % R.H.	
		(90 ~ 95) % R.H.	2.4 % R.H.	
(Temperature)		(-75 ~ 200) ℃	0.4 ℃	