SCOPE OF ACCREDITATION TO ISO/IEC 17025-2005 & KS Q ISO/IEC 17025

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CALIBRATION

Valid To : Oct. 29. 2017 Accreditation No : KC01-018(1/123)

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

Field Code	Measured Quantity Instrument or Gauge	On-Site
102. Linear dimension		
10201	Balls	N
10203	Electrical /Mechanical comparators	Y
10206	Dial/cylinder gauge testers	N
10209	End bars	N
10210	Extensometers, lineardisplacementtransducers	Y
10211	Filler gauges	Y
10213	Gapgauges	N
10214	Gauge blocks, by comparison	N
10216	Height gauges/measuring machines	Y
10220	Measuring machines, standard	Y
10221	Micro scales/Standard scales	N
10223	Electronic micrometers	Y
10224	Heightmicrometers, Riserblocks	N
10225	Laser scan micrometers	Y
10227	Standardtaperules, Peripheralgauges	N
10228	Cylindricalplug/pingauges, Threadmeasuringwiregauges	Y
10229	Radius gauges	N
10230	Cylindrical ring gauges	N
10232	Step gauges	N
10233	Thickness gauges, taper	N
10234	Ultrasonic thickness gauges	Y
10235	Ultrasonic/coating thickness specimens	N
10236	Coating thickness testers	Y
10237	Torque arms	N
103. Angle		
10304	Bevel protractors	Y
10311	Plate/Square/Electriclevels	N
10317	Sinebars,Plates,Tables, Centers	N
10318	Squareness testers, Right angle testers	Y
10319	Cylindrical squares	N
10320	Precisionsquares	N
104. Form		
10401	Form testers	Y
10404	Optical flats	Y
10405	Optical parallels	N
10406	Parallel blocks	Y
10407	Precision surface plates	Y
10409	Roundness measurement instruments	Y
10411	Roundness standard/ Roundness magnification standard specimens	N
10412	Straight edges	Y
10413	Straight rules	N
10415	Test bars	N
105. Complex geometry		
10503	Contactcoordinatemeasuring machines	Y
10504	Non-contactcoordinate measuringmachines	Y
10505	Gauge block accessories	N
10511	Measuringmicroscopes, Profileprojectors	Y
10512	Microscopes, micro measuring	Y
10514	Taper plug gauges	N
10517	Stylus type roughness testers	Y
10519	Roughness standard /comparison specimens	N
10525	Thread plug gauges	N
10527	Thread ring gauges	N
10529	V-blocks,Boxblocks	N
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
10610	Micrometer heads	Y
10611	3-points, Micrometers	Y
10612	Inside micrometers	Y
10613	Outside micrometers	Y
10615	Particle counters	N
10617	Standard sieves	N
201. Mass		
20102	Auto-hopper scale balances	Y
20103	Auto-packer scale balances	Y
20106	Dial platform scale balances	Y
20109	Electric balances	Y
20112	Platform scale balances	Y
20113	Spring scale balances	Y
20116	Weights	Y
202. Force		
20203	Tension/compression testing machines	Y
20204	push-pull gauge	Y
203. Torque		
20302	Torque measuring devices	Y
20303	Torque wrenches/drivers	Y

Accreditation No : KC01-018(2/123)

Field Code	Measured Quantity Instrument or Gauge	On-Site
204. Pressure		
20406	Absolutepressuregauges	Y
20407	Blood pressure gauges	Y
20408	Compound pressure gauges	Y
20409	Differential pressure gauges	Y
20411	Gauge pressure gauges	Y
20412	Pressure transducers/ transmitters	Y
20413	Dial type vacuum gauges	Y
205. Vacuum		
20501	Capacitance diaphragm gauges	N
20504	Thermal conductivity gauge; Pirani, thermocouple, convectron etc.	N
20505	Standard leaks, Helium leak dectors	Y
206. Volume		
20601	Volumetric glasswares	N
20602	Pycnometers	N
20606	Piston type volume meters	N
208. Viscosity		
20802	Dynamic viscometers; rotaional, etc	N
209. Fluid flow		
20901	Anemometers; hot-wire	N
20902	Anemometers; pitot tube, etc.	N
20925	Anemometers; vane, etc	N
210. Hardness		
21002	Rockwell hardness testers	Y
21003	Shore hardness testers	Y
21004	Vickers hardness testers	Y
21005	Durometer hardness testers	N
301. Time/frequency		
30102	Frequency standards	N
30103	General frequency sources	Y
30104	Frequency meters/counters	Y
30105	Time interval sources	Y
30106	Time interval meters /Stop watches/Timers	Y
302. Velocity & revolution		
30201	Standard RPM generators	Y
30202	Contact type tachometers	Y
30203	Photo tachometers /stroboscopes	Y
30204	Speed meters	Y
30205	Wow-flutter generators	N
30206	Wow-flutter meters	Y
401. DC Voltage & current		
40101	DC ammeters	Y
40102	Transconductance amplifiers	Y
40103	DC voltage/current calibrators	Y
40104	Electricaltemperature calibrators	Y
40105	DC current shunts	Y
40106	Galvanometers /null detectors	Y
40107	Potentiometers	Y
40108	DC power supplies	Y
40110	DC voltage dividers	N
40111	DC voltage standards	N
40112	DC voltmeters	Y
40113	Static/Ionicvoltmeters	N
402. Resistance, Capacitance and Inductance		
40201	Capacitance bridges /indicators	Y
40202	Decade capacitors	Y
40204	Standard capacitors	N
40205	Earth testers	Y
40206	Inductance bridges /indicators	Y
40208	Inductors	Y
40210	Insulation testers	Y
40211	Q-meters	Y
40213	Resistance bridges & similar instruments	Y
40214	Resistance meters	Y
40215	Resistors	Y
40217	Impedance bridges/LCR meters	Y
403. AC voltage, current & power		
40301	AC ammeters	Y
40302	Clamp ammeters/voltmeters	Y
40303	AC voltage/current calibrators	Y
40304	Wattmeter calibrators	N
40305	AC current shunts	Y
40307	Voltage/current phase angle meters/synchro resolve meters	N
40308	Potential transformer test sets	Y
40309	Potential transformer	N
40310	Power factor meters	Y
40311	AC power meters	Y
40312	AC power supplies	Y
40313	Puncture/safety testers	Y
40314	Power recorders	Y
40315	Current transformer test sets	Y
40316	Current transformer	N
40318	AC voltmeters	Y
40319	Watt hour meters	N
40321	Ratio transformers	N
404. Other DC & LF Measurements		
40401	LF amplifiers	Y
40402	DC/LF attenuators	Y
40403	Multimeter calibrators	N
40404	Oscilloscope calibrators	N
40405	CD/DVD meters/analyzers	Y
40406	Video signal generators	Y
40407	Audio distortion analyzers /meters	Y
40408	LF filters	Y
40409	LF/Audiosignalanalyzers	Y
40410	Line frequency meters	Y
40411	Function generators	Y
40412	Genescopes	Y
40413	AC/DC high voltages volt meters	Y
40415	Jitter meters	Y
40416	Leakage current testers	Y
40417	Electronic AC/DC loads	Y
40418	Modulation meters	Y
40419	Analogue/Digital multimeters	Y
40420	Noise meters	Y
40421	Oscilloscopes	Y
40422	LF phase meters	Y
40424	Volt/Current recorders	Y
40425	Relay test sets	Y
40426	LF signal generators	Y
40427	LF spectrum analyzers	Y
40428	Spot generators	Y
40429	Sweep generators	Y
40430	Signal transducers	Y
40432	Transistor curve tracers	Y

Field Code	Measured Quantity Instrument or Gauge	On-Site
40434	AC/DC high voltage generators	Y
40435	AC/DC high voltage probes	N
40436	Logic analyzers	Y
40437	Telephone testers	Y
40438	Video signal analyzers	Y
405. Low frequency electric & magnetic fields		
40503	Flux meters	N
40504	Flux sources	N
40508	Magnetometers	N
40510	Reference/standard magnets	N
406. Radio frequency measurements		
40601	RF amplifiers	Y
40602	Coaxial attenuators	Y
40605	Burst pulse generators	Y
40606	Attenuator calibrators	N
40607	RF power meter calibrators	Y
40608	EMC transducers ; current probes, absorbing absorbing clamps, etc.	N
40610	Coaxial directional couplers /splitters	Y
40613	Electrostatic discharge generators	N
40614	EMC receivers	Y
40615	RF filters	Y
40616	RF impedance meters	N
40617	RF impulse generators	Y
40618	Line impedance stabilization networks ; LISN, CDN, ISN, etc.	Y
40619	Coaxialstandardmismatches	Y
40621	Mobile communication test sets	Y
40622	Modulation meters	Y
40623	Network analyzers	Y
40624	Noise figure meters	Y
40625	Noise generators	N
40626	Noise impulse simulators	Y
40627	RF phase noise meters	N
40628	Coaxial noise sources	N
40635	RF power meters	Y
40636	Diode power sensors	Y
40637	Thermocouple power sensors	Y
40638	Pulse generators	Y

Field Code	Measured Quantity Instrument or Gauge	On-Site
40640	RF signal generators	Y
40641	RF spectrum analyzers	Y
40643	Surge generators	Y
40644	SWR meters	N
40645	RF terminations	Y
40646	Coaxial thermistor mounts	Y
40650	RF voltmeters	Y
40651	Vector voltmeters	Y
40652	Field strength meters	Y
40653	AM/FM test sources	Y
40654	Dip simulators	Y
407. Field strength & antennas		
40704	Loop antennas	N
40705	Monopole antennas	N
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
50106	Thermomecouples: noble metal, base metal, pure metal, special type, etc.	Y
50107	Temperature transducers	Y
502. non contact thermometry		
50204	Standard radiation	N
50205	Thermal image apparatus	N
50206	Blackbody furnaces	Y
50207	Others ; ear thermometers, etc.	N
503. Humidity		
50301	Dew-point hygrometers; chilled mirror, alumina thinfilm, etc.	N
50302	Relative humidity hygrometers polimer thinfilm, hair, etc.	Y

Field Code	Measured Quantity Instrument or Gauge	On-Site
50303	Psychrometers; assmann ventilated, PRT type, etc.	N
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
601. Sound in air		
60106	Sound level meters	Y
603. Vibration		
60301	Vibration calibrators	N
60302	Vibration transducers	N
60303	Vibration measuring instruments	N
701. Photometry		
70101	Iluminance meters	N
70102	Luminance meters	N
70103	Total luminous flux meters	Y
70104	Luminous intensity meters	Y
702. Properties of detectos & sources		
70202	Color temperature meters	Y
70203	Color temperature standard lamps	N
70204	Colorimeters; source color	Y
70207	Laser power meters	N
70208	Standard LED light sources	Y
70209	Total luminous flux standard lamps	N
70210	Optical detectors	N
70211	Pyranometers and pyrheliometers	N
70213	Display color analyzers; luminance, chromaticity, white balance, etc.	Y
70214	Luminous intensity standard lamps	N

Field Code	Measured Quantity Instrument or Gauge	On-Site
70215	Spectral irradiance standard lamps	N
70216	Total spectral radiand flux standard lampa	N
70217	Luminance standard sources	N
70218	Spectral radiance standard lamps	N
70219	UV irradiance meters	N
70220	Spectral irradiance meters	Y
70221	Total spectral radiant flux meters	Y
70222	Spectral radiance meters	Y
703. Properties of materials		
70301	Colorimeters; material color	Y
70304	Color standard tiles	N
70306	Gloss meters	Y
70307	Gloss standard plates	Y
70308	Haze meters	Y
70315	Optical densitometers	Y
70319	Reflectance meters	Y
70323	Transmittance meters	Y
70325	Spectrophotometers including FT-IR spectrophotometers	Y
70326	Wavelength reference material absorption cell, bandpass filter, etc.	N
704. Fiber optics		
70402	Broadband light sources	Y
70410	Optical attenuators	Y
70415	Optical multimeters	Y
70417	Optical spectrum analyzers	Y
70418	Optical time domain reflectometers, OTDR	Y
70430	ASE light sources	Y
70433	Optical power stabilized lasers and LDs	Y
901. Chemical analysis		
90103	Gas analyzers	N

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-008.
3. On-site calibration is allowed to items with marking 'Y', not allowed to items with marking 'N'.
4. Calibration and Measurement Capability (CMC) means capabilities provided by accredited calibration laboratories.
   It expresses the lowest uncertainty of measurement that can be achieved during a calibration.
   CMC normally is quoted as an expanded uncerta
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 CMC on scope of accreditation in general.

102. Linear dimension

Measured Quantity Instrument or Gauge	Field Code	Range	CMC (The Confidence Level is about 95 %)	Comments
Balls	10201	(0 ~ 50) mm	$\sqrt{0.37^2 + (0.002 \times l_0)^2}$ μm	Mesuring Machine, Standard/ SICT-T100-10201
Electrical/Mechanical comparators	10203	(0 ~ 5) mm	0.14 μm	Gauge Block/ SICT-T100-10203
Dial/cylinder gauge testers	10206	(0 ~ 25) mm	$\sqrt{0.15^2 + (0.002\,8 \times l_0)^2}$ μm	Laser Measurement Machine/ SICT-T100-10206
End bars	10209	(0 ~ 500) mm	$\sqrt{0.36^2 + (0.001\,8 \times l_0)^2}$ μm	Gauge Block/ SICT-T100-10209
Extensometers, lineardisplacementtransducers	10210			Digital Multimeter/ SICT-T100-10210
cylinder type		(0 ~ 100) mm	$\sqrt{0.20^2 + (0.002\,4 \times l_0)^2}$ μm	
		(100 ~ 500) mm	$\sqrt{0.19^2 + (0.002\,2 \times l_0)^2}$ μm	
pull wire type		(0 ~ 1 000) mm	$\sqrt{0.072^2 + (0.058 \times l_0)^2}$ mV	
Filler gauges	10211	(0 ~ 10) mm	1.0 μm	Mesuring Machine, Standard/ SICT-T100-10211
Gapgauges	10213	(1 ~ 150) mm	$\sqrt{0.74^2 + (0.006 \times l_0)^2}$ μm	Gauge Block/ SICT-T100-10213
Gauge blocks, by comparison	10214	(0.5 ~ 100) mm	$\sqrt{0.80^2 + (1.3 \times l_0)^2}$ nm	Gauge Block Comparator/ SICT-T100-10214
Height gauges/measuring machines	10216	(0 ~ 1 500) mm	$\sqrt{0.80^2 + (0.003\,5 \times l_0)^2}$ μm	Gauge Block/ SICT-T100-10216
Measuring machines, standard	10220	(0 ~ 500) mm	$\sqrt{0.38^2 + (0.002 \times l_0)^2}$ μm	Gauge Block/ SICT-T100-10220
Micro scales/Standard scales	10221	(0 ~ 250) mm	$\sqrt{0.26^2 + (0.003\,1 \times l_0)^2}$ μm	Micro Scope/ SICT-T100-10221
Electronic micrometers	10223	(0 ~ 5) mm	0.14 μm	Dial Gauge Tester/ SICT-T100-10223
Heightmicrometers,Riserblocks	10224			Gauge Block/ SICT-T100-10224
Block		(0 ~ 600) mm	$\sqrt{0.78^2 + (0.001\ 9 \times l_0)^2}$ μm	
Head		(0 ~ 25) mm	0.9 μm	
Laser scan micrometers	10225	(0 ~ 40) mm	$\sqrt{0.40^2 + (0.003\,8 \times l_0)^2}$ μm	Pin Gauge/ SICT-T100-10225
Standardtaperules,Peripheralgauges	10227	(0 ~ 30) m	$\sqrt{0.064^2 + (0.002 \times l_0)^2}$ mm	Laser Measurement Machine/ SICT-T100-10227
Cylindricalplug/pingauges, Threadmeasuringwiregauges	10228			Mesuring Machine, Standard/ SICT-T100-10228
		(0.1 ~ 200) mm	$\sqrt{0.28^2 + (0.002\,2 \times l_0)^2}$ μm	
		(0.1 ~ 10) mm	0.4 μm	
Radius gauges	10229	(0 ~ 100) mm	2.2 μm	Profile Projector/ SICT-T100-10229
Cylindrical ring gauges	10230	(1.0 ~ 200) mm	$\sqrt{0.28^2 + (0.002\,2 \times l_0)^2}$ μm	Mesuring Machine, Standard/ SICT-T100-10230
Step gauges	10232	(0 ~ 1 000) mm	$\sqrt{0.84^2 + (0.002\,6 \times l_0)^2}$ μm	Gauge Block/ SICT-T100-10232
Thickness gauges, taper	10233	(0 ~ 60) mm	2.5 μm	Mesuring Microscope,Projector/ SICT-T100-10223
Ultrasonic thickness gauges	10234	(0 ~ 100) mm	$\sqrt{2.7^2 + (0.005\,2 \times l_0)^2}$ μm	Ultrasonic Tester Blocks/ SICT-T100-10234
Ultrasonic/coating thickness specimens	10235			Gauge Block,Mesuring Machine, Standard/
		(0 ~ 1.5) mm	0.7 μm	SICT-T100-10235
		(0 ~ 100) mm	$\sqrt{0.70^2 + (0.006\,2 \times l_0)^2}$ μm	
Coating thickness testers	10236	(0 ~ 1.5) mm	1.0 μm	Thickness specimens/ SICT-T100-10236
Torque arms	10237			Gauge Block/ SICT-T100-10237
Length		(0 ~ 1 000) mm	$\sqrt{0.74^2 + (0.006\,2 \times l_0)^2}$ μm	
Wires		(0 ~ 5) mm	1.0 μm	

Note 1. $l_0$unit : mm (10227 $l_0$unit : mm)

103. Angle

Measured Quantity Instrument or Gauge	Field Code	Range	CMC (The Confidence Level is about 95 %)	Comments
Bevel protractors	10304	(0 ~ 90)°	0.9'	Angle Gauge Block/ SICT-T100-10304
Plate/Square/Electriclevels	10311			Laser Measurement System/
Angle		(0 ~ 516) ″	0.4 ″	SICT-T100-10311
		(516 ~ 1 000) ″	1.2 ″	
Inclino meter		(0 ~ 90)°	0.07'	
Squareness		(0 ~ 400) mm	1.8 μm	
Sinebars,Plates,Tables,Centers	10317			Mesuring Machine, Standard/
(Sinebars)				SICT-T100-10317
Center length		(50 ~ 300) mm	$\sqrt{0.7^2 + (0.002 \times l_0)^2}$ μm	
Parallelism		(50 ~ 300) mm	1.0 μm	
(Plates)				
Center length		(50 ~ 300) mm	$\sqrt{0.16^2 + (0.028 \times l_0)^2}$ μm	
Flatness		(300 × 300) mm	1.0 μm	
Parallelism		(50 ~ 300) mm	1.2 μm	
Squareness testers, Right angle testers	10318	(10 ~ 300) mm	2.1 μm	Cylinderical Square/ SICT-T100-10318
Cylindrical squares	10319	(50 ~ 300) mm	1.4 μm	Cylinderical Square/ SICT-T100-10319
Precisionsquares	10320			Height Measuring Machine/
		(0 ~ 600) mm	1.8 μm	SICT-T100-10320

Note 1. l_0 unit : mm

104. Form

Measured Quantity Instrument or Gauge	Field Code	Range	CMC (The Confidence Level is about 95 %)	Comments
Form testers	10401			Roundness Siemens/
Curvature		(0.5 ~ 22) mm	1.2 μm	SICT-T100-10401
Height length		(0 ~ 50) mm	1.1 μm	
Width		(0 ~ 50) mm	1.2 μm	
Optical flats	10404	ø(0 ~ 60) mm	0.04 μm	Optical Flat/
		ø(60 ~ 100) mm	0.10 μm	SICT-T100-10404
Optical parallels	10405			Optical Flat/
Flatness		ø(0 ~ 25) mm	0.04 μm	SICT-T100-10405
Parallelism		ø(0 ~ 25) mm	0.06 μm	
Parallel blocks	10406			Electronic Micrometer/
Parallelism		(50 ~ 2 000) mm	2.2 μm	SICT-T100-10406
Flatness		(50 ~ 2 000) mm	2.2 μm	
Precision surface plates	10407			Electronic Level/
Flatness		(0 ~ 2 500) cm^2	1.6 μm	SICT-T100-10407
		(2 500 ~ 5 000) cm^2	1.8 μm	
		(5 000 ~ 10 000) cm^2	2.2 μm	
		(10 000 ~ 15 000) cm^2	2.4 μm	
		(15 000 ~ 20 000) cm^2	2.6 μm	
		(20 000 ~ 30 000) cm^2	3.0 μm	
		(30 000 ~ 40 000) cm^2	3.2 μm	
		(40 000 ~ 50 000) cm^2	3.2 μm	
		(50 000 ~ 100 000) cm^2	3.8 μm	
Roundness measurement instruments	10409			Roundness Standard Ball/
Detoctor accuracy		(0 ~ 200) mm	0.50 μm	SICT-T100-10409
Rotational accuracy of spindle		(0 ~ 200) mm	0.046 μm	
Roundness standard/Roundness magnification standard specimens	10411			Roundness Tester/
Standard specimens		(0 ~ 300) μm	0.50 μm	SICT-T100-10411
Standard ball		(0 ~ 50) mm	0.08 μm	

104. Form

Measured Quantity Instrument or Gauge	Field Code	Range	CMC (The Confidence Level is about 95 %)	Comments
Straight edges	10412			Electronic Micrometer/
		(0 ~ 250) mm	1.5 μm	SICT-T100-10412
		(0 ~ 500) mm	0.6 μm	
		(500 ~ 750) mm	0.7 μm	
		(750 ~ 1 000) mm	0.8 μm	
		(1 000 ~ 1 500) mm	0.9 μm	
		(1 500 ~ 2 000) mm	1.0 μm	
Straight rules	10413			Coordinate Measure Machine/ SICT-T100-10413
Length		(0 ~ 1 000) mm	$\sqrt{2.4^2 + (0.005\,6 \times l_0)^2}$ μm	
Straightness		(0 ~ 1 000) mm	1.8 μm	
Test bars	10415	(10 ~ 250) mm	0.50 μm	Roundness Tester/ SICT-T100-10415

Note 1. $l_0$unit : mm

105. Complex geometry

Measured Quantity Instrument or Gauge	Field Code	Range	CMC (The Confidence Level is about 95 %)	Comments
Contactcoordinatemeasuringmachines	10503	(0 ~ 1 500) mm	$\sqrt{0.56^2 + (0.004\,4 \times l_0)^2}$ μm	Step Gauge/ SICT-T100-10503
Non-contactcoordinatemeasuringmachines	10504	(0 ~ 1 000) mm	$\sqrt{0.43^2 + (0.003\,4 \times l_0)^2}$ μm	Standard Scale/ SICT-T100-10504
Gauge block accessories	10505			Gauge Block/
Round the ministry of Justice		(0 ~ 50) mm	$\sqrt{0.22^2 + (0.004\,2 \times l_0)^2}$ μm	SICT-T100-10505
A he ministry of Justice,Base block		(0 ~ 50) mm	$\sqrt{0.214^2 + (0.004\,2 \times l_0)^2}$ μm	
Center point		(0 ~ 50) mm	1.2 μm	
Plane figure		(0 ~ 50) mm	0.04 μm	
Parallelism(triangle edge)		(0 ~ 300) mm	0.37 μm	
Parallelism(equilibrium tide)		(0 ~ 300) mm	0.42 μm	
Measuringmicroscopes,Profileprojectors	10511			Standard Scale/
Length		(0 ~ 500) mm	$\sqrt{0.43^2 + (0.003\,4 \times l_0)^2}$ μm	SICT-T100-10511
Magnification		×2 ~ ×10 000	5×10^{-4}	
Squareness		(0 ~ 500) mm	2.3 μm	
Right angle		(0 ~ 360) °	0.9'	
Microscopes, micro measuring	10512			Standard Scale/
		(0 ~ 1) mm	1.3 μm	SICT-T100-10512
		(0 ~ 50) mm	3.0 μm	
Taper plug gauges	10514			Measuring Machine, Standard/ SICT-T100-10514
Small end diameter		(2 ~ 200) mm	$\sqrt{1.0^2 + (0.004\,9 \times l_0)^2}$ μm	
Big end diameter		(2 ~ 200) mm	$\sqrt{1.1^2 + (0.004\,9 \times l_0)^2}$ μm	
Plane angle		(0.5 ~ 140) °	$\sqrt{17^2 + (0.085 \times l_0)^2} \times 10^{-6}$rad	
Gage height		(2 ~ 200) mm	$\sqrt{1.1^2 + (0.004\,4 \times l_o)^2}$ μm	
Stylus type roughness testers	10517			Roughness Specimen/
Ra		(0 ~ 2) μm	8 nm	SICT-T100-10517
		(2 ~ 10) μm	26 nm	
R_z		(0 ~ 7) μm	37 nm	
		(7 ~ 30) μm	0.37 μm	
RSm		(0 ~ 300) μm	1.2 μm	
H,D		(0 ~ 6) μm	63 nm	
		(6 ~ 20) μm	88 nm	

105. Complex geometry

Measured Quantity Instrument or Gauge	Field Code	Range	CMC (The Confidence Level is about 95 %)	Comments
Roughness standard/comparison specimens	10519			Roughness Tester/
A형(H)		(0 ~ 6) μm	$\sqrt{(13\times R)^2+28^2}$ nm	SICT-T100-10519
		(6 ~ 20) μm	$\sqrt{(8.3\times R)^2+34^2}$ nm	
C형(RSm)		(0 ~ 300) μm	$\sqrt{(0.013\times R)^2+1.1^2}$ μm	
D형(Ra)		(0 ~ 2) μm	$\sqrt{(13\times R)^2+8.8^2}$ nm	
		(2 ~ 10) μm	$\sqrt{(12\times R)^2+16^2}$ nm	
(Rz)		(0 ~ 7) μm	$\sqrt{(16.\times R)^2+30^2}$ nm	
		(7 ~ 30) μm	$\sqrt{(0.043\times R)^2+0.21^2}$ nm	
Thread plug gauges	10525			Measuring Machine, Standard/
Outside diameter		(1.0 ~ 105) mm	0.88 μm	SICT-T100-10525
Effective diameter		(1.0 ~ 105) mm	1.7 μm	
Pitch		(0.3 ~ 6) mm	0.7 μm	
Half angle		(0.5 ~ 45) °	2'	
Thread ring gauges	10527			Measuring Machine, Standard/
Bore diameter		(5 ~ 100) mm	1.4 μm	SICT-T100-10527
Effective diameter		(5 ~ 100) mm	2.1 μm	
Pitch		(0.7 ~ 6) mm	2.1 μm	
V-blocks,Boxblocks	10529			Coordnate Measur Machine/
Plane figure		(Φ5 ~ Φ150) mm	1.8 μm	SICT-T100-10529
Parallelism		(Φ5 ~ Φ150) mm	1.8 μm	

Note 1. $l_0$unit : mm

106. Various dimensional

Measured Quantity Instrument or Gauge	Field Code	Range	CMC (The Confidence Level is about 95 %)	Comments
Inside/Outside/Geartoothcalipers, Calipergauges	10601			Gauge Block/
Inside/Outsidecalipers		(0 ~ 1 500) mm	$\sqrt{8.2^2+(0.007\times l_0)^2}$ μm	SICT-T100-10601
Calipergauges		(0 ~ 150) mm	$\sqrt{2.8^2+(0.007\times l_0)^2}$ μm	
Cylinder/bore gauges	10603	(0 ~ 1 000) mm	0.7 μm	Dial Gauge Tester/ SICT-T100-10603
Depthgauges,Depthmicrometers	10604			Gauge Block/
Depth gauge		(0 ~ 600) mm	$\sqrt{6.1^2+(0.008\,2\times l_0)^2}$ μm	SICT-T100-10604
Depth micrometers		(0 ~ 300) mm	$\sqrt{0.86^2+(0.003\,2\times l_0)^2}$ μm	
Dial/digital gauges	10605			Dial Gauge Tester/
		(0.000 1 ~ 100) mm	$\sqrt{0.38^2+(0.002\,2\times l_0)^2}$ μm	
Microindicators,Testindicators	10609			Dial Gauge Tester/ SICT-T100-10609
Micro Indicators		(0 ~ 5) mm	0.20 μm	
Micrometer heads	10610	(0 ~ 50) mm	0.7 μm	Gauge Block/ SICT-T100-10610
3-points, Micrometers	10611	(2 ~ 200) mm	$\sqrt{0.68^2+(0.003\,6\times l_0)^2}$ μm	Ring Gauge/ SICT-T100-10611
Inside micrometers	10612			Gauge Block/
Inside micrometer		(5 ~ 300) mm	$\sqrt{0.65^2+(0.004\,2\times l_0)^2}$ μm	SICT-T100-10612
bar type micrometer(Accuracy of scale)		(25 ~ 500) mm	$\sqrt{0.65^2+(0.004\,2\times l_0)^2}$ μm	
bar type micrometer(Length of extension bars)		(13 ~ 500) mm	$\sqrt{1.3^2+(0.005\,2\times l_0)^2}$ μm	

Note 1. $l_0$unit : mm

106. Various dimensional

Measured Quantity Instrument or Gauge	Field Code	Range	CMC (The Confidence Level is about 95 %)	Comments
Outside micrometers	10613			Gauge Block/
Outside micrometers		(0 ~ 600) mm	$\sqrt{0.6^2 + (0.002\,6 \times l_0)^2}$ μm	SICT-T100-10613
V-anvil micrometers		(0 ~ 40) mm	0.7 μm	
Particle counters	10615			
(Air)		(0.1 ~ 25) μm		Particle calibration system/
Flow		(0 ~ 100) L/min	0.12 L/min	SICT-T100-10615
Threshold voltage		(0 ~ 10) V	0.42 mV	
Counting efficiency		(0 ~ 110) %	5.5 %	
(Liquid)		(0.05 ~ 25) μm		
Flow		(0 ~ 100) mL/min	1.4 mL/min	
Threshold voltage		(0 ~ 10) V	0.42 mV	
Standard sieves	10617			Micro Scope/
Sieve opening		(0.02 ~ 230) mm	3.7 μm	SICT-T100-10617
Wire rod diameter		(0.02 ~ 10) mm	2.4 μm	

201. Mass

Measured Quantity Instrument or Gauge	Field Code	Range	CMC (The Confidence Level is about 95 %)	Comments
Auto-hopper scale balances	20102	(0 ~ 10) kg	1.6 g	Hopper Scale Weight/
		(10 ~ 50) kg	15 g	SICT-T100-20102
		(50 ~ 200) kg	30 g	
		(200 ~ 500) kg	49 g	
		(500 ~ 1 000) kg	97 g	
Auto-packer scale balances	20103	(0 ~ 5) kg	1.4 g	Weight/
		(5 ~ 10) kg	1.6 g	SICT-T100-20103
		(10 ~ 50) kg	14 g	
		(50 ~ 200) kg	27 g	
Dial platform scale balances	20106	(0 ~ 30) kg	43 g	Weight/
		(30 ~ 60) kg	62 g	SICT-T100-20106
		(60 ~ 100) kg	0.21 kg	
Electric balances	20109	(0 ~ 2) g	21 μg	Weight/
		(2 ~ 20) g	29 μg	SICT-T100-20109
		(20 ~ 200) g	0.11 mg	
		(200 ~ 400) g	0.25 mg	
		(400 ~ 2 000) g	1.1 mg	
		(2 ~ 10) kg	5.8 mg	
		(10 ~ 30) kg	68 mg	
		(30 ~ 60) kg	0.23 g	
		(60 ~ 300) kg	0.86 g	
		(300 ~ 500) kg	14 g	
		(500 ~ 1 000) kg	33 g	
Platform scale balances	20112	(0 ~ 200) kg	31 g	Weight/
		(200 ~ 500) kg	62 g	
		(500 ~ 1 000) kg	0.16 kg	SICT-T100-20112
Spring scale balances	20113	(0 ~ 10) kg	16 g	Weight/
		(10 ~ 50) kg	62 g	SICT-T100-20113
Weights	20116	(1 mg ~ 20 kg)	(less than class F1)	Weight/
		1 mg	2.4 μg	SICT-T100-20116
		2 mg	2.4 μg	
		5 mg	2.4 μg	
		10 mg	3.3 μg	
		20 mg	3.3 μg	
		50 mg	4.2 μg	
		100 mg	5.2 μg	
		200 mg	6.1 μg	
		500 mg	8.1 μg	

201. Mass

Measured Quantity Instrument or Gauge	Field Code	Range	CMC (The Confidence Level is about 95 %)	Comments
Weights	20116	(1 mg ~ 20 kg)	(less than class F1)	Weight/ SICT-T100-20116
		1 g	10 μg	
		2 g	13 μg	
		5 g	16 μg	
		10 g	25 μg	
		20 g	30 μg	
		50 g	36 μg	
		100 g	55 μg	
		200 g	0.10 mg	
		500 g	0.33 mg	
		1 kg	0.57 mg	
		2 kg	1.0 mg	
		5 kg	4.2 mg	
		10 kg	6.3 mg	
		20 kg	18 mg	

202. Force

Measured Quantity Instrument or Gauge	Field Code	Range	CMC (The Confidence Level is about 95 %)	Comments
Tension/compression testing machines	20203			Load Cell/
tensile		0.1 N ~ 2 kN	1.2×10^{-3}	SICT-T100-20203
compression		(5 ~ 50) N	1.0×10^{-3}	
		(50 ~ 100) N	1.3×10^{-3}	
		(100 ~ 200) N	1.0×10^{-3}	
		(250 ~ 500) N	1.5×10^{-3}	
		(0.5 ~ 1) kN	1.3×10^{-3}	
		(1 ~ 2) kN	1.7×10^{-3}	
		(2.5 ~ 5) kN	1.4×10^{-3}	
		(5 ~ 10) kN	1.0×10^{-3}	
		(10 ~ 20) kN	1.4×10^{-3}	
		(25 ~ 50) kN	1.3×10^{-3}	
		(50 ~ 100) kN	1.5×10^{-3}	
push-pull gauge	20204			Calibrator(Weight,jig)/
		0.1 N ~ 2 kN	1.0×10^{-3}	SICT-T100-20204

203. Torque

Measured Quantity Instrument or Gauge	Field Code	Range	CMC (The Confidence Level is about 95 %)	Comments
Torque measuring devices	20302			Torque Calibration System/
		(0.01 ~ 5) N·m	5.3×10^{-3}	SICT-T100-20302
		(5 ~ 10) N·m	2.5×10^{-4}	
		(10 ~ 20) N·m	3.2×10^{-4}	
		(25 ~ 50) N·m	2.9×10^{-4}	
		(50 ~ 100) N·m	2.9×10^{-4}	
		(100 ~ 200) N·m	1.4×10^{-4}	
Torque wrenches/drivers	20303			Torque Tranducer/
		(0.1 ~ 1) N·m	6.9×10^{-3}	SICT-T100-20303
		(1.25 ~ 2.5) N·m	6.7×10^{-3}	
		(3 ~ 10) N·m	4.3×10^{-3}	
		(12.5~ 25) N·m	4.5×10^{-3}	
		(30 ~ 100) N·m	3.9×10^{-3}	
		(100 ~ 200) N·m	3.1×10^{-3}	
		(250 ~ 500) N·m	3.7×10^{-3}	
		(500 ~ 1 000) N·m	4.4×10^{-3}	

204. Pressure

Measured Quantity Instrument or Gauge	Field Code	Range	CMC (The Confidence Level is about 95 %)	Comments
Absolutepressuregauges	20406			Digital Manometer,
Barometer		50 kPa abs ~ 130 kPa abs	6.5×10^{-5}	Air Dead Weight Tester/
Dail,digital		5 kPa abs ~ 7 MPa abs	6.4×10^{-5}	SICT-T100-20406
Blood pressure gauges	20407			Digital Manometer/
Air		0 kPa ~ 40 kPa	1.5×10^{-3}	SICT-T100-20407
Compound pressure gauges	20408			Air Dead Weight Tester/
Air		-95 kPa ~ 1 000 kPa	5.8×10^{-4}	SICT-T100-20408
Differential pressure gauges	20409			Digital Manometer,
Air		0 kPa ~ 2 kPa	1.3×10^{-4}	Air Dead Weight Tester/
		2 kPa ~ 2 000 kPa	6.5×10^{-5}	SICT-T100-20409
Gauge pressure gauges	20411			Digital Manometer,
Air		0 kPa ~ 2 kPa	1.4×10^{-4}	Air Dead Weight Tester,
		2 kPa ~ 7 MPa	6.4×10^{-5}	Oil Dead Weight Tester/
Hydraulic		0.1 MPa ~ 10 MPa	1.0×10^{-4}	SICT-T100-20411
		10 MPa ~ 100 MPa	9.7×10^{-5}	
Pressure transducers/transmitters	20412			Digital Manometer,
Air		0 kPa ~ 2 kPa	1.6×10^{-4}	Air Dead Weight Tester,
		2 kPa ~ 7 MPa	1.1×10^{-4}	Oil Dead Weight Tester/
Hydraulic		0 MPa ~ 10 MPa	1.3×10^{-4}	
		10 MPa ~ 100 MPa	1.3×10^{-4}	SICT-T100-20412
Dial type vacuum gauges	20413			Air Dead Weight Tester,
Air		-95 kPa ~ 0 kPa	1.3×10^{-3}	SICT-T100-20413

205. Vacuum

Measured Quantity Instrument or Gauge	Field Code	Range	CMC (The Confidence Level is about 95 %)	Comments
Capacitance disphragm gauges	20501			Baratron gauge / SICT-T100-20501
		0.133 Pa abs ~ 13.3 Pa abs	0.08 Pa abs	
		13.3 Pa abs ~ 133.3 Pa abs	0.96 Pa abs	
		133.3 Pa abs ~ 1.333 kPa abs	1.4 Pa abs	
		1.333 kPa abs ~ 133.3 kPa abs	0.11 kPa abs	
Thermal conductivity gauges; pirani,thermocouple,convectron etc.	20504			Baratron gauge / SICT-T100-20501
		0.133 Pa abs ~ 13.3 Pa abs	0.08 Pa abs	
		13.3 Pa abs ~ 133.3 Pa abs	0.96 Pa abs	
		133.3 Pa abs ~ 1.333 kPa abs	1.4 Pa abs	
		1.333 kPa abs ~ 133.3 kPa abs	0.11 kPa abs	
Standard leaks, Helium leak dectors	20505			Standard leaks, Helium leak dectors / SICT-T100-20505
		6.05 nPa m^3/s	1.2 nPa m^3/s	SICT-T100-20505
		0.014 4 μPa m^3/s	0.003 μPa m^3/s	
		0.372 μPa m^3/s	0.076 μPa m^3/s	
		1.95 μPa m^3/s	0.4 μPa m^3/s	

206. Volume

Measured Quantity Instrument or Gauge	Field Code	Range	CMC (The Confidence Level is about 95 %)	Comments
Volumetric glasswares	20601			Weight,balances /
		(0-2) ml	2.8 µl	SICT-T100-20601
		(2-10) ml	6.0 µl	
		(10-25) ml	9.6 µl	
		(25-50) ml	15 µl	
		(50-100) ml	19 µl	
		(100-250) ml	52 µl	
		(250-500) ml	85 µl	
		(500-1 000) ml	0.13 ml	
		(1 000-2 000) ml	0.21 ml	
Pycnometers	20602			Weight,balances /
		(0-50) ml	1.0 µl	SICT-T100-20602
		(50-100) ml	1.4 µl	
		(100-500) ml	31 µl	
Piston type volume meters	20606			Weight,balances /
		(0 ~ 2) µl	0.009 µl	SICT-T100-20606
		(2 ~ 5) µl	0.010 µl	
		(5 ~ 10) µl	0.013 µl	
		(0.01 ~ 0.02) ml	0.027 µl	
		(0.02 ~ 0.05) ml	0.065 µl	
		(0.05 ~ 0.1) ml	0.092 µl	
		(0.1 ~ 0.2) ml	0.14 µl	
		(0.2 ~ 0.5) ml	0.35 µl	
		(0.5 ~ 1) ml	0.71 µl	
		(1 ~ 2) ml	1.7 µl	
		(2 ~ 5) ml	2.1 µl	
		(5 ~ 10) ml	2.9 µl	
		(10 ~ 20) ml	5.7 µl	
		(20 ~ 50) ml	15 µl	
		(50 ~ 100) ml	66 µl	

208. Viscosity

Measured Quantity Instrument or Gauge	Field Code	Range	CMC (The Confidence Level is about 95 %)	Comments
Dynamic viscometers; rotaional, etc	20802			Viscosity CRM/
Viscosity		(2.5 ~ 50 000) mPa·s	1.0×10^{-2}	
		(50 000 ~ 200 000) mPa·s	1.1×10^{-2}	SICT-T100-20802

209. Fluid flow

Measured Quantity Instrument or Gauge	Field Code	Range	CMC (The Confidence Level is about 95 %)	Comments
Anemometers; hot-wire	20901			Wind Tunnel/
Velocity		(2 ~ 5) m/s	1.9×10^{-2}	SICT-T100-20901
		(5 ~ 30) m/s	1.1×10^{-2}	
Anemometers; pitot tube, etc.	20902			Wind Tunnel/
Velocity		(2 ~ 5) m/s	1.9×10^{-2}	SICT-T100-20902
		(5 ~ 30) m/s	1.1×10^{-2}	
Anemometers; vane, etc	20925			Wind Tunnel/
Velocity		(2 ~ 5) m/s	1.9×10^{-2}	SICT-T100-20925
		(5 ~ 30) m/s	1.1×10^{-2}	

210. Hardness

Measured Quantity Instrument or Gauge	Field Code	Range	CMC (The Confidence Level is about 95 %)	Comments
Rockwell hardness testers	21002			Rockwell Hardness Specimen/ SICT-T100-21002
		(20 ~ 30) HRC	0.45 HRC	
		(35 ~ 55) HRC	0.45 HRC	
		(60 ~ 70) HRC	0.44 HRC	
		(20 ~ 45) HRB	0.73 HRB	
		(50 ~ 80) HRB	0.68 HRB	
		(80 ~ 100) HRB	0.65 HRB	
Shore hardness testers	21003			Shore Hardness Specimen/ SICT-T100-21003
		(0 ~ 40) HS	1.0 HS	
		(45 ~ 70) HS	1.3 HS	
		(70 ~ 100) HS	1.1 HS	
Vickers hardness testers	21004			Vickers Hardness Specimen/ SICT-T100-21004
		(150 ~ 250) HV	7.1 HV	
		(300 ~ 550) HV	17 HV	
		(600 ~ 900) HV	31 HV	
Durometer hardness testers	21005			STD Rubber Hardness Tester/ SICT-T100-21005
HD		(0 ~ 100) HD	0.42 HD	

301. Time/frequency

Measured Quantity Instrument or Gauge	Field Code	Range	CMC (The Confidence Level is about 95 %)	Comments
Frequency standards	30102			GPS Receiver, Universal Counter/ SICT-T100-30102
Time Base Frequency		(0.1 ~ 10) MHz		
		1 s	1.3×10^{-11}	
		10 s	7.4×10^{-12}	
		100 s	6.0×10^{-12}	
General frequency sources	30103			GPS Receiver, Universal Counter/ SICT-T100-30103
Time Base Frequency Test		(0.1 ~ 100) MHz		
		1 s	1.3×10^{-11}	
		10 s	7.4×10^{-12}	
		100 s	6.0×10^{-12}	
Frequency meters/counters	30104			GPS Receiver, Universal Counter/ SICT-T100-30104
Time Base Frequency		(1 ~ 10) MHz		
		1 s	1.3×10^{-11}	
		10 s	7.4×10^{-12}	
		100 s	6.0×10^{-12}	
Input Frequency		0.1 MHz ~ 27 GHz	1.4×10^{-11}	
		(27 ~ 40) GHz	1.9×10^{-11}	
Time interval sources	30105			GPS Receiver, Universal Counter/ SICT-T100-30105
Period		1 ns ~ 10 s	6.2×10^{-5}	
Time interval meters /Stop watches/Timers	30106			Stop Watch Calibrator/ SICT-T100-30106
Trigger Voltage		-5 V ~ 5 V	1.2×10^{-4}	
Period		5 ns ~ 100 ns	6.2×10^{-5} ns	
Reference Frequency		1 MHz ~ 10 MHz	6.2×10^{-11}	
Relative Time		86 400 s	8.3×10^{-8}	
		2 592 000 s	1.2×10^{-7}	
Timer		1 s ~ 100 s	5.8×10^{-6}	
		100 s ~ 1 000 s	8.2×10^{-6}	
		1 000 s ~ 10 000 s	5.8×10^{-5}	

302. Velocity & revolution

Measured Quantity Instrument or Gauge	Field Code	Range	CMC (The Confidence Level is about 95 %)	Comments
Standard RPM generators	30201			GPS Receiver, Synthesizer Function Generator/
Revolution Velocity Measurement		(300 ~ 3 800) min^{-1}	6.2 × 10-4 min^{-1}	SICT-T100-30201
Revolution Velocity Measurement		(100 ~ 1 000) min^{-1}	0.052 min^{-1}	
(Centrifuge)		(1 000 ~ 3 000) min^{-1}	0.12 min^{-1}	
		(3 000 ~ 7 000) min^{-1}	0.40 min^{-1}	
		(7 000 ~ 10 000) min^{-1}	0.54 min^{-1}	
		(10 000 ~ 14 000) min^{-1}	0.44 min^{-1}	
		(14 000 ~ 20 000) min^{-1}	0.70 min^{-1}	
		(20 000 ~ 30 000) min^{-1}	3.6 min^{-1}	
		(30 000 ~ 40 000) min^{-1}	4.8 min^{-1}	
		(40 000 ~ 50 000) min^{-1}	5.8 min^{-1}	
		(50 000 ~ 60 000) $rmin^{-1}$	7.0 min^{-1}	
		(60 000 ~ 70 000) min^{-1}	8.2 min^{-1}	
		(70 000 ~ 80 000) min^{-1}	9.4 min^{-1}	
		(80 000 ~ 90 000) min^{-1}	10 min^{-1}	
		(90 000 ~ 99 000) min^{-1}	11 min^{-1}	
Contact type tachometers	30202			GPS Receiver, Tachometer Cal
Revolution Velocity Measurement		(300 ~ 900) min^{-1}	6.2 × 10^{-3} min^{-1}	System/
		(900 ~ 3 800) min^{-1}	6.2 × 10^{-2} min^{-1}	SICT-T100-30202
Photo tachometers/stroboscopes	30203			GPS Receiver, Photo Signal
Revolution Velocity Measurement		(6 ~ 999.99) min^{-1}	6.2 × 10^{-3} min^{-1}	Detector/
(Photo-tachometer)		(1 000.0 ~ 99 999.9) min^{-1}	6.2 × 10^{-2} min^{-1}	SICT-T100-30203
		(100 000 ~ 600 000) min^{-1}	6.2 × 10^{-1} min^{-1}	
Revolution Velocity Measurement		(60 ~ 9 000) min^{-1}	5.8 × 10^{-3} min^{-1}	
(Stroboscope)		(9 000 ~ 90 000) min^{-1}	5.8 × 10^{-2} min^{-1}	
		(90 000 ~ 500 000) min^{-1}	0.58 min^{-1}	
Speed meters	30204			GPS Receiver, Synthesizer Function Generator/
Speed Test		(0 ~ 400) km/h	6.2 × 10^{-3} km/h	SICT-T100-30204
Wow-flutter generators	30205			GPS Receiver, Universal
Carrier Frequency		1 Hz ~ 100 kHz	6.2 × 10^{-6}	Counter/
				SICT-T100-30205
Function Frequency		1 Hz ~ 10 kHz	6.2 × 10^{-6}	
		10 kHz ~ 30 kHz	2.1 × 10^{-6}	
Wow/Flutter Deviation		(1 Hz ~ 100 Hz)		
		0 % ~ 3 %	0.015 %	
Output Level		1 mV ~ 10 mV	8.6 × 10^{-4}	
		10 mV ~ 100 mV	1.7 × 10^{-4}	
		0.1 V ~ 1 V	1.5 × 10^{-4}	
		1 V ~ 6 V	1.5 × 10^{-4}	
CCIR Pulse		10 ms	8.6 × 10^{-4} ms	
		30 ms	1.6 × 10^{-2} ms	
		60 ms	1.6 × 10^{-2} ms	
		100 ms	1.7 × 10^{-2} ms	

302. Velocity & revolution

Measured Quantity Instrument or Gauge	Field Code	Range	CMC (The Confidence Level is about 95 %)	Comments
Wow-flutter meters	30206			GPS Receiver, Wow Flutter
Wow/Flutter Deviation		0.1 % ~ 0.3 %	0.020 %	Calibrator/
		0.3 % ~ 3 %	0.022 %	SICT-T100-30206
Carrier Frequency		3 kHz	6.2×10^{-5} kHz	
		3.15 kHz	6.2×10^{-5} kHz	
CCIR Pulse		10 ms ~ 100 ms	0.58 %	
Output Voltage		1 mV ~ 100 mV	6.2×10^{-5}	
		100 mV ~ 1 V	7.6×10^{-6}	
		1 V ~ 10 V	4.2×10^{-6}	

401. DC voltage & current

Measured Quantity Instrument or Gauge	Field Code	Range	CMC (The Confidence Level is about 95 %)	Comments
DC ammeters	40101			Calibrator/
DC Current		1 nA ~ 10 nA	4.6×10^{-3}	SICT-T100-40101
		10 nA ~ 100 nA	4.6×10^{-3}	
		100 nA ~ 1 μA	2.3×10^{-3}	
		1 μA ~ 10 μA	7.2×10^{-4}	
		10 μA ~ 200 μA	1.2×10^{-4}	
		20 μA ~ 2 mA	6.9×10^{-5}	
		2 mA ~ 20 mA	6.7×10^{-5}	
		20 mA ~ 200 mA	7.6×10^{-5}	
		200 mA ~ 2 A	9.2×10^{-5}	
		2 A ~ 10 A	2.1×10^{-4}	
		10 A ~ 20 A	1.6×10^{-4}	
		20 A ~ 30 A	2.8×10^{-4}	
		30 A ~ 100 A	1.6×10^{-4}	
Transconductance amplifiers	40102			AC-DC Active Current Shunt/
DC Current		0 μA ~ 100 μA	9.8×10^{-6}	SICT-T100-40102
		100 μA ~ 1 mA	9.7×10^{-6}	
		1 mA ~ 10 mA	1.1×10^{-5}	
		10 mA ~ 100 mA	1.1×10^{-5}	
		100 mA ~ 1 A	1.3×10^{-5}	
		1 A ~ 10 A	1.3×10^{-5}	
		10 A ~ 100 A	2.8×10^{-5}	
AC Current		100 μA		
		(40 Hz ~ 10 kHz)	2.8×10^{-5}	
		(0.1 ~ 100 mA)		
		(40 Hz ~ 10 kHz)	2.7×10^{-5}	
		(0.1 ~ 1 A)		
		(40 Hz ~ 10 kHz)	3.2×10^{-5}	
		(1 ~ 10 A)		
		(40 Hz ~ 1 kHz)	4.8×10^{-5}	
		(1 kHz ~ 10 kHz)	8.6×10^{-5}	
		(10 ~ 100 A)		
		(40 Hz ~ 1 kHz)	5.9×10^{-5}	
		(1 kHz ~ 10 kHz)	7.7×10^{-5}	

401. DC voltage & current

Measured Quantity Instrument or Gauge	Field Code	Range	CMC (The Confidence Level is about 95 %)	Comments
DC voltage/current calibrators	40103			Reference Multimeter/
DC Voltage		0 mV ~ 100 mV	3.0×10^{-7}	SICT-T100-40103
		100 mV ~ 1 V	3.0×10^{-7}	
		1 V ~ 10 V	3.0×10^{-7}	
		10 V ~ 100 V	3.0×10^{-7}	
		100 V ~ 1 100 V	3.0×10^{-7}	
DC Current		1 nA ~ 10 nA	5.7×10^{-4}	
		10 nA ~ 100 nA	5.1×10^{-4}	
		100 nA ~ 1 μA	2.2×10^{-4}	
		1 μA ~ 10 μA	6.8×10^{-6}	
		10 μA ~ 100 μA	6.8×10^{-6}	
		100 μA ~ 1 mA	6.8×10^{-6}	
		1 mA ~ 10 mA	6.8×10^{-6}	
		10 mA ~ 100 mA	6.8×10^{-6}	
		100 mA ~ 1 A	6.8×10^{-6}	
		1 A ~ 10 A	6.8×10^{-6}	
		10 A ~ 100 A	4.7×10^{-6}	
Electricaltemperaturecalibrators	40104			Digital Multimeter/
TEMPERATURE(SOURCE)		E-type		SICT-T100-40104
		-9.719 mV ~ 76.370 mV	8.2×10^{-5}	
		N-type		
		-3.990 mV ~ 47.514 mV	2.0×10^{-4}	
		J-type		
		-8.096 mV ~ 69.555 mV	9.8×10^{-5}	
		K-type		
		-5.891 mV ~ 54.886 mV	1.3×10^{-4}	
		T-type		
		-6.180 mV ~ 20.873 mV	1.3×10^{-4}	
		B-type		
		1.792 mV ~ 13.820 mV	4.3×10^{-4}	
		R-type		
		0 mV ~ 21.088 mV	2.3×10^{-4}	
		S-type		
		0 mV ~ 18.681 mV	2.4×10^{-4}	
		C-type		
		0 mV ~ 37.070 mV	9.2×10^{-5}	
		Pt100(385)		
		18.521 Ω ~ 375.70 Ω	3.3×10^{-5}	
		Pt200(385)		
		37.040 Ω ~ 646.60 Ω	2.7×10^{-5}	
		Pt500(385)		
		92.600 Ω ~ 1 616.51 Ω	8.9×10^{-6}	
		Pt1000(385)		
		185.200 Ω ~ 3 203.02 Ω	1.3×10^{-5}	
		Pt100(3926)		
		16.996 Ω ~ 327.786 Ω	3.5×10^{-5}	
		Pt100(3916)		
		7.057 Ω ~ 327.066 Ω	8.3×10^{-5}	
DC VOLTAGE(SOURCE)		0 mV ~ 100 mV	8.0×10^{-5}	
		100 mV ~ 0.5 V	3.0×10^{-5}	
		0.5 V ~ 1 V	7.7×10^{-6}	
		1 V ~ 5 V	3.0×10^{-5}	
		5 V ~ 10 V	6.8×10^{-6}	
		10 V ~ 50 V	2.9×10^{-5}	
		50 V ~ 100 V	7.7×10^{-6}	
		100 V ~ 300 V	7.1×10^{-6}	

401. DC voltage & current

Measured Quantity Instrument or Gauge	Field Code	Range	CMC (The Confidence Level is about 95 %)	Comments
Electricaltemperaturecalibrators	40104			Digital Multimeter/
DC CURRENT(SOURCE)		0 mA ~ 10 mA	7.3×10^{-5}	SICT-T100-40104
		10 mA ~ 110 mA	7.6×10^{-5}	
RESISTANCE(SOURCE)		0 Ω ~ 50 kΩ	1.2×10^{-4}	
TEMPERATURE(MEASURE)		E-type		
		-9.719 mV ~ 76.370 mV	8.2×10^{-5}	
		N-type		
		-3.990 mV ~ 47.514 mV	2.0×10^{-4}	
		J-type		
		-8.096 mV ~ 69.555 mV	9.8×10^{-5}	
		K-type		
		-5.891 mV ~ 54.886 mV	1.3×10^{-4}	
		T-type		
		-6.180 mV ~ 20.873 mV	1.3×10^{-4}	
		B-type		
		1.792 mV ~ 13.820 mV	4.3×10^{-4}	
		R-type		
		0 mV ~ 21.088 mV	2.3×10^{-4}	
		S-type		
		0 mV ~ 18.681 mV	2.4×10^{-4}	
		C-type		
		0 mV ~ 37.070 mV	9.2×10^{-5}	
		Pt100(385)		
		18.521 Ω ~ 375.70 Ω	1.2×10^{-4}	
		Pt200(385)		
		37.040 Ω ~ 646.60 Ω	1.2×10^{-4}	
		Pt500(385)		
		92.600 Ω ~ 1 616.51 Ω	1.6×10^{-4}	
		Pt1000(385)		
		185.200 Ω ~ 3 203.02 Ω	1.3×10^{-4}	
		Pt100(3926)		
		16.996 Ω ~ 327.786 Ω	1.2×10^{-4}	
		Pt100(3916)		
		7.057 Ω ~ 327.066 Ω	1.7×10^{-4}	
DC VOLTAGE(MEASURE)		0 mV ~ 100 mV	8.0×10^{-5}	
		100 mV ~ 0.5 V	3.0×10^{-5}	
		0.5 V ~ 1 V	7.7×10^{-6}	
		1 V ~ 5 V	3.0×10^{-5}	
		5 V ~ 10 V	6.8×10^{-6}	
		10 V ~ 50 V	2.9×10^{-5}	
		50 V ~ 100 V	7.7×10^{-6}	
		100 V ~ 300 V	7.1×10^{-6}	
DC CURRENT(MEASURE)		0 mA ~ 30 mA	7.0×10^{-5}	
		30 mA ~ 110 mA	7.6×10^{-5}	
RESISTANCE(MEASURE)		0 Ω ~ 50 kΩ	1.2×10^{-4}	

401. DC voltage & current

Measured Quantity Instrument or Gauge	Field Code	Range	CMC (The Confidence Level is about 95 %)	Comments
DC current shunts	40105			Trans Conductance Amplifier/
Resistance		100 μΩ	2.1×10^{-5}	SICT-T100-40105
		100 μΩ ~ 1 mΩ	2.0×10^{-6}	
		1 mΩ ~ 10 mΩ	1.1×10^{-6}	
		10 mΩ ~ 100 mΩ	1.1×10^{-6}	
		100 mΩ ~ 1 Ω	5.7×10^{-7}	
		1 Ω ~ 10 Ω	6.0×10^{-7}	
		10 Ω ~ 100 Ω	5.5×10^{-7}	
		100 Ω ~ 1 kΩ	5.5×10^{-7}	
		1 kΩ ~ 10 kΩ	5.2×10^{-7}	
		10 kΩ ~ 100 kΩ	1.1×10^{-6}	
Galvanometers/null detectors	40106			Calibrator/
DC Voltage		100 μV ~ 300 μV	4.6×10^{-3}	SICT-T100-40106
		300 μV ~ 1 mV	1.5×10^{-3}	
		1 mV ~ 3 mV	3.0×10^{-3}	
		3 mV ~ 10 mV	1.0×10^{-3}	
		10 mV ~ 30 mV	3.0×10^{-3}	
		30 mV ~ 100 mV	9.9×10^{-4}	
		100 mV ~ 300 mV	3.0×10^{-3}	
		300 mV ~ 1 V	9.9×10^{-4}	
		1 V ~ 3 V	3.0×10^{-3}	
		3 V ~ 10 V	9.9×10^{-4}	
		10 V ~ 30 V	3.0×10^{-3}	
		30 V ~ 100 V	9.9×10^{-4}	
		100 V ~ 300 V	3.0×10^{-3}	
		300 V ~ 1 000 V	9.9×10^{-4}	
Potentiometers	40107			Calibrator/
DC Voltage		100 μV ~ 300 μV	4.6×10^{-3}	SICT-T100-40107
		300 μV ~ 1 mV	1.5×10^{-3}	
		1 mV ~ 3 mV	3.0×10^{-3}	
		3 mV ~ 10 mV	1.0×10^{-3}	
		10 mV ~ 30 mV	3.0×10^{-3}	
		30 mV ~ 100 mV	9.9×10^{-4}	
		100 mV ~ 300 mV	3.0×10^{-3}	
		300 mV ~ 1 V	9.9×10^{-4}	
		1 V ~ 3 V	3.0×10^{-3}	
		3 V ~ 10 V	9.9×10^{-4}	
		10 V ~ 30 V	3.0×10^{-3}	
		30 V ~ 100 V	9.9×10^{-4}	
		100 V ~ 300 V	3.0×10^{-3}	
		300 V ~ 1 000 V	9.9×10^{-4}	
DC power supplies	40108			DC Electronics Load/
DC Voltage		0 mV ~ 100 mV	5.8×10^{-5}	SICT-T100-40108
		100 mV ~ 1 V	5.8×10^{-5}	
		1 V ~ 10 V	6.3×10^{-6}	
		10 V ~ 100 V	6.5×10^{-6}	
		100 V ~ 600 V	9.6×10^{-5}	
		600 V ~ 1 000 V	5.8×10^{-4}	

401. DC voltage & current

Measured Quantity Instrument or Gauge	Field Code	Range	CMC (The Confidence Level is about 95 %)	Comments
DC power supplies	40108			DC Electronics Load/
DC Current		0 mA ~ 200 mA	3.5×10^{-5}	SICT-T100-40108
		200 mA ~ 2 A	2.5×10^{-5}	
		2 A ~ 20 A	7.9×10^{-5}	
		20 A ~ 100 A	9.4×10^{-5}	
		100 A ~ 200 A	4.8×10^{-4}	
Load regulation		0 mV ~ 5 mV	1.4×10^{-4}	
		5 mV ~ 50 mV	1.4×10^{-5}	
		50 mV ~ 500 mV	1.4×10^{-6}	
Ripple		0 mV ~ 1 mV	1.3×10^{-1}	
		1 mV ~ 10 mV	9.5×10^{-3}	
		10 mV ~ 50 mV	1.3×10^{-2}	
DC voltage dividers	40110			Calibrator/
DC Voltage Ratio(Absolute)		0 V ~ 1 kV	0.037	SICT-T100-40110
		1 kV ~ 50 kV	0.82	
DC voltage standards	40111			Null Detector/
DC Voltage		1.018 V	1.8×10^{-7}	SICT-T100-40111
		10 V	3.6×10^{-6}	
DC voltmeters	40112			Calibrator/
DC Voltage		100 μV ~ 1 mV	5.0×10^{-6}	SICT-T100-40112
		1 mV ~ 10 mV	5.0×10^{-4}	
		10 mV ~ 100 mV	5.0×10^{-5}	
		100 mV ~ 1 V	1.1×10^{-5}	
		1 V ~ 10 V	4.7×10^{-6}	
		10 V ~ 100 V	3.3×10^{-6}	
		100 V ~ 1 000 V	4.4×10^{-6}	
Static/Ionicvoltmeters	40113			DC Power Supply/
DC Voltage		0 V ~ 500 V	1.3×10^{-3}	SICT-T100-40113
		500 V ~ 1.0 kV	6.4×10^{-4}	
		1.0 kV ~ 5 kV	4.2×10^{-3}	
		5 kV ~ 10 kV	4.2×10^{-3}	
		10 kV ~ 15 kV	4.1×10^{-3}	
		15 kV ~ 20 kV	5.0×10^{-3}	
		20 kV ~ 25 kV	5.2×10^{-3}	
		25 kV ~ 30 kV	5.0×10^{-3}	
		30 kV ~ 35 kV	5.1×10^{-3}	
		35 kV ~ 40 kV	5.3×10^{-3}	
		40 kV ~ 45 kV	5.1×10^{-3}	
		45 kV ~ 50 kV	5.2×10^{-3}	

402. Resistance, Capacitance and Inductance

Measured Quantity Instrument or Gauge	Field Code	Range	CMC (The Confidence Level is about 95 %)	Comments
Capacitance bridges/indicators	40201			Standard Capacitance Set/
Frequency		60 Hz ~ 100 MHz	6.2×10^{-8}	SICT-T100-40201
Capacitance		(1 pF)		
		1 kHz	3.5×10^{-4}	
		1 MHz	3.6×10^{-4}	
		2 MHz	4.2×10^{-4}	
		3 MHz	5.4×10^{-4}	
		4 MHz	7.2×10^{-4}	
		5 MHz	9.5×10^{-4}	
		10 MHz	2.5×10^{-3}	
		13 MHz	3.7×10^{-3}	
		(10 pF)		
		1 kHz ~ 5 MHz	3.5×10^{-4}	
		10 MHz	3.7×10^{-4}	
		13 MHz	3.8×10^{-4}	
		(100 pF)		
		1 kHz ~ 3 MHz	3.5×10^{-4}	
		4 MHz	3.6×10^{-4}	
		5 MHz ~ 10 MHz	3.7×10^{-4}	
		13 MHz	6.0×10^{-4}	
		(1 000 pF)		
		100 Hz ~ 120 Hz	2.7×10^{-4}	
		1 kHz ~ 1 MHz	3.5×10^{-4}	
		2 MHz	3.8×10^{-4}	
		3 MHz	4.5×10^{-4}	
		4 MHz	5.6×10^{-4}	
		5 MHz	7.1×10^{-4}	
		10 MHz	1.9×10^{-3}	
		13 MHz	2.8×10^{-3}	
		(10 nF)		
		100 Hz	2.7×10^{-4}	
		120 Hz ~ 100 kHz	7.9×10^{-5}	
		(100 nF)		
		100 Hz	2.7×10^{-4}	
		120 Hz ~ 100 kHz	7.9×10^{-5}	
		(1 μF)		
		100 Hz	2.7×10^{-4}	
		120 Hz	8.4×10^{-5}	
		1 kHz ~ 10 kHz	7.9×10^{-5}	
		100 kHz	9.7×10^{-5}	
		(10 μF)		
		120 Hz ~ 1 kHz	1.2×10^{-3}	

402. Resistance, Capacitance and Inductance

Measured Quantity Instrument or Gauge	Field Code	Range	CMC (The Confidence Level is about 95 %)	Comments
Capacitance bridges/indicators	40201			Standard Capacitance Set/
Capacitance		(100 μF)		SICT-T100-40201
		120 Hz	1.3×10^{-3}	
		(1 mF ~ 10 mF)		
		120 Hz	1.4×10^{-3}	
		(30 mF)		
		120 Hz	2.9×10^{-3}	
Decade capacitors	40202			Standard Capacitance Set/
Capacitance		(1 kHz)		SICT-T100-40202
		1 pF ~ 10 pF	3.5×10^{-3}	
		10 pF ~ 100 pF	3.5×10^{-3}	
		100 pF ~ 1 nF	3.5×10^{-3}	
		1 nF ~ 10 nF	3.5×10^{-3}	
		10 nF ~ 100 nF	3.5×10^{-3}	
		100 nF ~ 1.2 μF	3.5×10^{-3}	
Standard capacitors	40204			Standard Capacitance Set/
Capacitance		(1 pF)		SICT-T100-40204
		50 Hz ~ 1 kHz	0.24 fF	
		1 MHz	0.25 fF	
		2 MHz	0.33 fF	
		3 MHz	0.48 fF	
		4 MHz	0.68 fF	
		5 MHz	0.91 fF	
		10 MHz	2.6 fF	
		13 MHz	3.8 fF	
		(10 pF)		
		50 Hz ~ 1 kHz	2.4 fF	
		1 MHz	2.4 fF	
		2 MHz	2.4 fF	
		3 MHz	2.4 fF	
		4 MHz	2.4 fF	
		5 MHz	2.4 fF	
		10 MHz	2.7 fF	
		13 MHz	2.9 fF	
		(100 pF)		
		50 Hz ~ 1 kHz	24 fF	
		1 MHz	24 fF	
		2 MHz	24 fF	
		3 MHz	25 fF	
		4 MHz	25 fF	
		5 MHz	27 fF	
		10 MHz	41 fF	
		13 MHz	55 fF	

402. Resistance, Capacitance and Inductance

Measured Quantity Instrument or Gauge	Field Code	Range	CMC (The Confidence Level is about 95 %)	Comments
Standard capacitors	40204			Standard Capacitance Set/
Capacitance		(1 nF)		SICT-T100-40204
		50 Hz ~ 1 kHz	0.24 pF	
		1 MHz	0.24 pF	
		2 MHz	0.28 pF	
		3 MHz	0.37 pF	
		4 MHz	0.50 pF	
		5 MHz	0.67 pF	
		10 MHz	2.0 pF	
		13 MHz	2.9 pF	
		(10 nF)		
		50 Hz ~ 120 Hz	2.4 pF	
		1 kHz	2.4 pF	
		10 kHz	2.4 pF	
		100 kHz	2.4 pF	
		(100 nF)		
		50 Hz ~ 120 Hz	24 pF	
		1 kHz	24 pF	
		10 kHz	24 pF	
		100 kHz	24 pF	
		(1 μF)		
		50 Hz ~ 120 Hz	0.24 nF	
		1 kHz	0.24 nF	
		10 kHz	0.24 nF	
		100 kHz	0.25 nF	
		(10 μF)		
		50 Hz ~ 120 Hz	13 nF	
		1 kHz	13 nF	
		(30 μF)		
		120 Hz	40 nF	
		(100 μF)		
		120 Hz	0.13 μF	
		(300 μF)		
		120 Hz	0.44 μF	
		(1 mF)		
		120 Hz	1.5 μF	
		(3 mF)		
		120 Hz	4.4 μF	
		(10 mF)		
		120 Hz	15 μF	
		(30 mF)		
		120 Hz	87 μF	

402. Resistance, Capacitance and Inductance

Measured Quantity Instrument or Gauge	Field Code	Range	CMC (The Confidence Level is about 95 %)	Comments
Earth testers	40205			Decade Resistor/
Test Voltage		0 V ~ 10 V	6.4×10^{-4}	SICT-T100-40205
		10 V ~ 30 V	2.7×10^{-4}	
		30 V ~ 50 V	1.7×10^{-4}	
		50 V ~ 70 V	1.3×10^{-4}	
		70 V ~ 100 V	6.4×10^{-4}	
		100 V ~ 500 V	2.0×10^{-4}	
		500 V ~ 600 V	1.7×10^{-4}	
Resistance		0 Ω ~1 Ω	1.3×10^{-3}	
		1 Ω ~ 10 Ω	5.8×10^{-4}	
		10 Ω ~ 100 Ω	8.7×10^{-5}	
		100 Ω ~ 1 kΩ	6.4×10^{-4}	
		1 kΩ ~ 10 kΩ	6.6×10^{-5}	
		10 kΩ ~ 100 kΩ	6.7×10^{-5}	
AC Current out		0 A ~ 3 A	8.1×10^{-4}	
		3 A ~ 10 A	1.2×10^{-3}	
		10 A ~ 20 A	9.8×10^{-4}	
		20 A ~ 30 A	1.0×10^{-3}	
		30 A ~ 60 A	5.0×10^{-4}	
Timer		1 s ~ 100 s	5.8×10^{-6}	
		100 s ~ 1 000 s	8.2×10^{-6}	
		1 000 s ~ 10 000 s	5.8×10^{-5}	
Inductance bridges/indicators	40206			Standard Inductor/
Frequency		60 Hz ~ 100 MHz	6.2×10^{-8}	SICT-T100-40206
Inductance		(1 kHz)		
		100 μH	4.2×10^{-4}	
		100 μH ~ 10 H	1.6×10^{-4}	
Inductors	40208			Standard Inductor/
Standard Inductance		(1 kHz)		SICT-T100-40208
		100 μH	47 nH	
		1 mH	0.26 μH	
		10 mH	2.6 μH	
		100 mH	26 μH	
		1 H	0.26 mH	
		10 H	2.6 mH	
Decade Inductance		(1 kHz)		
		100 μH ~ 1 mH	3.5×10^{-3}	
		1 mH ~ 10 mH	3.5×10^{-3}	
		10 mH ~ 100 mH	3.5×10^{-3}	
		100 mH ~ 1 H	3.5×10^{-3}	
		1 H ~ 10 H	3.5×10^{-3}	
Insulation testers	40210			High Resistance Decade/
Insulation Voltage		0 V ~ 50 V	1.3×10^{-3}	SICT-T100-40210
		50 V ~ 100 V	6.4×10^{-4}	
		100 V ~ 250 V	2.6×10^{-4}	
		250 V ~ 500 V	1.3×10^{-4}	
		500 V ~ 700 V	9.7×10^{-5}	
		700 V ~ 1 000 V	7.0×10^{-5}	
		1 000 V ~ 5 000 V	8.1×10^{-3}	
		5 000 V ~ 10 000 V	7.3×10^{-3}	

402. Resistance, Capacitance and Inductance

Measured Quantity Instrument or Gauge	Field Code	Range	CMC (The Confidence Level is about 95 %)	Comments
Insulation testers	40210			High Resistance Decade/
Insulation Resistance		0 kΩ ~ 1 kΩ	6.4×10^{-4}	SICT-T100-40210
		1 kΩ ~ 10 kΩ	1.2×10^{-4}	
		10 kΩ ~ 100 kΩ	1.0×10^{-4}	
		100 kΩ ~ 1 MΩ	6.4×10^{-4}	
		1 MΩ ~ 10 MΩ	5.0×10^{-4}	
		10 MΩ ~ 100 MΩ	5.0×10^{-4}	
		100 MΩ ~ 1 GΩ	8.8×10^{-4}	
		1 GΩ ~ 10 GΩ	1.2×10^{-3}	
		10 GΩ ~ 100 GΩ	2.1×10^{-3}	
		100 GΩ ~ 1 TΩ	7.1×10^{-3}	
AC Voltage		0 V ~ 10 V	6.7×10^{-4}	
		10 V ~ 30 V	3.1×10^{-4}	
		30 V ~ 100 V	2.5×10^{-4}	
		100 V ~ 300 V	3.1×10^{-4}	
		300 V ~ 500 V	3.9×10^{-4}	
		500 V ~ 700 V	3.7×10^{-4}	
		700 V ~ 1 000 V	3.7×10^{-4}	
Timer		1 s ~ 100 s	5.8×10^{-6}	
		100 s ~ 1 000 s	8.2×10^{-6}	
		1 000 s ~ 10 000 s	5.8×10^{-5}	
Q-meters	40211			Universal Counter/
Frequency Test		60 Hz ~ 100 MHz	6.2×10^{-8}	SICT-T100-40211
Quality Factor		0 ~ 1 000	6.2×10^{-4}	
Resistance bridges & similar instruments	40213			Standard Resistance Set/
Resistance(Rheostat Arm)		1 mΩ ~ 10 mΩ	6.6×10^{-3}	SICT-T100-40213
		10 mΩ ~ 100 mΩ	6.2×10^{-3}	
		100 mΩ ~ 1 Ω	6.2×10^{-4}	
		1 Ω ~ 10 Ω	8.0×10^{-5}	
		10 Ω ~ 100 Ω	4.9×10^{-5}	
		100 Ω ~ 1 kΩ	4.9×10^{-5}	
		1 kΩ ~ 10 kΩ	7.7×10^{-5}	
		10 kΩ ~ 100 kΩ	5.1×10^{-5}	
		100 kΩ ~ 1 MΩ	5.3×10^{-5}	
		1 MΩ ~ 10 MΩ	1.4×10^{-4}	
		10 MΩ ~ 100 MΩ	7.7×10^{-4}	
Resistance(Ratio Arm)		1 mΩ	2.2×10^{-6}	
		10 mΩ	1.3×10^{-6}	
		100 mΩ	1.3×10^{-6}	
		1 Ω	9.6×10^{-7}	
		10 Ω	9.6×10^{-7}	
		100 Ω	9.6×10^{-7}	
		1 kΩ	9.6×10^{-7}	
		10 kΩ	9.6×10^{-7}	
		100 kΩ	1.3×10^{-6}	
		1 MΩ	1.3×10^{-6}	
		10 MΩ	3.4×10^{-6}	
		100 MΩ	2.3×10^{-6}	

402. Resistance, Capacitance and Inductance

Measured Quantity Instrument or Gauge	Field Code	Range	CMC (The Confidence Level is about 95 %)	Comments
Resistance meters	40214			Standard Resistance Set/
DC Resistance		1 mΩ	2.2×10^{-6}	SICT-T100-40214
		1 mΩ ~ 10 mΩ	1.3×10^{-6}	
		10 mΩ ~ 100 mΩ	1.3×10^{-6}	
		100 mΩ ~ 1 Ω	9.6×10^{-7}	
		1 Ω ~ 10 Ω	9.6×10^{-7}	
		10 Ω ~ 100 Ω	9.6×10^{-7}	
		100 Ω ~ 1 kΩ	9.6×10^{-7}	
		1 kΩ ~ 10 kΩ	9.6×10^{-7}	
		10 kΩ ~ 100 kΩ	1.3×10^{-6}	
		100 kΩ ~ 1 MΩ	1.3×10^{-6}	
		1 MΩ ~ 10 MΩ	3.4×10^{-6}	
		10 MΩ ~ 100 MΩ	2.3×10^{-6}	
		100 MΩ ~ 1 GΩ	6.2×10^{-4}	
		1 GΩ ~ 10 GΩ	1.1×10^{-3}	
		10 GΩ ~ 100 GΩ	2.1×10^{-3}	
		100 GΩ ~ 1 TΩ	3.1×10^{-3}	
Frequency		1 kHz	6.2×10^{-7}	
AC Voltage		10 mV ~ 100 mV	1.3×10^{-4}	
		100 mV ~ 10 V	1.2×10^{-4}	
AC Resistance		(1 kHz)		
		1 mΩ	1.0×10^{-3}	
		1 mΩ ~ 10 mΩ	3.1×10^{-4}	
		10 mΩ ~ 100 mΩ	2.1×10^{-4}	
		100 mΩ ~ 1 Ω	5.7×10^{-5}	
		1 Ω ~ 10 Ω	5.5×10^{-5}	
		10 Ω ~ 100 Ω	5.2×10^{-5}	
		100 Ω ~ 1 kΩ	5.2×10^{-5}	
		1 kΩ ~ 10 kΩ	5.2×10^{-5}	
		10 kΩ ~ 100 kΩ	5.2×10^{-5}	
Resistors	40215			Standard Resistance Set/
DC Resistance		100 μΩ	2.1×10^{-5}	SICT-T100-40215
		100 μΩ ~ 1 mΩ	2.0×10^{-6}	
		1 mΩ ~ 10 mΩ	1.1×10^{-6}	
		10 mΩ ~ 100 mΩ	1.1×10^{-6}	
		100 mΩ ~ 1 Ω	5.7×10^{-7}	
		1 Ω ~ 10 Ω	6.0×10^{-7}	
		10 Ω ~ 100 Ω	5.5×10^{-7}	
		100 Ω ~ 1 kΩ	5.5×10^{-7}	
		1 kΩ ~ 10 kΩ	5.2×10^{-7}	
		10 kΩ ~ 100 kΩ	1.1×10^{-6}	
		100 kΩ ~ 1 MΩ	1.1×10^{-6}	
		1 MΩ ~ 10 MΩ	1.0×10^{-6}	
		10 MΩ ~ 100 MΩ	2.2×10^{-6}	
		100 MΩ ~ 1 GΩ	2.9×10^{-4}	
		1 GΩ ~ 10 GΩ	4.1×10^{-4}	
		10 GΩ ~ 100 GΩ	5.8×10^{-4}	
		100 GΩ ~ 1 TΩ	1.2×10^{-3}	
		1 TΩ ~ 10 TΩ	1.8×10^{-3}	
		10 TΩ ~ 100 TΩ	4.2×10^{-3}	

402. Resistance, Capacitance and Inductance

Measured Quantity Instrument or Gauge	Field Code	Range	CMC (The Confidence Level is about 95 %)	Comments
Resistors	40215			Standard Resistance Set/
AC Resistance		(1 mΩ)		SICT-T100-40215
		40 Hz ~ 1 kHz	5.9×10^{-4}	
		(10 mΩ)		
		40 Hz ~ 1 kHz	6.1×10^{-4}	
		(100 mΩ)		
		40 Hz ~ 1 kHz	9.4×10^{-4}	
		(1 Ω)		
		40 Hz ~ 1 kHz	3.4×10^{-4}	
		(10 Ω)		
		1 kHz	3.3×10^{-4}	
		1 MHz	3.8×10^{-4}	
		2 MHz	5.5×10^{-4}	
		3 MHz	6.4×10^{-4}	
		4 MHz	7.4×10^{-4}	
		5 MHz	1.0×10^{-3}	
		10 MHz	4.0×10^{-3}	
		13 MHz	6.0×10^{-3}	
		(100 Ω)		
		1 kHz	3.3×10^{-4}	
		1 MHz	3.8×10^{-4}	
		2 MHz	4.6×10^{-4}	
		3 MHz	5.5×10^{-4}	
		4 MHz	5.5×10^{-4}	
		5 MHz	5.5×10^{-4}	
		10 MHz	2.0×10^{-3}	
		13 MHz	3.0×10^{-3}	
		(1 kΩ)		
		1 kHz	4.7×10^{-4}	
		100 kHz	3.8×10^{-4}	
		1 MHz	3.8×10^{-4}	
		2 MHz	3.8×10^{-4}	
		3 MHz	3.8×10^{-4}	
		4 MHz	4.6×10^{-4}	
		5 MHz	5.5×10^{-4}	
		10 MHz	2.0×10^{-3}	
		13 MHz	3.0×10^{-3}	
		(10 kΩ)		
		1 kHz	2.5×10^{-3}	
		100 kHz	3.1×10^{-4}	
		1 MHz	3.8×10^{-4}	
		(100 kΩ)		
		1 kHz	2.4×10^{-3}	
		100 kHz	3.1×10^{-4}	
		1 MHz	3.8×10^{-4}	

402. Resistance, Capacitance and Inductance

Measured Quantity Instrument or Gauge	Field Code	Range	CMC (The Confidence Level is about 95 %)	Comments
Resistors	40215			Standard Resistance Set/
Decade Resistance		1 mΩ ~ 10 mΩ	6.6×10^{-3}	SICT-T100-40215
		10 mΩ ~ 100 mΩ	6.2×10^{-3}	
		100 mΩ ~ 1 Ω	6.2×10^{-4}	
		1 Ω ~ 10 Ω	8.0×10^{-5}	
		10 Ω ~ 100 Ω	4.9×10^{-5}	
		100 Ω ~ 1 kΩ	4.9×10^{-5}	
		1 kΩ ~ 10 kΩ	7.7×10^{-5}	
		10 kΩ ~ 100 kΩ	5.1×10^{-5}	
		100 kΩ ~ 1 MΩ	5.3×10^{-5}	
		1 MΩ ~ 10 MΩ	1.4×10^{-4}	
		10 MΩ ~ 100 MΩ	7.7×10^{-4}	
		100 MΩ ~ 1 GΩ	6.0×10^{-4}	
		1 GΩ ~ 10 GΩ	8.5×10^{-4}	
		10 GΩ ~ 100 GΩ	1.2×10^{-3}	
		100 GΩ ~ 1 TΩ	2.4×10^{-3}	
		1 TΩ ~ 10 TΩ	3.7×10^{-3}	
Impedance bridges/LCR meters	40217			Standard Capacitor Set,
Frequency		60 Hz ~ 100 MHz	6.2×10^{-8}	Standard Resistor Set,
				Standard Inductor/
AC Voltage		10 mV ~ 100 mV	5.8×10^{-4}	SICT-T100-40217
		100 mV ~ 10 V	4.9×10^{-4}	
		10 V ~ 100 V	4.9×10^{-4}	
Capacitance		(1 pF)		
		1 kHz	3.5×10^{-4}	
		1 MHz	3.6×10^{-4}	
		2 MHz	4.2×10^{-4}	
		3 MHz	5.4×10^{-4}	
		4 MHz	7.2×10^{-4}	
		5 MHz	9.5×10^{-4}	
		10 MHz	2.5×10^{-3}	
		13 MHz	3.7×10^{-3}	
		(10 pF)		
		1 kHz ~ 5 MHz	3.5×10^{-4}	
		10 MHz	3.7×10^{-4}	
		13 MHz	3.8×10^{-4}	
		(100 pF)		
		1 kHz ~ 3 MHz	3.5×10^{-4}	
		4 MHz	3.6×10^{-4}	
		5 MHz ~ 10 MHz	3.7×10^{-4}	
		13 MHz	6.0×10^{-4}	
		(1 000 pF)		
		100 Hz ~ 120 Hz	2.7×10^{-4}	
		1 kHz ~ 1 MHz	3.5×10^{-4}	
		2 MHz	3.8×10^{-4}	
		3 MHz	4.5×10^{-4}	
		4 MHz	5.6×10^{-4}	
		5 MHz	7.1×10^{-4}	
		10 MHz	1.9×10^{-3}	
		13 MHz	2.8×10^{-3}	

402. Resistance, Capacitance and Inductance

Measured Quantity Instrument or Gauge	Field Code	Range	CMC (The Confidence Level is about 95 %)	Comments
Impedance bridges/LCR meters	40217			Standard Capacitor Set,
Capacitance		(10 nF)		Standard Resistor Set,
		100 Hz	2.7×10^{-4}	Standard Inductor/
		120 Hz ~ 100 kHz	7.9×10^{-5}	SICT-T100-40217
		(100 nF)		
		100 Hz	2.7×10^{-4}	
		120 Hz ~ 100 kHz	7.9×10^{-5}	
		(1 μF)		
		100 Hz	2.7×10^{-4}	
		120 Hz	8.4×10^{-5}	
		1 kHz ~ 10 kHz	7.9×10^{-5}	
		100 kHz	9.7×10^{-5}	
		(10 μF)		
		120 Hz ~ 1 kHz	1.2×10^{-3}	
		(100 μF)		
		120 Hz	1.3×10^{-3}	
		(1 mF ~ 10 mF)		
		120 Hz	1.4×10^{-3}	
		(30 mF)		
		120 Hz	2.9×10^{-3}	
Resistance		(1 mΩ)		
		1 kHz	1.0×10^{-3}	
		(10 mΩ)		
		1 kHz	3.1×10^{-4}	
		(100 mΩ)		
		1 kHz	2.1×10^{-4}	
		(1 Ω)		
		1 kHz	5.7×10^{-5}	
		(10 Ω)		
		1 kHz	5.5×10^{-5}	
		1 MHz	3.0×10^{-4}	
		2 MHz	5.0×10^{-4}	
		3 MHz	6.0×10^{-4}	
		4 MHz	7.0×10^{-4}	
		5 MHz	1.0×10^{-3}	
		10 MHz	4.0×10^{-3}	
		13 MHz	6.0×10^{-3}	

402. Resistance, Capacitance and Inductance

Measured Quantity Instrument or Gauge	Field Code	Range	CMC (The Confidence Level is about 95 %)	Comments
Impedance bridges/LCR meters	40217			Standard Resistor Set,
Resistance		(100 Ω)		Standard Inductor/
		1 kHz	5.2×10^{-5}	SICT-T100-40217
		1 MHz	3.0×10^{-4}	
		2 MHz	4.0×10^{-4}	
		5 MHz	5.0×10^{-4}	
		10 MHz	2.0×10^{-3}	
		13 MHz	3.0×10^{-3}	
		(1 kΩ)		
		1 kHz	5.2×10^{-5}	
		100 kHz ~ 3 MHz	3.0×10^{-4}	
		4 MHz	4.0×10^{-4}	
		5 MHz	5.0×10^{-4}	
		10 MHz	2.0×10^{-3}	
		13 MHz	3.0×10^{-3}	
		(10 kΩ)		
		1 kHz	5.2×10^{-5}	
		100 kHz	2.0×10^{-4}	
		1 MHz	3.0×10^{-4}	
		(100 kΩ)		
		1 kHz	5.2×10^{-5}	
		100 kHz ~ 1 MHz	3.0×10^{-4}	
		(1 MΩ)		
		1 kHz	2.1×10^{-5}	
		(10 MΩ)		
		1 kHz	6.7×10^{-5}	
Inductance		(1 kHz)		
		100 μH	4.2×10^{-4}	
		100 μH ~ 10 H	1.6×10^{-4}	
DC Bias		0 mV ~ 100 mV	4.6×10^{-5}	
		100 mV ~ 1 V	2.8×10^{-5}	
		1 V ~ 10 V	2.3×10^{-5}	
		10 V ~ 100 V	2.9×10^{-5}	
DC Current		0 mA ~ 200 mA	3.5×10^{-5}	
		200 mA ~ 2 A	2.5×10^{-5}	
		2 A ~ 20 A	7.9×10^{-5}	
		20 A ~ 100 A	9.4×10^{-5}	

403. AC voltage, current & power

Measured Quantity Instrument or Gauge	Field Code	Range	CMC (The Confidence Level is about 95 %)	Comments
AC ammeters	40301			Power Calibrator, Calibrator/
AC Current		(1 mA ~ 10 mA)		SICT-T100-40301
		40 Hz ~ 100 Hz	5.6×10^{-5}	
		100 Hz ~ 1 kHz	5.6×10^{-5}	
		1 kHz ~ 5 kHz	1.8×10^{-4}	
		5 kHz ~ 10 kHz	8.4×10^{-4}	
AC Current		(10 mA ~ 100 mA)		
		40 Hz ~ 100 Hz	5.6×10^{-5}	
		100 Hz ~ 1 kHz	5.6×10^{-5}	
		1 kHz ~ 5 kHz	1.4×10^{-4}	
		5 kHz ~ 10 kHz	7.5×10^{-4}	
		(100 mA ~ 1 A)		
		40 Hz ~ 100 Hz	9.1×10^{-5}	
		100 Hz ~ 1 kHz	9.1×10^{-5}	
		1 kHz ~ 5 kHz	1.7×10^{-4}	
		5 kHz ~ 10 kHz	1.4×10^{-3}	
		(1 A ~ 10 A)		
		40 Hz ~ 100 Hz	1.5×10^{-4}	
		100 Hz ~ 1 kHz	1.5×10^{-4}	
		(10 A ~ 20 A)		
		40 Hz ~ 60 Hz	1.7×10^{-4}	
		60 Hz ~ 100 Hz	1.9×10^{-3}	
		100 Hz ~ 1 kHz	1.9×10^{-3}	
		(20 A ~ 100 A)		
		40 Hz ~ 60 Hz	1.0×10^{-3}	
		60 Hz ~ 100 Hz	8.0×10^{-3}	
		100 Hz ~ 500 Hz	2.5×10^{-3}	
		(100 A ~ 200 A)		
		50 Hz ~ 60 Hz	1.0×10^{-3}	
Clamp ammeters/voltmeters	40302			Power Calibrator, Calibrator/
AC Current		(1 mA ~ 10 mA)		SICT-T100-40302
		40 Hz ~ 1 kHz	6.6×10^{-4}	
		1 kHz ~ 5 kHz	6.9×10^{-4}	
		5 kHz ~ 10 kHz	1.6×10^{-3}	
		(10 mA ~ 100 mA)		
		40 Hz ~ 1 kHz	1.8×10^{-4}	
		1 kHz ~ 5 kHz	2.6×10^{-4}	
		5 kHz ~ 10 kHz	1.0×10^{-3}	
		(100 mA ~ 1 A)		
		40 Hz ~ 1 kHz	3.4×10^{-4}	
		1 kHz ~ 5 kHz	5.2×10^{-4}	
		5 kHz ~ 10 kHz	6.0×10^{-3}	
		(1 A ~ 10 A)		
		40 Hz ~ 1 kHz	4.5×10^{-4}	
		1 kHz ~ 5 kHz	4.8×10^{-4}	
		5 kHz ~ 10 kHz	1.1×10^{-3}	

403. AC voltage, current & power

Measured Quantity Instrument or Gauge	Field Code	Range	CMC (The Confidence Level is about 95 %)	Comments
Clamp ammeters/voltmeters	40302			Power Calibrator, Calibrator/
AC Current		(10 A ~ 50 A)		SICT-T100-40302
		40 Hz ~ 1 kHz	7.2×10^{-4}	
		1 kHz ~ 5 kHz	8.2×10^{-4}	
		5 kHz ~ 10 kHz	6.0×10^{-3}	
		(50 A ~ 100 A)		
		40 Hz ~ 1 kHz	4.8×10^{-4}	
		1 kHz ~ 5 kHz	5.9×10^{-4}	
		5 kHz ~ 10 kHz	5.9×10^{-3}	
		(100 A ~ 500 A)		
		40 Hz ~ 100 Hz	6.0×10^{-4}	
		(500 A ~ 1 000 A)		
		40 Hz ~ 60 Hz	2.9×10^{-3}	
		60 Hz ~ 100 Hz	3.1×10^{-3}	
		100 Hz ~ 1 kHz	5.2×10^{-3}	
		(1 000 A ~ 2 000 A)		
		40 Hz ~ 60 Hz	2.1×10^{-3}	
		(2 000 A ~ 3 000 A)		
		40 Hz ~ 60 Hz	3.0×10^{-3}	
DC Current		1 mA ~ 100 mA	8.9×10^{-5}	
		100 mA ~ 1 A	1.0×10^{-4}	
		1 A ~ 10 A	4.4×10^{-4}	
		10 A ~ 100 A	2.5×10^{-5}	
		100 A ~ 500 A	5.1×10^{-4}	
		500 A ~ 1 000 A	1.0×10^{-3}	
		1 000 A ~ 2 000 A	2.0×10^{-3}	
		2 000 A ~ 2 500 A	2.4×10^{-3}	
AC Voltage		(10 mV ~ 100 mV)		
		40 Hz ~ 10 kHz	7.4×10^{-4}	
		10 kHz ~ 50 kHz	7.7×10^{-4}	
		50 kHz ~ 100 kHz	9.8×10^{-4}	
		(100 mV ~ 1 V)		
		40 Hz ~ 10 kHz	9.7×10^{-5}	
		10 kHz ~ 50 kHz	1.2×10^{-4}	
		50 kHz ~ 100 kHz	1.7×10^{-4}	
		(1 V ~ 10 V)		
		40 Hz ~ 10 kHz	9.6×10^{-5}	
		10 kHz ~ 50 kHz	1.2×10^{-4}	
		50 kHz ~ 100 kHz	1.5×10^{-4}	
		(10 V ~ 100 V)		
		40 Hz ~ 10 kHz	1.0×10^{-4}	
		10 kHz ~ 50 kHz	1.3×10^{-4}	
		50 kHz ~ 100 kHz	1.9×10^{-4}	
		(100 V ~ 1 000 V)		
		40 Hz ~ 1 kHz	1.1×10^{-4}	
		1 kHz ~ 20 kHz	1.5×10^{-4}	

403. AC voltage, current & power

Measured Quantity Instrument or Gauge	Field Code	Range	CMC (The Confidence Level is about 95 %)	Comments
Clamp ammeters/voltmeters	40302			Power Calibrator, Calibrator/
DC Voltage		0 mV ~ 100 mV	7.9×10^{-4}	SICT-T100-40302
		100 mV ~ 1 V	9.0×10^{-5}	
		1 V ~ 10 V	7.2×10^{-5}	
		10 V ~ 100 V	7.9×10^{-5}	
		100 V ~ 1 000 V	6.4×10^{-5}	
Resistance		0 Ω ~ 10 Ω	7.9×10^{-4}	
		10 Ω ~ 100 Ω	6.4×10^{-4}	
		100 Ω ~ 1 kΩ	7.2×10^{-4}	
		1 kΩ ~ 10 kΩ	7.2×10^{-4}	
		10 kΩ ~ 100 kΩ	6.4×10^{-4}	
		100 kΩ ~ 1 MΩ	7.3×10^{-4}	
		1 MΩ ~ 10 MΩ	7.2×10^{-4}	
		10 MΩ ~ 100 MΩ	7.9×10^{-4}	
Current coil(AC)		50 : 1 (20 A)	0.031	
		25 : 1 (120 A)	0.022	
		10 : 1 (200 A)	0.019	
		2 : 1 (20 A)	0.015	
Current coil(DC)		50 : 1 (20 A)	0.038	
		25 : 1 (120 A)	0.025	
		10 : 1 (200 A)	0.019	
		2 : 1 (20 A)	0.015	
AC voltage/current calibrators	40303			Alternating Voltage
AC Voltage		(1 mV ~ 100 mV)		Measurement Standard,
		10 Hz ~ 100 kHz	2.7×10^{-5}	Reference Multimeter,
		100 kHz ~ 1 MHz	1.5×10^{-4}	Current Shunt/
				SICT-T100-40303
		(100 mV ~ 1 V)		
		10 Hz ~ 100 kHz	2.0×10^{-5}	
		100 kHz ~ 1 MHz	1.1×10^{-4}	
		(1 V ~ 10 V)		
		10 Hz ~ 100 kHz	2.0×10^{-5}	
		100 kHz ~ 1 MHz	1.1×10^{-4}	
		(10 V ~ 100 V)		
		10 Hz ~ 100 kHz	2.0×10^{-5}	
		100 kHz ~ 1 MHz	4.9×10^{-5}	
		(100 V ~ 1 000 V)		
		10 Hz ~ 1 kHz	3.5×10^{-5}	
		1 kHz ~ 20 kHz	4.5×10^{-5}	

403. AC voltage, current & power

Measured Quantity Instrument or Gauge	Field Code	Range	CMC (The Confidence Level is about 95 %)	Comments
AC voltage/current calibrators AC Current	40303	(10 μA ~ 1 mA) 40 Hz ~ 10 kHz (1 mA ~ 10 mA) 40 Hz ~ 10 kHz (10 mA ~ 100 mA) 40 Hz ~ 10 kHz (100 mA ~ 1 A) 40 Hz ~ 10 kHz (1 A ~ 10 A) 40 Hz ~ 1 kHz 1 kHz ~ 10 kHz (10 A ~ 20 A) 40 Hz ~ 1 kHz 1 kHz ~ 10 kHz (20 A ~ 30 A) 40 Hz ~ 1 kHz 1 kHz ~ 10 kHz (30 A ~ 100 A) 40 Hz ~ 1 kHz (100 A ~ 200 A) 50 Hz ~ 60 Hz	 2.1×10^{-5} 2.1×10^{-5} 2.1×10^{-5} 2.6×10^{-5} 3.6×10^{-5} 8.0×10^{-5} 3.5×10^{-5} 9.5×10^{-5} 5.2×10^{-5} 7.2×10^{-5} 5.2×10^{-5} 2.3×10^{-4}	Alternating Voltage Measurement Standard, Reference Multimeter, Current Shunt/ SICT-T100-40303
Wattmeter calibrators AC Voltage	40304	(1 mV ~ 100 mV) 10 Hz ~ 100 kHz 100 kHz ~ 1 MHz (100 mV ~ 1 V) 10 Hz ~ 100 kHz 100 kHz ~ 1 MHz (1 V ~ 10 V) 10 Hz ~ 100 kHz 100 kHz ~ 1 MHz (10 V ~ 100 V) 10 Hz ~ 10 kHz 10 kHz ~ 100 kHz (100 V ~ 1 000 V) 10 Hz ~ 1 kHz 1 kHz ~ 20 kHz	 2.7×10^{-5} 1.5×10^{-4} 2.0×10^{-5} 1.1×10^{-4} 2.0×10^{-5} 1.1×10^{-4} 2.0×10^{-5} 4.9×10^{-5} 3.5×10^{-5} 4.5×10^{-5}	Power Standard, Counter/ SICT-T100-40304

403. AC voltage, current & power

Measured Quantity Instrument or Gauge	Field Code	Range	CMC (The Confidence Level is about 95 %)	Comments
Wattmeter calibrators	40304			Power Standard, Counter/
AC Current		(40 Hz ~ 400 Hz)		SICT-T100-40304
		10 μA ~ 100 mA	2.1×10^{-5}	
		100 mA ~ 1 A	2.6×10^{-5}	
		1 A ~ 10 A	3.6×10^{-5}	
		10 A ~ 20 A	3.5×10^{-5}	
		20 A ~ 100 A	5.2×10^{-5}	
AC Power		(50 Hz ~ 400 Hz)		
		0.1 mW ~ 1 mW	5.6×10^{-2}	
		1 mW ~ 10 mW	6.3×10^{-3}	
		10 mW ~ 100 mW	6.9×10^{-4}	
		100 mW ~ 240 mW	3.2×10^{-4}	
		240 mW ~ 600 mW	1.6×10^{-4}	
		600 mW ~ 1.2 W	1.2×10^{-4}	
		1.2 W ~ 600 W	1.1×10^{-4}	
		600 W ~ 1.2 kW	1.3×10^{-4}	
		1.2 kW ~ 2.4 kW	1.1×10^{-4}	
		2.4 kW ~ 6 kW	1.5×10^{-4}	
		6 kW ~ 12 kW	1.5×10^{-4}	
		12 kW ~ 24 kW	1.7×10^{-4}	
		24 kW ~ 32 kW	2.0×10^{-4}	
Power Factor		(50 Hz ~ 60 Hz)		
		-1 ~ 1	1.7×10^{-4}	
Harmonic Voltage		0.5 %	9.7×10^{-2}	
		0.5 % ~ 1 %	2.0×10^{-2}	
		1 % ~ 20 %	1.9×10^{-2}	
Harmonic Current		0.5 %	1.5×10^{-2}	
		0.5 % ~ 1 %	7.4×10^{-3}	
		1 % ~ 20 %	1.9×10^{-2}	
Flicker		P_{st} (0 ~ 5), 50 Hz		
		8.333 mHz	7.0×10^{-3}	
		16.667 mHz	8.0×10^{-3}	
		58.333 mHz	8.0×10^{-3}	
		325 mHz	1.6×10^{-2}	
		916.667 mHz	1.6×10^{-2}	
		13.5 Hz	2.9×10^{-2}	
		33.333 Hz	5.0×10^{-3}	
Frequency		16 Hz ~ 60 Hz	8.5×10^{-4}	
		60 Hz ~ 100 Hz	1.0×10^{-3}	
		100 Hz ~ 400 Hz	2.8×10^{-4}	
		400 Hz ~ 1 kHz	1.0×10^{-3}	

403. AC voltage, current & power

Measured Quantity Instrument or Gauge	Field Code	Range	CMC (The Confidence Level is about 95 %)	Comments
AC current shunts	40305			Reference Multimeter,
AC Resistance		(50 Hz ~ 60 Hz)		Calibrator/
		1 mΩ, 200 A	1.3×10^{-3}	SICT-T100-40305
		1 mΩ, 100 A	4.4×10^{-4}	
		(50 Hz ~ 1 kHz)		
		1 mΩ	2.3×10^{-3}	
		10 mΩ	5.2×10^{-4}	
		100 mΩ	3.7×10^{-4}	
		1 Ω	2.4×10^{-4}	
		10 Ω	2.4×10^{-4}	
		100 Ω	2.4×10^{-4}	
		1 kΩ	7.5×10^{-4}	
		10 kΩ	7.1×10^{-3}	
Voltage/current phase angle meters/synchro resolve meters	40307			Power Calibrator/
Phase		(50 Hz ~ 400 Hz)		SICT-T100-40307
		0° ~ 360°	0.058°	
Potential transformer test set	40308			Standard Potential transforme,
Ratio		(110 ~ 22 900) V		Ratio transformers/
		(-19.99 ~ 19.99) %	0.016 %	SICT-T100-40308
Phase		(-680 ~ 680)'	0.50'	
Potential transforme	40309			Standard Potential transforme/
Ratio		(110 ~ 100 000) V		SICT-T100-40309
		(-19.99 ~ 19.99) %	0.016 %	
Phase		(-680 ~ 680)'	0.50'	
Power factor meters	40310			Power Calibrator/
AC Power Factor		(50 Hz ~ 60 Hz)		SICT-T100-40310
		-1 ~ 1	9.0×10^{-4}	
AC power meters	40311			Power Calibrator, Calibrator/
AC Voltage		(1 mV ~ 100 mV)		SICT-T100-40311
		40 Hz ~ 10 kHz	1.7×10^{-4}	
		10 kHz ~ 50 kHz	2.9×10^{-4}	
		50 kHz ~ 100 kHz	6.6×10^{-4}	
		(100 mV ~ 1 V)		
		40 Hz ~ 10 kHz	6.6×10^{-5}	
		10 kHz ~ 50 kHz	9.6×10^{-5}	
		50 kHz ~ 100 kHz	1.6×10^{-4}	
		(1 V ~ 10 V)		
		40 Hz ~ 10 kHz	7.6×10^{-5}	
		10 kHz ~ 50 kHz	1.1×10^{-4}	
		50 kHz ~ 100 kHz	1.4×10^{-4}	
		(10 V ~ 100 V)		
		40 Hz ~ 10 kHz	7.2×10^{-5}	
		10 kHz ~ 50 kHz	1.1×10^{-4}	
		50 kHz ~ 100 kHz	1.8×10^{-4}	
		(100 V ~ 600 V)		
		40 Hz ~ 100 Hz	9.3×10^{-5}	
		100 Hz ~ 1 kHz	9.3×10^{-5}	
		1 kHz ~ 20 kHz	1.4×10^{-4}	
		(600 V ~ 1000 V)		
		40 Hz ~ 100 Hz	7.9×10^{-5}	
		100 Hz ~ 1 kHz	7.9×10^{-5}	
		1 kHz ~ 20 kHz	1.3×10^{-4}	

403. AC voltage, current & power

Measured Quantity Instrument or Gauge	Field Code	Range	CMC (The Confidence Level is about 95 %)	Comments
AC power meters	40311			Power Calibrator, Calibrator/ SICT-T100-40311
AC Current		(10 μA ~ 1 mA)		
		40 Hz ~ 1 kHz	8.0×10^{-5}	
		1 kHz ~ 5 kHz	1.0×10^{-4}	
		5 kHz ~ 10 kHz	5.8×10^{-4}	
		(1 mA ~ 10 mA)		
		40 Hz ~ 1 kHz	8.0×10^{-5}	
		1 kHz ~ 5 kHz	1.4×10^{-4}	
		5 kHz ~ 10 kHz	5.8×10^{-4}	
		(10 mA ~ 100 mA)		
		40 Hz ~ 1 kHz	1.0×10^{-4}	
		1 kHz ~ 5 kHz	1.3×10^{-4}	
		5 kHz ~ 10 kHz	5.3×10^{-4}	
		(100 mA ~ 1 A)		
		40 Hz ~ 1 kHz	1.4×10^{-4}	
		1 kHz ~ 5 kHz	1.7×10^{-4}	
		5 kHz ~ 10 kHz	9.9×10^{-4}	
		(1 A ~ 5 A)		
		40 Hz ~ 60 Hz	1.2×10^{-4}	
		60 Hz ~ 1 kHz	6.4×10^{-4}	
		(5 A ~ 10 A)		
		40 Hz ~ 60 Hz	1.3×10^{-4}	
		60 Hz ~ 1 kHz	5.0×10^{-4}	
		(10 A ~ 20 A)		
		40 Hz ~ 60 Hz	1.7×10^{-4}	
		60 Hz ~ 1 kHz	2.3×10^{-3}	
		(20 A ~ 50 A)		
		40 Hz ~ 60 Hz	1.9×10^{-4}	
		60 Hz ~ 500 Hz	5.2×10^{-3}	
		(50 A ~ 100 A)		
		40 Hz ~ 60 Hz	1.0×10^{-3}	
		60 Hz ~ 500 Hz	2.6×10^{-3}	
		(100 A ~ 200 A)		
		50 Hz ~ 60 Hz	1.0×10^{-3}	
AC Wattage		(50 Hz ~ 60 Hz)		
		1 mW	6.5×10^{-4}	
		1 mW ~ 10 mW	1.6×10^{-4}	
		10 mW ~ 100 mW	3.1×10^{-4}	
		100 mW ~ 240 mW	2.0×10^{-4}	
		240 mW ~ 600 mW	1.5×10^{-4}	
		600 mW ~ 1.2 W	1.5×10^{-4}	
		1.2 W ~ 6 W	1.7×10^{-4}	
		6 W ~ 2.4 kW	1.1×10^{-4}	
		2.4 kW ~ 4.8 kW	1.2×10^{-4}	
		4.8 kW ~ 6 kW	1.5×10^{-4}	
		6 kW ~ 12 kW	1.5×10^{-4}	
		12 kW ~ 24 kW	1.7×10^{-4}	
		24 kW ~ 32 kW	2.0×10^{-4}	

403. AC voltage, current & power

Measured Quantity Instrument or Gauge	Field Code	Range	CMC (The Confidence Level is about 95 %)	Comments
AC power meters	40311			Power Calibrator, Calibrator/
AC Wattage		(400 Hz)		SICT-T100-40311
		1 mW	6.5×10^{-4}	
		1 mW ~ 10 mW	1.6×10^{-4}	
		10 mW ~ 100 mW	3.1×10^{-4}	
		100 mW ~ 240 mW	2.0×10^{-4}	
		240 mW ~ 600 mW	1.5×10^{-4}	
		600 mW ~ 1.2 W	1.5×10^{-4}	
		1.2 W ~ 6 W	1.7×10^{-4}	
		6 W ~ 2.4 kW	1.1×10^{-4}	
		2.4 kW ~ 4.8 kW	1.2×10^{-4}	
		4.8 kW ~ 6 kW	1.5×10^{-4}	
		6 kW ~ 12 kW	1.5×10^{-4}	
		12 kW ~ 24 kW	1.7×10^{-4}	
		24 kW ~ 32 kW	1.9×10^{-4}	
DC Voltage		1 V	9.7×10^{-6}	
		1 V ~ 10 V	1.0×10^{-5}	
		10 V ~ 100 V	9.5×10^{-6}	
		100 V ~ 1 000 V	1.1×10^{-5}	
DC Current		1 mA	1.5×10^{-4}	
		1 mA ~ 10 mA	1.2×10^{-4}	
		10 mA ~ 100 mA	1.3×10^{-4}	
		100 mA ~ 1 A	2.4×10^{-4}	
		1 A ~ 10 A	7.0×10^{-4}	
		10 A ~ 20 A	1.1×10^{-3}	
DC Pwer		1 mW	5.2×10^{-3}	
		1 mW ~ 10 mW	2.5×10^{-3}	
		10 mW ~ 100 mW	2.4×10^{-3}	
		100 mW ~ 1 W	2.3×10^{-4}	
		1 W ~ 100 W	2.2×10^{-4}	
		100 W ~ 20 kW	6.9×10^{-4}	
Power Factor		(50 Hz ~ 60 Hz)		
		-1 ~ 1	9.0×10^{-4}	
Harmonic Voltage		0.5 %	1.4×10^{-2}	
		0.5 % ~ 1 %	7.2×10^{-3}	
		1 % ~ 3 %	3.4×10^{-3}	
		3 % ~ 5 %	2.8×10^{-3}	
		5 % ~ 10 %	2.5×10^{-3}	
		10 % ~ 20 %	2.4×10^{-3}	

403. AC voltage, current & power

Measured Quantity Instrument or Gauge	Field Code	Range	CMC (The Confidence Level is about 95 %)	Comments
AC power meters	40311			Power Calibrator, Calibrator/
Harmonic Current		0.5 %	1.4×10^{-2}	
		0.5 % ~ 1 %	7.2×10^{-3}	
		1 % ~ 3 %	3.4×10^{-3}	
		3 % ~ 5 %	2.8×10^{-3}	
		5 % ~ 10 %	2.5×10^{-3}	
		10 % ~ 20 %	2.4×10^{-3}	
Flicker		P_{st} (0 ~ 5), 50 Hz		
		8.333 mHz	7.3×10^{-3}	
		16.667 mHz	8.2×10^{-3}	
		58.333 mHz	8.2×10^{-3}	
		325 mHz	1.6×10^{-2}	
		916.667 mHz	1.6×10^{-2}	
		13.5 Hz	2.9×10^{-2}	
		33.333 Hz	5.4×10^{-3}	
Frequency		16 Hz ~ 60 Hz	6.9×10^{-4}	
		60 Hz ~ 100 Hz	7.5×10^{-4}	
		100 Hz ~ 400 Hz	5.0×10^{-4}	
		400 Hz ~ 1 kHz	1.3×10^{-3}	
AC power supplies	40312			Voltage Standard, Multimeter,
AC Voltage		(100 mV ~ 1 V)		Current Shunt/
		40 Hz ~ 5 kHz	5.8×10^{-4}	SICT-T100-40312
		(1 V ~ 10 V)		
		40 Hz ~ 5 kHz	7.0×10^{-5}	
		(10 V ~ 100 V)		
		40 Hz ~ 5 kHz	4.3×10^{-5}	
		(100 V ~ 340 V)		
		40 Hz ~ 5 kHz	5.4×10^{-5}	
Frequency		10 Hz ~ 100 Hz	8.3×10^{-6}	
		100 Hz ~ 1 kHz	1.0×10^{-6}	
		1 kHz ~ 5 kHz	4.0×10^{-7}	
AC Current		(1 mA ~ 10 mA)		
		40 Hz ~ 5 kHz	5.3×10^{-4}	
		(10 mA ~ 100 mA)		
		40 Hz ~ 5 kHz	5.3×10^{-4}	
		(100 mA ~ 1 A)		
		40 Hz ~ 1 kHz	1.2×10^{-3}	
		1 kHz ~ 5 kHz	1.3×10^{-3}	

403. AC voltage, current & power

Measured Quantity Instrument or Gauge	Field Code	Range	CMC (The Confidence Level is about 95 %)	Comments
AC power supplies	40312			Voltage Standard, Multimeter,
AC Current		(1 A ~ 10 A)		Current Shunt/
		40 Hz ~ 1 kHz	1.2×10^{-3}	SICT-T100-40312
		(10 A ~ 20 A)		
		40 Hz ~ 60 Hz	9.8×10^{-4}	
		(20 A ~ 30 A)		
		40 Hz ~ 60 Hz	1.0×10^{-3}	
		(30 A ~ 50 A)		
		40 Hz ~ 60 Hz	5.6×10^{-4}	
		(1 A ~ 10 A)		
		40 Hz ~ 1 kHz	1.2×10^{-3}	
		(10 A ~ 20 A)		
		40 Hz ~ 60 Hz	9.8×10^{-4}	
AC Current		(20 A ~ 30 A)		
		40 Hz ~ 60 Hz	1.0×10^{-3}	
DC Voltage		0 mV ~ 100 mV	5.8×10^{-5}	
		100 mV ~ 1 V	5.8×10^{-5}	
		1 V ~ 10 V	6.3×10^{-5}	
		10 V ~ 100 V	6.5×10^{-5}	
		100 V ~ 420 V	9.6×10^{-5}	
DC Current		0 mA ~ 200 mA	3.5×10^{-5}	
		200 mA ~ 2 A	2.5×10^{-5}	
		2 A ~ 20 A	7.9×10^{-5}	
		20 A ~ 100 A	9.4×10^{-5}	
Load Regulation		0 mV ~ 5 mV	1.4×10^{-4}	
		5 mV ~ 50 mV	1.4×10^{-5}	
		50 mV ~ 500 mV	1.4×10^{-6}	
Ripple		0 mV ~ 1 mV	6.5×10^{-2}	
		1 mV ~ 10 mV	9.5×10^{-3}	
		10 mV ~ 50 mV	1.3×10^{-2}	
Puncture/safety testers	40313			AC/DC Kilovoltmeter,
AC Voltage		0.0 kV ~ 0.5 kV	1.3×10^{-3}	High Voltage Digital Meter,
		0.5 kV ~ 1.0 kV	6.4×10^{-4}	Reference Multimeter/
		1.0 kV ~ 100 kV	1.5×10^{-2}	SICT-T100-40313
DC Voltage		0.0 kV ~ 0.5 kV	1.3×10^{-3}	
		0.5 kV ~ 1.0 kV	6.4×10^{-4}	
		1.0 kV ~ 2.0 kV	4.1×10^{-3}	
		2.0 kV ~ 10 kV	4.0×10^{-3}	
		10 kV ~ 60 kV	5.0×10^{-3}	
		60 kV ~ 95 kV	1.2×10^{-2}	
		95 kV ~ 100 kV	1.5×10^{-2}	

403. AC voltage, current & power

Measured Quantity Instrument or Gauge	Field Code	Range	CMC (The Confidence Level is about 95 %)	Comments
Puncture/safety testers	40313			AC/DC Kilovoltmeter,
AC Current		0 mA ~ 0.5 mA	1.5×10^{-3}	High Voltage Digital Meter,
		0.5 mA ~ 1 mA	8.2×10^{-4}	Reference Multimeter/
		1 mA ~ 2 mA	3.2×10^{-3}	SICT-T100-40313
		2 mA ~ 5 mA	1.5×10^{-3}	
		5 mA ~ 10 mA	8.3×10^{-4}	
		10 mA ~ 100 mA	8.3×10^{-4}	
DC Current		0 mA ~ 0.5 mA	1.3×10^{-3}	
		0.5 mA ~ 1 mA	6.4×10^{-4}	
		1 mA ~ 2 mA	3.2×10^{-3}	
		2 mA ~ 5 mA	1.3×10^{-3}	
		5 mA ~ 100 mA	6.4×10^{-4}	
Resistance		0 mΩ ~ 1 mΩ	1.3×10^{-3}	
		1 mΩ ~ 10 mΩ	5.8×10^{-4}	
		10 mΩ ~ 100 mΩ	8.7×10^{-5}	
		100 mΩ ~ 1 Ω	1.3×10^{-3}	
		1 Ω ~ 10 Ω	5.8×10^{-4}	
		10 Ω ~ 100 Ω	8.7×10^{-5}	
		100 Ω ~ 1 kΩ	6.4×10^{-4}	
		1 kΩ ~ 10 kΩ	6.6×10^{-5}	
		10 kΩ ~ 100 kΩ	6.7×10^{-5}	
Insulation Voltage		0 V ~ 50 V	1.3×10^{-3}	
		50 V ~ 500 V	1.3×10^{-4}	
		500 V ~ 1 000 V	7.0×10^{-4}	
Insulation Resistance		0 kΩ ~ 1 kΩ	6.4×10^{-4}	
		1 kΩ ~ 10 kΩ	1.2×10^{-4}	
		10 kΩ ~ 100 kΩ	1.0×10^{-4}	
		100 kΩ ~ 1 MΩ	6.4×10^{-4}	
		1 MΩ ~ 10 MΩ	5.0×10^{-4}	
		10 MΩ ~ 100 MΩ	5.0×10^{-4}	
		100 MΩ ~ 1 GΩ	8.8×10^{-4}	
		1 GΩ ~ 10 GΩ	1.2×10^{-3}	
		10 GΩ ~ 50 GΩ	4.0×10^{-3}	
Leakage current		10 μA ~ 100 μA	9.5×10^{-4}	
		100 μA ~ 1 mA	6.4×10^{-4}	
		1 mA ~ 10 mA	6.3×10^{-4}	
Output AC Current		0 A ~ 3 A	8.1×10^{-4}	
		3 A ~ 10 A	1.2×10^{-3}	
		10 A ~ 20 A	9.8×10^{-4}	
		20 A ~ 30 A	1.0×10^{-3}	
		30 A ~ 60 A	5.0×10^{-4}	
Timer		1 s ~ 100 s	5.8×10^{-6}	
		100 s ~ 1 000 s	8.2×10^{-6}	

403. AC voltage, current & power

Measured Quantity Instrument or Gauge	Field Code	Range	CMC (The Confidence Level is about 95 %)	Comments
Power recorders	40314			Power Energy Calibrator/
AC Wattage		(50 Hz ~ 60 Hz)		SICT-T100-40314
		1 mW ~ 10 mW	1.6×10^{-4}	
		10 mW ~ 100 mW	3.1×10^{-4}	
		100 mW ~ 240 mW	2.0×10^{-4}	
		240 mW ~ 600 mW	1.5×10^{-4}	
		600 mW ~ 1.2 W	1.5×10^{-4}	
		1.2 W ~ 6 W	1.7×10^{-4}	
		6 W ~ 24 W	1.1×10^{-4}	
		24 W ~ 60 W	1.1×10^{-4}	
		60 W ~ 120 W	1.1×10^{-4}	
		120 W ~ 240 W	1.1×10^{-4}	
		240 W ~ 600 W	1.1×10^{-4}	
		600 W ~ 1.2 kW	1.1×10^{-4}	
		1.2 kW ~ 2.4 kW	1.1×10^{-4}	
		2.4 kW ~ 4.8 kW	1.2×10^{-4}	
		4.8 kW ~ 6 kW	1.5×10^{-4}	
		6 kW ~ 12 kW	1.5×10^{-4}	
		12 kW ~ 24 kW	1.7×10^{-4}	
		24 kW ~ 32 kW	2.0×10^{-4}	
		(400 Hz)		
		1 mW ~ 10 mW	1.6×10^{-4}	
		10 mW ~ 100 mW	3.1×10^{-4}	
		100 mW ~ 240 mW	2.0×10^{-4}	
		240 mW ~ 600 mW	1.5×10^{-4}	
		600 mW ~ 1.2 W	1.5×10^{-4}	
		1.2 W ~ 6 W	1.7×10^{-4}	
		6 W ~ 24 W	1.1×10^{-4}	
		24 W ~ 60 W	1.1×10^{-4}	
		60 W ~ 120 W	1.1×10^{-4}	
		120 W ~ 240 W	1.1×10^{-4}	
		240 W ~ 600 W	1.1×10^{-4}	
		600 W ~ 1.2 kW	1.1×10^{-4}	
		1.2 kW ~ 2.4 kW	1.1×10^{-4}	
		2.4 kW ~ 4.8 kW	1.2×10^{-4}	
		2.4 kW ~ 6 kW	1.5×10^{-4}	
		6 kW ~ 12 kW	1.5×10^{-4}	
		12 kW ~ 24 kW	1.7×10^{-4}	
		24 kW ~ 32 kW	1.9×10^{-4}	
Current transformer test set	40315			Current transforme,
Ratio		(5 ~ 1 500) A		Ratio transformers/
		(-19.99 ~ 19.99) %	0.016 %	SICT-T100-40315
Phase		(-680 ~ 680)'	0.50'	
Current transformer	40316			Current transforme/
Ratio		(5 ~ 10 000) A		SICT-T100-40316
		(-19.99 ~ 19.99) %	0.016 %	
Phase		(-680 ~ 680)'	0.50'	
AC voltmeters	40318			Reference Multimeter,
AC Voltage		(10 Hz ~ 100 kHz)		Calibrator/
		300 μV ~ 1 mV	9.5×10^{-3}	SICT-T100-40318
		1 mV ~ 3 mV	3.4×10^{-3}	
		3 mV ~ 10 mV	1.4×10^{-3}	
		10 mV ~ 30 mV	1.2×10^{-3}	
		30 mV ~ 100 mV	7.3×10^{-4}	
		100 mV ~ 300 mV	2.9×10^{-4}	
		300 mV ~ 1 V	1.8×10^{-4}	
		1 V ~ 3 V	2.6×10^{-4}	
		3 V ~ 10 V	1.6×10^{-4}	
		10 V ~ 30 V	3.6×10^{-4}	
		30 V ~ 300 V	2.2×10^{-4}	

403. AC voltage, current & power

Measured Quantity Instrument or Gauge	Field Code	Range	CMC (The Confidence Level is about 95 %)	Comments
AC voltmeters	40318			Reference Multimeter,
AC Voltage		(10 Hz ~ 1 kHz)		Calibrator/
		100 V ~ 1 000 V	1.1×10^{-4}	SICT-T100-40318
		(1 kHz ~ 1 MHz)		
		1 mV ~ 10 mV	5.4×10^{-3}	
		10 mV ~ 100 mV	3.6×10^{-3}	
		100 mV ~ 1 V	2.3×10^{-3}	
		1 V ~ 20 V	1.9×10^{-3}	
		(1 MHz ~ 30 MHz)		
		25 mV ~ 100 mV	1.3×10^{-2}	
		100 mV ~ 300 mV	2.1×10^{-2}	
		300 mV ~ 1 V	1.4×10^{-2}	
		1 V ~ 2 V	1.3×10^{-2}	
AC Output Voltage		(10 Hz ~ 100 kHz)		
		1 mV ~ 1 V	1.6×10^{-4}	
		100 mV ~ 1 V	1.2×10^{-4}	
DC Output Voltage		1 mV ~ 100 mV	1.0×10^{-5}	
		100 mV ~ 1 V	8.6×10^{-6}	
Watt hour meters	40319			Power Calibrator/
Watt Hour		(50 Hz ~ 400 Hz)		SICT-T100-40319
		1 Wh ~ 120 Wh	1.5×10^{-4}	
		120 Wh ~ 240 Wh	1.5×10^{-4}	
		240 Wh ~ 600 Wh	1.5×10^{-4}	
		600 Wh ~ 1.2 kWh	1.5×10^{-4}	
		1.2 kWh ~ 2.4 kWh	1.5×10^{-4}	
		2.4 kWh ~ 6 kWh	3.8×10^{-4}	
		6 kWh ~ 12 kWh	3.8×10^{-4}	
		12 kWh ~ 24 kWh	3.8×10^{-4}	
		24 kWh ~ 32 kWh	3.8×10^{-4}	
Ratio transformers	40321			Calibrator/
Ratio		PT		SICT-T100-40321
		± (0.005 ~ 1.000) %	0.006 %	
		± (1.000 ~ 19.00) %	0.01 %	
		CT		
		± (0.005 ~ 1.000) %	0.019 %	
		± (1.000 ~ 19.00) %	0.02 %	
Phase		PT		
		± (0.060 ~ 1.500)'	0.060 '	
		± (1.500 ~ 15.00)'	0.06 '	
		± (15.00 ~ 150.0)'	0.2 '	
		± (150.0 ~ 690)'	1 '	
		CT		
		± (0.060 ~ 1.500)'	0.060 '	
		± (1.500 ~ 15.00)'	0.06 '	
		± (15.00 ~ 150.0)'	0.2 '	
		± (150.0 ~ 690)'	1 '	

404. Other DC & LF measurements

Measured Quantity Instrument or Gauge	Field Code	Range	CMC (The Confidence Level is about 95 %)	Comments
LF amplifiers	40401			Reference Multimeter/
Amplifier		(10 Hz)		SICT-T100-40401
		0 V ~ 1 V	0.26 mV	
		1 V ~ 3.162 3 V	2.2 mV	
		3.162 3 V ~ 10 V	2.9 mV	
		10 V ~ 31.623 V	22 mV	
		31.623 V ~ 100 V	30 mV	
		100 V ~ 316.23 V	0.20 V	
		316.23 V ~ 1 000 V	0.26 V	
		(10 Hz)		
		0 dB ~ 50 dB	0.005 8 dB	
		50 dB ~ 60 dB	0.005 9 dB	
		(10 Hz ~ 100 Hz)		
		0 V ~ 1 V	0.13 mV	
		1 V ~ 3.162 3 V	1.3 mV	
		3.162 3 V ~ 10 V	1.8 mV	
		10 V ~ 31.623 V	15 mV	
		31.623 V ~ 100 V	19 mV	
		100 V ~ 316.23 V	0.17 V	
		316.23 V ~ 1 000 V	0.20 V	
		(10 Hz ~ 100 Hz)		
		0 dB ~ 60 dB	0.005 8 dB	
		(100 Hz ~ 1 kHz)		
		0 V ~ 1 V	0.12 mV	
		1 V ~ 3.162 3 V	1.3 mV	
		3.162 3 V ~ 10 V	1.7 mV	
		10 V ~ 31.623 V	14 mV	
		31.623 V ~ 100 V	18 mV	
		100 V ~ 316.23 V	0.17 V	
		316.23 V ~ 1 000 V	0.20 V	
		(100 Hz ~ 1 kHz)		
		0 dB ~ 60 dB	0.005 8 dB	
		(1 kHz ~ 10 kHz)		
		0 V ~ 1 V	0.13 mV	
		1 V ~ 3.162 3 V	1.3 mV	
		3.162 3 V ~ 10 V	1.8 mV	
		10 V ~ 31.623 V	15 mV	
		31.623 V ~ 100 V	19 mV	
		(1 kHz ~ 10 kHz)		
		0 dB ~ 40 dB	0.005 8 dB	
		(10 kHz ~ 100 kHz)		
		0 V ~ 1 V	0.86 mV	
		1 V ~ 3.162 3 V	4.9 mV	
		3.162 3 V ~ 10 V	8.5 mV	
		10 V ~ 31.623 V	54 mV	
		31.623 V ~ 100 V	88 mV	
		(10 kHz ~ 100 kHz)		
		0 dB ~ 10 dB	0.005 9 dB	
		10 dB ~ 20 dB	0.006 2 dB	
		20 dB ~ 30 dB	0.005 9 dB	
		30 dB ~ 40 dB	0.006 2 dB	

404. Other DC & LF measurements

Measured Quantity Instrument or Gauge	Field Code	Range	CMC (The Confidence Level is about 95 %)	Comments
DC/LF attenuators	40402			Reference Multimeter/
Attenuation		(10 Hz)		SICT-T100-40402
		0 dB ~ 10 dB	0.005 8 dB	
		10 dB ~ 20 dB	0.006 2 dB	
		20 dB ~ 60 dB	0.005 8 dB	
		(10 Hz ~ 100 Hz)		
		0 dB ~ 10 dB	0.005 8 dB	
		10 dB ~ 20 dB	0.006 0 dB	
		20 dB ~ 60 dB	0.005 8 dB	
		(100 Hz ~ 1 kHz)		
		0 dB ~ 10 dB	0.005 8 dB	
		10 dB ~ 20 dB	0.006 0 dB	
		20 dB ~ 60 dB	0.005 8 dB	
		(1 kHz ~ 10 kHz)		
		0 dB ~ 10 dB	0.005 8 dB	
		10 dB ~ 20 dB	0.006 0 dB	
		20 dB ~ 60 dB	0.005 8 dB	
		(10 kHz ~ 100 kHz)		
		0 dB ~ 1 dB	0.006 6 dB	
		1 dB ~ 10 dB	0.006 0 dB	
		10 dB ~ 20 dB	0.008 0 dB	
		20 dB ~ 30 dB	0.006 4 dB	
		30 dB ~ 60 dB	0.006 0 dB	
Multimeter calibrators	40403			Reference Multimeter/
DC Voltage		0 mV ~ 100 mV	3.0×10^{-7}	SICT-T100-40403
		100 mV ~ 1 V	3.0×10^{-7}	
		1 V ~ 10 V	3.0×10^{-7}	
		10 V ~ 100 V	3.0×10^{-7}	
		100 V ~ 1 100 V	3.0×10^{-7}	
DC Current		0 μA ~ 10 μA	6.8×10^{-6}	
		10 μA ~ 100 μA	6.8×10^{-6}	
		100 μA ~ 1 mA	6.8×10^{-6}	
		1 mA ~ 10 mA	6.8×10^{-6}	
		10 mA ~ 100 mA	6.8×10^{-6}	
		100 mA ~ 1 A	6.8×10^{-6}	
		1 A ~ 10 A	6.8×10^{-6}	
		10 A ~ 30 A	1.2×10^{-5}	
AC Voltage		(1 mV ~ 100 mV)		
		10 Hz ~ 1 kHz	2.7×10^{-5}	
		1 kHz ~ 10 kHz	2.7×10^{-5}	
		10 kHz ~ 100 kHz	2.7×10^{-5}	
		100 kHz ~ 1 MHz	1.5×10^{-4}	
		(100 mV ~ 1 V)		
		10 Hz ~ 1 kHz	2.0×10^{-5}	
		1 kHz ~ 10 kHz	2.0×10^{-5}	
		10 kHz ~ 100 kHz	2.0×10^{-5}	
		100 kHz ~ 1 MHz	1.1×10^{-4}	

404. Other DC & LF measurements

Measured Quantity Instrument or Gauge	Field Code	Range	CMC (The Confidence Level is about 95 %)	Comments
Multimeter calibrators	40403			Reference Multimeter/
DC Voltage		(1 V ~ 10 V)		SICT-T100-40403
		10 Hz ~ 1 kHz	2.0×10^{-5}	
		1 kHz ~ 10 kHz	2.0×10^{-5}	
		10 kHz ~ 100 kHz	2.0×10^{-5}	
		100 kHz ~ 1 MHz	1.1×10^{-4}	
		(10 V ~ 100 V)		
		10 Hz ~ 1 kHz	2.0×10^{-5}	
		1 kHz ~ 10 kHz	2.0×10^{-5}	
		10 kHz ~ 100 kHz	2.0×10^{-5}	
		100 kHz ~ 1 MHz	4.9×10^{-5}	
		(100 V ~ 1 000 V)		
		10 Hz ~ 1 kHz	3.5×10^{-5}	
		1 kHz ~ 10 kHz	3.5×10^{-5}	
		10 kHz ~ 20 kHz	4.5×10^{-5}	
AC Current		(10 μA ~ 1 mA)		
		40 Hz ~ 500 Hz	2.1×10^{-5}	
		500 Hz ~ 1 kHz	2.1×10^{-5}	
		1 kHz ~ 10 kHz	2.1×10^{-5}	
		(1 mA ~ 10 mA)		
		40 Hz ~ 500 Hz	2.1×10^{-5}	
		500 Hz ~ 1 kHz	2.1×10^{-5}	
		1 kHz ~ 10 kHz	2.1×10^{-5}	
		(10 mA ~ 100 mA)		
		40 Hz ~ 500 Hz	2.1×10^{-5}	
		500 Hz ~ 1 kHz	2.1×10^{-5}	
		1 kHz ~ 10 kHz	2.1×10^{-5}	
		(100 mA ~ 1 A)		
		40 Hz ~ 500 Hz	2.6×10^{-5}	
		500 Hz ~ 1 kHz	2.6×10^{-5}	
		1 kHz ~ 10 kHz	2.6×10^{-5}	
		(1 A ~ 10 A)		
		40 Hz ~ 500 Hz	3.6×10^{-5}	
		500 Hz ~ 1 kHz	3.6×10^{-5}	
		1 kHz ~ 10 kHz	8.0×10^{-5}	
		(10 A ~ 20 A)		
		40 Hz ~ 500 Hz	3.5×10^{-5}	
		500 Hz ~ 1 kHz	3.5×10^{-5}	
		1 kHz ~ 10 kHz	9.5×10^{-5}	
		(20 A ~ 30 A)		
		40 Hz ~ 500 Hz	5.2×10^{-5}	
		500 Hz ~ 1 kHz	5.2×10^{-5}	
		1 kHz ~ 10 kHz	7.2×10^{-5}	

404. Other DC & LF measurements

Measured Quantity Instrument or Gauge	Field Code	Range	CMC (The Confidence Level is about 95 %)	Comments
Multimeter calibrators	40403			Reference Multimeter/
Resistance		1 Ω ~ 10 Ω	5.7×10^{-7}	SICT-T100-40403
		10 Ω ~ 100 Ω	6.0×10^{-7}	
		100 Ω ~ 1 kΩ	5.5×10^{-7}	
		1 kΩ ~ 10 kΩ	5.5×10^{-7}	
		10 kΩ ~ 100 kΩ	5.2×10^{-7}	
		100 kΩ ~ 1 MΩ	1.1×10^{-6}	
		1 MΩ ~ 10 MΩ	1.1×10^{-6}	
		10 MΩ ~100 MΩ	2.2×10^{-6}	
Oscilloscope calibrators	40404			Calibrator/
DC Voltage Amplitude		0 mV ~ 1 mV	5.8×10^{-4}	SICT-T100-40404
		1 mV ~ 10 mV	5.9×10^{-5}	
		10 mV ~ 100 mV	5.8×10^{-5}	
		100 mV ~ 1 V	5.8×10^{-5}	
		1 V ~ 10 V	5.8×10^{-5}	
		10 V ~ 100 V	5.8×10^{-5}	
		100 V ~ 200 V	2.9×10^{-5}	
AC Voltage Amplitude		(10 Hz ~ 10 kHz)		
		1 μV ~ 1 mV	6.8×10^{-4}	
		1 mV ~ 10 mV	7.8×10^{-5}	
		10 mV ~ 100 mV	6.3×10^{-5}	
		100 mV ~ 1 V	6.0×10^{-5}	
		1 V ~ 10 V	6.0×10^{-5}	
		10 V ~ 100 V	6.1×10^{-5}	
		100 V ~ 200 V	3.3×10^{-5}	
Sine Wave Generator		50 kHz ~ 1 MHz	9.8×10^{-4}	
		1 MHz ~ 100 MHz	1.7×10^{-2}	
		100 MHz ~ 1 GHz	1.7×10^{-2}	
		1 GHz ~ 4 GHz	1.8×10^{-2}	
		4 GHz ~ 6 GHz	1.9×10^{-2}	
Time Marker Generator		100 ps ~ 5 s	3.1×10^{-9}	
Impedance Mesurement		50 Ω	1.9×10^{-4}	
		1 MΩ	6.1×10^{-5}	
CD/DVD meters/analyzers	40405			Modulation Domain Analyzer/
Jitter		1.0 ns	1.7 ps	SICT-T100-40405
		1.0 ns ~ 2.0 ns	3.3 ps	
		2.0 ns ~ 5.0 ns	8.0 ps	
		5.0 ns ~ 10.0 ns	17 ps	
		10.0 ns ~ 20.0 ns	33 ps	
		20.0 ns ~ 30.0 ns	48 ps	
		30.0 ns ~ 40.0 ns	64 ps	
		40.0 ns ~ 50.0 ns	80 ps	
		50.0 ns ~ 60.0 ns	96 ps	
		1 %	0.05 %	
		2 %	0.09 %	
		4 %	0.19 %	
		8 %	0.36 %	
		10 %	0.45 %	
		15 %	0.68 %	

404. Other DC & LF measurements

Measured Quantity Instrument or Gauge	Field Code	Range	CMC (The Confidence Level is about 95 %)	Comments
Video signal generators	40406			Video Measurement/
NTSC, PAL Multiburst		0.1 MHz ~ 1 MHz	6.0×10^{-2}	SICT-T100-40406
		1 MHz ~ 2 MHz	6.2×10^{-3}	
		2 MHz ~ 6 MHz	3.1×10^{-3}	
NTSC, PAL, SECAM Pulse and Bar		0 ns ~ 300 ns	4.2×10^{-4}	
		0 mV ~ 1 000 mV	3.5×10^{-3}	
NTSC, PAL , SECAM Frequency		1 Hz ~ 10 MHz	1.6×10^{-9}	
Video frequency		10 Hz ~ 100 Hz	6.2×10^{-8}	
		100 Hz ~ 500 MHz	6.2×10^{-9}	
Video level		30 mV ~ 600 mV	2.6×10^{-3}	
		600 mV ~ 1 200 mV	2.3×10^{-3}	
TTL Sync level		1 V ~ 5 V	2.7×10^{-3}	
D-TV Level		30 mV ~ 600 mV	2.6×10^{-3}	
		600 mV ~ 1 200 mV	2.3×10^{-3}	
NTSC, PAL H-Timming		0 mV ~ 100 mV	2.7×10^{-3}	
		100 mV ~ 1 000 mV	3.3×10^{-3}	
		0 ns ~ 80 ns	1.2×10^{-2}	
		80 ns ~ 300 ns	3.2×10^{-3}	
		300 ns ~ 3 μs	2.1×10^{-3}	
		3 μs ~ 7 μs	7.4×10^{-3}	
		7 μs ~ 10 μs	4.2×10^{-3}	
NTSC, PAL Color Bar(Luminance Level)		0 mV	0.06 mV	
		0 mV ~ 1 000 mV	3.3×10^{-3}	
NTSC, PAL Color Bar(Chrominance Level)		0 mV	0.06 mV	
		0 mV ~ 1 000 mV	3.3×10^{-3}	
NTSC, PAL Color Bar(Phase)		0° ~ 360°	0.13°	
SECAM Color Bar level		0 mV ~ 1 000 mV	1.2×10^{-2}	
SECAM Color Bar Frequency		(D'R & D'B)		
		3 MHz ~ 5 MHz	1.2×10^{-3}	
RF Output frequency		10 kHz	6.0×10^{-4}	
		10 kHz ~ 100 kHz	6.0×10^{-5}	
		100 kHz ~ 1 MHz	6.0×10^{-4}	
		1 MHz ~ 10 MHz	6.0×10^{-5}	
		10 MHz ~ 100 MHz	6.0×10^{-6}	
		100 MHz ~ 1 000 MHz	6.0×10^{-7}	
RF Output level		0.1 mV ~ 1 mV	1.3×10^{-2}	
		1 mV ~ 10 mV	1.4×10^{-2}	
		10 mV ~ 500 mV	1.3×10^{-2}	
Sound Frequency		10 Hz ~ 1 MHz	6.1×10^{-8}	

404. Other DC & LF measurements

Measured Quantity Instrument or Gauge	Field Code	Range	CMC (The Confidence Level is about 95 %)	Comments
Audio distortion analyzers/meters	40407			Calibrator/
AC Voltage		(1 mV)		SICT-T100-40407
		10 Hz ~ 10 kHz	5.5×10^{-3}	
		10 kHz ~100 kHz	9.2×10^{-3}	
		(1 mV ~ 10 mV)		
		10 Hz ~ 10 kHz	9.8×10^{-4}	
		10 kHz ~100 kHz	1.4×10^{-3}	
		(10 mV ~ 100 mV)		
		10 Hz ~ 10 kHz	7.3×10^{-4}	
		10 kHz ~ 100 kHz	8.9×10^{-4}	
		(100 mV ~ 100 V)		
		10 Hz ~ 100 kHz	7.0×10^{-4}	
		(100 V ~ 1000 V)		
		100 Hz ~ 1 kHz	6.2×10^{-4}	
DC Voltage		1 mV ~ 10 mV	8.1×10^{-4}	
		10 mV ~ 500 V	6.2×10^{-4}	
Distortion		(400 Hz ~ 1 kHz)		
		-10 dB ~ -60 dB	0.24 dB	
		-50 dB ~ -60 dB	0.33 dB	
		-60 dB ~ -70 dB	0.42 dB	
		-70 dB ~ -80 dB	0.80 dB	
		(400 Hz ~ 1 kHz)		
		31.6 % ~ 0.031 6 %	2.4×10^{-2}	
		0.031 6 % ~ 0.01 %	3.1×10^{-2}	
D/T Calibrator		(400 Hz ~ 1 kHz)		
		-10 dB ~ -30 dB	0.062 dB	
		-30 dB ~ -40 dB	0.076 dB	
		-40 dB ~ -50 dB	0.11 dB	
		-50 dB ~ -60 dB	0.12 dB	
		-60 dB ~ -70 dB	0.18 dB	
		-70 dB ~ -80 dB	0.19 dB	
LF filters	40408			Audio Analyzer/
Filter		10 Hz ~ 100 kHz	5.8×10^{-4}	SICT-T100-40408
LF/Audiosignalanalyzers	40409			Calibrator, Reference
Output Frequency		1 Hz ~ 200 kHz	5.8×10^{-6}	Multimeter/
				SICT-T100-40409
AC Output Level		(1 Hz ~ 10 Hz)		
		0 mV ~ 10 mV	8.6 μV	
		10 mV ~ 100 mV	20 μV	
		100 mV ~ 1 V	0.15 mV	
		1 V ~ 10 V	1.5 mV	
		10 V ~ 30 V	7.0 mV	
		-20 dBm	0.005 8 dB	
		-20 dBm ~ -10 dBm	0.005 9 dB	
		-10 dBm ~ 0 dBm	0.005 8 dB	
		0 dBm ~ +10 dBm	0.005 9 dB	

404. Other DC & LF measurements

Measured Quantity Instrument or Gauge	Field Code	Range	CMC (The Confidence Level is about 95 %)	Comments
LF/Audiosignalanalyzers	40409			Calibrator, Reference
AC Output Level		(10 Hz ~ 100 Hz)		Multimeter/
		0 mV ~ 10 mV	8.4 μV	SICT-T100-40409
		10 mV ~ 100 mV	18 μV	
		100 mV ~ 1 V	0.13 mV	
		1 V ~ 10 V	1.3 mV	
		10 V ~ 30 V	6.4 mV	
		-20 dBm	0.005 8 dB	
		-20 dBm ~ -10 dBm	0.005 9 dB	
		-10 dBm ~ 0 dBm	0.005 8 dB	
		0 dBm ~ +10 dBm	0.005 9 dB	
		(100 Hz ~ 1 kHz)		
		0 mV ~ 10 mV	7.0 μV	
		10 mV ~ 100 mV	16 μV	
		100 mV ~ 1 V	0.14 mV	
		1 V ~ 10 V	1.1 mV	
		10 V ~ 30 V	5.4 mV	
		-20 dBm	0.005 8 dB	
		-20 dBm ~ -10 dBm	0.005 9 dB	
		-10 dBm ~ 0 dBm	0.005 8 dB	
		0 dBm ~ +10 dBm	0.005 9 dB	
		(1 kHz ~ 10 kHz)		
		0 mV ~ 10 mV	8.9 μV	
		10 mV ~ 100 mV	18 μV	
		100 mV ~ 1 V	0.14 mV	
		1 V ~ 10 V	1.4 mV	
		10 V ~ 30 V	6.9 mV	
		-20 dBm	0.005 8 dB	
		-20 dBm ~ -10 dBm	0.005 9 dB	
		-10 dBm ~ 0 dBm	0.005 8 dB	
		0 dBm ~ +10 dBm	0.005 9 dB	
		(10 kHz ~ 100 kHz)		
		0 mV ~ 10 mV	35 μV	
		10 mV ~ 100 mV	0.11 mV	
		100 mV ~ 1 V	0.82 mV	
		1 V ~ 10 V	8.2 mV	
		10 V ~ 30 V	44 mV	
		-20 dBm	0.007 6 dB	
		-20 dBm ~ -10 dBm	0.009 1 dB	
		-10 dBm ~ 0 dBm	0.007 0 dB	
		0 dBm ~ +10 dBm	0.009 1 dB	
AC Output Level Flatness		10 Hz	0.001 3 dB	
		10 Hz ~ 100 Hz	0.001 1 dB	
		100 Hz ~ 10 kHz	0.001 1 dB	
		10 kHz ~ 100 kHz	0.006 2 dB	
Output Attenuation		0 dB ~ -60 dB	0.005 8 dB	

404. Other DC & LF measurements

Measured Quantity Instrument or Gauge	Field Code	Range	CMC (The Confidence Level is about 95 %)	Comments
LF/Audiosignalanalyzers	40409			Calibrator, Reference
Output DC Offset		0 mV	0.74 μV	Multimeter/
		0 mV ~ 10 mV	0.74 μV	SICT-T100-40409
		10 mV ~ 100 mV	6.1 μV	
		100 mV ~ 1 V	61 μV	
		1 V ~ 10 V	0.61 mV	
		10 V ~ 50 V	0.71 mV	
Input Frequency		1 Hz ~ 200 kHz	6.1×10^{-7}	
AC Input Level Flatness		10 Hz	0.002 0 dB	
		10 Hz ~ 10 kHz	0.001 0 dB	
		10 kHz ~ 100 kHz	0.003 3 dB	
DC Input Level		1 mV ~ 10 mV	5.8 μV	
		10 mV ~ 100 mV	58 μV	
		100 mV ~ 1 V	0.58 mV	
		1 V ~ 10 V	5.8 mV	
		10 V ~ 100 V	58 mV	
		100 V ~ 300 V	58 mV	
Input Distortion		(400 Hz)		
		-20 dB	0.30 dB	
		-20 dB ~ -30 dB	0.30 dB	
		-30 dB ~ -40 dB	0.30 dB	
		-40 dB ~ -50 dB	0.30 dB	
		-50 dB ~ -60 dB	0.38 dB	
		-60 dB ~ -70 dB	0.66 dB	
		-70 dB ~ -80 dB	1.3 dB	
		(1 kHz)		
		-20 dB	0.30 dB	
		-20 dB ~ -30 dB	0.30 dB	
		-30 dB ~ -40 dB	0.30 dB	
		-40 dB ~ -50 dB	0.30 dB	
		-50 dB ~ -60 dB	0.30 dB	
		-60 dB ~ -70 dB	0.66 dB	
		-70 dB ~ -80 dB	1.3 dB	
		(400 Hz)		
		0.01 %	6.0×10^{-4} %	
		0.031 6 %	6.5×10^{-4} %	
		0.1 %	8.6×10^{-4} %	
		0.316 %	2.0×10^{-3} %	
		1 %	9.6×10^{-3} %	
		3.16 %	3.3×10^{-2} %	
		10 %	0.16 %	
		(1 kHz)		
		0.01 %	6.0×10^{-4} %	
		0.031 6 %	6.5×10^{-4} %	
		0.1 %	7.7×10^{-4} %	
		0.316 %	2.0×10^{-3} %	
		1 %	9.6×10^{-3} %	
		3.16 %	3.3×10^{-2} %	
		10 %	0.16 %	

404. Other DC & LF measurements

Measured Quantity Instrument or Gauge	Field Code	Range	CMC (The Confidence Level is about 95 %)	Comments
LF/Audiosignalanalyzers	40409			Calibrator, Reference
AC Input Level		(10 Hz)		Multimeter/
		1 mV	4.7 μV	SICT-T100-40409
		1 mV ~ 10 mV	7.9 μV	
		10 mV ~ 100 mV	64 μV	
		100 mV ~ 1 V	0.67 mV	
		1 V ~ 10 V	6.7 mV	
		10 V ~ 100 V	67 mV	
		100 V ~ 300 V	0.17 V	
		(100 Hz)		
		1 mV	4.6 μV	
		1 mV ~ 10 mV	4.8 μV	
		10 mV ~ 100 mV	14 μV	
		100 mV ~ 1 V	0.11 mV	
		1 V ~ 10 V	1.1 mV	
		10 V ~ 100 V	12 mV	
		100 V ~ 300 V	81 mV	
		(1 kHz)		
		1 mV	4.6 μV	
		1 mV ~ 10 mV	4.8 μV	
		10 mV ~ 100 mV	14 μV	
		100 mV ~ 1 V	0.11 mV	
		1 V ~ 10 V	1.1 mV	
		10 V ~ 100 V	12 mV	
		100 V ~ 300 V	81 mV	
		(10 kHz)		
		1 mV	4.6 μV	
		1 mV ~ 10 mV	4.8 μV	
		10 mV ~ 100 mV	14 μV	
		100 mV ~ 1 V	0.11 mV	
		1 V ~ 10 V	1.1 mV	
		10 V ~ 100 V	12 mV	
		(100 kHz)		
		1 mV	8.0 μV	
		1 mV ~ 10 mV	13 μV	
		10 mV ~ 100 mV	99 μV	
		100 mV ~ 1 V	0.38 mV	
		1 V ~ 10 V	3.4 mV	
		10 V ~ 100 V	67 mV	
Input Attenuation		(1 kHz)		
		-60 dB	0.005 8 dB	
		-60 dB ~ -50 dB	0.005 8 dB	
		-50 dB ~ -40 dB	0.005 8 dB	
		-40 dB ~ -30 dB	0.005 9 dB	
		-30 dB ~ -20 dB	0.006 1 dB	
		-20 dB ~ -10 dB	0.005 8 dB	
		-10 dB ~ +10 dB	0.005 8 dB	
		+10 dB ~ +20 dB	0.005 8 dB	
		+20 dB ~ +30 dB	0.005 8 dB	

404. Other DC & LF measurements

Measured Quantity Instrument or Gauge	Field Code	Range	CMC (The Confidence Level is about 95 %)	Comments
Line frequency meters	40410			Calibrator/
Frequency		16 Hz ~ 50 Hz	5.2×10^{-4}	SICT-T100-40410
		50 Hz ~ 60 Hz	5.1×10^{-4}	
		60 Hz ~ 100 Hz	7.7×10^{-4}	
		100 Hz ~ 200 Hz	5.7×10^{-4}	
		200 Hz ~ 400 Hz	5.1×10^{-4}	
		400 Hz ~ 1 000 Hz	1.3×10^{-3}	
Function generators	40411			Audio Analyzer, Digital
Frequency		1 Hz ~ 1 GHz	5.8×10^{-9}	Multimeter/
		1 GHz ~ 4 GHz	1.5×10^{-8}	SICT-T100-40411
Output Level		(10 Hz)		
		1 mV	1.5×10^{-2}	
		1 mV ~ 10 mV	1.6×10^{-3}	
		10 mV ~ 100 mV	2.6×10^{-4}	
		100 mV ~ 10 V	1.6×10^{-4}	
		10 V ~ 100 V	2.6×10^{-4}	
		(10 Hz ~ 100 Hz)		
		1 mV	1.7×10^{-2}	
		1 mV ~ 10 mV	1.7×10^{-3}	
		10 mV ~ 100 mV	2.3×10^{-4}	
		100 mV ~ 100 V	1.3×10^{-4}	
		(100 Hz ~ 10 kHz)		
		1 mV	1.6×10^{-2}	
		1 mV ~ 10 mV	1.6×10^{-3}	
		10 mV ~ 100 mV	2.1×10^{-4}	
		100 mV ~ 100 V	1.1×10^{-4}	
		(10 kHz ~ 100 kHz)		
		1 mV	6.6×10^{-2}	
		1 mV ~ 10 mV	6.9×10^{-3}	
		10 mV ~ 100 mV	1.2×10^{-3}	
		100 mV ~ 100 V	8.2×10^{-4}	
DC Offset		-20 V ~ 20 V	6.0×10^{-5}	
Sine Wave Flatness		(100 mV ~ 30 V)		
		10 Hz ~ 100 kHz	0.005 8 dB	
Attenuation		(100 Hz ~ 100 kHz)		
		30 dB ~ -70 dB	0.05 dB	
Distortion		(20 Hz ~ 100 kHz)		
		10 % ~ 0.010 %	7.0×10^{-2}	
Rise Fall Time		10 μs ~ 100 ns	6.2×10^{-4}	
		100 ns ~ 10 ns	7.0×10^{-4}	
		10 ns ~ 1 ns	3.3×10^{-3}	
		1 ns ~ 100 ps	3.3×10^{-2}	
Duty cycle		1 % ~ 99 %	6.1×10^{-3} %	

404. Other DC & LF measurements

Measured Quantity Instrument or Gauge	Field Code	Range	CMC (The Confidence Level is about 95 %)	Comments
Genescopes	40412			Signal Generator/
Marker Frequency		9 kHz ~ 100 MHz	6.2×10^{-7}	SICT-T100-40412
RF Level		(9 kHz ~ 100 MHz) 50 dBμV ~ 100 dBμV	0.32 dB	
AC/DC high voltages volt meters	40413			Calibrator/
DC Voltage		0 V ~ 500 V	4.4×10^{-4}	SICT-T100-40413
		500 V ~ 1 000 V	4.0×10^{-4}	
		1 000 V ~ 5 kV	4.0×10^{-4}	
		5 kV ~ 8 kV	4.3×10^{-4}	
		8 kV ~ 20 kV	4.0×10^{-4}	
		20 kV ~ 25 kV	4.8×10^{-4}	
		25 kV ~ 30 kV	4.5×10^{-4}	
		30 kV ~ 40 kV	4.3×10^{-4}	
		40 kV ~ 100 kV	4.0×10^{-4}	
		0 V ~ -500 V	4.4×10^{-4}	
		-500 V ~ -1 000 V	4.0×10^{-4}	
		-1 000 V ~ -5 kV	4.0×10^{-4}	
		-5 kV ~ -8 kV	4.3×10^{-4}	
		-8 kV ~ -20 kV	4.0×10^{-4}	
		-20 kV ~ -25 kV	4.8×10^{-4}	
		-25 kV ~ -30 kV	4.5×10^{-4}	
		-30 kV ~ -40 kV	4.3×10^{-4}	
		-40 kV ~ -100 kV	4.0×10^{-4}	
AC Voltage		0 V ~ 1 000 V	3.0×10^{-7}	
		1 000 V ~ 3.3 kV	2.5×10^{-4}	
		3.3 kV ~ 6.6 kV	1.8×10^{-4}	
		6.6 kV ~ 15 kV	1.5×10^{-2}	
		15 kV ~ 20 kV	1.6×10^{-2}	
		20 kV ~ 130 kV	1.5×10^{-2}	
Jitter meters	40415			Modulation Domain Analyzer/
CD/DVD Jitter		1.0 ns	1.7 ps	SICT-T100-40415
		1.0 ns ~ 2.0 ns	3.3 ps	
		2.0 ns ~ 5.0 ns	8.0 ps	
		5.0 ns ~ 10.0 ns	1.7 ps	
		10.0 ns ~ 20.0 ns	33 ps	
		20.0 ns ~ 30.0 ns	48 ps	
		30.0 ns ~ 40.0 ns	64 ps	
		40.0 ns ~ 50.0 ns	80 ps	
		50.0 ns ~ 60.0 ns	96 ps	
VTR Jitter		0.06 μs	0.66 ns	
		0.06 μs ~ 0.1 μs	0.77 ns	
		0.1 μs ~ 0.2 μs	1.2 ns	
		0.2 μs ~ 0.5 μs	2.8 ns	
		0.5 μs ~ 0.7 μs	4.3 ns	
		1 %	0.05 %	
		2 %	0.09 %	
		4 %	0.19 %	
		8 %	0.36 %	
		10 %	0.45 %	
		15 %	0.68 %	

404. Other DC & LF measurements

Measured Quantity Instrument or Gauge	Field Code	Range	CMC (The Confidence Level is about 95 %)	Comments
Leakage current testers	40416			Calibrator/
DC Current		10 μA ~ 100 μA	6.2×10^{-4}	SICT-T100-40416
		100 μA ~ 1 mA	6.0×10^{-4}	
		1 mA ~ 10 mA	6.1×10^{-4}	
		10 mA ~ 50 mA	1.3×10^{-4}	
AC Current		(40 Hz ~ 1 kHz)		
		10 μA ~ 100 μA	6.3×10^{-4}	
		100 μA ~ 1 mA	6.3×10^{-4}	
		1 mA ~ 10 mA	6.3×10^{-4}	
		10 mA ~ 100 mA	2.3×10^{-4}	
AC Voltage		(10 V ~ 100 V)		
		40 Hz ~ 10 kHz	7.2×10^{-5}	
		10 kHz ~ 50 kHz	1.0×10^{-4}	
		50 kHz ~ 100 kHz	1.8×10^{-4}	
		(100 V ~ 1 000 V)		
		50 Hz ~ 500 Hz	7.9×10^{-5}	
		500 Hz ~ 1 kHz	1.3×10^{-4}	
Resistance		0 Ω ~ 1 Ω	8.1×10^{-5}	
		1 Ω ~ 10 Ω	7.8×10^{-5}	
		10 Ω ~ 100 Ω	7.8×10^{-5}	
		100 Ω ~ 1 kΩ	7.9×10^{-5}	
		1 kΩ ~ 10 kΩ	7.9×10^{-5}	
		10 kΩ ~ 11 kΩ	7.2×10^{-5}	
Electronic AC/DC loads	40417			Calibrator/
DC Voltage		0 mV ~ 100 mV	6.2×10^{-5}	SICT-T100-40417
		100 mV ~ 1 V	5.8×10^{-5}	
		1 V ~ 10 V	7.2×10^{-6}	
		10 V ~ 100 V	7.9×10^{-6}	
		100 V ~ 500 V	1.5×10^{-5}	
		500 V ~ 1 000 V	6.4×10^{-4}	
DC Current		0 mA ~ 200 mA	3.5×10^{-5}	
		200 mA ~ 2 A	3.8×10^{-5}	
		2 A ~ 20 A	7.3×10^{-5}	
`		20 A ~ 100 A	9.4×10^{-5}	
		100 A ~ 200 A	5.6×10^{-4}	
AC Voltage		(40 Hz ~ 400 Hz)		
		0.01 V ~ 1 V	1.8×10^{-3}	
		1 V ~ 10 V	2.0×10^{-4}	
		10 V ~ 100 V	5.4×10^{-5}	
		100 V ~ 300 V	6.6×10^{-5}	
		300 V ~ 500 V	1.3×10^{-4}	
AC Current		(40 Hz ~ 400 Hz)		
		100 mA ~ 1 A	1.1×10^{-3}	
		1 A ~ 5 A	9.6×10^{-4}	
		5 A ~ 10 A	9.6×10^{-4}	
		10 A ~ 20 A	9.7×10^{-4}	

404. Other DC & LF measurements

Measured Quantity Instrument or Gauge	Field Code	Range	CMC (The Confidence Level is about 95 %)	Comments
Modulation meters	40418			Measuring Receiver/
Amplitude Modulation		0.001 % ~ 100 %	1.2×10^{-2}	SICT-T100-40418
Frequency Modulation		0.001 kHz ~ 400 kHz	1.2×10^{-2}	
Phase Modulation		0.001 rad ~ 400 rad	3.7×10^{-2}	
Analogue/Digital multimeters	40419			Calibrator/
DC Voltage		(±)		SICT-T100-40419
		0 mV ~ 100 mV	1.2×10^{-5}	
		100 mV ~ 1 V	5.9×10^{-6}	
		1 V ~ 10 V	4.0×10^{-6}	
		10 V ~ 100 V	5.6×10^{-6}	
		100 V ~ 1 000 V	7.3×10^{-6}	
AC Voltage		(0.6 mV ~ 2 mV)		
		1 kHz	8.5×10^{-3}	
		(2 mV ~ 20 mV)		
		10 Hz ~ 20 Hz	4.7×10^{-4}	
		20 Hz ~ 40 Hz	3.0×10^{-4}	
		40 Hz ~ 20 kHz	2.9×10^{-4}	
		20 kHz ~ 50 kHz	4.1×10^{-4}	
		50 kHz ~ 100 kHz	7.7×10^{-4}	
		100 kHz ~ 300 kHz	1.8×10^{-3}	
		300 kHz ~ 500 kHz	3.0×10^{-3}	
		500 kHz ~ 1 MHz	5.5×10^{-3}	
		(20 mV ~ 200 mV)		
		10 Hz ~ 20 Hz	3.4×10^{-4}	
		20 Hz ~ 40 Hz	1.3×10^{-4}	
		40 Hz ~ 20 kHz	9.5×10^{-5}	
		20 kHz ~ 50 kHz	1.6×10^{-4}	
		50 kHz ~ 100 kHz	4.2×10^{-4}	
		100 kHz ~ 300 kHz	1.1×10^{-3}	
		300 kHz ~ 500 kHz	2.1×10^{-3}	
		500 kHz ~ 1 MHz	3.7×10^{-3}	
		(200 mV ~ 2 V)		
		10 Hz ~ 20 Hz	2.7×10^{-4}	
		20 Hz ~ 40 Hz	1.0×10^{-4}	
		40 Hz ~ 20 kHz	4.7×10^{-5}	
		20 kHz ~ 50 kHz	8.0×10^{-5}	
		50 kHz ~ 100 kHz	1.3×10^{-4}	
		100 kHz ~ 300 kHz	4.2×10^{-4}	
		300 kHz ~ 500 kHz	1.2×10^{-3}	
		500 kHz ~ 1 MHz	2.2×10^{-3}	

404. Other DC & LF measurements

Measured Quantity Instrument or Gauge	Field Code	Range	CMC (The Confidence Level is about 95 %)	Comments
Analogue/Digital multimeters	40419			Calibrator/
AC Voltage		(2 V ~ 20 V)		SICT-T100-40419
		10 Hz ~ 20 Hz	2.6×10^{-4}	
		20 Hz ~ 40 Hz	1.0×10^{-4}	
		40 Hz ~ 20 kHz	4.6×10^{-5}	
		20 kHz ~ 50 kHz	7.4×10^{-5}	
		50 kHz ~ 100 kHz	9.5×10^{-5}	
		100 kHz ~ 300 kHz	3.1×10^{-4}	
		300 kHz ~ 500 kHz	1.2×10^{-3}	
		500 kHz ~ 1 MHz	1.8×10^{-3}	
		(20 V ~ 200 V)		
		10 Hz ~ 20 Hz	2.7×10^{-4}	
		20 Hz ~ 40 Hz	1.0×10^{-4}	
		40 Hz ~ 20 kHz	5.5×10^{-5}	
		20 kHz ~ 50 kHz	8.5×10^{-5}	
		50 kHz ~ 100 kHz	1.7×10^{-4}	
		(200 V ~ 500 V)		
		50 Hz ~ 1 kHz	8.2×10^{-5}	
		(500 V ~ 1 000 V)		
		50 Hz ~ 1 kHz	7.8×10^{-5}	
Resistance		0 mΩ ~ 10 kΩ	1.3×10^{-6}	
		10 kΩ ~ 1 MΩ	1.5×10^{-6}	
		1 MΩ ~ 10 MΩ	7.7×10^{-6}	
		10 MΩ ~ 100 MΩ	1.2×10^{-5}	
		100 MΩ ~ 1 GΩ	8.4×10^{-5}	
DC Current		(±)		
		0 μA ~ 10 μA	6.4×10^{-4}	
		10 μA ~ 100 μA	7.0×10^{-5}	
		100 μA ~ 1 mA	3.9×10^{-5}	
		1 mA ~ 10 mA	3.8×10^{-5}	
		10 mA ~ 100 mA	4.9×10^{-5}	
		100 mA ~ 1 A	9.0×10^{-5}	
		1 A ~ 10 A	1.6×10^{-4}	
		10 A ~ 20 A	2.2×10^{-4}	
		20 A ~ 30 A	2.7×10^{-4}	
AC Current		(10 μA ~ 20 μA)		
		40 Hz ~ 1 kHz	9.1×10^{-4}	
		1 kHz ~ 10 kHz	7.6×10^{-3}	
		(20 μA ~ 200 μA)		
		10 Hz ~ 20 Hz	3.4×10^{-4}	
		20 Hz ~ 40 Hz	2.1×10^{-4}	
		40 Hz ~ 1 kHz	1.5×10^{-4}	
		1 kHz ~ 5 kHz	3.5×10^{-4}	
		5 kHz ~ 10 kHz	1.5×10^{-3}	

404. Other DC & LF measurements

Measured Quantity Instrument or Gauge	Field Code	Range	CMC (The Confidence Level is about 95 %)	Comments
Analogue/Digital multimeters	40419			Calibrator/
AC Current		(200 μA ~ 2 mA)		SICT-T100-40419
		10 Hz ~ 20 Hz	2.8×10^{-4}	
		20 Hz ~ 40 Hz	1.8×10^{-4}	
		40 Hz ~ 1 kHz	1.2×10^{-4}	
		1 kHz ~ 5 kHz	2.6×10^{-4}	
		5 kHz ~ 10 kHz	1.5×10^{-3}	
		(2 mA ~ 200 mA)		
		10 Hz ~ 20 Hz	2.8×10^{-4}	
		20 Hz ~ 40 Hz	1.8×10^{-4}	
		40 Hz ~ 1 kHz	1.2×10^{-4}	
		1 kHz ~ 5 kHz	2.3×10^{-4}	
		5 kHz ~ 10 kHz	1.2×10^{-3}	
		(200 mA ~ 2 A)		
		40 Hz ~ 1 kHz	2.7×10^{-4}	
		1 kHz ~ 5 kHz	5.0×10^{-4}	
		5 kHz ~ 10 kHz	7.1×10^{-3}	
		(2 A ~ 10 A)		
		50 Hz ~ 100 Hz	4.8×10^{-4}	
		100 Hz ~ 1 kHz	9.7×10^{-4}	
		1 kHz ~ 10 kHz	3.6×10^{-3}	
		(10 A ~ 20 A)		
		50 Hz ~ 60 Hz	6.0×10^{-4}	
		60 Hz ~ 100 Hz	7.0×10^{-4}	
		100 Hz ~ 1 kHz	1.3×10^{-3}	
		1 kHz ~ 10 kHz	2.4×10^{-3}	
		(20 A ~ 30 A)		
		50 Hz ~ 60 Hz	7.7×10^{-4}	
		60 Hz ~ 100 Hz	1.2×10^{-3}	
		100 Hz ~ 1 kHz	3.9×10^{-3}	
		1 kHz ~ 10 kHz	4.5×10^{-3}	
Frequency		10 Hz ~ 10 MHz	6.5×10^{-7}	
Noise meters	40420			Calibrator/
AC Voltage Test		(10 Hz ~ 100 kHz)		SICT-T100-40420
		300 μV ~ 1 mV	6.4×10^{-3}	
		1 mV ~ 3 mV	2.5×10^{-3}	
		3 mV ~ 10 mV	1.2×10^{-3}	
		10 mV ~ 30 mV	1.2×10^{-3}	
		30 mV ~ 100 mV	7.3×10^{-4}	
		100 mV ~ 300 mV	2.5×10^{-4}	
		300 mV ~ 1 V	1.8×10^{-4}	
		1 V ~ 3 V	2.0×10^{-4}	
		3 V ~ 10 V	1.6×10^{-4}	
		10 V ~ 30 V	2.8×10^{-4}	
		30 V ~ 100 V	2.2×10^{-4}	

404. Other DC & LF measurements

Measured Quantity Instrument or Gauge	Field Code	Range	CMC (The Confidence Level is about 95 %)	Comments
Noise meters	40420			Calibrator/
AC Voltage Test		(10 Hz ~ 1 kHz)		SICT-T100-40420
		100 V ~ 1 000 V	1.1×10^{-4}	
		(1 kHz ~ 1 MHz)		
		1 mV ~ 10 mV	5.4×10^{-3}	
		10 mV ~ 100 mV	3.6×10^{-3}	
		100 mV ~ 1 V	2.3×10^{-3}	
		1 V ~ 20 V	1.9×10^{-3}	
		(1 MHz ~ 30 MHz)		
		25 mV	1.2×10^{-2}	
		25 mV ~ 100 mV	1.2×10^{-2}	
		100 mV ~ 300 mV	1.3×10^{-2}	
		300 mV ~ 1 V	1.4×10^{-2}	
		1 V ~ 20 V	1.3×10^{-2}	
Weighting Test		DIN/NOISE	0.10 dB	
		JIS A	0.10 dB	
		CCIR	0.10 dB	
		CCIR/ARM	0.10 dB	
AC Voltage Output		(10 Hz ~ 100 kHz)		
		1 mV ~ 100 mV	1.6×10^{-4}	
		100 mV ~ 1 V	1.2×10^{-4}	
DC Voltage Output		1 mV ~ 100 mV	1.0×10^{-5}	
		100 mV ~ 1 V	8.6×10^{-6}	
Oscilloscopes	40421			Calibration Generator/
Impedance Measure		50 Ω	2.7×10^{-5}	SICT-T100-40421
		1 MΩ	2.1×10^{-5}	
DC Voltage		1 mV	1.0×10^{-3}	
		1 mV ~ 10 mV	1.1×10^{-4}	
		10 mV ~ 100 mV	2.0×10^{-5}	
		100 mV ~ 1 V	1.4×10^{-5}	
		1 V ~ 10 V	9.8×10^{-6}	
		10 V ~ 100 V	1.2×10^{-5}	
		100 V ~ 200 V	1.1×10^{-5}	
AC Voltage		(40 Hz ~ 10 kHz)		
		1 mV	6.7×10^{-3}	
		1 mV ~ 25 mV	8.5×10^{-4}	
		25 mV ~ 110 mV	8.7×10^{-4}	
		110 mV ~ 0.5 V	6.0×10^{-4}	
		0.5 V ~ 2.2 V	6.5×10^{-4}	
		2.2 V ~ 11 V	8.4×10^{-4}	
		11 V ~ 130 V	6.1×10^{-4}	
Time Marker		100 ps ~ 200 ps	6.1×10^{-7}	
		200 ps ~ 20 ms	9.2×10^{-7}	
		20 ms ~ 5 s	3.0×10^{-6}	

404. Other DC & LF measurements

Measured Quantity Instrument or Gauge	Field Code	Range	CMC (The Confidence Level is about 95 %)	Comments
Oscilloscopes	40421			Calibration Generator/
CAL Output Amplitude		(40 Hz ~ 20 kHz)		SICT-T100-40421
		100 mV ~ 400 mV	2.7×10^{-5}	
		400 mV ~ 1.2 V	2.4×10^{-5}	
		1.2 V ~ 4 V	2.1×10^{-5}	
		4 V ~ 12 V	2.3×10^{-5}	
CAL Output Frequency		100 Hz ~ 10 MHz	7.0×10^{-7}	
Sine Wave Signal Generator Level		50 kHz ~ 1 MHz	1.1×10^{-4}	
		1 MHz ~ 1 GHz	3.8×10^{-2}	
		1 GHz ~ 10 GHz	3.9×10^{-2}	
		10 GHz ~ 20 GHz	4.1×10^{-2}	
		20GHz ~ 25 GHz	4.2×10^{-2}	
		25 GHz ~ 26.5 GHz	4.7×10^{-2}	
LF phase meters	40422			Multi Function Generator/
Phase Test		(1 Hz ~ 200 kHz)		SICT-T100-40422
		-180 ° ~ 180 °	0.073 °	
Volt/Current recorders	40424			Calibrator/
DC Voltage		100 μV ~ 1 mV	5.0×10^{-6}	SICT-T100-40424
		1 mV ~ 10 mV	5.0×10^{-4}	
		10 mV ~ 100 mV	9.0×10^{-6}	
		100 mV ~ 1 V	4.4×10^{-5}	
		1 V ~ 10 V	2.8×10^{-6}	
		10 V ~ 100 V	4.4×10^{-6}	
		100 V ~ 500 V	6.8×10^{-6}	
DC Current		1 nA ~ 10 nA	4.6×10^{-3}	
		10 nA ~ 100 nA	4.6×10^{-3}	
		100 nA ~ 1 μA	2.3×10^{-3}	
		1 μA ~ 10 μA	7.2×10^{-4}	
		10 μA ~ 200 μA	1.2×10^{-4}	
		200 μA ~ 2 mA	6.9×10^{-5}	
		2 mA ~ 20 mA	6.7×10^{-5}	
		20 mA ~ 200 mA	7.6×10^{-5}	
		200 mA ~ 2 A	9.2×10^{-5}	
		2 A ~ 10 A	2.1×10^{-4}	
		10 A ~ 20 A	1.6×10^{-4}	
		20 A ~ 50 A	2.1×10^{-4}	
		20 A ~ 100 A	1.6×10^{-4}	
Relay test sets	40425			Digital Multimeter/
DC Voltage		0 mV ~ 100 mV	5.8×10^{-4}	SICT-T100-40425
		100 mV ~ 1 V	5.8×10^{-3}	
		1 V ~ 10 V	5.8×10^{-4}	
		10 V ~ 100 V	5.8×10^{-5}	
		100 V ~ 300 V	2.3×10^{-5}	
DC Current		1 mA ~ 100 mA	5.8×10^{-4}	
		100 mA ~ 1 A	5.9×10^{-4}	
		1A ~ 3 A	3.3×10^{-4}	
		3 A ~ 20 A	3.0×10^{-4}	
		20 A ~ 100 A	5.8×10^{-4}	

404. Other DC & LF measurements

Measured Quantity Instrument or Gauge	Field Code	Range	CMC (The Confidence Level is about 95 %)	Comments
Relay test sets	40425			Digital Multimeter/
AC Voltage		(1 mV ~ 300 mV)		SICT-T100-40425
		40 Hz ~ 10 kHz	2.0×10^{-4}	
		10 kHz ~ 100 kHz	2.6×10^{-4}	
		100 kHz ~ 1 MHz	1.2×10^{-3}	
		(100 mV ~ 1 V)		
		40 Hz ~ 10 kHz	5.8×10^{-3}	
		10 kHz ~ 100 kHz	5.8×10^{-3}	
		100 kHz ~ 1 MHz	6.0×10^{-3}	
		(1 V ~ 10 V)		
		40 Hz ~ 10 kHz	5.8×10^{-4}	
		10 kHz ~ 100 kHz	6.0×10^{-4}	
		100 kHz ~ 1 MHz	1.3×10^{-3}	
		(10 V ~ 100 V)		
		40 Hz ~ 10 kHz	7.2×10^{-5}	
		10 kHz ~ 100 kHz	1.9×10^{-4}	
		(100 V ~ 750 V)		
		40 Hz ~ 1 kHz	5.7×10^{-5}	
		1 kHz ~ 20 kHz	6.1×10^{-5}	
AC Current		(1 mA~ 100 mA)		
		40 Hz ~ 1 kHz	7.9×10^{-4}	
		(100 mA~ 1 A)		
		40 Hz ~ 1 kHz	1.1×10^{-3}	
		(1 A~ 10 A)		
		40 Hz ~ 1 kHz	1.2×10^{-3}	
		(10 A~ 20 A)		
		40 Hz ~ 1 kHz	1.1×10^{-3}	
		(20 A~ 100 A)		
		40 Hz ~ 1 kHz	2.0×10^{-3}	
LF signal generators	40426			Audio Analyzer, Digital
Frequency Test		1 Hz ~ 100 MHz	5.8×10^{-9}	Multimeter/
				SICT-T100-40426
Output Level Test		(10 Hz)		
		1 mV	1.5×10^{-2}	
		1 mV ~ 10 mV	1.6×10^{-3}	
		10 mV ~ 100 mV	2.7×10^{-4}	
		100 mV ~ 10 V	1.7×10^{-4}	
		10 V ~ 100 V	2.7×10^{-4}	
		(10 Hz ~ 100 Hz)		
		1 mV	1.7×10^{-2}	
		1 mV ~ 10 mV	1.8×10^{-3}	
		10 mV ~ 100 mV	2.3×10^{-4}	
		100 mV ~ 100 V	1.4×10^{-4}	

404. Other DC & LF measurements

Measured Quantity Instrument or Gauge	Field Code	Range	CMC (The Confidence Level is about 95 %)	Comments
LF signal generators	40426			Audio Analyzer, Digital
Output Level Test		(100 Hz ~ 10 kHz)		Multimeter/
		1 mV	1.7×10^{-2}	SICT-T100-40426
		1 mV ~ 10 mV	1.7×10^{-3}	
		10 mV ~ 100 mV	2.2×10^{-4}	
		100 mV ~ 100 V	1.2×10^{-4}	
		(10 kHz ~ 100 kHz)		
		1 mV	6.6×10^{-2}	
		1 mV ~ 10 mV	6.9×10^{-3}	
		10 mV ~ 100 mV	1.3×10^{-3}	
		100 mV ~ 100 V	8.3×10^{-4}	
		(100 kHz ~ 100 MHz)		
		10 mV ~ 10 V	1.8×10^{-2}	
DC Offset		-20 V ~ 20 V	6.0×10^{-5}	
Output Level Flatness Test		(100 mV ~ 30 V)		
		10 Hz ~ 100 kHz	0.005 9 dB	
Attenuator Test		(100 Hz ~ 100 kHz)		
		30 dB ~ -70 dB	0.06 dB	
Distortion		(20 Hz ~ 100 kHz)		
		10 % ~ 0.010 %	7.0×10^{-2}	
Rise/Fall Time		10 μs ~ 100 ns	6.2×10^{-4}	
		100 ns ~ 10 ns	7.0×10^{-4}	
		10 ns ~ 1 ns	3.4×10^{-3}	
		1 ns ~ 100 ps	3.3×10^{-2}	
Duty cycle		1 % ~ 99 %	6.2×10^{-3} %	
LF spectrum analyzers	40427			Synthesizer Function
Frequency Accuracy		10 Hz ~ 150 MHz	6.2×10^{-9}	Generator/
				SICT-T100-40427
Logscale Fidelity		0 dB ~ -30 dB	0.07 dB	
		-30 dB ~ -50 dB	0.08 dB	
		-50 dB ~ -70 dB	0.10 dB	
		-70 dB ~ -90 dB	0.12 dB	
		-90 dB ~ -100 dB	0.13 dB	
Frequency Response		100 kHz ~ 150 MHz	0.05 dB	
Output frequency		10 Hz ~ 150 MHz	6.2×10^{-9}	
Output Level		-20 dBm ~ 20 dBm	0.074 dB	

404. Other DC & LF measurements

Measured Quantity Instrument or Gauge	Field Code	Range	CMC (The Confidence Level is about 95 %)	Comments
Spot generators	40428			Audio Analyzer, Digital Multimeter/ SICT-T100-40428
Frequency		1 Hz ~ 100 kHz	5.8×10^{-9}	
Output Level		(10 Hz)		
		100 mV	2.7×10^{-4}	
		100 mV ~ 10 V	1.7×10^{-4}	
Output Level		(10 Hz ~ 100 Hz)		
		100 mV	2.3×10^{-4}	
		100 mV ~ 10 V	1.4×10^{-4}	
		(100 Hz ~ 10 kHz)		
		100 mV	2.2×10^{-4}	
		100 mV ~ 10 V	1.2×10^{-4}	
		(10 kHz ~ 100 kHz)		
		100 mV	1.3×10^{-3}	
		100 mV ~ 10 V	8.3×10^{-4}	
Output Level Flatness		(100 mV ~ 10 V)		
		10 Hz ~100 kHz	0.005 9 dB	
Attenuation		(100 Hz ~ 100 kHz)		
		30 dB ~ -70 dB	0.06 dB	
Distortion		(20 Hz ~ 100 kHz)		
		10 % ~ 0.010 %	7.0×10^{-2}	
Sweep generators	40429			Audio Analyzer, Digital Multimeter/ SICT-T100-40429
Frequency		1 Hz ~ 100 kHz	5.8×10^{-9}	
Output Level Test		(10 Hz)		
		100 mV	2.7×10^{-4}	
		100 mV ~ 10 V	1.7×10^{-4}	
		(10 Hz ~ 100 Hz)		
		100 mV	2.3×10^{-4}	
		100 mV ~ 10 V	1.4×10^{-4}	
		(100 Hz ~ 10 kHz)		
		100 mV	2.2×10^{-4}	
		100 mV ~ 10 V	1.2×10^{-4}	
		(10 kHz ~ 100 kHz)		
		100 mV	1.3×10^{-3}	
		100 mV ~ 10 V	8.3×10^{-4}	
Output Level Flatness		(100 mV ~ 10 V)		
		10 Hz ~ 100 kHz	0.005 9 dB	
Attenuation		(100 Hz ~ 100 kHz)		
		30 dB ~ -70 dB	0.06 dB	
Distortion		(20 Hz ~ 100 kHz)		
		10 % ~ 0.010 %	7.0×10^{-2}	

404. Other DC & LF measurements

Measured Quantity Instrument or Gauge	Field Code	Range	CMC (The Confidence Level is about 95 %)	Comments
Signal transducers	40430			Digital Multimeter/
Voltage		1 mV ~ 10 mV	6.5×10^{-4}	SICT-T100-40430
		10 mV ~ 100 V	9.2×10^{-5}	
Current		100 μA ~ 10 mA	7.8×10^{-5}	
		10 mA ~ 20 A	3.0×10^{-4}	
Frequency		1 Hz ~ 10 kHz	9.0×10^{-5}	
Transistor curve tracers	40432			Digital Multimeter/
DC Voltage(Source)		0 mV ~ 100 mV	1.2×10^{-5}	SICT-T100-40432
		100 mV ~ 1 V	8.1×10^{-6}	
		1 V ~ 10 V	7.8×10^{-6}	
		10 V ~ 100 V	9.7×10^{-6}	
		100 V ~ 1 000 V	9.7×10^{-6}	
DC Current(Source)		0 μA ~ 100 μA	1.8×10^{-5}	
		100 μA ~ 1 mA	1.7×10^{-5}	
		1 mA ~ 10 mA	1.9×10^{-5}	
		10 mA ~ 100 mA	5.8×10^{-5}	
		100 mA ~ 1 A	2.6×10^{-4}	
		1 A ~ 10 A	5.7×10^{-4}	
DC Voltage(Measure)		0 mV ~ 100 mV	8.4×10^{-6}	
		100 mV ~ 1 V	6.1×10^{-4}	
		1 V ~ 10 V	6.4×10^{-4}	
		10 V ~ 100 V	6.1×10^{-4}	
		100 V ~ 1 000 V	6.1×10^{-5}	
AC/DC high voltage generators	40434			High Voltage Digital Meter/
DC Voltage		0 V ~ 500 V	5.2×10^{-4}	SICT-T100-40434
		500 V ~ 1 000 V	7.0×10^{-4}	
		1 000 V ~ 2 kV	4.8×10^{-4}	
		2 kV ~ 8 kV	4.0×10^{-4}	
		8 kV ~ 10 kV	3.8×10^{-4}	
		10 kV ~ 15 kV	5.5×10^{-4}	
		15 kV ~ 20 kV	5.0×10^{-4}	
		20 kV ~ 25 kV	4.8×10^{-4}	
		25 kV ~ 30 kV	4.7×10^{-4}	
		30 kV ~ 35 kV	4.6×10^{-4}	
		35 kV ~ 40 kV	4.5×10^{-4}	
		40 kV ~ 100 kV	4.0×10^{-4}	
AC Voltage		0 V ~ -500 V	5.2×10^{-4}	
		-500 V ~ -1 000 V	7.0×10^{-4}	
		-1 000 V ~ -2 kV	4.8×10^{-4}	
		-2 kV ~ -8 kV	4.0×10^{-4}	
		-8 kV ~ -10 kV	3.8×10^{-4}	
		-10 kV ~ -15 kV	5.5×10^{-4}	
		-15 kV ~ -20 kV	5.0×10^{-4}	
		-20 kV ~ -25 kV	4.8×10^{-4}	
		-25 kV ~ -30 kV	4.7×10^{-4}	
		-30 kV ~ -35 kV	4.6×10^{-4}	
		-35 kV ~ -40 kV	4.5×10^{-4}	
		-40 kV ~ -100 kV	4.0×10^{-4}	

404. Other DC & LF measurements

Measured Quantity Instrument or Gauge	Field Code	Range	CMC (The Confidence Level is about 95 %)	Comments
AC/DC high voltage generators	40434			High Voltage Digital Meter/
AC Voltage		0 V ~ 1 000 V	6.0×10^{-4}	SICT-T100-40434
		1 000 V ~ 2 kV	1.6×10^{-2}	
		2 kV ~ 8 kV	1.5×10^{-2}	
		8 kV ~ 10 kV	1.6×10^{-2}	
		10 kV ~ 15 kV	1.5×10^{-2}	
		15 kV ~ 20 kV	1.6×10^{-2}	
		20 kV ~ 60 kV	1.5×10^{-2}	
		60 kV ~ 100 kV	1.6×10^{-2}	
AC/DC high voltage probes	40435			DC Power Supply/
DC Voltage		0 V ~ 100 V	6.4×10^{-3}	SICT-T100-40435
		100 V ~ 500 V	1.3×10^{-3}	
		500 V ~ 1 000 V	6.4×10^{-3}	
		1 000 V ~ 2 kV	1.1×10^{-2}	
		2 kV ~ 3 kV	7.3×10^{-3}	
		3 kV ~ 4 kV	5.5×10^{-3}	
		4 kV ~ 5 kV	4.8×10^{-3}	
		5 kV ~ 6 kV	5.7×10^{-3}	
		6 kV ~ 7 kV	5.1×10^{-3}	
		7 kV ~ 8 kV	4.5×10^{-3}	
		8 kV ~ 9 kV	4.9×10^{-3}	
		9 kV ~ 10 kV	4.4×10^{-3}	
		10 kV ~ 15 kV	4.3×10^{-3}	
		15 kV ~ 20 kV	6.0×10^{-3}	
		20 kV ~ 25 kV	5.6×10^{-3}	
		25 kV ~ 30 kV	5.3×10^{-3}	
		30 kV ~ 35 kV	5.7×10^{-3}	
		35 kV ~ 40 kV	5.5×10^{-3}	
		40 kV ~ 45 kV	5.3×10^{-3}	
		45 kV ~ 50 kV	5.6×10^{-3}	
		50 kV ~ 60 kV	1.2×10^{-3}	
AC Voltage		0 V ~ 100 V	6.4×10^{-3}	
		100 V ~ 500 V	1.3×10^{-3}	
		500 V ~ 1 000 V	6.4×10^{-3}	
		1 000 V ~ 5 kV	1.6×10^{-2}	
		5 kV ~ 6 kV	1.5×10^{-2}	
		6 kV ~ 7 kV	1.7×10^{-2}	
		7 kV ~ 8 kV	1.8×10^{-2}	
		8 kV ~ 25 kV	1.6×10^{-2}	
		25 kV ~ 35 kV	1.5×10^{-2}	
		35 kV ~ 40 kV	1.6×10^{-2}	
		40 kV ~ 60 kV	1.5×10^{-2}	
		60 kV ~ 80 kV	1.8×10^{-2}	
		80 kV ~ 100 kV	1.6×10^{-2}	
		100 kV ~ 120 kV	1.7×10^{-2}	
		120 kV ~ 130 kV	1.5×10^{-2}	
Logic analyzers	40436			Calibrator/
DC Voltage		0 mV ~ 100 mV	1.4×10^{-5}	SICT-T100-40436
		100 mV ~ 1 V	7.9×10^{-6}	
		1 V ~ 10 V	6.9×10^{-6}	
Telephone testers	40437			Tone Pulse Simulator/
L1, L2 Output Voltage		1 mV ~ 100 mV	1.1×10^{-5}	SICT-T100-40437
		100 mV ~ 10 V	7.4×10^{-6}	
		10 V ~ 1 000 V	8.8×10^{-6}	
Loop Current		1 mA ~ 10 mA	2.3×10^{-5}	
		10 mA ~ 100 mA	5.2×10^{-5}	
		100 mA ~ 1 A	2.2×10^{-4}	
		1 A ~ 10 A	4.7×10^{-4}	

404. Other DC & LF measurements

Measured Quantity Instrument or Gauge	Field Code	Range	CMC (The Confidence Level is about 95 %)	Comments
Telephone testers	40437			Tone Pulse Simulator/ SICT-T100-40437
Ring Output Voltage		(10 Hz ~ 20 kHz)		
		1 mV ~ 100 mV	4.7×10^{-4}	
		100 mV ~ 100 V	2.9×10^{-4}	
		100 V ~ 1 000 V	3.1×10^{-4}	
Ring Frequency		DC ~ 1 000 Hz	7.3×10^{-5}	
D.T.M.F & Pulse				
		+10 dBm ~ -39.9 dBm	0.089 dB	
D.T.M.F & Frequency		697 Hz ~ 1 477 Hz	0.59 Hz	
Video signal analyzers	40438			Video Amplitude Calibration Fixture/ SICT-T100-40438
Color Bar Decoding Accuracy(Gain)		0 mV ~ 1 mV	1.8×10^{-1}	
		1 mV ~ 200 mV	4.6×10^{-2}	
		200 mV ~ 1 000 mV	7.7×10^{-3}	
Color Bar Decoding Accuracy(Phase)		0° ~ 360°	0.68°	
Frequency		20 Hz ~ 5 MHz	5.8×10^{-6}	
Measure Square Wave		0 mV ~ 1 mV	9.4×10^{-2}	
		1 mV ~ 10 mV	2.1×10^{-2}	
		10 mV ~ 100 mV	1.2×10^{-3}	
		100 mV ~ 200 mV	2.3×10^{-3}	
		200 mV ~ 300 mV	1.6×10^{-3}	
		300 mV ~ 400 mV	1.3×10^{-3}	
		400 mV ~ 500 mV	1.1×10^{-3}	
		500 mV ~ 999.9 mV	9.7×10^{-4}	
Measure Sine Wave		(No Filter,PAL) 10 kHz ~ 10 MHz	7.0×10^{-3}	
		(NTSC BW Lim, NTSC, PAL) 10 kHz ~ 10 MHz	7.0×10^{-3}	
		(Chroma BP, NTSC) 10 kHz ~ 10 MHz	7.0×10^{-3}	
		(Chroma BP, PAL) 10 kHz ~ 10 MHz	7.0×10^{-3}	
Burst Frequency		3 MHz ~ 5 MHz	4.0×10^{-7}	
Horizontal Gain		0 mV ~ 1 mV	9.4×10^{-2}	
		1 mV ~ 10 mV	2.1×10^{-2}	
		10 mV ~ 500 mV	2.3×10^{-3}	
		500 mV ~ 800 mV	9.7×10^{-4}	
		800 mV ~ 999.9 mV	7.6×10^{-4}	
Horizontal Frequency		20 Hz ~ 50 Hz	3.1×10^{-3}	
		50 Hz ~ 5 kHz	6.1×10^{-4}	
		5 kHz ~ 10 MHz	6.1×10^{-5}	
Gain Frequency Response		(FLAT Response) 20 Hz ~ 20 MHz	7.0×10^{-3}	
		(Luminance Response) 20 Hz ~ 20 MHz	7.0×10^{-3}	
		(Chroma Response) 20 Hz ~ 20 MHz	7.0×10^{-3}	
Transient Response		0 mV ~ 1 000 mV	1.3×10^{-2}	
(Video Noise)				
Luminance Volt Level		(0 ~ -30) dB	2.6×10^{-1}	
Chrominance AM/PM Level		(0 ~ -30) dB	6.7×10^{-1}	
Luminance Volt Level		0 mV ~ 1 000 mV	1.7×10^{-5}	
Luminance Inputt Level		0 mV ~ 1 000 mV	1.7×10^{-5}	
Chrominance Input Level		0 mV ~ 1 000 mV	1.7×10^{-5}	

405. Low frequency electric & magnetic fields

Measured Quantity Instrument or Gauge	Field Code	Range	CMC (The Confidence Level is about 95 %)	Comments
Flux meters	40503			Flux sources/
Flux		(0.1 ~ 0.5) mWb	9.8×10^{-4}	SICT-T100-40503
		(0.5 ~ 1) mWb	9.7×10^{-4}	
		(1 ~ 5) mWb	9.8×10^{-4}	
		(5 ~ 10) mWb	6.3×10^{-4}	
		(10 ~ 50) mWb	6.4×10^{-4}	
		(50 ~ 100) mWb	6.3×10^{-4}	
		(100 ~ 500) mWb	6.4×10^{-4}	
		(0.5 ~ 1) Wb	6.2×10^{-4}	
		(1 ~ 5) Wb	6.6×10^{-4}	
		(5 ~ 10) Wb	6.3×10^{-4}	
Flux sources	40504			GPS receiver,
Flux		(0.1 ~ 50) Wb	9.0×10^{-4}	Frequency counter/
		(0.05 ~ 0.5) Wb	1.0×10^{-5}	SICT-T100-40504
		(0.5 ~ 1) Wb	1.2×10^{-5}	
		(1 ~ 5) Wb	1.1×10^{-5}	
		(5 ~ 10) Wb	1.0×10^{-5}	
Magnetometers	40508			Helmholtz coil,
Gauss		(0 ~ 0.1) mT	6.3×10^{-2}	Standard magnets/
		(0.1 ~ 0.5) mT	1.3×10^{-2}	SICT-T100-40508
		(0.5 ~ 1) mT	6.8×10^{-3}	
		(1 ~ 3) mT	3.5×10^{-3}	
		(3 ~ 5) mT	3.0×10^{-3}	
		(5 ~ 10) mT	2.8×10^{-3}	
		(10 ~ 30) mT	2.8×10^{-3}	
		50 mT	6.2×10^{-3}	
		100 mT	6.2×10^{-3}	
		200 mT	6.2×10^{-3}	
		500 mT	6.2×10^{-3}	
		1 000 mT	6.2×10^{-3}	
Reference/standard magnets	40510			Gaussmeters/
Gauss		(1.5 ~ 30) mT	7.1×10^{-3}	SICT-T100-40510
		(30 ~ 1 000) mT	2.3×10^{-3}	

406. Radio frequency measurements

Measured Quantity Instrument or Gauge	Field Code	Range	CMC (The Confidence Level is about 95 %)	Comments
RF amplifiers	40601			Power Sensor, Attenuator/
Gain		(0 dB ~ 80 dB)		SICT-T100-40601
		20 Hz ~ 10 kHz	0.006 0 dB	
		10 kHz ~ 100 kHz	0.013 dB	
		100 kHz ~ 500 kHz	0.11 dB	
		500 kHz ~ 1 GHz	0.10 dB	
		1 GHz ~ 10 GHz	0.12 dB	
		10 GHz ~ 18 GHz	0.14 dB	
		18 GHz ~ 40 GHz	0.18 dB	
Hamonics		9 kHz ~ 26.5 GHz		
		0 dBc ~ -100 dBc	0.62 dB	

406. Radio frequency measurements

Measured Quantity Instrument or Gauge	Field Code	Range	CMC (The Confidence Level is about 95 %)	Comments
Coaxial attenuators	40602			Power Sensor, Directional Coupler/ SICT-T100-40602
		(DC ~ 18 GHz)		
		0 dB ~ 20 dB	0.022 dB	
		20 dB ~ 30 dB	0.046 dB	
		30 dB ~ 40 dB	0.050 dB	
		40 dB ~ 50 dB	0.053 dB	
		50 dB ~ 60 dB	0.071 dB	
		60 dB ~ 70 dB	0.074 dB	
		70 dB ~ 80 dB	0.076 dB	
		80 dB ~ 90 dB	0.093 dB	
		90 dB ~ 100 dB	0.096 dB	
		100 dB ~ 110 dB	0.14 dB	
		110 dB ~ 120 dB	0.15 dB	
		(26.5 GHz ~ 34 GHz)		
		0 dB ~ 40 dB	0.39 dB	
		(34 GHz ~ 40 GHz)		
		0 dB ~ 40 dB	0.56 dB	
Burst pulse generators	40605			Digital Oscilloscope/ SICT-T100-40605
Burst Voltage		0 kV ~ 0.5 kV	5.6×10^{-3}	
		0.5 kV ~ 1 kV	5.4×10^{-3}	
		1 kV ~ 2 kV	5.0×10^{-3}	
		2 kV ~ 3 kV	8.7×10^{-3}	
		3 kV ~ 4 kV	6.5×10^{-3}	
		-0 V ~ -0.5 kV	5.6×10^{-3}	
		-0.5 kV ~ -1 kV	5.4×10^{-3}	
		-1 kV ~ -2 kV	5.0×10^{-3}	
		-2 kV ~ -3 kV	8.7×10^{-3}	
		-3 kV ~ -4 kV	6.5×10^{-3}	
Burst Time				
Burst Rise		0 ns ~ 1 ns	2.0×10^{-2}	
		1 ns ~ 5 ns	4.8×10^{-2}	
		5 ns ~ 10 ns	7.2×10^{-3}	
Burst Width		10 ns ~ 50 ns	1.0×10^{-2}	
		50 ns ~ 100 ns	5.2×10^{-3}	
Burst Duration		0 ms ~ 20 ms	2.7×10^{-3}	
Burst Cycle		20 ms ~ 400 ms	3.3×10^{-3}	
Repertition Frequency		1 kHz ~ 500 kHz	3.3×10^{-3}	
Attenuator calibrators	40606			Verification Kit/ SICT-T100-40606
Attenuation Test		0 dB ~ 10 dB	0.014 dB	
		10 dB ~ 20 dB	0.016 dB	
		20 dB ~ 30 dB	0.019 dB	
		30 dB ~ 40 dB	0.022 dB	
		40 dB ~ 50 dB	0.025 dB	
		50 dB ~ 60 dB	0.030 dB	
		60 dB ~ 70 dB	0.033 dB	
		70 dB ~ 80 dB	0.036 dB	
		80 dB ~ 90 dB	0.039 dB	
		90 dB ~ 100 dB	0.043 dB	
		100 dB ~ 110 dB	0.048 dB	
		110 dB ~ 120 dB	0.051 dB	

406. Radio frequency measurements

Measured Quantity Instrument or Gauge	Field Code	Range	CMC (The Confidence Level is about 95 %)	Comments
RF power meter calibrators	40607			Digital Multimeter/
Power Range		3 μW	95 pW	SICT-T100-40607
		10 μW	0.25 nW	
		30 μW	0.81 nW	
		100 μW	2.5 nW	
		300 μW	8.1 nW	
		1 ㎽	0.15 μW	
		3 ㎽	0.17 μW	
		10 ㎽	0.73 μW	
		30 ㎽	1.7 μW	
		100 ㎽	15 μW	
EMC transducers ; current probes, absorbing clamps, etc	40608			Power Senso, Network analyzer/
Transfer Impedance		10 Hz ~ 1 GHz	1.8 dB	SICT-T100-40608
Insertion Loss		30 MHz ~ 1 GHz	2.0 dB	
Electric Magnetic Near-Field		100 kHz ~ 1 GHz	1.9 dB	
Coaxial directional couplers/ splitters	40610			Power Sensor, Synthesized Sweeper/
Directional couplering		(0 dB ~ 30 dB)		SICT-T100-40610
		20 Hz ~ 10 kHz	0.006 2 dB	
		10 kHz ~ 100 kHz	0.015 dB	
		100 kHz ~ 500 MHz	0.084 dB	
		500 MHz ~ 2 GHz	0.10 dB	
		2 GHz ~ 10 GHz	0.14 dB	
		10 GHz ~ 18 GHz	0.18 dB	
		18 GHz ~ 26.5 GHz	0.21 dB	
		26.5 GHz ~ 40 GHz	0.22 dB	
		(30 dB ~ 80 dB)		
		20 Hz ~ 10 kHz	0.007 7 dB	
		10 kHz ~ 100 kHz	0.028 dB	
		100 kHz ~ 500 MHz	0.12 dB	
		500 MHz ~ 6 GHz	0.13 dB	
		6 GHz ~ 10 GHz	0.14 dB	
		10 GHz ~ 18 GHz	0.19 dB	
		18 GHz ~ 40 GHz	0.22 dB	
Electrostatic discharge generators	40613			Digital Oscilloscope/
Peak Current		(±)		SICT-T100-40613
		0 A ~ 7.5 A	9.9×10^{-3}	
		7.5 A ~ 15 A	1.2×10^{-2}	
		15 A ~ 22.5 A	1.2×10^{-2}	
		22.5 A ~ 30 A	1.9×10^{-2}	
		30 A ~ 37.5 A	1.9×10^{-2}	
		37.5 A ~ 75 A	6.4×10^{-3}	
		75 A ~ 112.5 A	1.7×10^{-2}	
T1 Current (20 ~ 70) ns		(±)		
		0 A ~ 4 A	9.5×10^{-3}	
		4 A ~ 8 A	1.1×10^{-2}	
		8 A ~ 12 A	1.1×10^{-2}	
		12 A ~ 16 A	1.5×10^{-2}	
		16 A ~ 20 A	1.8×10^{-2}	
		20 A ~ 40 A	7.0×10^{-3}	
		40 A ~ 60 A	1.7×10^{-2}	

406. Radio frequency measurements

Measured Quantity Instrument or Gauge	Field Code	Range	CMC (The Confidence Level is about 95 %)	Comments
Electrostatic discharge generators	40613			Digital Oscilloscope/
T1 Current (100 ~ 400) ns		(±)		SICT-T100-40613
		0 A ~ 0.55 A	4.4×10^{-2}	
		0.55 A ~ 1.1 A	7.5×10^{-2}	
		1.1 A ~ 1.65 A	5.0×10^{-2}	
		1.65 A ~ 2.20 A	1.0×10^{-1}	
		2.20 A ~ 2.75 A	8.0×10^{-2}	
		2.75 A ~ 5.50 A	2.9×10^{-2}	
		5.50 A ~ 8.25 A	8.0×10^{-2}	
T2 Current (50 ~ 150) ns		(±)		
		0 A ~ 2 A	1.3×10^{-2}	
		2 A ~ 4 A	2.1×10^{-2}	
		4 A ~ 6 A	1.4×10^{-2}	
		6 A ~ 8 A	2.8×10^{-2}	
		8 A ~ 10 A	2.2×10^{-2}	
		10 A ~ 20 A	3.3×10^{-2}	
		20 A ~ 30 A	4.3×10^{-2}	
T2 Current (300 ~ 900) ns		(±)		
		0 A ~ 0.3 A	5.0×10^{-2}	
		0.3 A ~ 0.6 A	7.3×10^{-2}	
		0.6 A ~ 0.9 A	4.9×10^{-2}	
		0.9 A ~ 1.2 A	9.8×10^{-2}	
		1.2 A ~ 1.5 A	7.9×10^{-2}	
		1.5 A ~ 3.0 A	8.6×10^{-2}	
		3.0 A ~ 4.5 A	9.0×10^{-2}	
Semiconductor Peak Current HBM		(±)		
		0 A ~ 0.17 A	1.3×10^{-2}	
		0.17 A ~ 0.33 A	1.7×10^{-2}	
		0.33 A ~ 0.67 A	1.5×10^{-2}	
		0.67 A ~ 1.33 A	1.7×10^{-2}	
		1.33 A ~ 2.67 A	2.2×10^{-2}	
		2.67 A ~ 5.33 A	1.8×10^{-2}	
Semiconductor Peak Current MM		(±)		
		0 A ~ 1.74 A	1.1×10^{-2}	
		1.74 A ~ 3.5 A	1.7×10^{-2}	
		3.5 A ~ 7.0 A	1.4×10^{-2}	
		7.0 A ~ 14 A	1.7×10^{-2}	
Time		0.1 ns ~ 1 ns	9.8×10^{-3}	
		1 ns ~ 10 ns	9.2×10^{-4}	
		10 ns ~ 100 ns	6.2×10^{-4}	
		100 ns ~ 1 000 ns	6.2×10^{-4}	
HV		(±)		
		0 kV ~ 5 kV	4.0×10^{-3}	
		5 kV ~ 10 kV	4.0×10^{-3}	
		10 kV ~ 15 kV	2.7×10^{-3}	
		15 kV ~ 20 kV	3.0×10^{-3}	
		20 kV ~ 25 kV	4.8×10^{-3}	
		25 kV ~ 30 kV	4.7×10^{-3}	

406. Radio frequency measurements

Measured Quantity Instrument or Gauge	Field Code	Range	CMC (The Confidence Level is about 95 %)	Comments
EMC receivers	40614			Network Analyzer, Pulse Generator/ SICT-T100-40614
Frequency		100 kHz ~ 1 GHz	6.2×10^{-10}	
VSWR		9 kHz ~ 6 GHz	0.025	
		6 GHz ~ 18 GHz	0.032	
		18 GHz ~ 40 GHz	0.064	
IF Band		1 Hz ~ 10 MHz	65 mHz	
IF Band Selectivity		1 Hz ~ 10 MHz	5.8×10^{-4}	
IF Band Linearity		1 Hz ~ 1 GHz	0.12 dB	
Frequency Response (Average, Peak)		9 kHz ~ 50 MHz	0.036 dB	
		50 MHz ~ 1 GHz	0.064 dB	
		1 GHz ~ 10 GHz	0.074 dB	
		10 GHz ~ 18 GHz	0.094 dB	
		18 GHz ~ 40 GHz	0.13 dB	
Frequency Response (CISPR)		9 kHz ~ 1 GHz	0.78 dB	
Level Linearity		80 dBμV ~ 50 dBμV	0.09 dB	
		50 dBμV ~ 0 dBμV	0.12 dB	
Input Attenuation		0 dB ~ 30 dB	0.14 dB	
		30 dB ~ 70 dB	0.12 dB	
		70 dB ~ 110 dB	0.09 dB	
Video or IF Rejection ratio		9 kHz ~ 40 GHz	0.62 dB	
Noise Indicator		DC ~ 26.5 GHz	0.14 dB	
RF filters	40615			Network Analyzer/ SICT-T100-40615
Filter		9 kHz ~ 500 kHz	0.064 kHz	
		500 kHz ~ 500 MHz	0.64 kHz	
		500 MHz ~ 18 GHz	6.4 kHz	
		18 GHz ~ 40 GHz	64 kHz	
Gain Loss		9 kHz ~ 1 GHz	0.091 dB	
		1 GHz ~ 20 GHz	0.11 dB	
		20 GHz ~ 40 GHz	0.51 dB	
RF impedance meters	40616			Performance Kit/ SICT-T100-40616
RF Level		9 kHz ~ 18 GHz		
		35 dBm ~ 20 dBm	0.10 dB	
		20 dBm ~ -20 dBm	0.082 dB	
		-20 dBm ~ -70 dBm	0.12 dB	
Frequency		9 kHz ~ 0.1 MHz	6.8×10^{-10}	
		0.1 MHz ~ 18 GHz	6.2×10^{-11}	
Load Measurement		DC	0.02 Ω	
		1 MHz ~ 100 MHz	0.06 Ω	
		100 MHz ~ 500 MHz	0.16 Ω	
		500 MHz ~ 1.8 GHz	0.21 Ω	
		1.8 GHz ~ 18 GHz	0.41 Ω	

406. Radio frequency measurements

Measured Quantity Instrument or Gauge	Field Code	Range	CMC (The Confidence Level is about 95 %)	Comments
RF impulse generators	40617			Digital Oscilloscope/
Peak Voltage		0 kV ~ 1 kV	1.2×10^{-2}	SICT-T100-40617
		1 kV ~ 2 kV	1.3×10^{-2}	
		2 kV ~ 3 kV	1.6×10^{-2}	
		3 kV ~ 4 kV	1.3×10^{-2}	
		4 kV ~ 5 kV	1.0×10^{-2}	
		5 kV ~ 10 kV	1.0×10^{-2}	
		10 kV ~ 15 kV	1.7×10^{-2}	
		15 kV ~ 20 kV	1.3×10^{-2}	
		-0 kV ~ -1 kV	1.2×10^{-2}	
		-1 kV ~ -2 kV	1.3×10^{-2}	
		-2 kV ~ -3 kV	1.6×10^{-2}	
		-3 kV ~ -4 kV	1.3×10^{-2}	
		-4 kV ~ -5 kV	1.0×10^{-2}	
		-5 kV ~ -10 kV	1.0×10^{-2}	
		-10 kV ~ -15 kV	1.7×10^{-2}	
		-15 kV ~ -20 kV	1.3×10^{-2}	
Pulse Width		10 ns	7.6×10^{-3}	
		10 ns ~ 100 ns	2.8×10^{-3}	
		100 ns ~ 1 μs	2.8×10^{-3}	
		1 μs ~ 10 μs	2.6×10^{-3}	
		10 μs ~ 100 μs	2.8×10^{-3}	
		100 μs ~ 1 ms	2.6×10^{-3}	
Line impedance stabilization networks ; LISN, CDN, ISN, etc.	40618			Impedance/Gain-Phase Analyzer,
Impedance		(1 Ω ~ 5 000 Ω)		Calibration Kit/
		9 kHz ~ 30 kHz	$\sqrt{(9.1\times10^{-6})+(Z_M\times(3.5\times10^{-2}))^2}\ \Omega \times k$	SICT-T100-40618
		30 kHz ~ 100 kHz	$\sqrt{(9.1\times10^{-6})+(Z_M\times(1.8\times10^{-2}))^2}\ \Omega \times k$	
		100 kHz ~ 1 MHz	$\sqrt{(9.1\times10^{-6})+(Z_M\times(0.9\times10^{-2}))^2}\ \Omega \times k$	
		1 MHz ~ 500 MHz	$\sqrt{(9.1\times10^{-6})+(Z_M\times(1.0\times10^{-2}))^2}\ \Omega \times k$	
		(1 Ω ~ 1 000 Ω)		
		0.03 MHz ~ 1 000 MHz	$\sqrt{(9.1\times10^{-6})+(Z_M\times(1.0\times10^{-2}))^2}\ \Omega \times k$	
Phase		(±180 °)		
		9 kHz ~ 30 kHz	1.8 °	
		0.03 MHz ~ 1 000 MHz	1.2 °	
Insertion Loss		(0 dB ~ 100 dB)		
		9 kHz ~ 30 kHz	0.60 dB	
		0.03 MHz ~ 500 MHz	0.20 dB	
		500 MHz ~ 1 000 MHz	0.26 dB	
Decoupling attenuation(Isolation)		(0 dB ~ 100 dB)		
		9 kHz ~ 30 kHz	0.60 dB	
		0.03 MHz ~ 500 MHz	0.20 dB	
		500 MHz ~ 1 000 MHz	0.26 dB	

406. Radio frequency measurements

Measured Quantity Instrument or Gauge	Field Code	Range	CMC (The Confidence Level is about 95 %)	Comments
Line impedance stabilization networks ; LISN, CDN, ISN, etc.	40618			Impedance/Gain-Phase Analyzer,
Coupling/Decoupling network (Impedance)		(1 Ω ~ 5 000 Ω)		Calibration Kit/
		100 kHz ~ 300 kHz	$\sqrt{(9.1\times10^{-6})+(Z_M\times(2.0\times10^{-2}))^2}$ Ω × k	SICT-T100-40618
		300 kHz ~ 1 MHz	$\sqrt{(9.1\times10^{-6})+(Z_M\times(1.0\times10^{-2}))^2}$ Ω × k	
		1 MHz ~ 1 000 MHz	$\sqrt{(9.1\times10^{-6})+(Z_M\times(1.2\times10^{-2}))^2}$ Ω × k	
Coupling/Decoupling network (Insertion loss)		(0 dB ~ 100 dB) 0.03 MHz ~ 500 MHz	0.20 dB	
Coaxialstandardmismatches	40619			Network Analyzer, Calibration Kit/ SICT-T100-40619
Reflection coefficient(Γ)		(0.5 ~ 0.004 9)		
		9 kHz ~ 30 kHz	0.009 2	
		30 kHz ~ 0.045 GHz	0.009 0	
		0.045 GHz ~ 2 GHz	0.009 8	
		2 GHz ~ 40 GHz	0.008 4	
SWR		(3.00 ~ 1.05)		
		9 kHz ~ 40 GHz	$\left[\frac{2}{(1-\Gamma)^2}\ U_c(\Gamma)\right]\times k$	
Impedance(Z)		(50.5 Ω ~ 150 Ω)		
		9 kHz ~ 40 GHz	$\left[\frac{100}{(1-\Gamma)^2}\ U_c(\Gamma)\right]$ Ω × k	
Mobile communication test sets	40621			Measuring Receiver, RF Signal Generator/ SICT-T100-40621
RF Level		(100 kHz ~ 8 GHz)		
		35 dBm ~ 20 dBm	0.15 dB	
		20 dBm ~ -20 dBm	0.076 dB	
		-20 dBm ~ -70 dBm	0.14 dB	
		-70 dBm ~ -100 dBm	0.19 dB	
		-100 dBm ~ -120 dBm	0.25 dB	
Frequency		100 kHz ~ 8 GHz	6.2×10^{-11}	
Amplitude Modulation		0 % ~ 100 %	1.2×10^{-2}	
Frequency Modulation		0 kHz ~ 400 kHz	1.2×10^{-2}	
Phase Modulation		0 rad ~ 400 rad	3.7×10^{-2}	
Distortion of Modulation		0 % ~ 2 %	0.24 %	
Hamonics		0 dB~ -90 dB	0.37 dB	
AC Output Level		(10 Hz ~ 100 kHz)		
		1 mV ~ 10 mV	7.2×10^{-5}	
		10 mV ~ 0.1 V	7.2×10^{-5}	
		0.1 V ~ 1 V	2.3×10^{-5}	
		1 V ~ 10 V	2.4×10^{-5}	

406. Radio frequency measurements

Measured Quantity Instrument or Gauge	Field Code	Range	CMC (The Confidence Level is about 95 %)	Comments
Mobile communication test sets	40621			Measuring Receiver, RF Signal
DC Output Level		1 mV ~ 10 mV	6.7×10^{-5}	Generator/
		10 mV ~ 0.1 V	6.7×10^{-5}	SICT-T100-40621
		0.1 V ~ 1 V	6.5×10^{-5}	
		1 V ~ 10 V	6.6×10^{-6}	
AC Input Level		(10 Hz ~ 100 kHz)		
		1 mV ~ 100 mV	2.6×10^{-4}	
		100 mV ~ 1 V	2.8×10^{-4}	
		1 V ~ 10 V	1.3×10^{-4}	
DC Input Level		1 mV ~ 100 mV	6.7×10^{-5}	
		0.1 V ~ 1 V	6.5×10^{-5}	
		1 V ~ 10 V	6.4×10^{-5}	
RF Signal Analyzer		(100 kHz ~ 8 GHz)		
(Spectrum Analyzer mode)		10 dBm ~ -20 dBm	0.13 dB	
		-20 dBm ~ -70 dBm	0.15 dB	
Modulation meters	40622			Measuring Receiver/
Amplitude Modulation		0.001 % ~ 100 %	1.2×10^{-2}	SICT-T100-40622
Frequency Modulation		0.001 kHz ~ 400 kHz	1.2×10^{-2}	
Phase Modulation		0.001 rad ~ 400 rad	3.7×10^{-2}	
Network analyzers	40623			Power Sensor, Verification
Frequency		9 kHz ~ 40 GHz	6.8×10^{-10}	Kit/
				SICT-T100-40623
Source Power Level		(20 dBm ~ -20 dBm)		
		9 kHz ~ 50 MHz	0.09 dB	
		50 MHz ~ 1 GHz	0.10 dB	
		1 GHz ~ 10 GHz	0.11 dB	
		10 GHz ~ 18 GHz	0.12 dB	
		18 GHz ~ 40 GHz	0.15 dB	
		(-20 dBm ~ -60 dBm)		
		9 kHz ~ 50 MHz	0.09 dB	
		50 MHz ~ 1 GHz	0.10 dB	
		1 GHz ~ 10 GHz	0.11 dB	
		10 GHz ~ 18 GHz	0.12 dB	
		18 GHz ~ 40 GHz	0.15 dB	
Dynamic Range		(100 kHz ~ 18 GHz)		
		0 dB ~ 10 dB	0.038 dB	
		10 dB ~ 20 dB	0.050 dB	
		20 dB ~ 30 dB	0.052 dB	
		30 dB ~ 40 dB	0.053 dB	
		40 dB ~ 50 dB	0.056 dB	
		50 dB ~ 60 dB	0.081 dB	
		60 dB ~ 70 dB	0.098 dB	
		70 dB ~ 80 dB	0.12 dB	
		80 dB ~ 100 dB	0.15 dB	

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Measured Quantity Instrument or Gauge	Field Code	Range	CMC (The Confidence Level is about 95 %)	Comments
Network analyzers	40623			Power Sensor, Verification
Attenuation		(20 dB)		Kit/
		300 kHz ~ 45 MHz	0.054 dB	SICT-T100-40623
		45 MHz ~ 20 GHz	0.064 dB	
		20 GHz ~ 26.5 GHz	0.048 dB	
		(40 dB)		
		300 kHz ~ 45 MHz	0.072 dB	
		45 MHz ~ 20 GHz	0.062 dB	
		20 GHz ~ 26.5 GHz	0.070 dB	
Phase		(±180°)		
		300 kHz	1.1°	
		300 kHz ~ 45 MHz	0.31°	
		45 MHz ~ 2.0 GHz	0.21°	
		2.0 GHz ~ 3.0 GHz	0.19°	
		3.0 GHz ~ 4.5 GHz	0.23°	
		4.5 GHz ~ 6.0 GHz	0.20°	
		6.0 GHz ~ 7.5 GHz	0.24°	
		7.5 GHz ~ 8.0 GHz	0.23°	
		8.0 GHz ~ 9.0 GHz	0.22°	
		9.0 GHz ~ 10.5 GHz	0.27°	
		10.5 GHz ~ 12.0 GHz	0.25°	
		12.0 GHz ~ 13.5 GHz	0.32°	
		13.5 GHz ~ 15.0 GHz	0.33°	
		15.0 GHz ~ 16.5 GHz	0.40°	
		16.5 GHz ~ 18.0 GHz	0.37°	
		18.0 GHz ~ 19.5 GHz	0.42°	
		19.5 GHz ~ 20.0 GHz	0.37°	
		20.0 GHz ~ 21.0 GHz	0.38°	
		21.0 GHz ~ 22.5 GHz	0.41°	
		22.5 GHz ~ 24.0 GHz	0.42°	
		24.0 GHz ~ 25.5 GHz	0.52°	
		25.5 GHz ~ 26.5 GHz	0.54°	
Noise figure meters	40624			Noise Source/
Tuning Accuracy		10 MHz ~ 26.5 GHz	6.0×10^{-5}	SICT-T100-40624
Noise Figure		10 MHz ~ 18 GHz	0.34 dB	
Noise figure range		0 dB ~ 30 dB	0.055 dB	
DC voltage		0 V ~ 26 V	2.6×10^{-5}	
Noise generators	40625			Spectrum Analyzer/
Noise Power		0 dBm/Hz ~ -130 dBm/Hz	0.099 dB	SICT-T100-40625
Scale Fidelity		0 dB ~ 50 dB	0.36 dB	

406. Radio frequency measurements

Measured Quantity Instrument or Gauge	Field Code	Range	CMC (The Confidence Level is about 95 %)	Comments
Noise impulse simulators	40626			Digital Oscilloscope/
Peak Voltage		(±)		SICT-T100-40626
		0 V ~ 1 kV	1.2×10^{-2}	
		1 kV ~ 2 kV	1.3×10^{-2}	
		2 kV ~ 3 kV	1.6×10^{-2}	
		3 kV ~ 4 kV	1.3×10^{-2}	
		4 kV ~ 5 kV	1.0×10^{-2}	
		5 kV ~ 10 kV	1.0×10^{-2}	
		10 kV ~ 15 kV	1.7×10^{-2}	
		15 kV ~ 20 kV	1.3×10^{-2}	
Pulse Width		10 ns	7.6×10^{-3}	
		10 ns ~ 100 ns	2.8×10^{-3}	
		100 ns ~ 1 μs	2.8×10^{-3}	
		1 μs ~ 10 μs	2.6×10^{-3}	
		10 μs ~ 100 μs	2.8×10^{-3}	
		100 μs ~ 1 ms	2.8×10^{-3}	
RF phase noise meters	40627			RF Signal analyzer/
RF phase noise		Carrier Frequency (100 MHz ~ 18 GHz) Offset Frequency (10 Hz ~ 100 MHz)	1.3 dB	SICT-T100-40627
Coaxial noise sources	40628			Coaxial noise sources,
ENR		(4.5 dB ~ 6.5 dB)		Noise figure analyzer/
		0.01 GHz ~ 1 GHz	0.28 dB	SICT-T100-40628
		1 GHz ~ 7 GHz	0.27 dB	
		7 GHz ~ 8 GHz	0.30 dB	
		8 GHz ~ 14 GHz	0.31 dB	
		14 GHz ~ 18 GHz	0.32 dB	
		(14 dB ~ 16 dB)		
		0.01 GHz ~ 1 GHz	0.27 dB	
		1 GHz ~ 3 GHz	0.26 dB	
		3 GHz ~ 7 GHz	0.27 dB	
		7 GHz ~ 8 GHz	0.30 dB	
		8 GHz ~ 13 GHz	0.31 dB	
		13 GHz ~ 18 GHz	0.32 dB	
		(12 dB ~ 17 dB)		
		0.01 GHz ~ 1 GHz	0.31 dB	
		1 GHz ~ 2 GHz	0.28 dB	
		2 GHz ~ 6 GHz	0.30 dB	
		6 GHz ~ 7 GHz	0.29 dB	
		7 GHz ~ 12 GHz	0.39 dB	
		12 GHz ~ 18 GHz	0.41 dB	
		18 GHz ~ 26.5 GHz	0.48 dB	
SWR		(0 ~1)		
		30 kHz ~ 0.045 GHz	0.009 6	
		0.045 GHz ~ 2 GHz	0.010	
		2 GHz ~ 26.5 GHz	0.009 2	

406. Radio frequency measurements

Measured Quantity Instrument or Gauge	Field Code	Range	CMC (The Confidence Level is about 95 %)	Comments
RF power meters	40635			Range Calibrator/
Power range		3 μW	1.5×10^{-3}	SICT-T100-40635
		3 μW ~ 100 mW 10 kHz ~ 100 MHz	1.5×10^{-3}	
		(0.1 ~ 500) W 100 MHz ~ 250 MHz	2.8×10^{-2}	
		(0.1 ~ 500) W 250 MHz ~ 1 000 MHz	3.0×10^{-2}	
		(0.1 ~ 15) W 1 000 MHz ~ 4 200 MHz	3.0×10^{-2}	
		(0.1 ~ 10) W	3.0×10^{-2}	
Power Ref. Output		50 MHz, 1 mW	5.5 μW	
Diode power sensors	40636			Therimistor Mount,
Cal Factor		(100 pW ~ 100 mW)		Synthesized Sweeper/
		9 kHz ~ 100 kHz	0.4×10^{-2}	SICT-T100-40636
		100 kHz ~ 1 GHz	0.9×10^{-2}	
		1 GHz ~ 10 GHz	1.1×10^{-2}	
		10 GHz ~ 18 GHz	1.3×10^{-2}	
		18 GHz ~ 26.5 GHz	3.0×10^{-2}	
		26.5 GHz ~ 40 GHz	3.1×10^{-2}	
Thermocouple power sensors	40637			Therimistor Mount,
Cal Factor		(10 μW ~ 100 mW)		Synthesized Sweeper/
		9 kHz ~ 100 kHz	0.8×10^{-2}	SICT-T100-40637
		100 kHz ~ 1 GHz	0.9×10^{-2}	
		1 GHz ~ 10 GHz	1.1×10^{-2}	
		10 GHz ~ 18 GHz	1.3×10^{-2}	
		18 GHz ~ 40 GHz	3.0×10^{-2}	
Pulse generators	40638			Digital Oscilloscope/
Period		100 ps ~ 1 s	5.8×10^{-9}	SICT-T100-40638
Frequency		1 Hz ~ 3.35 GHz	5.8×10^{-9}	
Delay Time		1 s ~ 100 ns	5.9×10^{-4}	
		100 ns ~ 10 ns	7.5×10^{-4}	
		10 ns ~ 1 ns	4.7×10^{-3}	
		1 ns ~ 100 ps	4.7×10^{-2}	
Double Pulse		1 s ~ 100 ns	5.9×10^{-4}	
		100 ns ~ 10 ns	7.5×10^{-4}	
		10 ns ~ 1 ns	4.7×10^{-3}	
		1 ns ~ 100 ps	4.7×10^{-2}	
Width		1 s ~ 100 ns	5.9×10^{-4}	
		100 ns ~ 10 ns	7.5×10^{-4}	
		10 ns ~ 1 ns	4.7×10^{-3}	
		1 ns ~ 100 ps	4.7×10^{-2}	
Duty Cycle		1 % ~ 99 %	0.006 2 %	
Output Level		(100 Hz ~ 10 kHz)		
		10 dBm ~ -20 dBm	0.018 dB	
DC Level		± (10 mV ~ 100 V)	5.9×10^{-4}	

406. Radio frequency measurements

Measured Quantity Instrument or Gauge	Field Code	Range	CMC (The Confidence Level is about 95 %)	Comments
RF signal generators	40640			Measuring Receiver/
RF Level		(20 Hz ~ 26.5 GHz)		SICT-T100-40640
		20 dBm ~ -20 dBm	0.12 dB	
		-20 dBm ~ -70 dBm	0.15 dB	
		-70 dBm ~ -100 dBm	0.19 dB	
		-100 dBm ~ -120 dBm	0.25 dB	
		(26.5 GHz ~ 40 GHz)		
		20 dBm ~ -70 dBm	0.11 dB	
High power		(10 MHz ~ 18 GHz)		
		35 dBm ~ -10 dBm	0.10 dB	
		(10 MHz ~ 18 GHz)		
		51 dBm ~ 35 dBm	0.13 dB	
		(10 MHz ~ 2 GHz)		
		54 dBm ~ 51 dBm	0.12 dB	
		(10 MHz ~ 0.5 GHz)		
		57 dBm ~ 54 dBm	0.12 dB	
Amplitude Modulation		0 % ~ 100 %	1.2×10^{-2}	
Frequency Modulation		0 kHz ~ 400 kHz	1.2×10^{-2}	
Phase Modulation		0 rad ~ 400 rad	1.2×10^{-2}	
Distortion of Modulation		0 % ~ 2 %	1.2×10^{-3}	
Hamonics		0 dB ~ -110 dB	0.37 dB	
Frequency		9 kHz ~ 40 GHz	6.2×10^{-11}	
RF spectrum analyzers	40641			Power Sensor, Synthesized
Center Frequency		3 Hz ~ 100 Hz	2.0×10^{-4}	Sweeper/
		100 Hz ~ 500 Hz	6.1×10^{-6}	SICT-T100-40641
		500 Hz ~ 900 Hz	1.2×10^{-6}	
		900 Hz ~ 100 kHz	6.8×10^{-7}	
		0.1 MHz ~ 40 GHz	6.2×10^{-9}	
Frequency Counter		3 Hz ~ 100 Hz	2.0×10^{-4}	
		100 Hz ~ 500 Hz	6.1×10^{-6}	
		500 Hz ~ 900 Hz	1.2×10^{-6}	
		900 Hz ~ 100 kHz	6.8×10^{-7}	
		0.1 MHz ~ 40 GHz	6.2×10^{-9}	
Span		10 Hz ~ 100 kHz	7.7×10^{-3}	
		0.1 MHz ~ 40 GHz	7.7×10^{-6}	
RBW		1 Hz ~ 100 MHz	6.2×10^{-6}	

406. Radio frequency measurements

Measured Quantity Instrument or Gauge	Field Code	Range	CMC (The Confidence Level is about 95 %)	Comments
RF spectrum analyzers	40641			Power Sensor, Synthesized Sweeper/ SICT-T100-40641
RBW Selectivity		1 Hz ~ 100 MHz	3.2×10^{-2}	
RBW Switching		1 Hz ~ 100 MHz	0.024 dB	
Scale Switching		1 dB ~ 10 dB scale/div	0.024 dB	
Scale Fidelity		0 dB ~ -10 dB	0.050 dB	
		-10 dB ~ -20 dB	0.054 dB	
		-20 dB ~ -30 dB	0.057 dB	
		-30 dB ~ -40 dB	0.061 dB	
		-40 dB ~ -50 dB	0.064 dB	
		-50 dB ~ -60 dB	0.09 dB	
		-60 dB ~ -80 dB	0.11 dB	
		-80 dB ~ -100 dB	0.13 dB	
Frequency Response		10 Hz ~ 100 kHz	0.002 4 dB	
		100 kHz ~ 18 GHz	0.094 dB	
		18 GHz ~ 26.5 GHz	0.09 dB	
		26.5 GHz ~ 40 GHz	0.12 dB	
Average Noise Level		DC ~ 40 GHz	0.16 dB	
Sideband Noise Level		-30 kHz ~ 30 kHz	0.32 dB	
CAL Output Freq. & Int. Frequency		DC ~ 1 GHz	6.2×10^{-9}	
CAL Output Level		-20 dBm ~ 20 dBm	0.077 dB	
Surge generators	40643			Digital Oscilloscope/ SICT-T100-40643
Peak Voltage		(±)		
		0 kV ~ 0.5 kV	1.6×10^{-2}	
		0.5 kV ~ 1 kV	1.2×10^{-2}	
		1 kV ~ 2 kV	1.3×10^{-2}	
		2 kV ~ 3 kV	1.6×10^{-2}	
		3 kV ~ 4 kV	1.3×10^{-2}	
		4 kV ~ 5 kV	1.0×10^{-2}	
		5 kV ~ 10 kV	1.0×10^{-2}	
		10 kV ~ 15 kV	1.7×10^{-2}	
		15 kV ~ 20 kV	1.3×10^{-2}	
Pulse Rise		100 ns ~ 1 μs	2.8×10^{-3}	
		1 μs ~ 10 μs	2.6×10^{-3}	
		10 μs ~ 100 μs	2.8×10^{-3}	
Pulse Width		1 μs ~ 10 μs	2.8×10^{-3}	
		10 μs ~ 100 μs	2.6×10^{-3}	
		100 μs ~ 1 000 μs	2.8×10^{-3}	
Peak Current		0 A ~ 500 A	3.5×10^{-2}	
		500 A ~ 1 000 A	2.0×10^{-2}	
		1 000 A ~ 2 000 A	1.4×10^{-2}	

406. Radio frequency measurements

Measured Quantity Instrument or Gauge	Field Code	Range	CMC (The Confidence Level is about 95 %)	Comments
SWR meters	40644			Coaxial Mismatch/
Frequency		9 kHz ~ 18 GHz	7.1×10^{-7}	SICT-T100-40644
SWR		30 kHz ~ 2 GHz		
		1.05	0.013	
		1.20	0.013	
		1.50	0.013	
		2.00	0.013	
		2 GHz ~ 18 GHz		
		1.05	0.014	
		1.20	0.014	
		1.50	0.014	
		2.00	0.014	
RF terminations	40645			Network Analyzer, Coaxial
Termination				Mismatch/
(Reflection coefficient)		(0 ~ 0.005)		SICT-T100-40645
		9 kHz ~ 45 MHz	0.009 0	
		45 MHz ~ 2 GHz	0.009 8	
		2 GHz ~ 40 GHz	0.008 6	
(SWR)		(1 ~ 1.01)		
		9 kHz ~ 45 MHz	0.018	
		45 MHz ~ 2 GHz	0.020	
		2 GHz ~ 40 GHz	0.017	
(Impedance)		(49.5 Ω ~ 50.5 Ω)		
		9 kHz ~ 45 MHz	0.90 Ω	
		45 MHz ~ 2 GHz	0.98 Ω	
		2 GHz ~ 40 GHz	0.86 Ω	
(Open,Short;Phase)		(±180 °)		
		9 kHz ~ 2 GHz	0.70°	
		2 GHz ~ 8 GHz	0.72°	
		8 GHz ~ 20 GHz	0.78°	
		20 GHz ~ 26.5 GHz	0.84°	
		26.5 GHz ~ 40 GHz	0.78°	
Coaxial thermistor mounts	40646			Therimistor Mount,
Cal Factor		(10 μW ~ 100 mW)		Synthesized Sweeper/
		9 kHz ~ 100 kHz	0.8×10^{-2}	SICT-T100-40646
		100 kHz ~ 1 GHz	0.9×10^{-2}	
		1 GHz ~ 10 GHz	1.1×10^{-2}	
		10 GHz ~ 18 GHz	1.3×10^{-2}	
		18 GHz ~ 40 GHz	3.0×10^{-2}	

406. Radio frequency measurements

Measured Quantity Instrument or Gauge	Field Code	Range	CMC (The Confidence Level is about 95 %)	Comments
RF voltmeters	40650			RF Millivolt Meter Calibrator/
RF Voltage		3 V	4.2 mV	SICT-T100-40650
		1 V	1.2 mV	
		300 mV	0.34 mV	
		270 mV	0.32 mV	
		240 mV	0.28 mV	
		210 mV	0.24 mV	
		180 mV	0.24 mV	
		150 mV	0.20 mV	
		120 mV	0.16 mV	
		100 mV	0.14 mV	
		90 mV	0.14 mV	
		60 mV	0.10 mV	
		30 mV	0.044 mV	
		10 mV	0.016 mV	
		3 mV	0.014 mV	
		1 mV	0.010 mV	
Vector voltmeters	40651			Signal Generator/
RF Voltage		300 mV	0.34 mV	SICT-T100-40651
		100 mV	0.14 mV	
		30 mV	0.044 mV	
		10 mV	0.016 mV	
RF Phase		0° ~ 270°	0.006°	
Field strength meters	40652			Signal Generator/
Center frequency		9 kHz ~ 100 kHz	6.8×10^{-8}	
		0.1 MHz ~ 18 GHz	6.2×10^{-9}	
Scale Fidelity		0 dB ~ -10 dB	0.076 dB	
		-10 dB ~ -20 dB	0.078 dB	
		-20 dB ~ -30 dB	0.080 dB	SICT-T100-40652
		-30 dB ~ -40 dB	0.083 dB	
		-40 dB ~ -50 dB	0.086 dB	
		-50 dB ~ -60 dB	0.11 dB	
		-60 dB ~ -80 dB	0.12 dB	
		-80 dB ~ -100 dB	0.14 dB	
Frequency response		9 kHz ~ 100 kHz	0.064 dB	
		100 kHz ~ 10 GHz	0.072 dB	
		10 GHz ~ 18 GHz	0.090 dB	
AM/FM test sources	40653			Measuring Receiver/
Output frequency		10 MHz ~ 560 MHz	6.2 × 10-10	SICT-T100-40653
Dip simulators	40654			Digital Oscilloscope/
AC Voltage		(50 Hz ~ 60 Hz)		SICT-T100-40654
		0 V ~ 120 V	3.7×10^{-3}	
		120 V ~ 230 V	2.2×10^{-3}	
		230 V ~ 400 V	1.5×10^{-4}	
Dip up AC Voltage		(50 Hz ~ 60 Hz)		
		(0 V ~ 120 V)		
		0 %	3.7×10^{-1}	
		1 % ~ 40 %	8.3×10^{-3}	
		40 % ~ 70 %	6.9×10^{-3}	
		70 % ~ 120 %	6.1×10^{-3}	

406. Radio frequency measurements

Measured Quantity Instrument or Gauge	Field Code	Range	CMC (The Confidence Level is about 95 %)	Comments
Dip simulators	40654			Digital Oscilloscope/
Dip up AC Voltage		(120 V ~ 230 V)		SICT-T100-40654
		0 %	4.0×10^{-1}	
		1 % ~ 40 %	7.4×10^{-3}	
		40 % ~ 70 %	6.6×10^{-3}	
		70 % ~ 120 %	6.0×10^{-3}	
Dip up AC Voltage		(230 V ~ 400 V)		
		0 %	5.1×10^{-1}	
		1 % ~ 40 %	7.5×10^{-3}	
		40 % ~ 70 %	7.1×10^{-3}	
		70 % ~ 120 %	6.7×10^{-3}	
Duration Time		(50 Hz ~ 60 Hz)		
		0 ms ~ 1 ms	6.4×10^{-2}	
		1 ms ~ 10 ms	7.2×10^{-3}	
		10 ms ~ 100 ms	9.2×10^{-4}	
		100 ms ~ 500 ms	1.4×10^{-3}	
		500 ms ~ 1 s	7.2×10^{-3}	
		1 s ~ 2 s	3.6×10^{-3}	
		2 s ~ 3 s	2.4×10^{-3}	
		3 s ~ 4 s	2.2×10^{-3}	
		4 s ~ 5 s	1.8×10^{-3}	

407. Field strength & antennas

Measured Quantity Instrument or Gauge	Field Code	Range	CMC (The Confidence Level is about 95 %)	Comments
Loop antennas	40704			Signal generatorl,
Antenna Factor		20 Hz ~ 30 MHz	1.5 dB	Signal analyzer/
				SICT-T100-40704
Monopole antennas	40705			Signal generatorl,
Antenna Factor		9 kHz ~ 30 MHz	1.4 dB	Signal analyzer/
				SICT-T100-40705

501. Contact temperature

Measured Quantity Instrument or Gauge	Field Code	Range	CMC (The Confidence Level is about 95 %)	Comments
Temperature generators: ovens, furnaces, isothermal liquid baths, ice-point baths, dry-block calibrators	50101			SPRT/ SICT-T100-50101
Temperature controlled chambers /ovens		-90 ℃ ~ 200 ℃	0.2 ℃	
		200 ℃ ~ 300 ℃	1.1 ℃	
		300 ℃ ~ 400 ℃	1.2 ℃	
		400 ℃ ~ 500 ℃	1.4 ℃	
Dry Block Calibrator		-100 ℃ ~ 400 ℃	0.02 ℃	
		400 ℃ ~ 700 ℃	0.04 ℃	
		700 ℃ ~ 900 ℃	0.07 ℃	
		900 ℃ ~ 1 200 ℃	1.1 ℃	
Liquid bath		-90 ℃ ~ 550 ℃	0.02 ℃	
Ice Point		0 ℃	0.014 ℃	

501. Contact temperature

Measured Quantity Instrument or Gauge	Field Code	Range	CMC (The Confidence Level is about 95 %)	Comments
Temperature generators: ovens, furnaces, isothermal liquid baths, ice-point baths, dry-block calibrators	50101			SPRT/ SICT-T100-50101
Furnace		50 ℃ ~ 100 ℃	1.5 ℃	
		100 ℃ ~ 200 ℃	1.4 ℃	
		200 ℃ ~ 1 200 ℃	1.3 ℃	
		1 200 ℃ ~ 1 600 ℃	4.0 ℃	
Freezer		-150 ℃ ~ 0 ℃	0.7 ℃	
Auto clave & PCT		30 ℃ ~ 140 ℃	0.7 ℃	
Temperature indicators/recorders /controllers, temperature calibrators	50102			SPRT/ SICT-T100-50102
(Include Sensor)				
T/C		-196 ℃ ~ -150 ℃	0.7 ℃	
		-150 ℃ ~ -90 ℃	0.4 ℃	
		-90 ℃ ~ -50 ℃	0.3 ℃	
		-50 ℃ ~ 50 ℃	0.2 ℃	
		50 ℃ ~ 100 ℃	0.3 ℃	
		100 ℃ ~ 200 ℃	0.4 ℃	
		200 ℃ ~ 300 ℃	0.6 ℃	
		300 ℃ ~ 400 ℃	0.7 ℃	
		400 ℃ ~ 500 ℃	0.9 ℃	
		500 ℃ ~ 600 ℃	1.1 ℃	
		600 ℃ ~ 700 ℃	1.3 ℃	
		700 ℃ ~ 800 ℃	1.5 ℃	
		800 ℃ ~ 900 ℃	1.7 ℃	
		900 ℃ ~ 960 ℃	1.8 ℃	
		960 ℃ ~ 1 000 ℃	2.2 ℃	
		1 000 ℃ ~ 1 100 ℃	2.4 ℃	
		1 100 ℃ ~ 1 200 ℃	2.6 ℃	
		1 200 ℃ ~ 1 300 ℃	4.3 ℃	
		1 300 ℃ ~ 1 500 ℃	4.4 ℃	
RTD		-196 ℃ ~ 400 ℃	0.026 ℃	
		400 ℃ ~ 500 ℃	0.027 ℃	
		500 ℃ ~ 660 ℃	0.033 ℃	
(Exclude Sensor)				
T/C		-196 ℃ ~ -100 ℃	0.3 ℃	
		-100 ℃ ~ 200 ℃	0.4 ℃	
		200 ℃ ~ 1 500 ℃	0.3 ℃	
RTD		-196 ℃ ~ 800 ℃	0.07 ℃	
Glass thermometers; liquid-in-glass, Beckmann	50103			SPRT/ SICT-T100-50103
liquid-in-glass		-50 ℃ ~ 400 ℃	0.04 ℃	
Resistance thermometers; SPRT, IPRT, thermistors, etc.	50104			SPRT/ SICT-T100-50104
IPRT, thermistors		-196 ℃ ~ 400 ℃	0.025 ℃	
		400 ℃ ~ 500 ℃	0.026 ℃	
		500 ℃ ~ 660 ℃	0.033 ℃	

501. Contact temperature

Measured Quantity Instrument or Gauge	Field Code	Range	CMC (The Confidence Level is about 95 %)	Comments
Thermal expansion thermometers ; bimetal, gas or liquid type	50105			SPRT/ SICT-T100-50105
bimetal		-50 ℃ ~ 160 ℃	0.3 ℃	
		160 ℃ ~ 500 ℃	0.6 ℃	
Thermomecouples: noble metal, base metal, pure metal, special type, etc.	50106			SPRT,THERMOCOUPLE SICT-T100-50106
Temperature		-196 ℃ ~ -150 ℃	0.7 ℃	
		-150 ℃ ~ -90 ℃	0.4 ℃	
		-90 ℃ ~ 100 ℃	0.2 ℃	
		100 ℃ ~ 150 ℃	0.3 ℃	
		150 ℃ ~ 200 ℃	0.4 ℃	
		200 ℃ ~ 300 ℃	0.6 ℃	
		300 ℃ ~ 400 ℃	0.7 ℃	
		400 ℃ ~ 500 ℃	0.9 ℃	
		500 ℃ ~ 600 ℃	1.1 ℃	
		600 ℃ ~ 700 ℃	1.3 ℃	
		700 ℃ ~ 800 ℃	1.5 ℃	
		800 ℃ ~ 900 ℃	1.7 ℃	
		900 ℃ ~ 1 000 ℃	2.2 ℃	
		1 000 ℃ ~ 1 100 ℃	2.4 ℃	
		1 100 ℃ ~ 1 200 ℃	2.6 ℃	
		1 200 ℃ ~ 1 300 ℃	4.8 ℃	
Temperature transducers	50107			SPRT,THERMOCOUPLE,MULTIMETER
Temperature		-196 ℃ ~ 500 ℃	0.07 ℃	SICT-T100-50107
		500 ℃ ~ 900 ℃	0.3 ℃	
		900 ℃ ~ 1 200 ℃	1.1 ℃	
		1 200 ℃ ~ 1 300 ℃	4.0 ℃	

502. non contact temperature

Measured Quantity Instrument or Gauge	Field Code	Range	CMC (The Confidence Level is about 95 %)	Comments
Standard radiation thermometers	50204			Transfer Standard Pyrometer/
Temperature		-20 ℃ ~ 50 ℃	0.8 ℃	SICT-T100-50204
		50 ℃ ~ 100 ℃	0.9 ℃	
		100 ℃ ~ 200 ℃	1.2 ℃	
		200 ℃ ~ 500 ℃	1.3 ℃	
		500 ℃ ~ 600 ℃	1.4 ℃	
		600 ℃ ~ 800 ℃	1.5 ℃	
		800 ℃ ~ 900 ℃	1.6 ℃	
		900 ℃ ~ 1 000 ℃	1.8 ℃	
		1 000 ℃ ~ 1 600 ℃	2.0 ℃	
Thermal image apparatus	50205			Transfer Standard Pyrometer/
Temperature		-20 ℃ ~ 50 ℃	0.8 ℃	SICT-T100-50205
		50 ℃ ~ 100 ℃	0.9 ℃	
		100 ℃ ~ 200 ℃	1.2 ℃	
		200 ℃ ~ 500 ℃	1.3 ℃	
		500 ℃ ~ 600 ℃	1.4 ℃	
		600 ℃ ~ 800 ℃	1.5 ℃	
		800 ℃ ~ 900 ℃	1.6 ℃	
		900 ℃ ~ 1 000 ℃	1.8 ℃	
		1 000 ℃ ~ 1 200 ℃	2.0 ℃	

502. non contact temperature

Measured Quantity Instrument or Gauge	Field Code	Range	CMC (The Confidence Level is about 95 %)	Comments
Blackbody furnaces	50206			Transfer Standard Pyrometer/
Temperature		-20 ℃ ~ 0 ℃	0.7 ℃	SICT-T100-50206
		0 ℃ ~ 100 ℃	0.8 ℃	
		100 ℃ ~ 200 ℃	1.1 ℃	
		200 ℃ ~ 500 ℃	1.3 ℃	
		500 ℃ ~ 600 ℃	1.4 ℃	
		600 ℃ ~ 800 ℃	1.5 ℃	
		800 ℃ ~ 900 ℃	1.6 ℃	
		900 ℃ ~ 1 000 ℃	1.7 ℃	
		1 000 ℃ ~ 2 000 ℃	2.0 ℃	
Others ; ear thermometers, etc.	50207			Standard prt/
Temperature		30 ℃ ~ 45 ℃	0.08 ℃	SICT-T100-50207

503. Humidity

Measured Quantity Instrument or Gauge	Field Code	Range	CMC (The Confidence Level is about 95 %)	Comments
Dew-point hygrometers; chilled mirror, alumina thinfilm, etc.	50301			Dewpoint Meter/
Dew point		-80 ℃ D.P. ~ -60 ℃ D.P.	0.59 ℃ D.P.	SICT-T100-50301
		-60 ℃ D.P. ~ 0 ℃ D.P.	0.21 ℃ D.P.	
		0 ℃ D.P. ~ 30 ℃ D.P.	0.23 ℃ D.P.	
		30 ℃ D.P. ~ 60 ℃ D.P.	0.20 ℃ D.P.	
		60 ℃ D.P. ~ 80 ℃ D.P.	0.21 ℃ D.P.	
		80 ℃ D.P. ~ 89 ℃ D.P.	0.24 ℃ D.P.	
Relative humidity hygrometers; polimer thinfilm, hair, etc.	50302			Dewpoint Meter/ SICT-T100-50302
polimer thinfilm(Digital hygro meter)				
(Relative humidity)		10 % R.H. ~ 20 % R.H.	1.6 % R.H.	
		20 % R.H. ~ 50 % R.H.	1.3 % R.H.	
		50 % R.H. ~ 70 % R.H.	1.4 % R.H.	
		70 % R.H. ~ 80 % R.H.	1.5 % R.H.	
		80 % R.H. ~ 97 % R.H.	1.6 % R.H.	
(Temperature)		-40 ℃ ~ 100 ℃	0.3 ℃	
		100 ℃ ~ 120 ℃	1.7 ℃	
		120 ℃ ~ 150 ℃	1.9 ℃	
hair				
(Relative humidity)		10 % R.H. ~ 20 % R.H.	2.3 % R.H.	
		20 % R.H. ~ 60 % R.H.	2.1 % R.H.	
		60 % R.H. ~ 70 % R.H.	2.2 % R.H.	
		70 % R.H. ~ 95 % R.H.	2.4 % R.H.	
(Temperature)		-40 ℃ ~ 90 ℃	1.0 ℃	
Psychrometers; assmann ventilated, PRT type, etc.	50303			Dewpoint Meter/ SICT-T100-50303
assmann ventilated				
(Relative humidity)		10 % R.H. ~ 20 % R.H.	1.6 % R.H.	
		20 % R.H. ~ 50 % R.H.	1.7 % R.H.	
		50 % R.H. ~ 70 % R.H.	1.8 % R.H.	
		70 % R.H. ~ 80 % R.H.	1.9 % R.H.	
		80 % R.H. ~ 95 % R.H.	2.0 % R.H.	
(Temperature)		0 ℃ ~ 50 ℃	0.4 ℃	
PRT type				
(Relative humidity)		10 % R.H. ~ 70 % R.H.	1.6 % R.H.	
		70 % R.H. ~ 97 % R.H.	1.7 % R.H.	
(Temperature)		0 ℃ ~ 100 ℃	0.3 ℃	

503. Humidity

Measured Quantity Instrument or Gauge	Field Code	Range	CMC (The Confidence Level is about 95 %)	Comments
Temperature humidity recorders ; Hygrothermograph, etc	50304			Dewpoint Meter/
Relative Humidity		10 % R.H. ~ 20 % R.H.	2.3 % R.H.	SICT-T100-50304
		20 % R.H. ~ 60 % R.H.	2.1 % R.H.	
		60 % R.H. ~ 70 % R.H.	2.2 % R.H.	
		70 % R.H. ~ 95 % R.H.	2.4 % R.H.	
Temperature		-40 ℃ ~ 90 ℃	1.0 ℃	
Transducers; dew-point /relative humidity	50305			Dewpoint Meter/
Dew point		-80 ℃ D.P. ~ -60 ℃ D.P.	0.7 ℃ D.P.	SICT-T100-50305
		-60 ℃ D.P. ~ 89 ℃ D.P.	0.4 ℃ D.P.	
Relative Humidity		10 % R.H. ~ 20 % R.H.	1.6 % R.H.	
		20 % R.H. ~ 50 % R.H.	1.3 % R.H.	
		50 % R.H. ~ 70 % R.H.	1.4 % R.H.	
		70 % R.H. ~ 80 % R.H.	1.5 % R.H.	
		80 % R.H. ~ 97 % R.H.	1.6 % R.H.	
Humidity generators; two-pressure, two-temperature, flow mixing humidity gererator, constant temperature and humidity chamber, etc.	50306			Dewpoint Meter/ SICT-T100-50306
Humidity generator				
(Relative humidity)		5 % R.H. ~ 20 % R.H.	1.5 % R.H.	
		20 % R.H. ~ 30 % R.H.	1.3 % R.H.	
		30 % R.H. ~ 50 % R.H.	1.2 % R.H.	
		50 % R.H. ~ 60 % R.H.	1.3 % R.H.	
		60 % R.H. ~ 70 % R.H.	1.4 % R.H.	
		70 % R.H. ~ 80 % R.H.	1.5 % R.H.	
		80 % R.H. ~ 90 % R.H.	1.6 % R.H.	
		90 % R.H. ~ 97 % R.H.	1.7 % R.H.	
(Dew point)		-80 ℃ D.P. ~ -60 ℃ D.P.	0.6 ℃ D.P.	
		-60 ℃ D.P. ~ 89 ℃ D.P.	0.3 ℃ D.P.	
(Temperature)		-80 ℃ ~ 85 ℃	0.3 ℃	
temperature and humidity chamber				
(Relative humidity)		10 % R.H. ~ 20 % R.H.	1.6 % R.H.	
		20 % R.H. ~ 30 % R.H.	1.4 % R.H.	
		30 % R.H. ~ 40 % R.H.	1.5 % R.H.	
		40 % R.H. ~ 50 % R.H.	1.7 % R.H.	
		50 % R.H. ~ 60 % R.H.	1.9 % R.H.	
		60 % R.H. ~ 70 % R.H.	2.0 % R.H.	
		70 % R.H. ~ 80 % R.H.	2.3 % R.H.	
		80 % R.H. ~ 90 % R.H.	2.4 % R.H.	
		90 % R.H. ~ 97 % R.H.	2.5 % R.H.	
(Temperature)		-90 ℃ ~ 200 ℃	0.3 ℃	

601. Sound in air

Measured Quantity Instrument or Gauge	Field Code	Range	CMC (The Confidence Level is about 95 %)	Comments
Sound level meters	60106			Multifunction Acoustic
		63 Hz	0.3 dB	Calibrator/
		125 Hz	0.3 dB	SICT-T100-60107
		250 Hz	0.2 dB	
		500 Hz	0.2 dB	
		1 kHz	0.2 dB	
		2 kHz	0.2 dB	
		4 kHz	0.2 dB	
		8 kHz	0.4 dB	
		12.5 kHz	0.6 dB	

603. Vibration

Measured Quantity Instrument or Gauge	Field Code	Range	CMC (The Confidence Level is about 95 %)	Comments
Vibration calibrators	60301			Standard Accelerometer/
		20 Hz ~ 1 250 Hz	1.3×10^{-2}	SICT-T100-60301
Vibration transducers	60302			Standard Accelerometer/
		10 Hz ~ 630 Hz	1.3×10^{-2}	SICT-T100-60302
		1 250 Hz	1.4×10^{-2}	
		2 500 Hz	1.5×10^{-2}	
		5 000 Hz	2.2×10^{-2}	
Vibration measuring instruments	60303			Standard Accelerometer/
		10 Hz	2.2×10^{-2}	SICT-T100-60303
		20 Hz ~ 2 500 Hz	1.9×10^{-2}	

701. Photometry

Measured Quantity Instrument or Gauge	Field Code	Range	CMC (The Confidence Level is about 95 %)	Comments
Illuminance meters	70101			Illuminance Meter/
Iluminance		10 lx ~ 5 000 lx	1.7 %	SICT-T100-70101
Luminance meters	70102			Spectroradiometer/
Luminance		1 cd/m^2	3.7 %	SICT-T100-70102
		1 cd/m^2 ~ 5 cd/m^2	2.4 %	
		5 cd/m^2 ~ 10 cd/m^2	1.6 %	
		10 cd/m^2 ~ 1 000 cd/m^2	1.3 %	
		1 000 cd/m^2 ~ 10 000 cd/m^2	1.5 %	
Total luminous flux meters	70103			Standard lamps/
Total luminous flux		(69.6 ~ 2 251.5) lm	3.2 %	SICT-T100-70103
Luminance intensity meters	70104			Standard lamps/
Luminance		(72 ~ 1 000) cd	3.7 %	SICT-T100-70104

702. Properties of detectors & sources

Measured Quantity Instrument or Gauge	Field Code	Range	CMC (The Confidence Level is about 95 %)	Comments
Color temperature meters	70202			Standard lamps/
Color temperature		2 856 K	25 K	SICT-T100-70202
Color temperature standard lamps	70203			Standard lamps/
Color temperature		2 856 K	34 K	SICT-T100-70203

702. Properties of detectors & sources

Measured Quantity Instrument or Gauge	Field Code	Range	CMC (The Confidence Level is about 95 %)	Comments
Colorimeters; source color	70204			Spectroradiometer/
Luminance		1 cd/m^2	3.7 %	SICT-T100-70204
		1 cd/m^2 ~ 5 cd/m^2	2.4 %	
		5 cd/m^2 ~ 10 cd/m^2	1.6 %	
		10 cd/m^2 ~ 1 000 cd/m^2	1.3 %	
		1 000 cd/m^2 ~ 10 000 cd/m^2	1.5 %	
Chromaticity		(WHITE)		
		x	0.004 0	
		y	0.004 0	
		(RED)		
		x	0.004 0	
		y	0.003 0	
		(GREEN)		
		x	0.004 0	
		y	0.005 0	
		(BLUE)		
		x	0.003 0	
		y	0.003 0	
Laser power meters	70207			Optical Power Meter/
		(405 nm)		SICT-T100-70207
		0.9 mW ~ 1.3 mW	1.1 %	
		(660 nm)		
		1 mW ~ 42 mW	1.1 %	
		(785 nm)		
		1 mW ~ 42 mW	1.1 %	
Standard LED light sources	70208			Spectroradiometer/
Total luminous flux		(2 ~ 320) lm	3.8 %	SICT-T100-70208
Total luminous flux standard lamps	70209			Spectroradiometer/
Total luminous flux		(2 ~ 320) lm	3.8 %	SICT-T100-70209
		(320 ~ 5 000) lm	4.6 %	
Optical detectors	70210			Photodiode/
Relative spectral response		300 nm ~ 1 000 nm	4.4 %	SICT-T100-70210
		(0 ~ 1)		
Pyranometers and pyrheliometers	70211			Standard pyranometer/
spectral respons		250 nm ~ 2 500 nm		SICT-T100-70211
Irradiance		(1 000 ± 100)W/m^2	3.7 %	
Display color analyzers; luminance, chromaticity, white balance, etc.	70213			Master Probe/
Chromaticity(x, y)				SICT-T100-70213
Luminance		1 cd/m^2 ~ 5 cd/m^2	4.4 %	
		5 cd/m^2 ~ 50 cd/m^2	3.4 %	
		50 cd/m^2 ~ 200 cd/m^2	2.7 %	
Chromaticity		(WHITE)		
		x	0.004 4	
		y	0.004 2	
		(RED)		
		x	0.004 5	
		y	0.003 3	
		(GREEN)		
		x	0.004 4	
		y	0.005 2	
		(BLUE)		
		x	0.003 5	
		y	0.003 2	

702. Properties of detectors & sources

Measured Quantity Instrument or Gauge	Field Code	Range	CMC (The Confidence Level is about 95 %)	Comments
Luminous intensity standard lamps	70214			Standard lamps/
Luminance		(10 ~ 5 000) cd	4.0 %	SICT-T100-70214
Spectral irradiance standard lamps	70215			Standard lamps/
Spectral irradiance		(0.000 1 ~ 1) W/nm·m^2		SICT-T100-70215
		250 nm	6.8 %	
		(250 ~ 255) nm	6.5 %	
		(255 ~ 275) nm	5.9 %	
		(275 ~ 315) nm	4.8 %	
		(315 ~ 395) nm	3.9 %	
		(395 ~ 490) nm	2.8 %	
		(490 ~ 1 020) nm	2.3 %	
Total spectral radiant flux standard lamps	70216			Standard lamps/ SICT-T100-70216
Total spectral radiant flux		(0.3 ~ 100) mW/nm		
		380 nm	4.4 %	
		(380 ~ 400) nm	4.2 %	
		(400 ~ 455) nm	3.9 %	
		(455 ~ 780) nm	3.6 %	
Luminance standard lamps	70217			Standard lamps/
Luminance		(1 ~ 10 000) cd/m^2	3.1 %	SICT-T100-70217
Chromaticity		(WHITE)		
		x (0.295~0.311)	0.008 0	
		y (0.321~0.337)	0.007 9	
		(RED)		
		x (0.691~0.701)	0.006 3	
		y (0.298~0.304)	0.003 5	
		(GREEN)		
		x (0.282~0.294)	0.006 7	
		y (0.596~0.608)	0.007 6	
		(BLUE)		
		x (0.147~0.155)	0.004 2	
		y (0.048~0.054)	0.003 4	
Spectral radiance standard lamps	70218			Standard lamps/
Spectral radiance		380 nm	4.1 %	SICT-T100-70218
		(380 ~ 415) nm	3.5 %	
		(415 ~ 490) nm	3.0 %	
		(490 ~ 780) nm	2.0 %	
UV irradiance meters	70219			UV Meter Standard Detector/
Irradiance		(254 nm)		SICT-T100-70219
(UV Meter)		50 μW/cm^2 ~ 3 mW/cm^2	3.8 %	
		(365 nm)		
		10 μW/cm^2 ~ 230 mW/cm^2	3.8 %	
		(405 nm)		
		10 μW/cm^2 ~ 230 mW/cm^2	3.8 %	

702. Properties of detectors & sources

Measured Quantity Instrument or Gauge	Field Code	Range	CMC (The Confidence Level is about 95 %)	Comments
Spectral irradiance meters	70220			Spectroradiometer/
Wavelength		(350 ~ 850) nm	0.25 nm	SICT-T100-70220
Spectral irradiance		250 nm	7.3 %	
		(250 ~ 255) nm	6.5 %	
		(255 ~ 275) nm	6.0 %	
		(275 ~ 300) nm	4.9 %	
		(300 ~ 345) nm	4.0 %	
		(345 ~ 435) nm	3.0 %	
		(435 ~ 1 050) nm	2.0 %	
Total spectral radiant flux meters	70221			Spectroradiometer/
Wavelength		(253 ~ 830) nm	0.3 nm	SICT-T100-70221
Total spectral radiant flux		350 nm	4.3 %	
		(350 ~ 365) nm	3.9 %	
		(365 ~ 405) nm	2.8 %	
		(405 ~ 850) nm	2.0 %	
Spectral radiance meters	70222			Spectroradiometer/
Wavelength		(350 ~ 850) nm	0.25 nm	SICT-T100-70222
Spectral radiance		380 nm	3.2 %	
		(380 ~ 415) nm	2.7 %	
		(415 ~ 445) nm	2.4 %	
		(445 ~ 500) nm	2.2 %	
		(500 ~ 1 050) nm	1.9 %	

703. Properties of materials

Measured Quantity Instrument or Gauge	Field Code	Range	CMC (The Confidence Level is about 95 %)	Comments
Colorimeters; material color	70301			Color Tile/
Included Reflectance Std. Light Source Type A (2°)				SICT-T100-70301
1. White		X	0.65 %	
		Y	0.63 %	
		Z	0.67 %	
2. I,Gray		X	0.64 %	
		Y	0.63 %	
		Z	0.68 %	
3. M,Gray		X	0.76 %	
		Y	0.74 %	
		Z	0.73 %	
4. D,Gray		X	0.70 %	
		Y	0.71 %	
		Z	0.81 %	
5. Red		X	1.1 %	
		Y	1.1 %	
		Z	0.81 %	
6. Yellow		X	0.66 %	
		Y	0.68 %	
		Z	0.86 %	
7. Green		X	0.66 %	
		Y	0.65 %	
		Z	0.75 %	
8. Cyan		X	0.93 %	
		Y	1.1 %	
		Z	1.0 %	

703. Properties of materials

Measured Quantity Instrument or Gauge	Field Code	Range	CMC (The Confidence Level is about 95 %)	Comments
Colorimeters; material color	70301			Color Tile/
Included Reflectance Std. Light Source Type A (2°)				SICT-T100-70301
1. White		x	0.001 4	
		y	0.001 2	
2. I,Gray		x	0.001 4	
		y	0.001 2	
3. M,Gray		x	0.001 4	
		y	0.001 2	
4. D,Gray		x	0.001 5	
		y	0.001 3	
5. Red		x	0.001 2	
		y	0.000 9	
6. Yellow		x	0.001 1	
		y	0.001 0	
7. Green		x	0.001 4	
		y	0.001 3	
8. Cyan		x	0.001 9	
		y	0.002 2	
Included Reflectance Std. Light Source Type A (10°)				
1. White		X	0.63 %	
		Y	0.62 %	
		Z	0.66 %	
2. I,Gray		X	0.65 %	
		Y	0.64 %	
		Z	0.67 %	
3. M,Gray		X	0.72 %	
		Y	0.70 %	
		Z	0.69 %	
4. D,Gray		X	0.73 %	
		Y	0.71 %	
		Z	0.86 %	
5. Red		X	1.1 %	
		Y	0.99 %	
		Z	0.85 %	
6. Yellow		X	0.65 %	
		Y	0.65 %	
		Z	0.70 %	
7. Green		X	0.66 %	
		Y	0.66 %	
		Z	0.73 %	
8. Cyan		X	0.94 %	
		Y	1.1 %	
		Z	0.97 %	
1. White		x	0.001 3	
		y	0.001 1	
2. I,Gray		x	0.001 3	
		y	0.001 1	
3. M,Gray		x	0.001 4	
		y	0.001 1	
4. D,Gray		x	0.001 4	
		y	0.001 2	
5. Red		x	0.001 1	
		y	0.000 8	
6. Yellow		x	0.001 0	
		y	0.000 9	
7. Green		x	0.001 4	
		y	0.001 2	
8. Cyan		x	0.001 9	
		y	0.002 1	

703. Properties of materials

Measured Quantity Instrument or Gauge	Field Code	Range	CMC (The Confidence Level is about 95 %)	Comments
Colorimeters; material color	70301			Color Tile/
Included Reflectance Std. Light Source Type C (2°)				SICT-T100-70301
1. White		X	0.65 %	
		Y	0.63 %	
		Z	0.68 %	
2. I,Gray		X	0.64 %	
		Y	0.63 %	
		Z	0.69 %	
3. M,Gray		X	0.76 %	
		Y	0.73 %	
		Z	0.73 %	
4. D,Gray		X	0.72 %	
		Y	0.72 %	
		Z	0.81 %	
5. Red		X	1.1 %	
		Y	0.98 %	
		Z	0.80 %	
6. Yellow		X	0.67 %	
		Y	0.69 %	
		Z	0.87 %	
7. Green		X	0.66 %	
		Y	0.65 %	
		Z	0.77 %	
8. Cyan		X	0.97 %	
		Y	1.1 %	
		Z	0.99 %	
1. White		x	0.001 3	
		y	0.001 6	
2. I,Gray		x	0.001 3	
		y	0.001 6	
3. M,Gray		x	0.001 4	
		y	0.001 6	
4. D,Gray		x	0.001 5	
		y	0.001 7	
5. Red		x	0.001 9	
		y	0.001 2	
6. Yellow		x	0.001 3	
		y	0.001 2	
7. Green		x	0.001 3	
		y	0.001 7	
8. Cyan		x	0.001 2	
		y	0.002 3	

703. Properties of materials

Measured Quantity Instrument or Gauge	Field Code	Range	CMC (The Confidence Level is about 95 %)	Comments
Colorimeters; material color	70301			Color Tile/
Included Reflectance Std. Light Source Type C (10°)				SICT-T100-70301
1. White		X	0.63 %	
		Y	0.62 %	
		Z	0.66 %	
2. I,Gray		X	0.65 %	
		Y	0.65 %	
		Z	0.67 %	
3. M,Gray		X	0.70 %	
		Y	0.70 %	
		Z	0.69 %	
4. D,Gray		X	0.74 %	
		Y	0.71 %	
		Z	0.85 %	
5. Red		X	1.1 %	
		Y	0.95 %	
		Z	0.85 %	
6. Yellow		X	0.65 %	
		Y	0.65 %	
		Z	0.71 %	
7. Green		X	0.67 %	
		Y	0.67 %	
		Z	0.74 %	
8. Cyan		X	0.97 %	
		Y	1.1 %	
		Z	0.95 %	
1. White		x	0.001 4	
		y	0.001 5	
2. I,Gray		x	0.001 3	
		y	0.001 5	
3. M,Gray		x	0.001 4	
		y	0.001 6	
4. D,Gray		x	0.001 5	
		y	0.001 6	
5. Red		x	0.001 9	
		y	0.001 1	
6. Yellow		x	0.001 2	
		y	0.001 1	
7. Green		x	0.001 3	
		y	0.001 6	
8. Cyan		x	0.001 2	
		y	0.002 2	

703. Properties of materials

Measured Quantity Instrument or Gauge	Field Code	Range	CMC (The Confidence Level is about 95 %)	Comments
Colorimeters; material color	70301			Color Tile/
Included Reflectance Std. Light Source Type D65 (2°)				SICT-T100-70301
1. White		X	0.65 %	
		Y	0.63 %	
		Z	0.68 %	
2. I,Gray		X	0.64 %	
		Y	0.63 %	
		Z	0.69 %	
3. M,Gray		X	0.75 %	
		Y	0.73 %	
		Z	0.73 %	
4. D,Gray		X	0.72 %	
		Y	0.72 %	
		Z	0.81 %	
5. Red		X	1.1 %	
		Y	0.98 %	
		Z	0.80 %	
6. Yellow		X	0.67 %	
		Y	0.69 %	
		Z	0.87 %	
7. Green		X	0.66 %	
		Y	0.65 %	
		Z	0.76 %	
8. Cyan		X	0.97 %	
		Y	1.2 %	
		Z	0.99 %	
1. White		x	0.001 4	
		y	0.001 6	
2. I,Gray		x	0.001 4	
		y	0.001 6	
3. M,Gray		x	0.001 4	
		y	0.001 6	
4. D,Gray		x	0.001 5	
		y	0.001 7	
5. Red		x	0.001 9	
		y	0.001 2	
6. Yellow		x	0.001 3	
		y	0.001 2	
7. Green		x	0.001 3	
		y	0.001 7	
8. Cyan		x	0.002 3	
		y	0.002 4	

703. Properties of materials

Measured Quantity Instrument or Gauge	Field Code	Range	CMC (The Confidence Level is about 95 %)	Comments
Colorimeters; material color	70301			Color Tile/
Included Reflectance Std. Light Source Type D65 (10°)				SICT-T100-70301
1. White		X	0.63 %	
		Y	0.62 %	
		Z	0.66 %	
2. I,Gray		X	0.65 %	
		Y	0.64 %	
		Z	0.67 %	
3. M,Gray		X	0.70 %	
		Y	0.70 %	
		Z	0.69 %	
4. D,Gray		X	0.74 %	
		Y	0.71 %	
		Z	0.85 %	
5. Red		X	1.1 %	
		Y	0.95 %	
		Z	0.85 %	
6. Yellow		X	0.65 %	
		Y	0.65 %	
		Z	0.71 %	
7. Green		X	0.67 %	
		Y	0.67 %	
		Z	0.74 %	
8. Cyan		X	0.97 %	
		Y	1.1 %	
		Z	0.95 %	
1. White		x	0.001 4	
		y	0.001 5	
2. I,Gray		x	0.001 4	
		y	0.001 5	
3. M,Gray		x	0.001 4	
		y	0.001 6	
4. D,Gray		x	0.001 5	
		y	0.001 6	
5. Red		x	0.001 9	
		y	0.001 1	
6. Yellow		x	0.001 2	
		y	0.001 1	
7. Green		x	0.001 3	
		y	0.001 6	
8. Cyan		x	0.001 2	
		y	0.002 3	

703. Properties of materials

Measured Quantity Instrument or Gauge	Field Code	Range	CMC (The Confidence Level is about 95 %)	Comments
Colorimeters; material color	70301			Color Tile/
Exclude Reflectance Std. Light Source Type A (2°)				SICT-T100-70301
1. White		X	0.63 %	
		Y	0.62 %	
		Z	0.65 %	
2. I,Gray		X	0.66 %	
		Y	0.65 %	
		Z	0.67 %	
3. M,Gray		X	0.72 %	
		Y	0.72 %	
		Z	0.75 %	
4. D,Gray		X	0.75 %	
		Y	0.76 %	
		Z	0.92 %	
5. Red		X	1.2 %	
		Y	1.4 %	
		Z	1.7 %	
6. Yellow		X	0.67 %	
		Y	0.67 %	
		Z	0.72 %	
7. Green		X	0.65 %	
		Y	0.64 %	
		Z	0.81 %	
8. Cyan		X	0.90 %	
		Y	0.95 %	
		Z	0.82 %	
1. White		x	0.001 4	
		y	0.001 2	
2. I,Gray		x	0.001 4	
		y	0.001 2	
3. M,Gray		x	0.001 5	
		y	0.001 3	
4. D,Gray		x	0.001 5	
		y	0.001 3	
5. Red		x	0.000 9	
		y	0.000 8	
6. Yellow		x	0.001 1	
		y	0.001 0	
7. Green		x	0.001 4	
		y	0.001 4	
8. Cyan		x	0.001 7	
		y	0.002 2	

703. Properties of materials

Measured Quantity Instrument or Gauge	Field Code	Range	CMC (The Confidence Level is about 95 %)	Comments
Colorimeters; material color	70301			Color Tile/
Exclude Reflectance Std. Light Source Type A (10°)				SICT-T100-70301
1. White		X	0.63 %	
		Y	0.62 %	
		Z	0.66 %	
2. I,Gray		X	0.64 %	
		Y	0.64 %	
		Z	0.67 %	
3. M,Gray		X	0.72 %	
		Y	0.71 %	
		Z	0.77 %	
4. D,Gray		X	0.76 %	
		Y	0.76 %	
		Z	0.95 %	
5. Red		X	1.2 %	
		Y	1.4 %	
		Z	1.8 %	
6. Yellow		X	0.67 %	
		Y	0.67 %	
		Z	0.74 %	
7. Green		X	0.65 %	
		Y	0.63 %	
		Z	0.83 %	
8. Cyan		X	0.90 %	
		Y	0.95 %	
		Z	0.82 %	
1. White		x	0.001 3	
		y	0.001 1	
2. I,Gray		x	0.001 3	
		y	0.001 1	
3. M,Gray		x	0.001 4	
		y	0.001 2	
4. D,Gray		x	0.001 4	
		y	0.001 2	
5. Red		x	0.000 9	
		y	0.000 7	
6. Yellow		x	0.001 0	
		y	0.000 9	
7. Green		x	0.001 4	
		y	0.001 3	
8. Cyan		x	0.001 7	
		y	0.002 1	

703. Properties of materials

Measured Quantity Instrument or Gauge	Field Code	Range	CMC (The Confidence Level is about 95 %)	Comments
Colorimeters; material color	70301			Color Tile/
Exclude Reflectance Std. Light Source Type C (2°)				SICT-T100-70301
1. White		X	0.63 %	
		Y	0.62 %	
		Z	0.66 %	
2. I,Gray		X	0.66 %	
		Y	0.65 %	
		Z	0.67 %	
3. M,Gray		X	0.73 %	
		Y	0.72 %	
		Z	0.76 %	
4. D,Gray		X	0.75 %	
		Y	0.76 %	
		Z	0.90 %	
5. Red		X	1.3 %	
		Y	1.4 %	
		Z	1.7 %	
6. Yellow		X	0.67 %	
		Y	0.67 %	
		Z	0.72 %	
7. Green		X	0.65 %	
		Y	0.63 %	
		Z	0.85 %	
8. Cyan		X	0.87 %	
		Y	0.95 %	
		Z	0.81 %	
1. White		x	0.001 3	
		y	0.001 6	
2. I,Gray		x	0.001 3	
		y	0.001 6	
3. M,Gray		x	0.001 4	
		y	0.001 7	
4. D,Gray		x	0.001 6	
		y	0.001 7	
5. Red		x	0.001 7	
		y	0.001 3	
6. Yellow		x	0.001 3	
		y	0.001 2	
7. Green		x	0.001 3	
		y	0.001 9	
8. Cyan		x	0.001 0	
		y	0.002 2	

703. Properties of materials

Measured Quantity Instrument or Gauge	Field Code	Range	CMC (The Confidence Level is about 95 %)	Comments
Colorimeters; material color	70301			Color Tile/
Exclude Reflectance Std. Light Source Type C (10°)				SICT-T100-70301
1. White		X	0.63 %	
		Y	0.62 %	
		Z	0.66 %	
2. I,Gray		X	0.65 %	
		Y	0.64 %	
		Z	0.67 %	
3. M,Gray		X	0.73 %	
		Y	0.71 %	
		Z	0.77 %	
4. D,Gray		X	0.75 %	
		Y	0.76 %	
		Z	0.94 %	
5. Red		X	1.3 %	
		Y	1.4 %	
		Z	1.8 %	
6. Yellow		X	0.67 %	
		Y	0.67 %	
		Z	0.73 %	
7. Green		X	0.65 %	
		Y	0.64 %	
		Z	0.86 %	
8. Cyan		X	0.87 %	
		Y	0.94 %	
		Z	0.81 %	
1. White		x	0.001 4	
		y	0.001 5	
2. I,Gray		x	0.001 4	
		y	0.001 5	
3. M,Gray		x	0.001 4	
		y	0.001 6	
4. D,Gray		x	0.001 6	
		y	0.001 7	
5. Red		x	0.001 7	
		y	0.001 2	
6. Yellow		x	0.001 2	
		y	0.001 1	
7. Green		x	0.001 3	
		y	0.001 8	
8. Cyan		x	0.001 0	
		y	0.002 1	

703. Properties of materials

Measured Quantity Instrument or Gauge	Field Code	Range	CMC (The Confidence Level is about 95 %)	Comments
Colorimeters; material color	70301			Color Tile/
Exclude Reflectance Std. Light Source Type D65 (2°)				SICT-T100-70301
1. White		X	0.63 %	
		Y	0.62 %	
		Z	0.66 %	
2. I,Gray		X	0.66 %	
		Y	0.65 %	
		Z	0.67 %	
3. M,Gray		X	0.73 %	
		Y	0.73 %	
		Z	0.76 %	
4. D,Gray		X	0.75 %	
		Y	0.76 %	
		Z	0.89 %	
5. Red		X	1.3 %	
		Y	1.4 %	
		Z	1.6 %	
6. Yellow		X	0.67 %	
		Y	0.67 %	
		Z	0.72 %	
7. Green		X	0.65 %	
		Y	0.63 %	
		Z	0.84 %	
8. Cyan		X	0.87 %	
		Y	0.96 %	
		Z	0.82 %	
1. White		x	0.001 4	
		y	0.001 6	
2. I,Gray		x	0.001 4	
		y	0.001 6	
3. M,Gray		x	0.001 4	
		y	0.001 7	
4. D,Gray		x	0.001 5	
		y	0.001 7	
5. Red		x	0.001 7	
		y	0.001 3	
6. Yellow		x	0.001 3	
		y	0.001 2	
7. Green		x	0.001 3	
		y	0.001 9	
8. Cyan		x	0.001 0	
		y	0.002 2	

703. Properties of materials

Measured Quantity Instrument or Gauge	Field Code	Range	CMC (The Confidence Level is about 95 %)	Comments
Colorimeters; material color	70301			Color Tile/
Exclude Reflectance Std. Light Source Type D65 (10°)				SICT-T100-70301
1. White		X	0.63 %	
		Y	0.62 %	
		Z	0.66 %	
2. I,Gray		X	0.65 %	
		Y	0.64 %	
		Z	0.67 %	
3. M,Gray		X	0.73 %	
		Y	0.71 %	
		Z	0.77 %	
4. D,Gray		X	0.75 %	
		Y	0.76 %	
		Z	0.93 %	
5. Red		X	1.3 %	
		Y	1.4 %	
		Z	1.8 %	
6. Yellow		X	0.67 %	
		Y	0.67 %	
		Z	0.73 %	
7. Green		X	0.65 %	
		Y	0.63 %	
		Z	0.86 %	
8. Cyan		X	0.87 %	
		Y	0.94 %	
		Z	0.81 %	
1. White		x	0.001 4	
		y	0.001 5	
2. I,Gray		x	0.001 4	
		y	0.001 5	
3. M,Gray		x	0.001 5	
		y	0.001 6	
4. D,Gray		x	0.001 6	
		y	0.001 7	
5. Red		x	0.001 7	
		y	0.001 1	
6. Yellow		x	0.001 2	
		y	0.001 1	
7. Green		x	0.001 3	
		y	0.001 8	
8. Cyan		x	0.001 1	
		y	0.002 2	

703. Properties of materials

Measured Quantity Instrument or Gauge	Field Code	Range	CMC (The Confidence Level is about 95 %)	Comments
Color standard tiles	70304			Spectrophotometer/
Included Reflectance Std. Light Source Type A (2°)				SICT-T100-70304
1. White		X	0.67 %	
		Y	0.65 %	
		Z	0.70 %	
2. I,Gray		X	0.66 %	
		Y	0.65 %	
		Z	0.71 %	
3. M,Gray		X	0.87 %	
		Y	0.84 %	
		Z	0.79 %	
4. D,Gray		X	0.72 %	
		Y	0.75 %	
		Z	0.91 %	
5. Red		X	1.3 %	
		Y	1.3 %	
		Z	0.91 %	
6. Yellow		X	0.69 %	
		Y	0.73 %	
		Z	1.1 %	
7. Green		X	0.67 %	
		Y	0.66 %	
		Z	0.84 %	
8. Cyan		X	1.1 %	
		Y	1.3 %	
		Z	1.2 %	
1. White		x	0.001 5	
		y	0.001 3	
2. I,Gray		x	0.001 5	
		y	0.001 3	
3. M,Gray		x	0.001 5	
		y	0.001 3	
4. D,Gray		x	0.001 6	
		y	0.001 4	
5. Red		x	0.001 3	
		y	0.001 0	
6. Yellow		x	0.001 2	
		y	0.001 1	
7. Green		x	0.001 5	
		y	0.001 4	
8. Cyan		x	0.002 0	
		y	0.002 3	

703. Properties of materials

Measured Quantity Instrument or Gauge	Field Code	Range	CMC (The Confidence Level is about 95 %)	Comments
Color standard tiles	70304			Spectrophotometer/
Included Reflectance Std. Light Source Type A (10°)				SICT-T100-70304
1. White		X	0.64 %	
		Y	0.63 %	
		Z	0.67 %	
2. I,Gray		X	0.68 %	
		Y	0.67 %	
		Z	0.69 %	
3. M,Gray		X	0.79 %	
		Y	0.76 %	
		Z	0.71 %	
4. D,Gray		X	0.78 %	
		Y	0.75 %	
		Z	0.99 %	
5. Red		X	1.3 %	
		Y	1.1 %	
		Z	0.98 %	
6. Yellow		X	0.67 %	
		Y	0.67 %	
		Z	0.74 %	
7. Green		X	0.67 %	
		Y	0.68 %	
		Z	0.80 %	
8. Cyan		X	1.1 %	
		Y	1.3 %	
		Z	1.1 %	
1. White		x	0.001 4	
		y	0.001 2	
2. I,Gray		x	0.001 4	
		y	0.001 2	
3. M,Gray		x	0.001 5	
		y	0.001 2	
4. D,Gray		x	0.001 5	
		y	0.001 3	
5. Red		x	0.001 2	
		y	0.000 9	
6. Yellow		x	0.001 1	
		y	0.001 0	
7. Green		x	0.001 5	
		y	0.001 3	
8. Cyan		x	0.002 0	
		y	0.002 2	

703. Properties of materials

Measured Quantity Instrument or Gauge	Field Code	Range	CMC (The Confidence Level is about 95 %)	Comments
Color standard tiles	70304			Spectrophotometer/
Included Reflectance Std. Light Source Type C (2°)				SICT-T100-70304
1. White		X	0.67 %	
		Y	0.65 %	
		Z	0.71 %	
2. I,Gray		X	0.66 %	
		Y	0.65 %	
		Z	0.72 %	
3. M,Gray		X	0.85 %	
		Y	0.82 %	
		Z	0.78 %	
4. D,Gray		X	0.76 %	
		Y	0.76 %	
		Z	0.90 %	
5. Red		X	1.3 %	
		Y	1.1 %	
		Z	0.89 %	
6. Yellow		X	0.71 %	
		Y	0.74 %	
		Z	1.1 %	
7. Green		X	0.67 %	
		Y	0.66 %	
		Z	0.87 %	
8. Cyan		X	1.1 %	
		Y	1.3 %	
		Z	1.2 %	
1. White		x	0.001 4	
		y	0.001 7	
2. I,Gray		x	0.001 4	
		y	0.001 7	
3. M,Gray		x	0.001 5	
		y	0.001 7	
4. D,Gray		x	0.001 6	
		y	0.001 8	
5. Red		x	0.002 0	
		y	0.001 3	
6. Yellow		x	0.001 4	
		y	0.001 3	
7. Green		x	0.001 4	
		y	0.001 8	
8. Cyan		x	0.001 3	
		y	0.002 4	

703. Properties of materials

Measured Quantity Instrument or Gauge	Field Code	Range	CMC (The Confidence Level is about 95 %)	Comments
Color standard tiles	70304			Spectrophotometer/
Included Reflectance Std. Light Source Type C (10°)				SICT-T100-70304
1. White		X	0.64 %	
		Y	0.63 %	
		Z	0.67 %	
2. I,Gray		X	0.68 %	
		Y	0.68 %	
		Z	0.69 %	
3. M,Gray		X	0.75 %	
		Y	0.76 %	
		Z	0.71 %	
4. D,Gray		X	0.79 %	
		Y	0.74 %	
		Z	0.97 %	
5. Red		X	1.3 %	
		Y	1.1 %	
		Z	0.98 %	
6. Yellow		X	0.67 %	
		Y	0.67 %	
		Z	0.76 %	
7. Green		X	0.69 %	
		Y	0.70 %	
		Z	0.81 %	
8. Cyan		X	1.1 %	
		Y	1.3 %	
		Z	1.1 %	
1. White		x	0.001 5	
		y	0.001 6	
2. I,Gray		x	0.001 4	
		y	0.001 6	
3. M,Gray		x	0.001 5	
		y	0.001 7	
4. D,Gray		x	0.001 6	
		y	0.001 7	
5. Red		x	0.002 0	
		y	0.001 2	
6. Yellow		x	0.001 3	
		y	0.001 2	
7. Green		x	0.001 4	
		y	0.001 7	
8. Cyan		x	0.001 3	
		y	0.002 3	

703. Properties of materials

Measured Quantity Instrument or Gauge	Field Code	Range	CMC (The Confidence Level is about 95 %)	Comments
Color standard tiles	70304			Spectrophotometer/
Included Reflectance Std. Light Source Type D65 (2°)				SICT-T100-70304
1. White		X	0.67 %	
		Y	0.65 %	
		Z	0.71 %	
2. I,Gray		X	0.66 %	
		Y	0.65 %	
		Z	0.72 %	
3. M,Gray		X	0.84 %	
		Y	0.82 %	
		Z	0.78 %	
4. D,Gray		X	0.76 %	
		Y	0.76 %	
		Z	0.90 %	
5. Red		X	1.3 %	
		Y	1.1 %	
		Z	0.89 %	
6. Yellow		X	0.71 %	
		Y	0.74 %	
		Z	1.1 %	
7. Green		X	0.67 %	
		Y	0.66 %	
		Z	0.86 %	
8. Cyan		X	1.1 %	
		Y	1.4 %	
		Z	1.2 %	
1. White		x	0.001 5	
		y	0.001 7	
2. I,Gray		x	0.001 5	
		y	0.001 7	
3. M,Gray		x	0.001 5	
		y	0.001 7	
4. D,Gray		x	0.001 6	
		y	0.001 8	
5. Red		x	0.002 0	
		y	0.001 3	
6. Yellow		x	0.001 4	
		y	0.001 3	
7. Green		x	0.001 4	
		y	0.001 8	
8. Cyan		x	0.003 1	
		y	0.002 5	

703. Properties of materials

Measured Quantity Instrument or Gauge	Field Code	Range	CMC (The Confidence Level is about 95 %)	Comments
Color standard tiles	70304			Spectrophotometer/
Included Reflectance Std. Light Source Type D65 (10°)				SICT-T100-70304
1. White		X	0.64 %	
		Y	0.63 %	
		Z	0.67 %	
2. I,Gray		X	0.68 %	
		Y	0.67 %	
		Z	0.69 %	
3. M,Gray		X	0.76 %	
		Y	0.76 %	
		Z	0.71 %	
4. D,Gray		X	0.79 %	
		Y	0.74 %	
		Z	0.97 %	
5. Red		X	1.3 %	
		Y	1.1 %	
		Z	0.97 %	
6. Yellow		X	0.67 %	
		Y	0.67 %	
		Z	0.76 %	
7. Green		X	0.69 %	
		Y	0.70 %	
		Z	0.81 %	
8. Cyan		X	1.1 %	
		Y	1.3 %	
		Z	1.1 %	
1. White		x	0.001 5	
		y	0.001 6	
2. I,Gray		x	0.001 5	
		y	0.001 6	
3. M,Gray		x	0.001 5	
		y	0.001 7	
4. D,Gray		x	0.001 6	
		y	0.001 7	
5. Red		x	0.002 0	
		y	0.001 2	
6. Yellow		x	0.001 3	
		y	0.001 2	
7. Green		x	0.001 4	
		y	0.001 7	
8. Cyan		x	0.001 3	
		y	0.002 4	

703. Properties of materials

Measured Quantity Instrument or Gauge	Field Code	Range	CMC (The Confidence Level is about 95 %)	Comments
Color standard tiles	70304			Spectrophotometer/
Exclude Reflectance Std. Light Source Type A (2°)				SICT-T100-70304
1. White		X	0.64 %	
		Y	0.63 %	
		Z	0.66 %	
2. I,Gray		X	0.68 %	
		Y	0.68 %	
		Z	0.69 %	
3. M,Gray		X	0.76 %	
		Y	0.78 %	
		Z	0.81 %	
4. D,Gray		X	0.81 %	
		Y	0.85 %	
		Z	1.2 %	
5. Red		X	1.4 %	
		Y	1.6 %	
		Z	2.1 %	
6. Yellow		X	0.69 %	
		Y	0.69 %	
		Z	0.76 %	
7. Green		X	0.67 %	
		Y	0.66 %	
		Z	0.90 %	
8. Cyan		X	0.95 %	
		Y	1.1 %	
		Z	0.85 %	
1. White		x	0.001 5	
		y	0.001 3	
2. I,Gray		x	0.001 5	
		y	0.001 3	
3. M,Gray		x	0.001 6	
		y	0.001 4	
4. D,Gray		x	0.001 6	
		y	0.001 4	
5. Red		x	0.001 0	
		y	0.000 9	
6. Yellow		x	0.001 2	
		y	0.001 1	
7. Green		x	0.001 5	
		y	0.001 5	
8. Cyan		x	0.001 8	
		y	0.002 3	

703. Properties of materials

Measured Quantity Instrument or Gauge	Field Code	Range	CMC (The Confidence Level is about 95 %)	Comments
Color standard tiles	70304			Spectrophotometer/
Exclude Reflectance Std. Light Source Type A (10°)				SICT-T100-70304
1. White		X	0.64 %	
		Y	0.63 %	
		Z	0.67 %	
2. I,Gray		X	0.66 %	
		Y	0.66 %	
		Z	0.69 %	
3. M,Gray		X	0.77 %	
		Y	0.75 %	
		Z	0.83 %	
4. D,Gray		X	0.83 %	
		Y	0.84 %	
		Z	1.2 %	
5. Red		X	1.4 %	
		Y	1.6 %	
		Z	2.2 %	
6. Yellow		X	0.69 %	
		Y	0.69 %	
		Z	0.79 %	
7. Green		X	0.67 %	
		Y	0.64 %	
		Z	0.93 %	
8. Cyan		X	0.95 %	
		Y	1.1 %	
		Z	0.85 %	
1. White		x	0.001 4	
		y	0.001 2	
2. I,Gray		x	0.001 4	
		y	0.001 2	
3. M,Gray		x	0.001 5	
		y	0.001 3	
4. D,Gray		x	0.001 5	
		y	0.001 3	
5. Red		x	0.001 0	
		y	0.000 8	
6. Yellow		x	0.001 1	
		y	0.001 0	
7. Green		x	0.001 5	
		y	0.001 4	
8. Cyan		x	0.001 8	
		y	0.002 2	

703. Properties of materials

Measured Quantity Instrument or Gauge	Field Code	Range	CMC (The Confidence Level is about 95 %)	Comments
Color standard tiles	70304			Spectrophotometer/
Exclude Reflectance Std. Light Source Type C (2°)				SICT-T100-70304
1. White		X	0.64 %	
		Y	0.63 %	
		Z	0.67 %	
2. I,Gray		X	0.68 %	
		Y	0.68 %	
		Z	0.69 %	
3. M,Gray		X	0.77 %	
		Y	0.78 %	
		Z	0.82 %	
4. D,Gray		X	0.81 %	
		Y	0.85 %	
		Z	1.1 %	
5. Red		X	1.5 %	
		Y	1.6 %	
		Z	2.1 %	
6. Yellow		X	0.69 %	
		Y	0.69 %	
		Z	0.76 %	
7. Green		X	0.66 %	
		Y	0.64 %	
		Z	0.96 %	
8. Cyan		X	0.91 %	
		Y	1.1 %	
		Z	0.84 %	
1. White		x	0.001 4	
		y	0.001 7	
2. I,Gray		x	0.001 4	
		y	0.001 7	
3. M,Gray		x	0.001 5	
		y	0.001 8	
4. D,Gray		x	0.001 7	
		y	0.001 8	
5. Red		x	0.001 8	
		y	0.001 4	
6. Yellow		x	0.001 4	
		y	0.001 3	
7. Green		x	0.001 4	
		y	0.002 1	
8. Cyan		x	0.001 1	
		y	0.002 3	

703. Properties of materials

Measured Quantity Instrument or Gauge	Field Code	Range	CMC (The Confidence Level is about 95 %)	Comments
Color standard tiles	70304			Spectrophotometer/
Exclude Reflectance Std. Light Source Type C (10°)				SICT-T100-70304
1. White		X	0.64 %	
		Y	0.63 %	
		Z	0.67 %	
2. I,Gray		X	0.67 %	
		Y	0.66 %	
		Z	0.69 %	
3. M,Gray		X	0.78 %	
		Y	0.75 %	
		Z	0.83 %	
4. D,Gray		X	0.81 %	
		Y	0.84 %	
		Z	1.2 %	
5. Red		X	1.5 %	
		Y	1.6 %	
		Z	2.2 %	
6. Yellow		X	0.69 %	
		Y	0.69 %	
		Z	0.77 %	
7. Green		X	0.66 %	
		Y	0.65 %	
		Z	0.98 %	
8. Cyan		X	0.91 %	
		Y	1.0 %	
		Z	0.84 %	
1. White		x	0.001 5	
		y	0.001 6	
2. I,Gray		x	0.001 5	
		y	0.001 6	
3. M,Gray		x	0.001 5	
		y	0.001 7	
4. D,Gray		x	0.001 7	
		y	0.001 8	
5. Red		x	0.001 8	
		y	0.001 3	
6. Yellow		x	0.001 3	
		y	0.001 2	
7. Green		x	0.001 4	
		y	0.002 0	
8. Cyan		x	0.001 1	
		y	0.002 2	

703. Properties of materials

Measured Quantity Instrument or Gauge	Field Code	Range	CMC (The Confidence Level is about 95 %)	Comments
Color standard tiles	70304			Spectrophotometer/
Exclude Reflectance Std. Light Source Type D65 (2°)				SICT-T100-70304
1. White		X	0.64 %	
		Y	0.63 %	
		Z	0.67 %	
2. I,Gray		X	0.68 %	
		Y	0.68 %	
		Z	0.69 %	
3. M,Gray		X	0.77 %	
		Y	0.79 %	
		Z	0.82 %	
4. D,Gray		X	0.81 %	
		Y	0.85 %	
		Z	1.1 %	
5. Red		X	1.5 %	
		Y	1.6 %	
		Z	2.0 %	
6. Yellow		X	0.69 %	
		Y	0.69 %	
		Z	0.76 %	
7. Green		X	0.66 %	
		Y	0.64 %	
		Z	0.95 %	
8. Cyan		X	0.91 %	
		Y	1.1 %	
		Z	0.85 %	
1. White		x	0.001 5	
		y	0.001 7	
2. I,Gray		x	0.001 5	
		y	0.001 7	
3. M,Gray		x	0.001 5	
		y	0.001 8	
4. D,Gray		x	0.001 6	
		y	0.001 8	
5. Red		x	0.001 8	
		y	0.001 4	
6. Yellow		x	0.001 4	
		y	0.001 3	
7. Green		x	0.001 4	
		y	0.002 1	
8. Cyan		x	0.001 1	
		y	0.002 3	

703. Properties of materials

Measured Quantity Instrument or Gauge	Field Code	Range	CMC (The Confidence Level is about 95 %)	Comments
Color standard tiles	70304			Spectrophotometer/
Exclude Reflectance Std. Light Source Type D65 (10°)				SICT-T100-70304
1. White		X	0.64 %	
		Y	0.63 %	
		Z	0.67 %	
2. I,Gray		X	0.67 %	
		Y	0.66 %	
		Z	0.69 %	
3. M,Gray		X	0.78 %	
		Y	0.75 %	
		Z	0.83 %	
4. D,Gray		X	0.81 %	
		Y	0.84 %	
		Z	1.2 %	
5. Red		X	1.5 %	
		Y	1.6 %	
		Z	2.2 %	
6. Yellow		X	0.69 %	
		Y	0.69 %	
		Z	0.77 %	
7. Green		X	0.66 %	
		Y	0.64 %	
		Z	0.97 %	
8. Cyan		X	0.91 %	
		Y	1.0 %	
		Z	0.84 %	
1. White		x	0.001 5	
		y	0.001 6	
2. I,Gray		x	0.001 5	
		y	0.001 6	
3. M,Gray		x	0.001 6	
		y	0.001 7	
4. D,Gray		x	0.001 7	
		y	0.001 8	
5. Red		x	0.001 8	
		y	0.001 2	
6. Yellow		x	0.001 3	
		y	0.001 2	
7. Green		x	0.001 4	
		y	0.002 0	
8. Cyan		x	0.001 2	
		y	0.002 3	

703. Properties of materials

Measured Quantity Instrument or Gauge	Field Code	Range	CMC (The Confidence Level is about 95 %)	Comments
Color standard tiles	70304			Spectrophotometer/
Spectral reflectance test		380 nm	1.2 %	SICT-T100-70304
(Included Reflectance Std)		390 nm	0.93 %	
		400 nm	0.72 %	
		410 nm	0.61 %	
		420 nm	0.58 %	
		430 nm	0.54 %	
		440 nm	0.54 %	
		450 nm	0.56 %	
		460 nm	0.56 %	
		470 nm	0.56 %	
		480 nm	0.53 %	
		490 nm	0.55 %	
		500 nm	0.52 %	
		510 nm	0.52 %	
		520 nm	0.51 %	
		530 nm	0.49 %	
		540 nm	0.50 %	
		550 nm	0.50 %	
		560 nm	0.50 %	
		570 nm	0.50 %	
		580 nm	0.52 %	
		590 nm	0.50 %	
		600 nm	0.51 %	
		610 nm	0.51 %	
		620 nm	0.50 %	
		630 nm	0.50 %	
		640 nm	0.52 %	
		650 nm	0.50 %	
		660 nm	0.49 %	
		670 nm	0.52 %	
		680 nm	0.53 %	
		690 nm	0.51 %	
		700 nm	0.50 %	
		710 nm	0.54 %	
		720 nm	0.49 %	
		730 nm	0.52 %	
		740 nm	0.51 %	
		750 nm	0.56 %	
		760 nm	0.56 %	
		770 nm	0.53 %	
		780 nm	0.52 %	

703. Properties of materials

Measured Quantity Instrument or Gauge	Field Code	Range	CMC (The Confidence Level is about 95 %)	Comments
Color standard tiles	70304			Spectrophotometer/
Spectral reflectance test		380 nm	1.2 %	SICT-T100-70304
(Exclude Reflectance Std)		390 nm	0.94 %	
		400 nm	0.74 %	
		410 nm	0.63 %	
		420 nm	0.60 %	
		430 nm	0.57 %	
		440 nm	0.57 %	
		450 nm	0.59 %	
		460 nm	0.59 %	
		470 nm	0.59 %	
		480 nm	0.56 %	
		490 nm	0.58 %	
		500 nm	0.55 %	
		510 nm	0.55 %	
		520 nm	0.54 %	
		530 nm	0.52 %	
		540 nm	0.53 %	
		550 nm	0.53 %	
		560 nm	0.53 %	
		570 nm	0.53 %	
		580 nm	0.55 %	
		590 nm	0.53 %	
		600 nm	0.54 %	
		610 nm	0.54 %	
		620 nm	0.53 %	
		630 nm	0.53 %	
		640 nm	0.55 %	
		650 nm	0.53 %	
		660 nm	0.52 %	
		670 nm	0.55 %	
		680 nm	0.56 %	
		690 nm	0.54 %	
		700 nm	0.53 %	
		710 nm	0.57 %	
		720 nm	0.51 %	
		730 nm	0.55 %	
		740 nm	0.54 %	
		750 nm	0.59 %	
		760 nm	0.59 %	
		770 nm	0.56 %	
		780 nm	0.55 %	
Gloss meters	70306			Gloss Standard/
Gloss		(20°)		SICT-T100-70306
		0 ~ 100	0.91 %	
		(60°)		
		0 ~ 100	0.79 %	
		(85°)		
		0 ~ 100	0.63 %	

703. Properties of materials

Measured Quantity Instrument or Gauge	Field Code	Range	CMC (The Confidence Level is about 95 %)	Comments
Gloss standard plates	70307			Gloss Meter/
Gloss		(20°)		SICT-T100-70307
		0 ~ 100	0.89 %	
		(60°)		
		0 ~ 100	0.77 %	
		(85°)		
		0 ~ 100	0.61 %	
Haze meters	70308			Haze CRM/
Haze				SICT-T100-70308
H-1		0.73	0.27	
H-5		4.62	0.27	
H-10		8.84	0.27	
H-20		18.3	0.3	
H-30		28.6	0.3	
Transmittance				
T-30		28.3	0.50	
T-50		51.6	0.50	
T-70		70.7	0.50	
T-90		91.5	0.50	
Optical densitymeters	70315			Density CRM/
Density				SICT-T100-70315
1 Step ~ 11 Step		0.34 ~ 2.84	0.03	
12 Step ~ 13 Step		2.95 ~ 3.25	0.06	
14 Step ~ 15 Step		3.30 ~ 3.78	0.11	
Reflectance meters	70319			Absolute Reflecttance/
Reflectance		380 nm	1.3 %	SICT-T100-70319
		390 nm	1.1 %	
		400 nm	0.86 %	
		410 nm	0.84 %	
		420 nm	0.65 %	
		430 nm	0.60 %	
		440 nm	0.68 %	
		450 nm	0.67 %	
		460 nm	0.73 %	
		470 nm	0.67 %	
		480 nm	0.60 %	
		490 nm	0.63 %	
		500 nm	0.57 %	
		510 nm	0.61 %	
		520 nm	0.60 %	
		530 nm	0.58 %	
		540 nm	0.61 %	
		550 nm	0.59 %	
		560 nm	0.56 %	
		570 nm	0.54 %	
		580 nm	0.58 %	
		590 nm	0.58 %	

703. Properties of materials

Measured Quantity Instrument or Gauge	Field Code	Range	CMC (The Confidence Level is about 95 %)	Comments
Reflectance meters	70319			Absolute Reflecttance/
Reflectance		600 nm	0.57 %	SICT-T100-70319
		610 nm	0.56 %	
		620 nm	0.55 %	
		630 nm	0.51 %	
		640 nm	0.57 %	
		650 nm	0.50 %	
		660 nm	0.52 %	
		670 nm	0.53 %	
		680 nm	0.53 %	
		690 nm	0.52 %	
		700 nm	0.55 %	
		710 nm	0.54 %	
		720 nm	0.48 %	
		730 nm	0.53 %	
		740 nm	0.52 %	
		750 nm	0.56 %	
		760 nm	0.62 %	
		770 nm	0.61 %	
		780 nm	0.56 %	
Transmittance meters	70323			Transmittance Filter/
		(0.1)		SICT-T100-70323
		250 nm	0.51 %	
		300 nm	0.49 %	
		350 nm	0.55 %	
		400 nm	0.57 %	
		450 nm	0.50 %	
		500 nm	0.61 %	
		550 nm	0.60 %	
		600 nm	0.51 %	
		650 nm	0.51 %	
		700 nm	0.54 %	
		750 nm	0.50 %	
		(0.5)		
		250 nm	0.34 %	
		300 nm	0.31 %	
		350 nm	0.21 %	
		400 nm	0.34 %	
		450 nm	0.38 %	
		500 nm	0.31 %	
		550 nm	0.31 %	
		600 nm	0.29 %	
		650 nm	0.26 %	
		700 nm	0.26 %	
		750 nm	0.29 %	
		(0.9)		
		250 nm	0.21 %	
		300 nm	0.22 %	
		350 nm	0.22 %	
		400 nm	0.22 %	
		450 nm	0.22 %	
		500 nm	0.22 %	
		550 nm	0.21 %	
		600 nm	0.21 %	
		650 nm	0.21 %	
		700 nm	0.21 %	
		750 nm	0.22 %	

703. Properties of materials

Measured Quantity Instrument or Gauge	Field Code	Range	CMC (The Confidence Level is about 95 %)	Comments
Spectrophotometers including FT-IR spectrophotometers	70325			Wavelength Filter/
Wavelength		(200 ~ 780) nm	0.21 nm	SICT-T100-70325
Transmittance		(0.1)		
		250 nm	0.42 %	
		300 nm	0.39 %	
		350 nm	0.43 %	
		400 nm	0.46 %	
		450 nm	0.41 %	
		500 nm	0.43 %	
		550 nm	0.44 %	
		600 nm	0.36 %	
		650 nm	0.34 %	
		700 nm	0.34 %	
		750 nm	0.34 %	
Transmittance		(0.5)		
		250 nm	0.21 %	
		300 nm	0.20 %	
		350 nm	0.20 %	
		400 nm	0.20 %	
		450 nm	0.21 %	
		500 nm	0.21 %	
		550 nm	0.21 %	
		600 nm	0.21 %	
		650 nm	0.20 %	
		700 nm	0.21 %	
		750 nm	0.22 %	
		(0.9)		
		250 nm	0.21 %	
		300 nm	0.22 %	
		350 nm	0.22 %	
		400 nm	0.22 %	
		450 nm	0.22 %	
		500 nm	0.22 %	
		550 nm	0.21 %	
		600 nm	0.21 %	
		650 nm	0.21 %	
		700 nm	0.21 %	
		750 nm	0.22 %	
Absorbance		(0.1)		
		250 nm	0.20 %	
		300 nm	0.20 %	
		350 nm	0.22 %	
		400 nm	0.21 %	
		450 nm	0.20 %	
		500 nm	0.19 %	
		550 nm	0.19 %	
		600 nm	0.15 %	
		650 nm	0.14 %	
		700 nm	0.14 %	
		750 nm	0.14 %	

703. Properties of materials

Measured Quantity Instrument or Gauge	Field Code	Range	CMC (The Confidence Level is about 95 %)	Comments
Spectrophotometers including FT-IR spectrophotometers	70325			Wavelength Filter/
Absorbance		(0.5)		SICT-T100-70325
		250 nm	0.31 %	
		300 nm	0.32 %	
		350 nm	0.32 %	
		400 nm	0.30 %	
		450 nm	0.29 %	
		500 nm	0.28 %	
		550 nm	0.28 %	
		600 nm	0.28 %	
		650 nm	0.28 %	
		700 nm	0.28 %	
		750 nm	0.28 %	
		(0.9)		
		250 nm	2.3 %	
		300 nm	2.5 %	
		350 nm	2.7 %	
		400 nm	2.8 %	
		450 nm	2.8 %	
		500 nm	2.9 %	
		550 nm	2.9 %	
		600 nm	2.9 %	
		650 nm	2.9 %	
		700 nm	3.0 %	
		750 nm	3.0 %	
Reflectance		380 nm	1.1 %	
		390 nm	0.91 %	
		400 nm	0.70 %	
		410 nm	0.59 %	
		420 nm	0.56 %	
		430 nm	0.52 %	
		440 nm	0.52 %	
		450 nm	0.54 %	
		460 nm	0.54 %	
		470 nm	0.54 %	
		480 nm	0.51 %	
		490 nm	0.53 %	
		500 nm	0.50 %	
		510 nm	0.50 %	
		520 nm	0.49 %	
		530 nm	0.47 %	
		540 nm	0.48 %	
		550 nm	0.48 %	
		560 nm	0.48 %	
		570 nm	0.48 %	
		580 nm	0.50 %	
		590 nm	0.48 %	
		600 nm	0.49 %	
		610 nm	0.49 %	
		620 nm	0.48 %	
		630 nm	0.48 %	
		640 nm	0.50 %	

703. Properties of materials

Measured Quantity Instrument or Gauge	Field Code	Range	CMC (The Confidence Level is about 95 %)	Comments
Spectrophotometers including FT-IR spectrophotometers	70325			Wavelength Filter/
Reflectance		650 nm	0.48 %	SICT-T100-70325
		660 nm	0.47 %	
		670 nm	0.50 %	
		680 nm	0.51 %	
		690 nm	0.49 %	
		700 nm	0.48 %	
		710 nm	0.52 %	
		720 nm	0.46 %	
		730 nm	0.50 %	
		740 nm	0.49 %	
		750 nm	0.54 %	
		760 nm	0.54 %	
		770 nm	0.51 %	
		780 nm	0.50 %	
파장번호		544.92 cm^{-1}	2.44 cm^{-1}	
		842.10 cm^{-1}	1.30 cm^{-1}	
		906.82 cm^{-1}	0.12 cm^{-1}	
		1 028.42 cm^{-1}	0.28 cm^{-1}	
		1 069.27 cm^{-1}	0.78 cm^{-1}	
		1 154.62 cm^{-1}	0.11 cm^{-1}	
		1 583.04 cm^{-1}	0.11 cm^{-1}	
		1 601.38 cm^{-1}	0.12 cm^{-1}	
		2 850.20 cm^{-1}	0.13 cm^{-1}	
		3 001.40 cm^{-1}	0.11 cm^{-1}	
		3 026.44 cm^{-1}	0.11 cm^{-1}	
		3 060.14 cm^{-1}	0.11 cm^{-1}	
		3 082.22 cm^{-1}	0.11 cm^{-1}	
Wavelength reference materials; absorption cell, bandpass filter, etc.	70326			투과율 필터/ SICT-T100-70326
파장		(200 ~780) nm	0.32 nm	
투과율		(0.1)		
		250 nm	0.61 %	
		300 nm	0.57 %	
		350 nm	0.60 %	
		400 nm	0.62 %	
		450 nm	0.55 %	
		500 nm	0.65 %	
		550 nm	0.64 %	
		600 nm	0.56 %	
		650 nm	0.57 %	
		700 nm	0.60 %	
		750 nm	0.57 %	
		(0.5)		
		250 nm	0.54 %	
		300 nm	0.53 %	
		350 nm	0.47 %	
		400 nm	0.49 %	
		450 nm	0.52 %	
		500 nm	0.46 %	
		550 nm	0.46 %	
		600 nm	0.46 %	
		650 nm	0.44 %	
		700 nm	0.42 %	
		750 nm	0.46 %	

703. Properties of materials

Measured Quantity Instrument or Gauge	Field Code	Range	CMC (The Confidence Level is about 95 %)	Comments
Wavelength reference materials; absorption cell, bandpass filter, etc.	70326			투과율 필터/ SICT-T100-70326
투과율		(0.9)		
		250 nm	0.30 %	
		300 nm	0.48 %	
		350 nm	0.47 %	
		400 nm	0.47 %	
		450 nm	0.41 %	
		500 nm	0.41 %	
		550 nm	0.41 %	
		600 nm	0.41 %	
		650 nm	0.42 %	
		700 nm	0.41 %	
		750 nm	0.42 %	
흡광도		(0.1)		
		250 nm	0.32 %	
		300 nm	0.31 %	
		350 nm	0.32 %	
		400 nm	0.29 %	
		450 nm	0.28 %	
		500 nm	0.28 %	
		550 nm	0.28 %	
		600 nm	0.28 %	
		650 nm	0.27 %	
		700 nm	0.27 %	
		750 nm	0.28 %	
		(0.5)		
		250 nm	0.67 %	
		300 nm	0.69 %	
		350 nm	0.76 %	
		400 nm	0.56 %	
		450 nm	0.55 %	
		500 nm	0.54 %	
		550 nm	0.53 %	
		600 nm	0.52 %	
		650 nm	0.52 %	
		700 nm	0.52 %	
		750 nm	0.51 %	
		(0.9)		
		250 nm	2.4 %	
		300 nm	2.7 %	
		350 nm	2.8 %	
		400 nm	2.4 %	
		450 nm	2.4 %	
		500 nm	2.5 %	
		550 nm	2.5 %	
		600 nm	2.5 %	
		650 nm	2.7 %	
		700 nm	2.5 %	
		750 nm	2.5 %	

703. Properties of materials

Measured Quantity Instrument or Gauge	Field Code	Range	CMC (The Confidence Level is about 95 %)	Comments
Wavelength reference materials; absorption cell, bandpass filter, etc.	70326			투과율 필터/ SICT-T100-70326
반사율		380 nm	1.3 %	
		390 nm	1.1 %	
		400 nm	0.92 %	
		410 nm	0.97 %	
		420 nm	0.84 %	
		430 nm	0.82 %	
		440 nm	0.88 %	
		450 nm	0.87 %	
		460 nm	0.91 %	
		470 nm	0.86 %	
		480 nm	0.82 %	
		490 nm	0.84 %	
		500 nm	0.82 %	
		510 nm	0.84 %	
		520 nm	0.84 %	
		530 nm	0.84 %	
		540 nm	0.84 %	
		550 nm	0.84 %	
		560 nm	0.82 %	
		570 nm	0.80 %	
		580 nm	0.82 %	
		590 nm	0.84 %	
		600 nm	0.82 %	
		610 nm	0.82 %	
		620 nm	0.80 %	
		630 nm	0.79 %	
		640 nm	0.82 %	
		650 nm	0.79 %	
		660 nm	0.80 %	
		670 nm	0.79 %	
		680 nm	0.79 %	
		690 nm	0.79 %	
		700 nm	0.80 %	
		710 nm	0.79 %	
		720 nm	0.79 %	
		730 nm	0.79 %	
		740 nm	0.79 %	
		750 nm	0.84 %	
		760 nm	0.84 %	
		770 nm	0.84 %	
		780 nm	0.82 %	

704. Fiber optics

Measured Quantity Instrument or Gauge	Field Code	Range	CMC (The Confidence Level is about 95 %)	Comments
Broadband light sources	70402			Wavelength meter,
Wavelength output		1 310 nm, 1 550 nm	9.4 pm	Optical powermeter/
				SICT-T100-70402
Optical power output		1 310 nm, 1 550 nm		
		0 dBm ~ -60 dBm	0.07 dB	
Optical attenuators	70410			Optical powermeter/
Optical Attenuation		1 310 nm, 1 550 nm		SICT-T100-70410
		0 dB ~ -60 dB	0.03 dB	
Optical multimeters	70415			Optical powermeter/
Absolute optical power measure		1 310 nm, 1 550 nm		SICT-T100-70415
		0 dBm ~ -60 dBm	0.07 dB	
Linearity measure		1 310 nm, 1 550 nm		
		0 dB ~ -60 dB	0.03 dB	
Optical spectrum analyzers	70417			Wavelength meter,
Wavelength measure		1 310 nm	0.024 nm	Optical powermeter/
		1 550 nm	0.024 nm	SICT-T100-70417
		Resolution:(0.1 ~ 1) nm		
Resolution measure		1 310 nm	0.024 nm	
		1 550 nm	0.024 nm	
Absolute optical power measure		1 310 nm, 1 550 nm		
		0 dBm ~ -60 dBm	0.07 dB	
Linearity measure		1 310 nm, 1 550 nm		
		0 dB ~ -60 dB	0.03 dB	
Optical time domain reflectometers, OTDR	70418			Fiber reference,
				Optical spectrum analyzer/
Wavelength output		1 310 nm, 1 550 nm	9.4 pm	SICT-T100-70418
Optical Length measure		1 310 nm		
		3.2 km Fiber	0.09 m	
		13.2 km Fiber	0.3 m	
		1 550 nm		
		3.2 km Fiber	0.09 m	
		13.2 km Fiber	0.2 m	
Optical Attenuation measure		1 310 nm, 1 550 nm		
		7.20 dB, 2.89 dB Fiber	0.04 dB	
ASE light sources	70430			Wavelength meter,
Wavelength output		1 310 nm, 1 550 nm	9.4 pm	Optical powermeter/
				SICT-T100-70430
Optical power output		1 310 nm, 1 550 nm		
		0 dBm ~ -60 dBm	0.07 dB	
Optical power stabilized lasers and LDs	70433			Wavelength meter,
Wavelength output		1 310 nm, 1 550 nm	1.0 pm	Optical powermeter/
				SICT-T100-70433
Optical power output		1 310 nm, 1 550 nm		
		0 dBm ~ -60 dBm	0.07 dB	

901. Chemical analysis

Measured Quantity Instrument or Gauge	Field Code	Range	CMC (The Confidence Level is about 95 %)	Comments
Gas analyzers	90103			Standard gas/
Oxygen		0 μmol/mol ~ 20 %(Molar fraction)	61 μmol/mol ~ 0.42 %(Molar fraction)	SICT-T100-90103
Carbon monoxide		0 μmol/mol ~ 843 μmol/mol	0.32 μmol/mol ~ 17 μmol/mol	
Carbon dioxide		0 μmol/mol ~ 4 383 μmol/mol	16 μmol/mol ~ 64 μmol/mol	