

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

Institute of Calibration Technology Co.,Ltd
 133 Yeongcheon-ro, Hwaseong-si, Gyeonggi-do, Korea
 Phone : 82-31-379-5114, Fax : 82-31-379-5115 e-mail : sictadmin@sict.co.kr

CALIBRATION

Valid To : Oct. 29. 2021

Accreditation No : KC01-018(1/152)

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

Field Code	Item of Calibration	On-Site	Field Code	Item of Calibration	On-Site	Field Code	Item of Calibration	On-Site
102. Linear dimension			10236	Coating thickness testers	Y	10515	Taper ring gauges	N
10201	Balls	N	10237	Torque arms	N	10517	Stylus type roughness testers	Y
10203	Electrical /Mechanical comparators	Y	103. Angle			10519	Roughness standard /comparison specimens	N
10206	Dial/cylinder gauge testers	N	10304	Bevel protractors	Y	10525	Thread plug gauges	N
10207	Doctor blades	N	10311	Plate/Square/Electriclevels	N		10526	Taper thread plug gauges
10208	Distance meters;electrooptic/laser/ultrasonic	N	10317	Sinebars,Plates,Tables, Centers	N	10527	Thread ring gauges	N
10209	End bars	N	10318	Squareness testers, Right angle testers	Y	10528	Taper threading gauges	N
10210	Extensometers, lineardisplacementtransducers	Y	10319	Cylindrical squares	N	10529	V-blocks,Boxblocks	N
10211	Filler gauges	Y	10320	Precisionsquares	N	106. Various dimensional		
10212	Film applicators	N	104. Form			10601	Inside/Outside/Gear tooth calipers,Calipergauges	Y
10213	Gapgauges	N	10401	Form testers	Y	10603	Cylinder/bore gauges	Y
10214	Gauge blocks, by comparison	N	10404	Optical flats	Y	10604	Depthgauges,Depthmicrometers	Y
10216	Height gauges/measuring machines	Y	10405	Optical parallels	N	10605	Dial/digital gauges	Y
10219	Linear scales	N	10406	Parallel blocks	Y	10608	Grind gauges	N
10220	Measuring machines, standard	Y	10407	Precision surface plates	Y	10609	Microindicators, Testindicators	Y
10221	Micro scales/Standard scales	N	10409	Roundness measurement instruments	Y	10610	Micrometer heads	Y
10223	Electronic micrometers	Y	10411	Roundness standard/ Roundness magnification standard specimens	N	10611	3-points, Micrometers	Y
10224	Heightmicrometers, Riserblocks	N	10412	Straight edges	Y	10612	Inside micrometers	Y
10225	Laser scan micrometers	Y	10413	Straight rules	N	10613	Outside micrometers	Y
10227	Standardtaperules, Peripheralgauges	N	10415	Test bars	N	10615	Particle counters	N
10228	Cylindricalplug/pingauges, Threadmeasuringwiregauges	Y	105. Complex geometry			10617	Standard sieves	N
10229	Radius gauges	N	10503	Contactcoordinatemeasuring machines	Y	10620	Welding gauges	Y
10230	Cylindrical ring gauges	N	10504	Non-contactcoordinate measuringmachines	Y	201. Mass		
10232	Step gauges	N	10505	Gauge block accessories	N	20102	Auto-hopper scale balances	Y
10233	Thickness gauges, taper	N	10511	Measuringmicroscopes, Profileprojectors	Y	20103	Auto-packer scale balances	Y
10234	Ultrasonic thickness gauges	Y	10512	Microscopes, micro measuring	Y	20106	Dial platform scale balances	Y
10235	Ultrasonic/coating thickness specimens	N	10514	Taper plug gauges	N	20109	Electric balances	Y
						20112	Platform scale balances	Y
						20113	Spring scale balances	Y
						20116	Weights	Y

Accreditation No : KC01-018(2/152)

Field Code	Item of Calibration	On-Site	Field Code	Item of Calibration	On-Site	Field Code	Item of Calibration	On-Site
202. Force			20908	Gas flowmeters;differential pressure	N	401. DC Voltage & current		
20202	Force measuring devices	N				40101	DC ammeters	Y
20203	Tension/compression testing machines	Y	20909	Liquid flowmeters;differential pressure	N	40102	Transconductance amplifiers	Y
20204	push-pull gauge	Y	20910	Liquid flowmeters; electromagnetic	N	40103	DC voltage/current calibrators	Y
203. Torque						40104	Electrical temperature calibrators	Y
20302	Torque measuring devices	Y	20911	Gas flowmeters;thermal mass, etc.	N	40105	DC current shunts	Y
20303	Torque wrenches/drivers	Y				40106	Galvanometers /null detectors	Y
204. Pressure			20912	Liquid flowmeters; Coriolis, etc.	N	40107	Potentiometers	Y
20401	Altimeters	Y	20914	Gas flowmeters;open channel, etc.	N	40108	DC power supplies	Y
20402	Manometers	Y				40110	DC voltage dividers	N
20405	Air data test systems	Y	20915	Liquid flowmeters; positive displacement	N	40111	DC voltage standards	N
20406	Absolute pressure gauges	Y				20916	Gas flowmeters;turbine	N
20407	Blood pressure gauges	Y	20917	Liquid flowmeters;turbine	N	40113	Static/Ionic voltmeters	N
20408	Compound pressure gauges	Y	20918	Gas flowmeters;ultrasonic	N	402. Resistance, Capacitance and Inductance		
20409	Differential pressure gauges	Y	20919	Liquid flowmeters;ultrasonic	N	40201	Capacitance bridges /indicators	Y
20411	Gauge pressure gauges	Y	20920	Gas flowmeters;variable area	N			
20412	Pressure transducers/transmitters	Y	20921	Liquid flowmeters;variable area	N	40202	Decade capacitors	Y
20413	Dial type vacuum gauges	Y	20922	Gas flowmeters;vortex	N	40204	Standard capacitors	Y
205. Vacuum			20923	Liquid flowmeters;vortex	N	40205	Earth testers	Y
20501	Capacitance diaphragm gauges	N	20925	Anemometers; vane, etc	N	40206	Inductance bridges /indicators	Y
20504	Thermal conductivity gauge; Pirani, thermocouple, convectron etc.	N				210. Hardness		
20505	Standard leaks, Helium leak detectors	Y	21001	Brinell hardness testers	Y	40208	Inductors	Y
			21002	Rockwell hardness testers	Y	40210	Insulation testers	Y
206. Volume			21003	Shore hardness testers	Y	40211	Q-meters	Y
20601	Volumetric glasswares	N	21004	Vickers hardness testers	Y	40213	Resistance bridges & similar instruments	Y
20602	Pycnometers	N	21005	Durometer hardness testers	N			
20605	Concrete air content meters	N	301. Time/frequency			40214	Resistance meters	Y
20606	Piston type volume meters	N	30102	Frequency standards	N	40215	Resistors	Y
207. Density			30103	General frequency sources	Y	40217	Impedance bridges/LCR meters	Y
20702	Liquid density meters	N	30104	Frequency meters/counters	Y	403. AC voltage, current & power		
20704	Salinity meters	N	30105	Time interval sources	Y	40301	AC ammeters	Y
20705	Sucrose meters	N	30106	Time interval meters /Stop watches/Timers	Y	40302	Clamp ammeters/voltmeters	Y
20707	Chloride meters	N				40303	AC voltage/current calibrators	Y
208. Viscosity			302. Velocity & revolution			40304	Wattmeter calibrators	N
20801	Kinematic viscometers; capillary, etc.	N	30201	Standard RPM generators	Y	40305	AC current shunts	Y
20802	Dynamic viscometers; rotaional, etc	Y	30202	Contact type tachometers	Y	40307	Voltage/current phase angle meters/synchro resolve meters	N
			30203	Photo tachometers /stroboscopes	Y			
209. Fluid flow			30204	Speed meters	Y	40308	Potential transformer test sets	Y
20901	Anemometers; hot-wire	N	30205	Wow-flutter generators	N			
20902	Anemometers; pitot tube, etc.	N	30206	Wow-flutter meters	Y			

Accreditation No : KC01-018(3/152)

Field Code	Item of Calibration	On-Site	Field Code	Item of Calibration	On-Site	Field Code	Item of Calibration	On-Site
40309	Potential transformer	N	40436	Logic analyzers	Y	40641	RF spectrum analyzers	Y
40310	Power factor meters	Y	40437	Telephone testers	Y	40643	Surge generators	Y
40311	AC power meters	Y	40438	Video signal analyzers	Y	40644	SWR meters	N
40312	AC power supplies	Y	405. Low frequency electric & magnetic fields			40645	RF terminations	Y
40313	Puncture/safety testers	Y				40646	Coaxial thermistor mounts	Y
40314	Power recorders	Y	40503	Flux meters	Y	40650	RF voltmeters	Y
40315	Current transformer test sets	Y	40504	Flux sources	N	40651	Vector voltmeters	Y
40316	Current transformer	N	40508	Magnetometers	Y	40652	Field strength meters	Y
40318	AC voltmeters	Y	40510	Reference/standard magnets	N	40653	AM/FM test sources	Y
40319	Watt hour meters	N	406. Radio frequency measurements			40654	Dip simulators	Y
40321	Ratio transformers	N	40601	RF amplifiers	Y	407. Field strength & antennas		
404. Other DC & LF Measurements			40602	Coaxial attenuators	Y	40704	Loop antennas	N
40401	LF amplifiers	Y	40605	Burst pulse generators	Y	40705	Monopole antennas	N
40402	DC/LF attenuators	Y	40606	Attenuator calibrators	N	501. Contact thermometry		
40403	Multimeter calibrators	N	40607	RF power meter calibrators	Y	50101	Temperature generators: ovens, furnaces, isothermal liquid baths, ice-point baths, dry-block calibrators	Y
40404	Oscilloscope calibrators	N	40608	EMC transducers ; current probes, absorbing absorbing clamps, etc.	Y			
40405	CD/DVD meters/analyzers	Y						
40406	Video signal generators	Y	40610	Coaxial directional couplers /splitters	Y	50102	Temperature indicators /recorders/controllers, temperature calibrators	Y
40407	Audio distortion analyzers /meters	Y	40613	Electrostatic discharge generators	Y	50103	Glass thermometers; liquid-in-glass, Beckmann	N
40408	LF filters	Y	40614	EMC receivers	Y	50104	Resistance thermometers; SPRT, IPRT, thermistors, etc.	Y
40409	LF/Audiosignal analyzers	Y	40615	RF filters	Y	50105	Thermal expansion thermometers ; bimetal, gas or liquid type	Y
40410	Line frequency meters	Y	40616	RF impedance meters	N			
40411	Function generators	Y	40617	RF impulse generators	Y	50106	Thermomecouples: noble metal, base metal, pure metal, special type, etc.	Y
40412	Genescopes	Y	40618	Line impedance stabilization networks ; LISN, CDN, ISN, etc.	Y			
40413	AC/DC high voltages volt meters	Y	40619	Coaxial standard mismatches	Y	50107	Temperature transducers	Y
40415	Jitter meters	Y	40621	Mobile communication test sets	Y	50108	Primary fixed-point cells and apparatus	N
40416	Leakage current testers	Y	40622	Modulation meters	Y	502. non contact thermometry		
40417	Electronic AC/DC loads	Y	40623	Network analyzers	Y	50203	Optical pyrometers	N
40418	Modulation meters	Y	40624	Noise figure meters	Y	50204	Standard radiation	N
40419	Analogue/Digital multimeters	Y	40625	Noise generators	N	50205	Thermal image apparatus	N
40420	Noise meters	Y	40626	Noise impulse simulators	Y	50206	Blackbody furnaces	Y
40421	Oscilloscopes	Y	40627	RF phase noise meters	N	50207	Others ; ear thermometers, etc.	N
40422	LF phase meters	Y	40628	Coaxial noise sources	N	503. Humidity		
40424	Volt/Current recorders	Y	40635	RF power meters	Y	50301	Dew-point hygrometers; chilled mirror, alumina thinfilm, etc.	N
40425	Relay test sets	Y	40636	Diode power sensors	Y			
40426	LF signal generators	Y	40637	Thermocouple power sensors	Y			
40427	LF spectrum analyzers	Y	40638	Pulse generators	Y			
40428	Spot generators	Y	40639	Radar test sets	Y			
40429	Sweep generators	Y	40640	RF signal generators	Y			
40430	Signal transducers	Y						
40432	Transistor curve tracers	Y						
40434	AC/DC high voltage generators	Y						
40435	AC/DC high voltage probes	Y						

Accreditation No : KC01-018(4/152)

Field Code	Item of Calibration	On-Site	Field Code	Item of Calibration	On-Site	Field Code	Item of Calibration	On-Site
50302	Relative humidity hygrometers polimer thinfilm, hair, etc.	Y	702. Properties of detectos & sources			70312	Lens testers	Y
			70315	Optical densitometers	Y			
50303	Psychrometers; assmann ventilated, PRT type, etc.	N	70202	Color temperature meters	Y	70319	Reflectance meters	Y
			70203	Color temperature standard lamps	N	70321	Refractometers	Y
						70323	Transmittance meters	Y
50304	Temperature humidity recorders ; Hygrothermograph, etc	N	70204	Colorimeters; source color	Y	70325	Spectrophotometers including FT-IR spectrophotometers	Y
			70207	Laser power meters	N			
			70208	Standard LED light sources	N			
50305	Transducers; dew-point /relative humidity	N	70209	Total luminous flux standard lamps	N	70326	Wavelength reference material absorption cell, bandpass filter, etc.	N
50306	Humidity generators; two-pressure, two-temperature, flow mixing humidity gererator, constant temperature and humidity chamber, etc.	Y	70210	Optical detectors	N			
			70211	Pyranometers and pyrhemometers	N	70402	Broadband light sources	Y
						70213	Display color analyzers; luminance, chromaticity, white balance, etc.	Y
70214	Luminous intensity standard lamps	N	70412	Fiber-optic power meters	Y			
			50401	Cereal moisture meters	Y	70215	Spectral irradiance standard lamps	N
50402	Wood moisture meters	N						
			50403	Paper moisture meters	N	70217	Luminance standard sources	N
601. Sound in air								
60102	Sound calibrator	N	70219	UV irradiance meters	N	70418	Optical time domain reflectometers, OTDR	Y
60104	Microphones	N				70220	Spectral irradiance meters	Y
60106	Sound level meters	Y	70221	Total spectral radiant flux meters	Y			
603. Vibration						70222	Spectral radiance meters	Y
60301	Vibration calibrators	N	701. Photometry					
60302	Vibration transducers	N	70101	Iluminance meters	N	90101	Breath alcohol analyzer	N
60303	Vibration measuring instruments	N	70102	Luminance meters	N	90102	Environmental air monitoring instruments	Y
701. Photometry			703. Properties of materials			90103	Gas analyzers	Y
70101	Iluminance meters	N	70301	Colorimeters; material color	Y	90104	Exhaust gas test inastruments	Y
70102	Luminance meters	N	70304	Color standard tiles	N			
70103	Total luminous flux meters	Y	70306	Gloss meters	Y			
70104	Luminous intensity meters	Y	70307	Gloss standard plates	Y			
			70308	Haze meters	Y			

Note

1. This laboratory provides calibration services in permanent standard laboratory and at on-site.
2. Laboratory conducts on-site calibration should meet requirements of KOLAS-SR-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 uncertainty at a coverage probability of 95 %, which usually requires the use of a coverage factor of $k=2$.
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	(0.3 ~ 100) mm	$\sqrt{0.38^2 + (0.0046 \times l_0)^2}$ μm	Mesuring Machine, Standard/ SICT-CP-10201
Electrical/Mechanical comparators	10203	(0 ~ 5) mm	0.14 μm	Gauge Block/ SICT-CP-10203
Dial/cylinder gauge testers	10206	(0 ~ 25) mm	$\sqrt{0.15^2 + (0.0028 \times l_0)^2}$ μm	Laser Measurement Machine/ SICT-CP-10206
Doctor Blades	10207	(0 ~ 10) mm	1.6 μm	Electronic Micrometer/ SICT-CP-10207
거리측정기; 전기식/레이저/초음파 측정기	10208	(0 ~ 10) m (10 ~ 40) m	$\sqrt{0.20^2 + (0.009 \times l_0)^2}$ mm $\sqrt{0.96^2 + (0.009 \times l_0)^2}$ mm	레이저 간섭계/ SICT-CP-10208
End bars	10209	(25 ~ 1 000) mm	$\sqrt{0.38^2 + (0.0029 \times l_0)^2}$ μm	Gauge Block/ SICT-CP-10209
Extensometers, lineardisplacementtransducers	10210	(0 ~ 500) mm (500 ~ 1 000) mm (1 000 ~ 10 000) mm	$\sqrt{0.20^2 + (0.0041 \times l_0)^2}$ μm $\sqrt{7.8^2 + (0.058 \times l_0)^2}$ μm $\sqrt{0.29^2 + (0.0028 \times l_0)^2}$ mm	Gauge Block, Laser Measurement Machine/ SICT-CP-10210
Filler gauges	10211	(0 ~ 10) mm	1.2 μm	Mesuring Machine, Standard/ SICT-CP-10211
Film Applicators	10212	(0 ~ 10) mm	1.6 μm	Electronic Micrometer/ SICT-CP-10212
Gap gauges	10213	(1 ~ 700) mm	$\sqrt{0.78^2 + (0.0048 \times l_0)^2}$ μm	Gauge Block, Coordinate Measur Machine/ SICT-CP-10213
Gauge blocks, by comparison	10214	(0.5 ~ 100) mm	$\sqrt{80^2 + (1.3 \times l_0)^2}$ nm	Gauge Block Comparator/ SICT-CP-10214
Height gauges/measuring machines	10216	(0 ~ 1 500) mm	$\sqrt{0.70^2 + (0.0035 \times l_0)^2}$ μm	Gauge Block, Step gauge/ SICT-CP-10216
	10219	(0 ~ 40) m	$\sqrt{0.03^2 + (0.0027 \times l_0)^2}$ mm	
Measuring machines, standard	10220	(0 ~ 500) mm	$\sqrt{0.38^2 + (0.002 \times l_0)^2}$ μm	Gauge Block/ SICT-CP-10220
Micro scales/Standard scales	10221	Micro scales (0 ~ 1) mm Standard scales (0 ~ 600) mm	0.39 μm $\sqrt{0.47^2 + (0.0021 \times l_0)^2}$ μm	Non-contact coordinate measuring machines, standard scale/ SICT-CP-10221
Electronic micrometers	10223	(0 ~ 5) mm	0.14 μm	Gage Block/ SICT-CP-10223
Height micrometers,Riser blocks	10224	Block (0 ~ 600) mm Head (0 ~ 25) mm	$\sqrt{0.72^2 + (0.0019 \times l_0)^2}$ μm 0.8 μm	Gauge Block Electronic Micrometer/ SICT-CP-10224
Laser scan micrometers	10225	(1 ~ 85) mm	$\sqrt{0.32^2 + (0.0027 \times l_0)^2}$ μm	Cylindrical plug/pin gauge/ SICT-CP-10225
Standard tape rules,Peripheral gauges	10227	(0 ~ 40) m (40 ~ 80) m (80 ~ 100) m	$\sqrt{0.14^2 + (0.0088 \times l_0)^2}$ mm $\sqrt{0.36^2 + (0.0088 \times l_0)^2}$ mm $\sqrt{0.66^2 + (0.0088 \times l_0)^2}$ mm	Laser Measurement Machine/ SICT-CP-10227
Cylindrical plug/pin gauges, Thread measuring wire gauges	10228	Cylindrical plug/pin gauges (0.01 ~ 200) mm Thread measuring wire gauges (0.1 ~ 10) mm	$\sqrt{0.28^2 + (0.002 \times l_0)^2}$ μm 0.41 μm	Mesuring Machine, Standard/ SICT-CP-10228
Radius gauges	10229	(0.1 ~ 500) mm	2.9 μm	non-contact coordinate measuring machines, standard scale/ SICT-CP-10229
Cylindrical ring gauges	10230	(1.0 ~ 200) mm	$\sqrt{0.66^2 + (0.0034 \times l_0)^2}$ μm	Mesuring Machine, Standard/ SICT-CP-10230

Note 1. l_0 unit : mm (10227 l_0 unit : m), 10210 (1000 ~ 10 000)Range : m

102. Linear dimension

Measured Quantity Instrument or Gauge	Field Code	Range	CMC (The Confidence Level is about 95 %)	Comments
Step gauges	10232	(0 ~ 1 500) mm	$\sqrt{0.80^2 + (0.0025 \times l_0)^2}$ μm	Gauge Block, Step gauge/ SICT-CP-10232
Taper thickness gauges	10233	(0 ~ 60) mm	4.3 μm	Profile Projector/ SICT-CP-10223
Ultrasonic thickness gauges	10234	(0 ~ 100) mm	3 μm	Ultrasonic Tester Blocks/ SICT-CP-10234
Ultrasonic/coating thickness specimens	10235	(0.01 ~ 2) mm	0.7 μm	Gauge Block, Mesuring Machine, Standard/ SICT-CP-10235
coating thickness specimens		(0.5 ~ 500) mm	$\sqrt{0.70^2 + (0.006 \times l_0)^2}$ μm	
Ultrasonic thickness specimens				
Coating thickness testers	10236	(0 ~ 2) mm	1.1 μm	Thickness specimens/ SICT-CP-10236
Torque arms	10237	(1 ~ 1 000) mm	$\sqrt{0.73^2 + (0.0061 \times l_0)^2}$ μm	Gauge Block, Coordinate Measur Machine/ SICT-CP-10237
Torque arms		(0 ~ 5) mm	1.2 μm	
Wires				

Note 1. l_0 unit : mm (10227 l_0 unit : m), 10210 (1000 ~ 10 000)Range : m

103. Angle

Measured Quantity Instrument or Gauge	Field Code	Range	CMC (The Confidence Level is about 95 %)	Comments
Bevel protractors Angle Accuracy Accessory Angle	10304	(0 ~ 360)° (0 ~ 90)°	0.9' 0.7'	Angle Gauge Block, Coordinate Measur Machine/ SICT-CP-10304
Plate/Square/Electric levels Angle Inclino meter Squareness	10311	(0 ~ 516)" (516 ~ 1 000)" (0 ~ 90)° (0 ~ 400) mm	0.4" 1.2" 0.07' 1.8 μm	Fine angle generators, Rotary tables/ SICT-CP-10311
Sinebars, Plates, Tables, Centers (Sinebars) distance, between two roller center parallelism, between two roller parallelism, between flat-two roller (Plates) Center length Flatness Parallelism	10317	(100 ~ 300) mm (100 ~ 300) mm (100 ~ 300) mm (100 ~ 300) mm (100 ~ 300) mm (100 ~ 300) mm	$\sqrt{0.38^2 + (0.0046 \times l_0)^2}$ μm $\sqrt{0.52^2 + (0.0059 \times l_0)^2}$ μm 0.7 μm $\sqrt{0.17^2 + (0.028 \times l_0)^2}$ μm 1.0 μm 1.2 μm	Mesuring Machine, Standard/ SICT-CP-10317
Squareness testers, Right angle testers	10318	(0 ~ 600) mm	2.3 μm	Cylindrical Square, Precision Square/ SICT-CP-10318
Cylindrical squares	10319	(0 ~ 300) mm (300 ~ 600) mm	1.6 μm 1.9 μm	Cylindrical Square/ SICT-CP-10319
Precision squares	10320	(0 ~ 600) mm	1.8 μm	Coordinate Measur Machine/ SICT-CP-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 Height length Width Angle Curvature	10401	(0 ~ 50) mm (0 ~ 50) mm 30° ~ 150° (5 ~ 25) mm	1.0 μm 1.4 μm 1.8" 0.9 μm	Form Standard Specimens Gage Block, Angle Gage Block/ SICT-CP-10401
Optical flats	10404	∅(0 ~ 60) mm ∅(60 ~ 100) mm	0.05 μm 0.09 μm	Optical Flat/ SICT-CP-10404
Optical parallels Flatness Parallelism	10405	∅(0 ~ 30) mm ∅(0 ~ 30) mm	0.05 μm 0.07 μm	Optical Flat,Gauge block comparator/ SICT-CP-10405
Parallel blocks Parallelism Flatness Length Difference	10406	(10 ~ 1 500) mm (10 ~ 1 500) mm (10 ~ 1 500) mm	2.2 μm 2.2 μm 2.2 μm	Electronic Micrometer/ SICT-CP-10406
Precision surface plates Flatness	10407	(0 ~ 15 000) cm ² (15 000 ~ 30 000) cm ² (30 000 ~ 100 000) cm ² (100 000 ~ 250 000) cm ²	1.7 μm 2.0 μm 4.2 μm 4.8 μm	Electronic Level/ SICT-CP-10407
Roundness measurement instruments Detector accuracy Rotational accuracy of spindle Rotational accuracy of axis	10409	(0 ~ 20) μm 360° 360°	0.50 μm 0.04 μm 0.04 μm	Roundness Standard Ball/ SICT-CP-10409
Roundness standard/Roundness magnification standard specimens Standard specimens Standard ball	10411	(0 ~ 300) μm 360°	0.60 μm 0.08 μm	Roundness Tester/ SICT-CP-10411
Straight edges	10412	(0 ~ 500) mm (500 ~ 1 000) mm (1 000 ~ 1 500) mm (1 500 ~ 2 000) mm	0.4 μm 0.7 μm 1.0 μm 1.2 μm	Electronic levels/ SICT-CP-10412
Straight rules Length	10413	(0 ~ 2 000) mm	0.09 mm	LASER INTERFEROMETER/ SICT-CP-10413
Test bars Cylinderness	10415	(10 ~ 250) mm	0.60 μm	Roundness Tester/ SICT-CP-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
Contact coordinate measuring machines	10503	(0 ~ 1 500) mm	$\sqrt{0.56^2 + (0.004 4 \times l_0)^2} \mu\text{m}$	Step Gauge/ SICT-CP-10503
Non-contact coordinate measuring machines	10504	(0 ~ 1 000) mm	$\sqrt{0.43^2 + (0.003 4 \times l_0)^2} \mu\text{m}$	Standard Scale/ SICT-CP-10504
Gauge block accessories	10505			Gauge Block/ SICT-CP-10505
Round the ministry of Justice		(0 ~ 50) mm	$\sqrt{0.22^2 + (0.004 2 \times l_0)^2} \mu\text{m}$	
A he ministry of Justice,Base block		(0 ~ 50) mm	$\sqrt{0.22^2 + (0.004 2 \times l_0)^2} \mu\text{m}$	
Center point		(0 ~ 20) 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 ~ 150) mm	0.37 μm	
Measuring microscopes,Profile projectors	10511			Standard Scale/ SICT-CP-10511
Length		(0 ~ 500) mm	$\sqrt{0.43^2 + (0.003 4 \times l_0)^2} \mu\text{m}$	
Magnification		(5~ 100)Magnification	5×10^{-4}	
Angle		(0 ~ 360) °	0.9'	
Microscopes, micro measuring	10512			Standard Scale/ SICT-CP-10512
		(0 ~ 1) mm	1.3 μm	
		(1 ~ 50) mm	3.0 μm	
Taper plug gauges	10514			Measuring Machine, Standard/ SICT-CP-10514
Small end diameter		(2 ~ 200) mm	$\sqrt{1.0^2 + (0.004 1 \times l_0)^2} \mu\text{m}$	
Big end diameter		(2 ~ 200) mm	$\sqrt{1.2^2 + (0.004 1 \times l_0)^2} \mu\text{m}$	
Plane angle		(0 ~ 90) °	5.4"	
Gage height		(2 ~ 200) mm	$\sqrt{1.1^2 + (0.004 4 \times l_0)^2} \mu\text{m}$	
Taper ring gauges	10515			Coordinate Measur Machine/ SICT-CP-10515
Small end diameter		(5 ~ 200) mm	1.9 μm	
Big end diameter		(5 ~ 200) mm	1.9 μm	
Plane angle		(0 ~ 90) °	0.004°	
Stylus type roughness testers	10517			Roughness Specimen/ SICT-CP-10517
Ra		(0 ~ 2) μm	8 nm	
		(2 ~ 10) μm	26 nm	
Rz		(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	
Roughness standard/comparison specimens	10519			Roughness Tester/ SICT-CP-10519
A형(H)		(0 ~ 6) μm	$\sqrt{(9.6 \times R)^2 + 1 2^2} \text{ nm}$	
		(6 ~ 20) μm	$\sqrt{(8.5 \times R)^2 + 1 5^2} \text{ nm}$	
C형(RSm)		(0 ~ 300) μm	$\sqrt{(0.01 \times R)^2 + 0.3 5^2} \mu\text{m}$	
D형(Ra)		(0 ~ 2) μm	$\sqrt{(8.4 \times R)^2 + 2.8^2} \text{ nm}$	
		(2 ~ 10) μm	$\sqrt{(1 3 \times R)^2 + 5.2^2} \text{ nm}$	
(Rz)		(0 ~ 7) μm	$\sqrt{(9.0 \times R)^2 + 9.4^2} \text{ nm}$	
		(7 ~ 30) μm	$\sqrt{(0.02 \times R)^2 + 0.0 66^2} \mu\text{m}$	

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
Thread plug gauges Outside diameter Effective diameter Pitch Half angle	10525	(1.0 ~ 105) mm (1.0 ~ 105) mm (0.3 ~ 6) mm (0.5 ~ 45) °	0.88 μm 1.7 μm 0.7 μm 2'	Measuring Machine, Standard/ SICT-CP-10525
Taper thread plug gauges Half angle Pitch Gage length Notch length Small outside diameter Big outside diameter Small effective diameter Big effective diameter	10526	(0 ~ 45) ° (0.3 ~ 6) mm (2 ~ 100) mm (2 ~ 50) mm (2 ~ 200) mm (2 ~ 200) mm (2 ~ 200) mm (2 ~ 200) mm	2' 1.3 μm 2.8 μm 2.8 μm 2.0 μm 3.2 μm 2.6 μm 4.4 μm	Measuring Machine, Standard/ SICT-CP-10526
Thread ring gauges Bore diameter Effective diameter Pitch	10527	(5.0 ~ 205) mm (5.0 ~ 210) mm (0.3 ~ 10) mm	1.4 μm 2.1 μm 2.1 μm	Measuring Machine, Standard/ SICT-CP-10527
Taper thread ring gauges Alternation Thickness Notch length	10528	±3 mm (0 ~ 100) mm (0 ~ 100) mm	2.6 μm 2.2 μm 3.1 μm	Measuring Machine, Standard/ SICT-CP-10527
V-blocks, Boxblocks Plane figure Parallelism Difference of both part	10529	Φ(5 ~ 300) mm Φ(5 ~ 300) mm Φ(5 ~ 300) mm	1.8 μm 1.8 μm 2.5 μm	Coordinate Measur Machine/ SICT-CP-10529

106. Various dimensional

Measured Quantity Instrument or Gauge	Field Code	Range	CMC (The Confidence Level is about 95 %)	Comments
Inside/Outside/Gear tooth calipers, Caliper gauges Inside/Outside calipers Caliper gauges	10601	(0 ~ 2 000) mm (0 ~ 600) mm	$\sqrt{8.2^2 + (0.007 \times l_0)^2}$ μm $\sqrt{3.7^2 + (0.0032 \times l_0)^2}$ μm	Gauge Block/ SICT-CP-10601
Cylinder/bore gauges Cylinder gauges Hole gauges	10603	(0.1 ~ 25) mm	0.7 μm 3.4 μm	Dial Gauge Tester/ SICT-CP-10603
Depth gauges, Depth micrometers Depth micrometers Depth gauges	10604	(0 ~ 300) mm (0 ~ 1 000) mm	$\sqrt{0.81^2 + (0.0034 \times l_0)^2}$ μm $\sqrt{6.0^2 + (0.0076 \times l_0)^2}$ μm	Gauge Block/ SICT-CP-10604
Dial/digital gauges	10605	(0 ~ 100) mm	$\sqrt{0.32^2 + (0.0067 \times l_0)^2}$ μm	Dial Gauge Tester/
Grind gauges Depth Straightness	10608	(0 ~ 1) mm (0 ~ 150) mm	1.9 μm 2.5 μm	Electronic micrometer/ SICT-CP-10608
Micro indicators, Test indicators Micro Indicators	10609	(0 ~ 5) mm	0.21 μm	Dial Gauge Tester/ SICT-CP-10609
Micrometer heads	10610	(0 ~ 50) mm	0.7 μm	Gauge Block/ SICT-CP-10610
3-points, Micrometers	10611	(2 ~ 200) mm	$\sqrt{0.93^2 + (0.0034 \times l_0)^2}$ μm	Ring Gauge/ SICT-CP-10611
Inside micrometers Inside micrometer bar type micrometer (Accuracy of scale) bar type micrometer (Length of extension bars)	10612	(5 ~ 300) mm (25 ~ 500) mm (13 ~ 500) mm	$\sqrt{1.1^2 + (0.0042 \times l_0)^2}$ μm $\sqrt{1.1^2 + (0.0042 \times l_0)^2}$ μm $\sqrt{1.2^2 + (0.0048 \times l_0)^2}$ μm	Gauge Block/ SICT-CP-10612
Outside micrometers Outside micrometers V-anvil micrometers	10613	(0 ~ 25) mm (25 ~ 1 000) mm (1 ~ 85) mm	$\sqrt{0.2^2 + (0.003 \times l_0)^2}$ μm $\sqrt{0.83^2 + (0.003 \times l_0)^2}$ μm 0.8 μm	Gauge Block, cylindrical plug gauges/ SICT-CP-10613
Particle counters (Air) Flow Threshold voltage Counting efficiency (Liquid) Flow Threshold voltage	10615	(0.1 ~ 25) μm (0 ~ 100) L/min (0 ~ 10) V (0 ~ 110) % (0.05 ~ 25) μm (0 ~ 100) mL/min (0 ~ 10) V	0.13 L/min 0.42 mV 5.5 % 1.4 mL/min 0.42 mV	Particle calibration system/ SICT-CP-10615
Standard sieves Sieve opening Wire rod diameter	10617	(0.004 ~ 10) mm (0.004 ~ 130) mm	1.5 μm 2.4 μm	Non-contact coordinate measuring machines/ SICT-CP-10617
Welding gauges Height or depth Rule Angle	10620	(0 ~ 100) mm (0 ~ 100) mm (0 ~ 90)°	8.2 μm 6.0 μm 0.7'	Non-contact coordinate measuring machine, Gauge Block/ SICT-CP-10620

Note 1. l_0 unit : mm

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 (10 ~ 50) kg (50 ~ 200) kg (200 ~ 500) kg (500 ~ 1 000) kg	1.6 g 15 g 30 g 50 g 0.10 kg	Hopper Scale Weight/ SICT-CP-20102
Auto-packer scale balances	20103	(0 ~ 10) kg (10 ~ 50) kg (50 ~ 200) kg	1.0 g 9.0 g 18 g	Weight/ SICT-CP-20103
Dial platform scale balances	20106	(0 ~ 30) kg (30 ~ 60) kg (60 ~ 100) kg	42 g 0.07 kg 0.21 kg	Weight/ SICT-CP-20106
Electric balances	20109	(0 ~ 2) g (2 ~ 20) g (20 ~ 200) g (200 ~ 400) g (400 ~ 2 000) g (2 ~ 10) kg (10 ~ 30) kg (30 ~ 60) kg (60 ~ 300) kg (300 ~ 500) kg (500 ~ 1 000) kg	19 µg 37 µg 0.11 mg 0.25 mg 1.1 mg 5.4 mg 19 mg 0.06 g 1.7 g 5.2 g 20 g	Weight/ SICT-CP-20109
Platform scale balances	20112	(0 ~ 200) kg (200 ~ 500) kg (500 ~ 1 000) kg	31 g 0.07 kg 0.29 kg	Weight/ SICT-CP-20112
Spring scale balances	20113	(0 ~ 10) kg (10 ~ 50) kg (50 ~ 100) kg	16 g 0.07 kg 0.21 kg	Weight/ SICT-CP-20113
Weights	20116	(1 mg ~ 20 kg) 1 mg 2 mg 5 mg 10 mg 20 mg 50 mg 100 mg 200 mg 500 mg 1 g 2 g 5 g 10 g 20 g 50 g 100 g 200 g 500 g 1 kg 2 kg 5 kg 10 kg 20 kg (20 kg ~ 50 kg) 50 kg 100 kg	(less than class F1) 2.4 µg 2.4 µg 2.4 µg 3.3 µg 3.3 µg 4.2 µg 5.2 µg 6.1 µg 8.1 µg 10 µg 13 µg 16 µg 25 µg 30 µg 36 µg 55 µg 0.10 mg 0.33 mg 0.57 mg 1.0 mg 4.2 mg 6.3 mg 18 mg (less than class M2) 0.2 g 2 g	Weight/ SICT-CP-20116

202. Force

Measured Quantity Instrument or Gauge	Field Code	Range	CMC (The Confidence Level is about 95 %)	Comments
Force measuring devices Force	20202	(0.4 ~ 20) N (20 ~ 50) N (50 ~ 100) N (100 ~ 200) N (200 ~ 500) N (0.5 ~ 1) kN (1 ~ 2) kN (2 ~ 5) kN (5 ~ 10) kN (10 ~ 20) kN (20 ~ 50) kN (50 ~ 100) kN (100 ~ 200) kN (200 ~ 500) kN (500 ~ 1 000) kN	6.0×10^{-4} 8.4×10^{-5} 8.5×10^{-5} 7.3×10^{-5} 6.9×10^{-5} 9.2×10^{-5} 9.0×10^{-5} 8.4×10^{-5} 8.7×10^{-5} 3.8×10^{-4} 3.7×10^{-4} 4.6×10^{-4} 4.5×10^{-4} 4.3×10^{-4} 4.6×10^{-4}	Load Cell/ SICT-CP-20203
Tension/compression testing machines tensile compression	20203	0.1 N ~ 2 kN (0.1 ~ 50) N (50 ~ 100) N (100 ~ 200) N (200 ~ 500) N (0.5 ~ 1) kN (1 ~ 2) kN (2 ~ 5) kN (5 ~ 10) kN (10 ~ 20) kN (20 ~ 50) kN (50 ~ 100) kN (100 ~ 300) kN (300 ~ 500) kN (500 ~ 1 000) kN (1 000 ~ 3 000) kN	1.2×10^{-3} 1.2×10^{-3} 1.1×10^{-3} 1.4×10^{-3} 1.1×10^{-3} 1.2×10^{-3} 1.6×10^{-3} 1.0×10^{-3} 1.2×10^{-3} 1.3×10^{-3} 1.0×10^{-3} 1.2×10^{-3} 1.7×10^{-3} 1.2×10^{-3} 1.1×10^{-3} 1.4×10^{-3}	Load Cell/ SICT-CP-20203
push-pull gauge	20204	0.02 N ~ 2 kN (2 ~ 5) kN	1.2×10^{-3} 6.2×10^{-4}	Push-Pull Calibrator(Weight,jig)/ SICT-CP-20204

203. Torque

Measured Quantity Instrument or Gauge	Field Code	Range	CMC (The Confidence Level is about 95 %)	Comments
Torque measuring devices	20302	(0.001 ~ 1) N·m (1 ~ 10) N·m (10 ~ 20) N·m (20 ~ 50) N·m (50 ~ 100) N·m (100 ~ 200) N·m	5.2×10^{-3} 4.1×10^{-4} 7.5×10^{-4} 2.3×10^{-4} 3.4×10^{-4} 2.2×10^{-4}	Torque Calibration System/ SICT-CP-20302
Torque wrenches/drivers	20303	(0.02 ~ 0.1) N·m (0.1 ~ 0.5) N·m (0.5 ~ 1) N·m (1 ~ 2) N·m (2 ~ 10) N·m (10 ~ 20) N·m (20 ~ 50) N·m (50 ~ 100) N·m (100 ~ 200) N·m (200 ~ 500) N·m (500 ~ 1 000) N·m	1.7×10^{-2} 1.0×10^{-2} 7.6×10^{-3} 7.1×10^{-3} 4.8×10^{-3} 4.9×10^{-3} 4.6×10^{-3} 4.1×10^{-3} 3.0×10^{-3} 3.7×10^{-3} 3.9×10^{-3}	Torque Transducer/ SICT-CP-20303

204. Pressure

Measured Quantity Instrument or Gauge	Field Code	Range	CMC (The Confidence Level is about 95 %)	Comments
Altimeters	20401	(0 ~ 20 000) m (20 000 ~ 47 000) m	7.0×10^{-4} 2.6×10^{-4}	Digital Manometer, Air Dead Weight Tester/ SICT-CP-20401
Manometers	20402	(0 ~ 200) kPa	2.9×10^{-3}	Digital Manometer, Air Dead Weight Tester/ SICT-CP-20402
Air data test systems 정압 동압	20405	(5 ~ 18.9) kPa abs (18.9 ~ 135.5) kPa abs (5 ~ 18.9) kPa abs (18.9 ~ 350.0) kPa abs	1.4×10^{-4} 6.5×10^{-5} 1.4×10^{-4} 6.4×10^{-5}	Digital Manometer, Air Dead Weight Tester/ SICT-CP-20405
Absolute pressure gauges Barometer Dial, digital	20406	(50 ~ 130) kPa abs (5 ~ 7 000) kPa abs (7 ~ 200) MPa abs	7.5×10^{-5} 6.2×10^{-5} 1.5×10^{-4}	Digital Manometer, Air Dead Weight Tester/ SICT-CP-20406
Blood pressure gauges	20407	(0 ~ 40) kPa	0.009 kPa	Digital Manometer/ SICT-CP-20407
Compound pressure gauges	20408	(-95 ~ 2 069) kPa	0.45 kPa	Air Dead Weight Tester/ SICT-CP-20408
Differential pressure gauges	20409	(0 ~ 2) kPa (2 ~ 2 000) kPa	9.2×10^{-5} 8.6×10^{-5}	Digital Manometer, Air Dead Weight Tester/ SICT-CP-20409
Gauge pressure gauges	20411	(0 ~ 2) kPa (2 ~ 7 000) kPa (7 ~ 200) MPa	1.3×10^{-4} 6.1×10^{-5} 1.4×10^{-4}	Digital Manometer, Air Dead Weight Tester, Oil Dead Weight Tester/ SICT-CP-20411
Pressure transducers/transmitters	20412	(5 ~ 7 000) kPa abs (0 ~ 2) kPa (2 ~ 7 000) kPa (7 ~ 200) MPa	6.6×10^{-4} 5.5×10^{-4} 6.0×10^{-4} 6.6×10^{-4}	Digital Manometer, Air Dead Weight Tester, Oil Dead Weight Tester/ SICT-CP-20412
Dial type vacuum gauges	20413	(-95 ~ 0) kPa	0.069 kPa	Air Dead Weight Tester, SICT-CP-20413

205. Vacuum

Measured Quantity Instrument or Gauge	Field Code	Range	CMC (The Confidence Level is about 95 %)	Comments
Capacitance diaphragm gauges	20501	0.133 Pa abs ~ 13.3 Pa abs 13.3 Pa abs ~ 133.3 Pa abs 133.3 Pa abs ~ 1.333 kPa abs 1.333 kPa abs ~ 133.3 kPa abs	0.073 Pa abs 0.52 Pa abs 5.9 Pa abs 81 Pa abs	Baratron gauge / SICT-CP-20501
Thermal conductivity gauges; pirani, thermocouple, convectron etc.	20504	0.133 Pa abs ~ 13.3 Pa abs 13.3 Pa abs ~ 133.3 Pa abs 133.3 Pa abs ~ 1.333 kPa abs 1.333 kPa abs ~ 133.3 kPa abs	0.073 Pa abs 0.52 Pa abs 5.9 Pa abs 81 Pa abs	Baratron gauge / SICT-CP-20501
Standard leaks, Helium leak detectors	20505	6.38 nPa m ³ /s 15.6 nPa m ³ /s 0.489 μPa m ³ /s 1.86 μPa m ³ /s	1.3 nPa m ³ /s 3.2 nPa m ³ /s 0.098 μPa m ³ /s 0.38 μPa m ³ /s	Standard leaks, Helium leak detectors / SICT-CP-20505

206. Volume

Measured Quantity Instrument or Gauge	Field Code	Range	CMC (The Confidence Level is about 95 %)	Comments
Volumetric glasswares	20601	(0 ~ 2) ml (2 ~ 10) ml (10 ~ 25) ml (25 ~ 50) ml (50 ~ 100) ml (100 ~ 250) ml (250 ~ 500) ml (500 ~ 1 000) ml (1 000 ~ 2 000) ml (2 000 ~ 5 000) ml (5 000 ~ 10 000) ml	2.6 µl 2.8 µl 3.6 µl 4.8 µl 8.0 µl 44 µl 72 µl 0.10 ml 0.19 ml 0.53 ml 0.96 ml	Weight, balances / SICT-CP-20601
Pycnometers	20602	(0 ~ 50) ml (50 ~ 100) ml (100 ~ 500) ml	2.8 µl 5.1 µl 24 µl	Weight, balances / SICT-CP-20602
Concrete air content meters	20605	(0 ~ 10) %	0.032 %	Weight, balances / SICT-CP-20605
Piston type volume meters	20606	(0 ~ 2) µl (2 ~ 5) µl (5 ~ 10) µl (0.01 ~ 0.02) ml (0.02 ~ 0.05) ml (0.05 ~ 0.1) ml (0.1 ~ 0.2) ml (0.2 ~ 0.5) ml (0.5 ~ 1) ml (1 ~ 2) ml (2 ~ 5) ml (5 ~ 10) ml (10 ~ 20) ml (20 ~ 50) ml (50 ~ 100) ml	0.009 µl 0.010 µl 0.013 µl 0.030 µl 0.067 µl 0.092 µl 0.14 µl 0.35 µl 0.69 µl 1.6 µl 1.9 µl 2.6 µl 5.6 µl 14 µl 64 µl	Weight, balances / SICT-CP-20606

207. Density

Measured Quantity Instrument or Gauge	Field Code	Range	CMC (The Confidence Level is about 95 %)	Comments
Liquid density meters	20702	(0.7 ~ 1.4) g/cm ³	0.000 092 g/cm ³	Density standard materials/ SICT-CP-20702
Salinity meters	20704	(0 ~ 26) %	0.009 %	NaCl/ SICT-CP-20704
Sucrose meters	20705	(0 ~ 10) % (10 ~ 80) %	0.017 % 0.016 %	Sucrose/ SICT-CP-20705
Chloride meters	20707	(0 ~ 2) %	0.001 0 %	Chlorine standard liquid/ SICT-CP-20707

* 20704, 20705, 20707 unit % is weight percent.

208. Viscosity

Measured Quantity Instrument or Gauge	Field Code	Range	CMC (The Confidence Level is about 95 %)	Comments
Kinematic viscometers; capillary, etc	20801	(2.5 ~ 100 000) mPa·s	1.3×10^{-2}	Viscosity CRM/ SICT-CP-20801
Dynamic viscometers; rotational, etc Viscosity	20802	(2.5 ~ 10 000) mPa·s (10 000 ~ 200 000) mPa·s	1.3×10^{-2} 1.4×10^{-2}	Viscosity CRM/ SICT-CP-20802

209. Fluid flow

Measured Quantity Instrument or Gauge	Field Code	Range	CMC (The Confidence Level is about 95 %)	Comments
Anemometers; hot-wire Velocity	20901	(0.1 ~ 2.0) m/s (2.0 ~ 70) m/s	8.7×10^{-2} 4.8×10^{-3}	Wind Tunnel, Pitot tube, LDV/ SICT-CP-20901
Anemometers; pitot tube, etc. Velocity	20902	(0.1 ~ 2.0) m/s (2.0 ~ 70) m/s	8.7×10^{-2} 4.8×10^{-3}	Wind Tunnel, Pitot tube, LDV/ SICT-CP-20902
Gas flowmeters;differential pressure	20908	$(1.2 \times 10^{-5} \sim 0.12) \text{ m}^3/\text{h}$ (0.12 ~ 300) m^3/h (300 ~ 4 000) m^3/h	1.9×10^{-3} 2.0×10^{-3} 3.6×10^{-3}	Sonic Nozzle/SICT-CP-20928 Master Meter/SICT-CP-20929
Liquid flowmeters;differential pressure	20909	(0.01 ~ 50) m^3/h (0.000 12 ~ 0.01) m^3/h (0.01 ~ 50) m^3/h	1.2×10^{-3} 2.6×10^{-3} 9.0×10^{-4}	Master Meter/SICT-CP-20926 Weight measuring method/ SICT-CP-20927
Liquid flowmeters; electromagnetic	20910	(0.01 ~ 50) m^3/h (0.000 12 ~ 0.01) m^3/h (0.01 ~ 50) m^3/h	1.2×10^{-3} 2.6×10^{-3} 9.0×10^{-4}	Master Meter/SICT-CP-20926 Weight measuring method/ SICT-CP-20927
Gas flowmeters;thermal mass, etc.	20911	$(1.2 \times 10^{-5} \sim 0.12) \text{ m}^3/\text{h}$ (0.12 ~ 300) m^3/h (300 ~ 4 000) m^3/h	1.9×10^{-3} 2.0×10^{-3} 3.6×10^{-3}	Sonic Nozzle/SICT-CP-20928 Master Meter/SICT-CP-20929
Liquid flowmeters; Coriolis, etc.	20912	(0.01 ~ 50) m^3/h (0.000 12 ~ 0.01) m^3/h (0.01 ~ 50) m^3/h	1.2×10^{-3} 2.6×10^{-3} 9.0×10^{-4}	Master Meter/SICT-CP-20926 Weight measuring method/ SICT-CP-20927
Gas flowmeters;open channel, etc.	20914	$(1.2 \times 10^{-5} \sim 0.12) \text{ m}^3/\text{h}$ (0.12 ~ 300) m^3/h (300 ~ 4 000) m^3/h	1.9×10^{-3} 2.0×10^{-3} 3.6×10^{-3}	Sonic Nozzle/SICT-CP-20928 Master Meter/SICT-CP-20929
Liquid flowmeters; positive displacement	20915	(0.01 ~ 50) m^3/h (0.000 12 ~ 0.01) m^3/h (0.01 ~ 50) m^3/h	1.2×10^{-3} 2.6×10^{-3} 9.0×10^{-4}	Master Meter/SICT-CP-20926 Weight measuring method/ SICT-CP-20927
Gas flowmeters;turbine	20916	$(1.2 \times 10^{-5} \sim 0.12) \text{ m}^3/\text{h}$ (0.12 ~ 300) m^3/h (300 ~ 4 000) m^3/h	1.9×10^{-3} 2.0×10^{-3} 3.6×10^{-3}	Sonic Nozzle/SICT-CP-20928 Master Meter/SICT-CP-20929
Liquid flowmeters;turbine	20917	(0.01 ~ 50) m^3/h (0.000 12 ~ 0.01) m^3/h (0.01 ~ 50) m^3/h	1.2×10^{-3} 2.6×10^{-3} 9.0×10^{-4}	Master Meter/SICT-CP-20926 Weight measuring method/ SICT-CP-20927
Gas flowmeters;ultrasonic	20918	$(1.2 \times 10^{-5} \sim 0.12) \text{ m}^3/\text{h}$ (0.12 ~ 300) m^3/h (300 ~ 4 000) m^3/h	1.9×10^{-3} 2.0×10^{-3} 3.6×10^{-3}	Sonic Nozzle/SICT-CP-20928 Master Meter/SICT-CP-20929

209. Fluid flow

Measured Quantity Instrument or Gauge	Field Code	Range	CMC (The Confidence Level is about 95 %)	Comments
Liquid flowmeters;ultrasonic	20919	(0.01 ~ 50) m ³ /h	1.2×10^{-3}	Master Meter/SICT-CP-20926
		(0.000 12 ~ 0.01) m ³ /h	2.6×10^{-3}	Weight measuring method/ SICT-CP-20927
		(0.01 ~ 50) m ³ /h	9.0×10^{-4}	
Gas flowmeters;variable area	20920	(1.2×10^{-5} ~ 0.12) m ³ /h	1.9×10^{-3}	Sonic Nozzle/SICT-CP-20928
		(0.12 ~ 300) m ³ /h	2.0×10^{-3}	Master Meter/SICT-CP-20929
		(300 ~ 4 000) m ³ /h	3.6×10^{-3}	
Liquid flowmeters;variable area	20921	(0.01 ~ 50) m ³ /h	1.2×10^{-3}	Master Meter/SICT-CP-20926
		(0.000 12 ~ 0.01) m ³ /h	2.6×10^{-3}	Weight measuring method/ SICT-CP-20927
		(0.01 ~ 50) m ³ /h	9.0×10^{-4}	
Gas flowmeters;vortex	20922	(1.2×10^{-5} ~ 0.12) m ³ /h	1.9×10^{-3}	Sonic Nozzle/SICT-CP-20928
		(0.12 ~ 300) m ³ /h	2.0×10^{-3}	Master Meter/SICT-CP-20929
		(300 ~ 4 000) m ³ /h	3.6×10^{-3}	
Liquid flowmeters;vortex	20923	(0.01 ~ 50) m ³ /h	1.2×10^{-3}	Master Meter/SICT-CP-20926
		(0.000 12 ~ 0.01) m ³ /h	2.6×10^{-3}	Weight measuring method/ SICT-CP-20927
		(0.01 ~ 50) m ³ /h	9.0×10^{-4}	
Anemometers; vane, etc Velocity	20925	(0.1 ~ 2.0) m/s (2.0 ~ 70) m/s	8.7×10^{-2} 4.8×10^{-3}	Wind Tunnel, Pitot tube, LDV/ SICT-CP-20925

210. Hardness

Measured Quantity Instrument or Gauge	Field Code	Range	CMC (The Confidence Level is about 95 %)	Comments
Brinell hardness testers	21001	(100 ~ 250) HBW 10/3 000 (250 ~ 450) HBW 10/3 000 (450 ~ 650) HBW 10/3 000	3.1 HBW 10/3 000 4.9 HBW 10/3 000 8.2 HBW 10/3 000	Brinell Hardness Specimen/ SICT-CP-21001
Rockwell hardness testers	21002	(20 ~ 70) HRC (20 ~ 100) HRBW	0.45 HRC 0.80 HRBW	Rockwell Hardness Specimen/ SICT-CP-21002
Shore hardness testers	21003	(20 ~ 100) HS	0.9 HS	Shore Hardness Specimen/ SICT-CP-21003
Vickers hardness testers	21004	(50 ~ 300) HV 0.2 (300 ~ 600) HV 0.2 (600 ~ 850) HV 0.2 (50 ~ 300) HV 0.3 (300 ~ 600) HV 0.3 (600 ~ 850) HV 0.5 (50 ~ 300) HV 0.5 (300 ~ 600) HV 0.5 (600 ~ 850) HV 1 (50 ~ 300) HV 10 (300 ~ 600) HV 10 (600 ~ 850) HV 10 (300 ~ 600) HV 30 (600 ~ 850) HV 30	6.0 HV 0.2 18 HV 0.2 27 HV 0.2 5.0 HV 0.3 14 HV 0.3 26 HV 0.5 6.0 HV 0.5 15 HV 0.5 20 HV 1 3.0 HV 10 8.0 HV 10 11 HV 10 8.0 HV 30 11 HV 30	Vickers Hardness Specimen/ SICT-CP-21004
Durometer hardness testers	21005	(0 ~ 100) HDA (0 ~ 100) HDAM (0 ~ 100) HDAO (0 ~ 100) HDB (0 ~ 100) HDC (0 ~ 100) HDC2 (0 ~ 100) HDCS (0 ~ 100) HDD (0 ~ 100) HDD0 (0 ~ 100) HDE (0 ~ 100) HDE2 (0 ~ 100) HDF (0 ~ 100) HDF0 (0 ~ 100) HDM (0 ~ 100) HDO (0 ~ 100) HD00 (0 ~ 100) HD000 (0 ~ 100) HD000-S	0.4 HDA 0.8 HDAM 0.4 HDAO 0.4 HDB 0.5 HDC 0.5 HDC2 0.5 HDCS 0.5 HDD 0.5 HDD0 0.4 HDE 0.5 HDE2 0.5 HDF 0.5 HDF0 0.8 HDM 0.5 HDO 0.5 HD00 0.5 HD000 0.5 HD000-S	STD Rubber Hardness Tester/ SICT-CP-21005
Leeb hardness testers	21006	(400 ~ 700) HLD (700 ~ 1 000) HLD	4.7 HLD 4.6 HLD	Leeb Hardness Specimen/ SICT-CP-21006

301. Time/frequency

Measured Quantity Instrument or Gauge	Field Code	Range	CMC (The Confidence Level is about 95 %)	Comments
Frequency standards Time Base Frequency	30102	0.1 MHz ~ 100 MHz	5.9×10^{-12}	GPS Receiver, Universal Counter/ SICT-CP-30102
General frequency sources Time Base Frequency Test	30103	(10 ~ 100) kHz (0.1 ~ 100) MHz	1.3×10^{-11} 5.9×10^{-12}	GPS Receiver, Universal Counter/ SICT-CP-30103
Frequency meters/counters Time Base Frequency Input Frequency	30104	(1 ~ 10) MHz 0.1 Hz 0.1 Hz ~ 40 GHz	6.0×10^{-12} 6.4×10^{-10} 6.4×10^{-11}	GPS Receiver, Universal Counter/ SICT-CP-30104
Time interval sources Period Time interval	30105	1 ns ~ 10 s (1 ~ 100) ns 100 ns ~ 1 ms 1 ms ~ 10 s	6.1×10^{-9} 0.15 ns 1.3 ns 2.1 ns	GPS Receiver, Universal Counter/ SICT-CP-30105
Time interval meters /Stop watches/Timers Trigger Voltage Period Reference Frequency Relative Time Time rate Timer Count	30106	(-5 ~ 5) V (5 ~ 100) ns (1 ~ 10) MHz day month (-9.95 ~ 9.95) s / day (-300 ~ 300) s / month (1 ~ 100) s (100 ~ 1 000) s (1 000 ~ 10 000) s ≥ 1	1.2×10^{-4} 6.2×10^{-5} ns 6.2×10^{-11} 1.1×10^{-7} 3.6×10^{-7} 6.1 ms 6.2 ms 5.8×10^{-6} 8.2×10^{-6} 5.8×10^{-5} 0.58	Stop Watch Calibrator/ SICT-CP-30106

302. Velocity & revolution

Measured Quantity Instrument or Gauge	Field Code	Range	CMC (The Confidence Level is about 95 %)	Comments
Standard RPM generators Revolution Velocity Measurement Revolution Velocity Measurement (Centrifuge)	30201	(10 ~ 10 000) min ⁻¹ (100 ~ 1 000) min ⁻¹ (1 000 ~ 3 000) min ⁻¹ (3 000 ~ 7 000) min ⁻¹ (7 000 ~ 10 000) min ⁻¹ (10 000 ~ 15 000) min ⁻¹ (15 000 ~ 20 000) min ⁻¹ (20 000 ~ 30 000) min ⁻¹ (30 000 ~ 40 000) min ⁻¹ (40 000 ~ 50 000) min ⁻¹ (50 000 ~ 60 000) rmin ⁻¹ (60 000 ~ 70 000) min ⁻¹ (70 000 ~ 80 000) min ⁻¹ (80 000 ~ 90 000) min ⁻¹ (90 000 ~ 99 000) min ⁻¹	$3.9 \times 10^{-3} \text{ min}^{-1}$ 0.031 min ⁻¹ 0.072 min ⁻¹ 0.16 min ⁻¹ 0.31 min ⁻¹ 0.40 min ⁻¹ 0.51 min ⁻¹ 3.5 min ⁻¹ 4.6 min ⁻¹ 5.8 min ⁻¹ 6.9 min ⁻¹ 8.1 min ⁻¹ 9.2 min ⁻¹ 10 min ⁻¹ 11 min ⁻¹	GPS Receiver, Synthesizer Function Generator/ SICT-CP-30201
Contact type tachometers Revolution Velocity Measurement	30202	(10 ~ 900) min ⁻¹ (900 ~ 4 200) min ⁻¹	$6.1 \times 10^{-2} \text{ min}^{-1}$ $8.6 \times 10^{-2} \text{ min}^{-1}$	GPS Receiver, Tachometer Cal System/ SICT-CP-30202
Photo tachometers/stroboscopes Revolution Velocity Measurement (Photo-tachometer) Revolution Velocity Measurement (Stroboscope)	30203	(6 ~ 999.99) min ⁻¹ (1 000.0 ~ 99 999.9) min ⁻¹ (100 000 ~ 600 000) min ⁻¹ (60 ~ 9 000) min ⁻¹ (9 000 ~ 90 000) min ⁻¹ (90 000 ~ 500 000) min ⁻¹	$6.1 \times 10^{-3} \text{ min}^{-1}$ $6.1 \times 10^{-2} \text{ min}^{-1}$ $6.1 \times 10^{-1} \text{ min}^{-1}$ $5.8 \times 10^{-3} \text{ min}^{-1}$ $5.8 \times 10^{-2} \text{ min}^{-1}$ $5.8 \times 10^{-1} \text{ min}^{-1}$	GPS Receiver, Photo Signal Detector/ SICT-CP-30203
Speed meters Speed Test	30204	(0 ~ 400) km/h	$6.2 \times 10^{-3} \text{ km/h}$	GPS Receiver, Synthesizer Function Generator/ SICT-CP-30204
Wow-flutter generators Carrier Frequency Function Frequency Wow/Flutter Deviation Output Level CCIR Pulse	30205	10 Hz ~ 99.99 kHz 1 Hz ~ 10 kHz (10 ~ 30) kHz (1 Hz ~ 100 Hz) (0 ~ 3) % (1 ~ 10) mV (10 ~ 100) mV (0.1 ~ 6) V 10 ms 30 ms 60 ms 100 ms	6.2×10^{-6} 6.2×10^{-6} 2.1×10^{-6} 0.025 % 5.8×10^{-4} 1.7×10^{-4} 1.3×10^{-4} $1.2 \times 10^{-4} \text{ ms}$ $6.7 \times 10^{-4} \text{ ms}$ $3.3 \times 10^{-4} \text{ ms}$ $2.1 \times 10^{-4} \text{ ms}$	GPS Receiver, Universal Counter/ SICT-CP-30205

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) % (0.3 ~ 3) %	0.019 % 0.020 %	Calibrator/ SICT-CP-30206
Carrier Frequency		3 kHz 3.15 kHz	6.2×10^{-5} kHz 6.2×10^{-5} kHz	
CCIR Pulse		(10 ~ 100) ms	0.59 %	
Output Voltage		(1 ~ 100) mV 100 mV ~ 1 V (1 ~ 10) V	6.7 μ V 7.7 μ V 37 μ V	

401. DC voltage & current

Measured Quantity Instrument or Gauge	Field Code	Range	CMC (The Confidence Level is about 95 %)	Comments
DC ammeters DC Current	40101	(±) 0 nA (0 ~ 1) nA (1 ~ 100) nA (0.1 ~ 1) µA (1 ~ 10) µA (10 ~ 100) µA (0.1 ~ 1) mA (1 ~ 10) mA (10 ~ 100) mA (100 ~ 200) mA (0.2 ~ 1) A (1 ~ 10) A (10 ~ 100) A	1.2 nA 6.9×10^{-3} 4.6×10^{-3} 2.3×10^{-3} 7.2×10^{-4} 1.2×10^{-4} 5.1×10^{-5} 4.8×10^{-5} 6.1×10^{-5} 5.7×10^{-5} 1.1×10^{-4} 1.4×10^{-4} 1.5×10^{-4}	Calibrator/ SICT-CP-40101
Transconductance amplifiers DC Current AC Current AC Current	40102	(±) 10 µA ~ 10 A (10 ~ 50) A (50 ~ 100) A (100 µA ~ 1 mA) 40 Hz ~ 1 kHz 1 kHz ~ 10 kHz (1 mA ~ 10 mA) 40 Hz ~ 1 kHz 1 kHz ~ 10 kHz (10 mA ~ 100 mA) 40 Hz ~ 1 kHz 1 kHz ~ 10 kHz (100 mA ~ 1 A) 40 Hz ~ 1 kHz 1 kHz ~ 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 ~ 50 A) 40 Hz ~ 1 kHz 1 kHz ~ 10 kHz (50 A ~ 100 A) 40 Hz ~ 1 kHz 1 kHz ~ 10 kHz (100 A ~ 120 A) 60 Hz	1.3×10^{-5} 4.3×10^{-5} 4.4×10^{-5} 5.9×10^{-4} 1.9×10^{-3} 5.6×10^{-4} 1.9×10^{-3} 5.3×10^{-5} 5.8×10^{-5} 7.9×10^{-5} 8.8×10^{-5} 1.4×10^{-4} 1.6×10^{-4} 1.4×10^{-4} 1.6×10^{-4} 1.1×10^{-4} 1.3×10^{-4} 1.1×10^{-4} 1.4×10^{-4} 6.7×10^{-4}	AC-DC Active Current Shunt/ SICT-CP-40102

401. DC voltage & current

Measured Quantity Instrument or Gauge	Field Code	Range	CMC (The Confidence Level is about 95 %)	Comments
DC voltage/current calibrators DC Voltage DC Current	40103	(±) 0 mV (0 ~ 10) mV (10 ~ 100) mV 100 mV ~ 1 V (1 ~ 10) V (10 ~ 100) V (100 ~ 1 000) V (±) 0 μA (0 ~ 10) nA 10 nA ~ 1 μA 1 μA ~ 10 A (10 ~ 100) A	26 nV 4.7×10^{-5} 5.3×10^{-6} 2.4×10^{-6} 2.0×10^{-6} 1.4×10^{-6} 2.5×10^{-6} 0.24 nA 2.4×10^{-3} 1.2×10^{-3} 1.3×10^{-5} 4.4×10^{-5}	Reference Multimeter/ SICT-CP-40103
Electrical temperature calibrators TEMPERATURE(SOURCE) T/C RTD DC VOLTAGE(SOURCE)	40104	(-9.835 ~ 0.000) mV 0.000 mV (0.000 ~ 13.421) mV (13.421 ~ 37.005) mV (37.005 ~ 61.017) mV (61.0170 ~ 76.373) mV 0.999 Ω (0.999 ~ 2.499) Ω (2.499 ~ 4.322) Ω (4.322 ~ 100.000) Ω (100.000 ~ 177.155) Ω (177.155 ~ 390.480) Ω (390.480 ~ 627.422) Ω (627.422 ~ 3 233.3) Ω (±) (0 ~ 10) mV (10 ~ 20) mV (20 ~ 30) mV (30 ~ 40) mV (40 ~ 50) mV (50 ~ 60) mV (60 ~ 70) mV (70 ~ 80) mV (80 ~ 90) mV (90 ~ 100) mV (0.1 ~ 0.2) V (0.2 ~ 0.3) V (0.3 ~ 0.6) V (0.6 ~ 0.8) V (0.8 ~ 1) V	0.16 μV 0.13 μV 0.17 μV 0.25 μV 0.34 μV 0.40 μV 0.063 mΩ 2.9×10^{-5} 1.9×10^{-5} 9.1×10^{-6} 8.8×10^{-6} 1.1×10^{-5} 9.9×10^{-6} 1.0×10^{-5} 0.16 μV 9.7×10^{-6} 7.6×10^{-6} 6.6×10^{-6} 6.0×10^{-6} 5.6×10^{-6} 5.4×10^{-6} 5.2×10^{-6} 5.0×10^{-6} 4.9×10^{-6} 3.1×10^{-5} 2.1×10^{-5} 1.6×10^{-5} 9.6×10^{-6} 7.8×10^{-6}	Digital Multimeter/ SICT-CP-40104

401. DC voltage & current

Measured Quantity Instrument or Gauge	Field Code	Range	CMC (The Confidence Level is about 95 %)	Comments
Electrical temperature calibrators TEMPERATURE (MEASURE) T/C	40104	(-9.835 ~ 0.000) mV 0.000 mV (0.000 ~ 13.422) mV (13.422 ~ 28.947) mV (28.947 ~ 45.094) mV (45.094 ~ 53.113) mV (53.113 ~ 76.374) mV	0.59 μV 0.50 μV 0.62 μV 0.75 μV 0.88 μV 0.95 μV 1.1 μV	Digital Multimeter/ SICT-CP-40104
RTD		0.998 Ω (0.999 ~ 2.496) Ω (2.496 ~ 4.315) Ω (4.315 ~ 16.994) Ω (16.994 ~ 100.000) Ω (100.000 ~ 177.149) Ω (177.149 ~ 313.702) Ω (313.702 ~ 627.408) Ω (627.4082 ~ 3 233.4) Ω	0.73 mΩ 2.9×10^{-4} 1.7×10^{-4} 6.4×10^{-5} 5.5×10^{-5} 6.1×10^{-5} 6.8×10^{-5} 6.0×10^{-5} 9.9×10^{-5}	
DC VOLTAGE (MEASURE)		(±) (0 ~ 10) mV (10 ~ 20) mV (20 ~ 30) mV (30 ~ 40) mV (40 ~ 50) mV (50 ~ 60) mV (60 ~ 70) mV (70 ~ 80) mV (80 ~ 90) mV (90 ~ 100) mV (0.1 ~ 0.2) V (0.2 ~ 0.3) V (0.3 ~ 0.6) V (0.6 ~ 0.8) V (0.8 ~ 1) V (1 ~ 2) V (2 ~ 4) V (4 ~ 8) V (8 ~ 10) V (10 ~ 20) V (20 ~ 40) V (40 ~ 70) V (70 ~ 100) V (100 ~ 200) V (200 ~ 300) V	0.59 μV 3.4×10^{-5} 2.5×10^{-5} 2.1×10^{-5} 1.8×10^{-5} 1.7×10^{-5} 1.6×10^{-5} 1.5×10^{-5} 1.4×10^{-5} 1.3×10^{-5} 3.2×10^{-5} 2.2×10^{-5} 1.4×10^{-5} 1.0×10^{-5} 9.6×10^{-6} 6.6×10^{-6} 5.6×10^{-6} 4.8×10^{-6} 4.4×10^{-6} 9.1×10^{-6} 7.9×10^{-6} 6.9×10^{-6} 6.4×10^{-6} 7.8×10^{-6} 2.2×10^{-5}	
RESISTANCE (MEASURE)		0 Ω (0 ~ 1) Ω (1 ~ 10) Ω (10 ~ 100) Ω (0.1 ~ 1) kΩ (1 ~ 10) kΩ (10 ~ 20) kΩ (20 ~ 30) kΩ (30 ~ 40) kΩ (40 ~ 50) kΩ	0.098 mΩ 6.4×10^{-5} 1.1×10^{-5} 9.6×10^{-6} 6.5×10^{-5} 6.1×10^{-5} 6.7×10^{-5} 6.2×10^{-5} 5.9×10^{-5} 5.8×10^{-5}	

401. DC voltage & current

Measured Quantity Instrument or Gauge	Field Code	Range	CMC (The Confidence Level is about 95 %)	Comments
DC current shunts Resistance	40105	5 $\mu\Omega$ (0.005 ~ 0.1) m Ω (0.1 ~ 0.2) m Ω (0.2 ~ 1) m Ω (1 ~ 10) m Ω (10 ~ 100) m Ω (0.1 ~ 1) Ω (1 ~ 10) Ω (10 ~ 100) Ω (0.1 ~ 1) k Ω (1 ~ 10) k Ω (10 ~ 100) k Ω	1.0 n Ω 2.0×10^{-4} 1.9×10^{-4} 1.5×10^{-4} 1.1×10^{-6} 3.9×10^{-6} 6.3×10^{-7} 6.7×10^{-7} 7.3×10^{-7} 6.6×10^{-7} 6.4×10^{-7} 1.6×10^{-6}	Trans Conductance Amplifier/ SICT-CP-40105
Galvanometers/null detectors DC Voltage	40106	(\pm) (100 ~ 300) μ V 300 μ V ~ 1 mV 1 mV ~ 1 000 V	1.4×10^{-2} 1.2×10^{-2} 6.8×10^{-3}	Calibrator/ SICT-CP-40106
Potentiometers DC Voltage	40107	100 μ V ~ 300 μ V 300 μ V ~ 1 mV 1 mV ~ 3 mV 3 mV ~ 1 000 V	5.1×10^{-3} 1.7×10^{-3} 6.0×10^{-4} 3.0×10^{-4}	Calibrator/ SICT-CP-40107
DC power supplies DC Voltage DC Current Load regulation Ripple	40108	(\pm) (0 ~ 10) mV (10 ~ 100) mV 100 mV ~ 1 V (1 ~ 100) V (100 ~ 600) V (600 ~ 1 000) V (1 ~ 20) mA (20 ~ 200) mA 200 mA ~ 2 A (2 ~ 20) A (20 ~ 100) A (100 ~ 200) A (200 ~ 1 000) A (0 ~ 2) mV (2 ~ 20) mV (20 ~ 200) mV (0.1 ~ 0.4) mV (0.4 ~ 0.6) mV (0.6 ~ 1) mV (1 ~ 10) mV (10 ~ 50) mV	 5.8 μ V 5.8×10^{-4} 5.8×10^{-5} 7.8×10^{-6} 1.2×10^{-5} 6.6×10^{-5} 5.8×10^{-3} 2.9×10^{-4} 3.6×10^{-5} 7.6×10^{-5} 1.8×10^{-4} 4.0×10^{-4} 4.2×10^{-4} 0.18 mV 9.1×10^{-2} 9.4×10^{-3} 6.0×10^{-1} 1.8×10^{-1} 1.2×10^{-1} 7.3×10^{-2} 6.9×10^{-2}	DC Electronics Load/ SICT-CP-40108

401. DC voltage & current

Measured Quantity Instrument or Gauge	Field Code	Range	CMC (The Confidence Level is about 95 %)	Comments
DC voltage dividers DC Voltage Ratio	40110	(±) 1 V ~ 10 V 10 V ~ 1 kV (1 ~ 50) kV (50 ~ 100) kV	2.0×10^{-6} 2.2×10^{-5} 1.6×10^{-4} 1.9×10^{-4}	Calibrator/ SICT-CP-40110
DC voltage standards DC Voltage	40111	1 V 1.018 V 10 V	1.6 μV 0.73 μV 3.1 μV	Null Detector/ SICT-CP-40111
DC voltmeters DC Voltage	40112	(±) 0 mV (0 ~ 2) mV (2 ~ 5) mV (5 ~ 8) mV (8 ~ 20) mV (20 ~ 50) mV (50 ~ 80) mV 80 mV ~ 100 V (100 ~ 1 000) V	0.49 μV 5.0×10^{-4} 2.5×10^{-4} 1.0×10^{-4} 6.2×10^{-5} 2.5×10^{-5} 1.0×10^{-5} 6.7×10^{-6} 8.0×10^{-6}	Calibrator/ SICT-CP-40112
Static/Ionic voltmeters DC Voltage	40113	(±) 0 V 0 V ~ 50 kV	0.58 V 1.3×10^{-2}	DC Power Supply/ SICT-CP-40113

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	50 Hz ~ 100 MHz	6.6×10^{-8}	Standard Capacitance Set/ SICT-CP-40201
Frequency		50 Hz ~ 100 MHz	6.6×10^{-8}	
Capacitance		(1 pF)		
		50 Hz ~ 1 kHz	3.6×10^{-4}	
		1 kHz	3.5×10^{-4}	
		1 kHz ~ 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)		
		50 Hz ~ 5 MHz	3.5×10^{-4}	
		10 MHz	3.7×10^{-4}	
		13 MHz	3.8×10^{-4}	
		(100 pF)		
		50 Hz ~ 3 MHz	3.5×10^{-4}	
		4 MHz	3.6×10^{-4}	
		5 MHz	3.7×10^{-4}	
		10 MHz	4.8×10^{-4}	
		13 MHz	6.0×10^{-4}	
		(1 000 pF)		
		50 Hz ~ 100 Hz	3.5×10^{-4}	
		100 Hz ~ 120 Hz	2.7×10^{-4}	
		120 Hz ~ 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)		
		50 Hz ~ 120 Hz	2.7×10^{-4}	
		120 Hz ~ 100 kHz	8.1×10^{-5}	
		(100 nF)		
		50 Hz ~ 100 Hz	3.8×10^{-4}	
		100 Hz ~ 120 Hz	2.7×10^{-4}	
		120 Hz ~ 100 kHz	8.1×10^{-5}	

402. Resistance, Capacitance and Inductance

Measured Quantity Instrument or Gauge	Field Code	Range	CMC (The Confidence Level is about 95 %)	Comments
Capacitance bridges/indicators Capacitance	40201	(1 μF) 50 Hz ~100 Hz 100 Hz ~120 Hz 120 Hz ~ 1 kHz 1 kHz ~ 10 kHz 10 kHz ~ 100 kHz (10 μF) 120 Hz ~ 1 kHz (100 μF) 120 Hz (1 mF) 120 Hz (3 mF) 120 Hz (10 mF) 120 Hz (30 mF) 120 Hz	 7.4×10^{-4} 2.7×10^{-4} 8.7×10^{-5} 8.1×10^{-5} 1.0×10^{-4} 1.2×10^{-3} 1.3×10^{-3} 1.4×10^{-3} 1.4×10^{-3} 1.4×10^{-3} 2.9×10^{-3}	Standard Capacitance Set/ SICT-CP-40201
Decade capacitors Capacitance	40202	(50 Hz ~ 20 kHz) 1 pF ~ 100 pF 100 pF ~ 1 000 pF 1 000 pF ~ 100 nF 100 nF ~ 1 μF (1 kHz) 1 pF ~ 1 000 pF 1 000 pF ~ 100 nF 100 nF ~ 1 μF	 4.6×10^{-5} 3.8×10^{-5} 2.9×10^{-4} 5.1×10^{-4} 2.4×10^{-5} 5.5×10^{-5} 9.3×10^{-5}	Standard Capacitance Set/ SICT-CP-40202
Standard capacitors Capacitance	40204	(50 Hz ~ 20 kHz) 1 pF ~ 100 pF 100 pF ~ 1 000 pF 1 000 pF ~ 100 nF 100 nF ~ 1 μF (1 kHz) 1 pF ~ 100 pF 100 pF ~ 1 000 pF 1 000 pF ~ 100 nF 100 nF ~ 1 μF	 4.0×10^{-5} 3.0×10^{-5} 2.9×10^{-4} 5.1×10^{-4} 7.1×10^{-6} 6.1×10^{-6} 5.0×10^{-5} 9.0×10^{-5}	Standard Capacitance Set/ Capacitance Bridge SICT-CP-40204

402. Resistance, Capacitance and Inductance

Measured Quantity Instrument or Gauge	Field Code	Range	CMC (The Confidence Level is about 95 %)	Comments
Standard capacitors Capacitance	40204	(1 pF ~ 10 pF) 1 kHz ~ 1 MHz 1 MHz ~ 2 MHz 2 MHz ~ 3 MHz 3 MHz ~ 4 MHz 4 MHz ~ 5 MHz 5 MHz ~ 10 MHz 10 MHz ~ 13 MHz (10 pF ~ 100 pF) 1 kHz ~ 5 MHz 5 MHz ~ 10 MHz 10 MHz ~ 13 MHz (100 pF ~ 1 nF) 1 kHz ~ 1 MHz 1 MHz ~ 3 MHz 3 MHz ~ 4 MHz 4 MHz ~ 5 MHz 5 MHz ~ 10 MHz 10 MHz ~ 13 MHz (1 nF ~ 10 nF) 1 kHz ~ 1 MHz 1 MHz ~ 2 MHz 2 MHz ~ 3 MHz 3 MHz ~ 4 MHz 4 MHz ~ 5 MHz 5 MHz ~ 10 MHz 10 MHz ~ 13 MHz (10 nF ~ 1 μF) 120 Hz ~ 100 kHz (1 μF ~ 10 μF) 120 Hz ~ 100 kHz (10 μF) 120 Hz ~ 1 kHz (30 μF) 120 Hz (100 μF) 120 Hz (300 μF) 120 Hz	2.5×10^{-4} 3.3×10^{-4} 4.7×10^{-4} 6.7×10^{-4} 9.1×10^{-4} 2.5×10^{-3} 3.7×10^{-3} 2.4×10^{-4} 2.6×10^{-4} 2.8×10^{-4} 2.3×10^{-4} 2.4×10^{-4} 2.5×10^{-4} 2.7×10^{-4} 4.0×10^{-4} 5.4×10^{-4} 2.4×10^{-4} 2.8×10^{-4} 3.6×10^{-4} 5.0×10^{-4} 6.6×10^{-4} 1.9×10^{-3} 2.8×10^{-3} 2.3×10^{-4} 2.4×10^{-4} 1.2×10^{-3} 1.3×10^{-3} 1.3×10^{-3} 1.5×10^{-3}	Standard Capacitance Set/ Capacitance Bridge SICT-CP-40204

402. Resistance, Capacitance and Inductance

Measured Quantity Instrument or Gauge	Field Code	Range	CMC (The Confidence Level is about 95 %)	Comments
Standard capacitors Capacitance	40204	(1 mF) 120 Hz (3 mF) 120 Hz (10 mF) 120 Hz (30 mF) 120 Hz	1.4×10^{-3} 1.5×10^{-3} 1.4×10^{-3} 2.9×10^{-3}	Standard Capacitance Set/ Capacitance Bridge SICT-CP-40204
Earth testers Test Voltage Resistance AC Current out Timer	40205	1 V (1 ~ 10) V (10 ~ 50) V (50 ~ 100) V (100 ~ 500) V (500 ~ 1 000) V 1 mΩ (1 ~ 10) mΩ 10 mΩ ~ 100 kΩ 1 A (1 ~ 3) A (3 ~ 30) A (30 ~ 60) A (60 ~ 100) A (100 ~ 150) A (150 ~ 200) A (1 ~ 100) s (100 ~ 1 000) s	6.1×10^{-3} 6.1×10^{-4} 1.2×10^{-3} 6.2×10^{-4} 4.1×10^{-4} 7.1×10^{-4} 8.4×10^{-4} 7.0×10^{-4} 6.5×10^{-4} 1.2×10^{-3} 1.5×10^{-3} 9.7×10^{-4} 8.6×10^{-4} 1.0×10^{-3} 4.3×10^{-3} 3.3×10^{-3} 5.8×10^{-6} 8.2×10^{-6}	Decade Resistor/ SICT-CP-40205
Inductance bridges/indicators Frequency Inductance	40206	50 Hz ~ 100 MHz (1 kHz) 100 μH 1 mH 10 mH 100 mH 1 H 10 H	6.6×10^{-8} 1.7×10^{-4} 1.3×10^{-4} 1.3×10^{-4} 1.3×10^{-4} 1.3×10^{-4} 1.3×10^{-4}	Standard Inductor/ SICT-CP-40206
Inductors Standard Inductance Decade Inductance	40208	(1 kHz) 100 μH 1 mH 10 mH 100 mH 1 H 10 H (1 kHz) 100 μH ~ 10 H	27 nH 0.24 μH 2.4 μH 24 μH 0.24 mH 2.4 mH 3.5×10^{-3}	Standard Inductor/ SICT-CP-40208

402. Resistance, Capacitance and Inductance

Measured Quantity Instrument or Gauge	Field Code	Range	CMC (The Confidence Level is about 95 %)	Comments	
Insulation testers	40210	AC Voltage (1 ~ 10) V (10 ~ 100) V (100 ~ 1 000) V	9.0×10^{-5}	High Resistance Decade/ SICT-CP-40210	
			1.0×10^{-4}		
			3.7×10^{-4}		
Insulation Voltage		(1 ~ 10) V	6.1×10^{-4}		
		(10 ~ 50) V	2.5×10^{-4}		
		(50 ~ 100) V	1.2×10^{-4}		
		(100 ~ 500) V	2.5×10^{-4}		
		(500 ~ 1 000) V	1.2×10^{-4}		
		(1 000 ~ 10 000) V	6.5×10^{-3}		
Insulation Resistance		(1 ~ 10) k Ω	8.1×10^{-5}		
		(10 ~ 100) k Ω	7.8×10^{-5}		
		100 k Ω ~ 1 M Ω	5.5×10^{-5}		
		(1 ~ 10) M Ω	1.4×10^{-4}		
	10 M Ω ~ 1 G Ω	7.7×10^{-4}			
	(1 ~ 10) G Ω	1.1×10^{-3}			
	(10 ~ 100) G Ω	1.3×10^{-3}			
100 G Ω ~ 1 T Ω	2.5×10^{-3}				
Q-meters	40211	Frequency Test Quality Factor 60 Hz ~ 100 MHz 0 ~ 1 000	6.6×10^{-8}	Universal Counter/ SICT-CP-40211	
			9.4×10^{-4}		
Resistance bridges & similar instruments	40213	Resistance(Rheostat Arm)	1 m Ω	1.3×10^{-6}	Standard Resistance Set/ SICT-CP-40213
			1 m Ω ~ 10 m Ω	7.0×10^{-7}	
			10 m Ω ~ 100 m Ω	3.7×10^{-6}	
			100 m Ω ~ 1 Ω	1.3×10^{-7}	
			1 Ω ~ 10 Ω	2.7×10^{-7}	
			10 Ω ~ 100 Ω	4.0×10^{-7}	
			100 Ω ~ 1 k Ω	2.4×10^{-7}	
			1 k Ω ~ 10 k Ω	2.9×10^{-7}	
			10 k Ω ~ 100 k Ω	1.1×10^{-6}	
			100 k Ω ~ 1 M Ω	1.2×10^{-6}	
			1 M Ω ~ 10 M Ω	4.8×10^{-6}	
			10 M Ω ~ 100 M Ω	9.5×10^{-6}	
Resistance(Ratio Arm)			1 m Ω	1.3×10^{-6}	
		1 m Ω ~ 10 m Ω	7.0×10^{-7}		
		10 m Ω ~ 100 m Ω	3.7×10^{-6}		
		100 m Ω ~ 1 Ω	1.3×10^{-7}		
		1 Ω ~ 10 Ω	2.7×10^{-7}		
		10 Ω ~ 100 Ω	4.0×10^{-7}		
		100 Ω ~ 1 k Ω	2.4×10^{-7}		
		1 k Ω ~ 10 k Ω	2.9×10^{-7}		
		10 k Ω ~ 100 k Ω	1.1×10^{-6}		
		100 k Ω ~ 1 M Ω	1.2×10^{-6}		
		1 M Ω ~ 10 M Ω	4.8×10^{-6}		
		10 M Ω ~ 100 M Ω	9.5×10^{-6}		

402. Resistance, Capacitance and Inductance

Measured Quantity Instrument or Gauge	Field Code	Range	CMC (The Confidence Level is about 95 %)	Comments	
Resistance meters DC Resistance	40214	1 mΩ ~ 10 mΩ	3.1×10^{-6}	Standard Resistance Set/ SICT-CP-40214	
		10 mΩ ~ 1 Ω	1.1×10^{-6}		
		1 Ω ~ 10 Ω	2.7×10^{-7}		
		10 Ω ~ 10 kΩ	4.0×10^{-7}		
		10 kΩ ~ 100 kΩ	9.1×10^{-7}		
		100 kΩ ~ 1 MΩ	1.1×10^{-6}		
		1 MΩ ~ 10 MΩ	3.3×10^{-6}		
		10 MΩ ~ 100 MΩ	4.4×10^{-6}		
		100 MΩ ~ 1 GΩ	8.4×10^{-4}		
		1 GΩ ~ 10 GΩ	1.1×10^{-3}		
		10 GΩ ~ 100 GΩ	1.4×10^{-3}		
		100 GΩ ~ 1 TΩ	2.5×10^{-3}		
		Frequency	1 kHz		6.2×10^{-7}
		AC Voltage	10 mV ~ 100 mV		4.3×10^{-3}
100 mV ~ 10 V	1.4×10^{-4}				
10 V	9.4×10^{-5}				
AC Resistance	(1 kHz)				
	1 mΩ ~ 100 mΩ	6.1×10^{-4}			
	100 mΩ ~ 1 Ω	1.7×10^{-4}			
		1 Ω ~ 100 kΩ	1.3×10^{-4}		
Resistors DC Resistance	40215	1 mΩ	1.6×10^{-6}	Standard Resistance Set/ SICT-CP-40215	
		1 mΩ ~ 10 mΩ	1.1×10^{-6}		
		10 mΩ ~ 100 mΩ	3.9×10^{-6}		
		100 mΩ ~ 1 Ω	6.3×10^{-7}		
		1 Ω ~ 10 Ω	6.7×10^{-7}		
		10 Ω ~ 100 Ω	7.3×10^{-7}		
		100 Ω ~ 1 kΩ	6.6×10^{-7}		
		1 kΩ ~ 10 kΩ	6.4×10^{-7}		
		10 kΩ ~ 100 kΩ	1.6×10^{-6}		
		100 kΩ ~ 1 MΩ	1.8×10^{-6}		
		1 MΩ ~ 10 MΩ	5.0×10^{-6}		
		10 MΩ ~ 100 MΩ	9.6×10^{-6}		
		100 MΩ ~ 1 GΩ	2.3×10^{-4}		
		1 GΩ ~ 10 GΩ	6.9×10^{-4}		
		10 GΩ ~ 100 GΩ	9.3×10^{-4}		
		100 GΩ ~ 1 TΩ	1.4×10^{-3}		
		1 TΩ ~ 10 TΩ	4.1×10^{-3}		
		10 TΩ ~ 100 TΩ	7.6×10^{-3}		
		AC Resistance	(50 Hz ~ 1 kHz)		
			1 mΩ		5.7×10^{-4}
1 mΩ ~ 10 mΩ	5.9×10^{-4}				
10 mΩ ~ 100 mΩ	3.9×10^{-4}				
100 mΩ ~ 1 Ω	2.4×10^{-4}				
		1 Ω ~ 10 Ω	2.5×10^{-4}		

402. Resistance, Capacitance and Inductance

Measured Quantity Instrument or Gauge	Field Code	Range	CMC (The Confidence Level is about 95 %)	Comments			
Resistors AC Resistance	40215	(10 Ω)		Standard Resistance Set/ SICT-CP-40215			
		1 kHz	2.4×10^{-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}				
		(10 Ω ~ 100 Ω)					
		1 kHz	2.4×10^{-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}				
		(100 Ω ~ 1 kΩ)					
		1 kHz	2.4×10^{-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}				
		(1 kΩ ~ 10 kΩ)					
		1 kHz	2.4×10^{-4}				
		100 kHz	3.1×10^{-4}				
		1 MHz	3.8×10^{-4}				
		(10 kΩ ~ 100 kΩ)					
		1 kHz	2.4×10^{-4}				
		100 kHz	3.8×10^{-4}				
		1 MHz	3.8×10^{-4}				
		Decade Resistance					
		0 Ω			62 μΩ		
		0 mΩ ~ 10 mΩ			6.2×10^{-3}		
		10 mΩ ~ 100 mΩ			3.1×10^{-3}		
		100 mΩ ~ 1 Ω			3.1×10^{-4}		
		1 Ω ~ 10 Ω			3.9×10^{-5}		
10 Ω ~ 100 Ω		2.1×10^{-5}					
100 Ω ~ 1 kΩ		2.0×10^{-5}					

402. Resistance, Capacitance and Inductance

Measured Quantity Instrument or Gauge	Field Code	Range	CMC (The Confidence Level is about 95 %)	Comments
Resistors Decade Resistance	40215	1 kΩ ~ 10 kΩ 10 kΩ ~ 100 kΩ 100 kΩ ~ 1 MΩ 1 MΩ ~ 10 MΩ 10 MΩ ~ 100 MΩ 100 MΩ ~ 1 GΩ 1 GΩ ~ 10 GΩ 10 GΩ ~ 100 GΩ 100 GΩ ~ 1 TΩ 1 TΩ ~ 10 TΩ	3.5×10^{-5} 2.1×10^{-5} 2.8×10^{-5} 8.2×10^{-5} 2.0×10^{-4} 2.5×10^{-4} 7.0×10^{-4} 1.0×10^{-3} 1.5×10^{-3} 4.3×10^{-3}	Standard Resistance Set/ SICT-CP-40215
Impedance bridges/LCR meters Frequency AC Voltage Capacitance	40217	50 Hz ~ 100 MHz 1 mV ~ 10 mV 10 mV ~ 100 mV 100 mV ~ 10 V 10 V ~ 100 V (1 pF) 50 Hz ~ 1 kHz 1 kHz 1 kHz ~ 1 MHz 2 MHz 3 MHz 4 MHz 5 MHz 10 MHz 13 MHz (10 pF) 50 Hz ~ 5 MHz 10 MHz 13 MHz (100 pF) 50 Hz ~ 3 MHz 4 MHz 5 MHz 10 MHz 13 MHz (1 000 pF) 50 Hz ~ 100 Hz 100 Hz ~ 120 Hz 120 Hz ~ 1 MHz 2 MHz 3 MHz 4 MHz 5 MHz 10 MHz 13 MHz	6.6×10^{-6} 4.8×10^{-3} 4.3×10^{-4} 1.4×10^{-4} 9.4×10^{-5} 3.6×10^{-4} 3.5×10^{-4} 3.6×10^{-4} 4.2×10^{-4} 5.4×10^{-4} 7.2×10^{-4} 9.5×10^{-4} 2.5×10^{-3} 3.7×10^{-3} 3.5×10^{-4} 3.7×10^{-4} 3.8×10^{-4} 3.5×10^{-4} 3.6×10^{-4} 3.7×10^{-4} 4.8×10^{-4} 6.0×10^{-4} 3.5×10^{-4} 2.7×10^{-4} 3.5×10^{-4} 3.8×10^{-4} 4.5×10^{-4} 5.6×10^{-4} 7.1×10^{-4} 1.9×10^{-3} 2.8×10^{-3}	Standard Capacitor Set, Standard Resistor Set, Standard Inductor/ SICT-CP-40217

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 Capacitance	40217	(10 nF) 50 Hz ~ 120 Hz 120 Hz ~ 100 kHz (100 nF) 50 Hz ~ 100 Hz 100 Hz ~ 120 Hz 120 Hz ~ 100 kHz (1 μF) 50 Hz ~100 Hz 100 Hz ~120 Hz 120 Hz ~ 1 kHz 1 kHz ~ 10 kHz 10 kHz ~ 100 kHz (10 μF) 120 Hz ~ 1 kHz (100 μF) 120 Hz (1 mF) 120 Hz (3 mF) 120 Hz (10 mF) 120 Hz (30 mF) 120 Hz	 2.7×10^{-4} 8.1×10^{-5} 3.8×10^{-4} 2.7×10^{-4} 8.1×10^{-5} 7.4×10^{-4} 2.7×10^{-4} 8.7×10^{-5} 8.1×10^{-5} 1.0×10^{-4} 1.2×10^{-3} 1.3×10^{-3} 1.4×10^{-3} 1.4×10^{-3} 2.9×10^{-3}	Standard Capacitor Set, Standard Resistor Set, Standard Inductor/ SICT-CP-40217
Dissipation Factor		(1 pF) 1 kHz ~ 5 MHz 5 MHz ~ 13 MHz (10 pF) 1 kHz ~ 13 MHz (100 pF) 1 kHz ~ 5 MHz 5 MHz ~ 13 MHz (1 000 pF) 1 kHz ~ 5 MHz 5 MHz ~ 13 MHz	 0.000 23 0.000 84 0.000 15 0.000 13 0.000 27 0.000 24 0.000 86	

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, Standard Resistor Set, Standard Inductor/ SICT-CP-40217
Dissipation Factor		(10 nF) 120 Hz ~ 100 kHz	0.000 46	
		(100 nF) 120 Hz ~ 100 kHz	0.000 58	
		(1 μF) 120 Hz ~ 100 kHz	0.000 81	
Resistance		(1 mΩ) 50 Hz ~ 1 kHz 1 kHz	5.5×10^{-3} 6.1×10^{-4}	
		(10 mΩ) 50 Hz ~ 1 kHz 1 kHz	9.1×10^{-4} 6.1×10^{-4}	
		(100 mΩ) 50 Hz ~ 1 kHz 1 kHz	7.1×10^{-4} 1.7×10^{-4}	
		(1 Ω) 50 Hz ~ 1 kHz 1 kHz	6.8×10^{-4} 1.3×10^{-4}	
		(10 Ω) 50 Hz ~ 1 kHz 1 kHz 1 kHz ~ 1 MHz 1 MHz ~ 2 MHz 2 MHz ~ 3 MHz 3 MHz ~ 4 MHz 4 MHz ~ 5 MHz 5 MHz ~ 10 MHz 10 MHz ~ 13 MHz	8.7×10^{-4} 1.3×10^{-4} 3.2×10^{-4} 5.1×10^{-4} 6.1×10^{-4} 7.1×10^{-4} 1.0×10^{-3} 4.0×10^{-3} 6.0×10^{-3}	
		(100 Ω) 50 Hz ~ 1 kHz 1 kHz 1 kHz ~ 1 MHz 1 MHz ~ 2 MHz 2 MHz ~ 5 MHz 5 MHz ~ 10 MHz 10 MHz ~ 13 MHz	6.2×10^{-4} 1.3×10^{-4} 3.2×10^{-4} 4.2×10^{-4} 5.1×10^{-4} 2.0×10^{-3} 3.0×10^{-3}	
		(1 kΩ) 1 kHz 1 kHz ~ 3 MHz 3 MHz ~ 4 MHz 4 MHz ~ 5 MHz 5 MHz ~ 10 MHz 10 MHz ~ 13 MHz	1.3×10^{-4} 3.2×10^{-4} 4.2×10^{-4} 5.1×10^{-4} 2.0×10^{-3} 3.0×10^{-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	Resistance (10 kΩ) 1 kHz 1 kHz ~ 100 kHz 100 kHz ~ 1 MHz	1.3×10^{-4}	Standard Capacitor Set, Standard Resistor Set, Standard Inductor/ SICT-CP-40217	
			2.3×10^{-4}		
			3.2×10^{-4}		
			(100 kΩ) 1 kHz 100 kHz ~ 1 MHz		1.3×10^{-4}
					3.2×10^{-4}
					Inductance (1 kHz) 100 μH 1 mH 10 mH 100 mH 1 H 10 H
		1.3×10^{-4}			
		1.3×10^{-4}			
		1.3×10^{-4}			
		1.3×10^{-4}			
		1.3×10^{-4}			
		DC Bias	(±)		
			0 μV		0.68 μV
			0 μV ~ 1 V		8.2×10^{-6}
			1 V ~ 10 V		7.7×10^{-6}
		DC Current	10 V ~ 100 V		8.5×10^{-6}
			0 μA		5.8 μA
			0 μA ~ 2 A		3.6×10^{-5}
			2 A ~ 20 A		7.6×10^{-5}
					20 A ~ 100 A

403. AC voltage, current & power

Measured Quantity Instrument or Gauge	Field Code	Range	CMC (The Confidence Level is about 95 %)	Comments
Clamp ammeters/voltmeters AC Current	40302	(1 A ~ 2 A) 40 Hz ~ 1 kHz 1 kHz ~ 5 kHz 5 kHz ~ 10 kHz (2 A ~ 3 A) 40 Hz ~ 100 Hz 1 kHz ~ 5 kHz 5 kHz ~ 10 kHz (3 A ~ 9 A) 40 Hz ~ 100 Hz 1 kHz ~ 5 kHz 5 kHz ~ 10 kHz (9 A ~ 10 A) 40 Hz ~ 100 Hz 1 kHz ~ 5 kHz 5 kHz ~ 10 kHz (10 A ~ 30 A) 40 Hz ~ 100 Hz 1 kHz ~ 5 kHz 5 kHz ~ 10 kHz (30 A ~ 90 A) 40 Hz ~ 100 Hz 1 kHz ~ 5 kHz 5 kHz ~ 10 kHz (90 A ~ 100 A) 40 Hz ~ 100 Hz 1 kHz ~ 5 kHz 5 kHz ~ 10 kHz (100 A ~ 1 000 A) 40 Hz 40 Hz ~ 1 kHz (1 000 A ~ 2 500 A) 40 Hz ~ 60 Hz (2 500 A ~ 3 000 A) 60 Hz (3 000 A ~ 10 000 A) 60 Hz	 4.3×10^{-4} 6.6×10^{-4} 4.6×10^{-3} 5.7×10^{-4} 9.7×10^{-4} 4.5×10^{-3} 4.4×10^{-4} 8.2×10^{-4} 4.4×10^{-3} 6.4×10^{-4} 8.5×10^{-4} 4.3×10^{-3} 3.5×10^{-4} 7.0×10^{-4} 6.3×10^{-2} 2.2×10^{-4} 6.1×10^{-4} 5.6×10^{-2} 1.8×10^{-4} 5.4×10^{-4} 4.3×10^{-2} 1.3×10^{-3} 2.5×10^{-3} 1.3×10^{-3} 1.3×10^{-3} 4.6×10^{-4}	Power Calibrator, Calibrator/ SICT-CP-40302

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	0 μ A	9.2 nA	Power Calibrator, Calibrator/ SICT-CP-40302
DC Current		(0 ~ 0.1) μ A	9.2×10^{-2}	
		(0.1 ~ 0.2) μ A	4.6×10^{-2}	
		(0.2 ~ 0.3) μ A	3.1×10^{-2}	
		(0.3 ~ 0.9) μ A	2.3×10^{-2}	
		(0.9 ~ 1) μ A	9.3×10^{-3}	
		(1 ~ 2) μ A	4.7×10^{-3}	
		(2 ~ 3) μ A	3.1×10^{-3}	
		(3 ~ 9) μ A	2.3×10^{-3}	
		(9 ~ 10) μ A	9.6×10^{-4}	
		(10 ~ 20) μ A	5.1×10^{-4}	
		(20 ~ 30) μ A	3.5×10^{-4}	
		(30 ~ 50) μ A	2.7×10^{-4}	
		(50 ~ 90) μ A	1.9×10^{-4}	
		(90 ~ 100) μ A	6.2×10^{-4}	
		(100 ~ 200) μ A	3.2×10^{-4}	
		(200 ~ 700) μ A	2.2×10^{-4}	
		(700 ~ 900) μ A	9.3×10^{-5}	
		(0.9 ~ 1) mA	6.1×10^{-4}	
		(1 ~ 2) mA	3.1×10^{-4}	
		(2 ~ 7) mA	2.2×10^{-4}	
		(7 ~ 9) mA	9.1×10^{-5}	
		(9 ~ 10) mA	6.1×10^{-4}	
		(10 ~ 20) mA	3.1×10^{-4}	
		(20 ~ 70) mA	2.2×10^{-4}	
		(70 ~ 90) mA	9.9×10^{-5}	
		(90 ~ 100) mA	6.1×10^{-4}	
		(100 ~ 200) mA	3.1×10^{-4}	
(200 ~ 700) mA		2.5×10^{-4}		
(700 ~ 900) mA		1.3×10^{-4}		
(0.9 ~ 1) A		6.4×10^{-4}		
(1 ~ 2) A		3.4×10^{-4}		
(2 ~ 3) A		4.5×10^{-4}		
(3 ~ 7) A	3.6×10^{-4}			
(7 ~ 9) A	2.2×10^{-4}			
(9 ~ 10) A	6.4×10^{-4}			
(10 ~ 30) A	3.4×10^{-4}			
(30 ~ 70) A	2.6×10^{-4}			
(70 ~ 100) A	1.7×10^{-4}			
(100 ~ 2 500) A	1.4×10^{-3}			
AC Voltage	(1 mV)			
	40 Hz ~ 10 kHz	4.8×10^{-3}		
	10 kHz ~ 50 kHz	5.0×10^{-3}		
		50 kHz ~ 100 kHz	6.5×10^{-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 AC Voltage	40302	(1 mV ~ 2 mV)		Power Calibrator, Calibrator/ SICT-CP-40302
		40 Hz ~ 10 kHz	2.4×10^{-3}	
		10 kHz ~ 50 kHz	2.6×10^{-3}	
		50 kHz ~ 100 kHz	3.5×10^{-3}	
		(2 mV ~ 5 mV)		
		40 Hz ~ 10 kHz	1.7×10^{-3}	
		10 kHz ~ 50 kHz	1.9×10^{-3}	
		50 kHz ~ 100 kHz	2.7×10^{-3}	
		(5 mV ~ 7 mV)		
		40 Hz ~ 10 kHz	8.9×10^{-4}	
		10 kHz ~ 50 kHz	1.0×10^{-3}	
		50 kHz ~ 100 kHz	1.6×10^{-3}	
		(7 mV ~ 9 mV)		
		40 Hz ~ 10 kHz	6.9×10^{-4}	
		10 kHz ~ 50 kHz	8.4×10^{-3}	
		50 kHz ~ 100 kHz	1.4×10^{-3}	
		(9 mV ~ 10 mV)		
		40 Hz ~ 10 kHz	8.3×10^{-4}	
		10 kHz ~ 50 kHz	9.4×10^{-4}	
		50 kHz ~ 100 kHz	1.3×10^{-3}	
		(10 mV ~ 30 mV)		
		40 Hz ~ 10 kHz	4.5×10^{-4}	
		10 kHz ~ 50 kHz	5.6×10^{-4}	
		50 kHz ~ 100 kHz	1.1×10^{-3}	
		(30 mV ~ 50 mV)		
		40 Hz ~ 10 kHz	3.2×10^{-4}	
		10 kHz ~ 50 kHz	4.0×10^{-4}	
		50 kHz ~ 100 kHz	9.0×10^{-4}	
(50 mV ~ 70 mV)				
40 Hz ~ 10 kHz	2.3×10^{-4}			
10 kHz ~ 50 kHz	3.1×10^{-4}			
50 kHz ~ 100 kHz	7.1×10^{-4}			
(70 mV ~ 90 mV)				
40 Hz ~ 10 kHz	1.9×10^{-4}			
10 kHz ~ 50 kHz	2.6×10^{-4}			
50 kHz ~ 100 kHz	6.2×10^{-4}			
(90 mV ~ 100 mV)				
40 Hz ~ 10 kHz	1.6×10^{-4}			
10 kHz ~ 50 kHz	2.4×10^{-4}			
50 kHz ~ 100 kHz	5.7×10^{-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 AC Voltage	40302	(100 mV ~ 200 mV)		Power Calibrator, Calibrator/ SICT-CP-40302
		40 Hz ~ 10 kHz	1.1×10^{-4}	
		10 kHz ~ 50 kHz	1.8×10^{-4}	
		50 kHz ~ 100 kHz	4.6×10^{-4}	
		(200 mV ~ 500 mV)		
		40 Hz ~ 10 kHz	8.8×10^{-5}	
		10 kHz ~ 50 kHz	1.4×10^{-4}	
		50 kHz ~ 100 kHz	2.2×10^{-4}	
		(500 mV ~ 700 mV)		
		40 Hz ~ 10 kHz	7.1×10^{-5}	
		10 kHz ~ 50 kHz	1.0×10^{-4}	
		50 kHz ~ 100 kHz	1.6×10^{-4}	
		(700 mV ~ 900 mV)		
		40 Hz ~ 10 kHz	6.5×10^{-5}	
		10 kHz ~ 50 kHz	9.5×10^{-4}	
		50 kHz ~ 100 kHz	1.4×10^{-4}	
		(900 mV ~ 1 V)		
		40 Hz ~ 10 kHz	8.6×10^{-5}	
		10 kHz ~ 50 kHz	1.1×10^{-4}	
		50 kHz ~ 100 kHz	1.5×10^{-4}	
		(1 V ~ 2 V)		
		40 Hz ~ 10 kHz	6.4×10^{-5}	
		10 kHz ~ 50 kHz	9.0×10^{-5}	
		50 kHz ~ 100 kHz	1.2×10^{-4}	
		(2 V ~ 5 V)		
		40 Hz	1.3×10^{-4}	
		40 Hz ~ 10 kHz	9.7×10^{-5}	
		10 kHz ~ 50 kHz	1.5×10^{-4}	
		50 kHz ~ 100 kHz	2.2×10^{-4}	
		(5 V ~ 7 V)		
		40 Hz	8.2×10^{-5}	
		40 Hz ~ 10 kHz	6.8×10^{-5}	
		10 kHz ~ 50 kHz	1.1×10^{-4}	
		50 kHz ~ 100 kHz	1.5×10^{-4}	
		(7 V ~ 9 V)		
		40 Hz	7.0×10^{-5}	
40 Hz ~ 10 kHz	6.2×10^{-5}			
10 kHz ~ 50 kHz	9.9×10^{-5}			
50 kHz ~ 100 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
Clamp ammeters/voltmeters AC Voltage	40302	(9 V ~ 10 V)		Power Calibrator, Calibrator/ SICT-CP-40302
		40 Hz	8.9×10^{-5}	
		40 Hz ~ 10 kHz	8.4×10^{-5}	
		10 kHz ~ 50 kHz	1.1×10^{-4}	
		50 kHz ~ 100 kHz	1.4×10^{-4}	
		(10 V ~ 20 V)		
		40 Hz ~ 10 kHz	6.2×10^{-5}	
		10 kHz ~ 50 kHz	9.0×10^{-5}	
		50 kHz ~ 100 kHz	1.1×10^{-4}	
		(20 V ~ 50 V)		
		40 Hz ~ 10 kHz	1.6×10^{-4}	
		10 kHz ~ 50 kHz	1.7×10^{-4}	
		50 kHz ~ 100 kHz	3.4×10^{-4}	
		(50 V ~ 70 V)		
		40 Hz	9.8×10^{-5}	
		40 Hz ~ 10 kHz	8.3×10^{-5}	
		10 kHz ~ 50 kHz	1.2×10^{-4}	
		50 kHz ~ 100 kHz	2.4×10^{-4}	
		(70 V ~ 90 V)		
		40 Hz	8.5×10^{-5}	
		40 Hz ~ 10 kHz	7.5×10^{-5}	
		10 kHz ~ 50 kHz	1.1×10^{-4}	
		50 kHz ~ 100 kHz	2.2×10^{-4}	
		(90 V ~ 100 V)		
		40 Hz ~ 10 kHz	9.9×10^{-5}	
		10 kHz ~ 50 kHz	1.2×10^{-4}	
		50 kHz ~ 100 kHz	2.2×10^{-4}	
		(100 V ~ 200 V)		
40 Hz ~ 10 kHz	7.3×10^{-5}			
10 kHz ~ 50 kHz	1.0×10^{-4}			
50 kHz ~ 100 kHz	1.9×10^{-4}			
(200 V ~ 500 V)				
40 Hz ~ 10 kHz	1.4×10^{-4}			
10 kHz ~ 50 kHz	2.2×10^{-4}			
50 kHz ~ 100 kHz	6.6×10^{-4}			
(500 V ~ 1 000 V)				
40 Hz ~ 10 kHz	1.5×10^{-4}			
10 kHz ~ 50 kHz	2.2×10^{-4}			
50 kHz ~ 100 kHz	9.9×10^{-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 DC Voltage	40302	0 mV (0 ~ 10) mV (10 ~ 20) mV (20 ~ 30) mV (30 ~ 60) mV (60 ~ 70) mV (70 ~ 80) mV (80 ~ 100) mV (100 ~ 200) mV (200 ~ 300) mV (300 ~ 800) mV (800 ~ 900) mV (0.9 ~ 1) V (1 ~ 2) V (2 ~ 3) V (3 ~ 6) V (6 ~ 7) V (7 ~ 9) V (9 ~ 10) V (10 ~ 20) V (20 ~ 30) V (30 ~ 80) V (80 ~ 90) V (90 ~ 100) V (100 ~ 200) V (200 ~ 300) V (300 ~ 500) V (500 ~ 900) V (900 ~ 1 000) V	61 μV 6.1×10^{-3} 3.1×10^{-3} 2.0×10^{-3} 1.5×10^{-3} 8.7×10^{-4} 7.6×10^{-4} 6.8×10^{-4} 3.3×10^{-5} 2.2×10^{-5} 1.7×10^{-5} 9.6×10^{-6} 6.1×10^{-5} 3.1×10^{-5} 2.1×10^{-5} 1.6×10^{-5} 9.8×10^{-6} 8.8×10^{-6} 6.1×10^{-5} 3.1×10^{-5} 2.2×10^{-5} 1.7×10^{-5} 9.3×10^{-6} 6.1×10^{-5} 3.2×10^{-5} 2.3×10^{-5} 1.8×10^{-5} 1.3×10^{-5} 6.2×10^{-5}	Power Calibrator, Calibrator/ SICT-CP-40302
Resistance		0 Ω (0 ~ 9) Ω (9 ~ 100) Ω (100 ~ 900) Ω (0.9 ~ 9) kΩ (9 ~ 90) kΩ 90 kΩ ~ 1 MΩ (1 ~ 10) MΩ (10 ~ 100) MΩ	0.61 mΩ 0.66 mΩ 6.2 mΩ 9.2 mΩ 92 mΩ 1.1 Ω 63 Ω 0.77 kΩ 13 kΩ	

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 Voltage	40303	(1 mV) 10 Hz ~ 10 kHz 10 kHz ~ 100 kHz 100 kHz ~ 1 MHz (1 mV ~ 2 mV) 10 Hz ~ 10 kHz 10 kHz ~ 100 kHz 100 kHz ~ 1 MHz (2 mV ~ 5 mV) 10 Hz 10 Hz ~ 10 kHz 10 kHz ~ 100 kHz 100 kHz ~ 1 MHz (5 mV ~ 10 mV) 10 Hz 10 Hz ~ 10 kHz 10 kHz ~ 100 kHz 100 kHz ~ 1 MHz (10 mV ~ 20 mV) 10 Hz 10 Hz 10 Hz ~ 10 kHz 10 kHz ~ 100 kHz 100 kHz ~ 1 MHz (20 mV ~ 50 mV) 10 Hz 10 Hz ~ 10 kHz 10 kHz ~ 100 kHz 100 kHz ~ 1 MHz (50 mV ~ 100 mV) 10 Hz 10 Hz ~ 10 kHz 10 kHz ~ 100 kHz 100 kHz ~ 1 MHz (100 mV ~ 200 mV) 10 Hz 10 Hz ~ 10 kHz 10 kHz ~ 100 kHz 100 kHz ~ 1 MHz (200 mV ~ 500 mV) 10 Hz 10 Hz ~ 10 kHz 10 kHz ~ 100 kHz 100 kHz ~ 1 MHz	1.7×10^{-3} 3.0×10^{-3} 1.2×10^{-2} 1.1×10^{-3} 1.7×10^{-3} 7.7×10^{-3} 6.4×10^{-4} 5.8×10^{-4} 1.0×10^{-3} 5.4×10^{-3} 4.2×10^{-4} 3.5×10^{-4} 5.8×10^{-4} 3.9×10^{-3} 1.8×10^{-4} 1.4×10^{-4} 2.2×10^{-4} 2.2×10^{-3} 1.4×10^{-4} 9.2×10^{-5} 1.6×10^{-4} 1.4×10^{-3} 1.1×10^{-4} 6.6×10^{-5} 1.2×10^{-4} 1.3×10^{-3} 8.2×10^{-5} 3.9×10^{-5} 7.6×10^{-5} 1.1×10^{-3} 7.8×10^{-5} 3.6×10^{-5} 7.0×10^{-5} 1.1×10^{-3}	Alternating Voltage Measurement Standard, Reference Multimeter, Current Shunt/ SICT-CP-40303

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 Voltage	40303	(500 mV ~ 1 V) 10 Hz 10 Hz ~ 10 kHz 10 kHz ~ 100 kHz 100 kHz ~ 1 MHz	 7.6×10^{-5} 3.3×10^{-5} 6.6×10^{-5} 1.1×10^{-3}	Alternating Voltage Measurement Standard, Reference Multimeter, Current Shunt/ SICT-CP-40303
		(1 V ~ 2 V) 10 Hz 10 Hz ~ 10 kHz 10 kHz ~ 100 kHz 100 kHz ~ 1 MHz	 7.1×10^{-5} 2.7×10^{-5} 5.8×10^{-5} 1.0×10^{-3}	
		(2 V ~ 5 V) 10 Hz 10 Hz ~ 10 kHz 10 kHz ~ 100 kHz 100 kHz ~ 1 MHz	 7.2×10^{-5} 2.6×10^{-5} 7.5×10^{-5} 1.4×10^{-3}	
		(5 V ~ 20 V) 10 Hz 10 Hz ~ 10 kHz 10 kHz ~ 100 kHz 100 kHz ~ 1 MHz	 7.2×10^{-5} 2.8×10^{-5} 7.5×10^{-5} 1.4×10^{-3}	
		(20 V ~ 70 V) 10 Hz 10 Hz ~ 10 kHz 10 kHz ~ 100 kHz	 7.3×10^{-5} 3.2×10^{-5} 8.4×10^{-5}	
		(70 V ~ 200 V) 10 Hz 10 Hz ~ 10 kHz 10 kHz ~ 100 kHz	 7.4×10^{-5} 3.3×10^{-5} 8.5×10^{-5}	
		(200 V ~ 1 000 V) 10 Hz 10 Hz ~ 10 kHz 10 kHz ~ 100 kHz	 7.7×10^{-5} 3.3×10^{-5} 5.8×10^{-4}	
		(100 µA) 10 Hz 10 Hz ~ 1 kHz 1 kHz ~ 10 kHz	 7.1×10^{-4} 5.6×10^{-4} 2.2×10^{-3}	
		(100 µA ~ 1 mA) 10 Hz 10 Hz ~ 10 kHz	 2.5×10^{-4} 2.4×10^{-4}	
		(1 mA ~ 10 mA) 10 Hz 10 Hz ~ 10 kHz	 2.4×10^{-4} 6.0×10^{-5}	
		AC Current		

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 mA ~ 100 mA) 10 Hz 10 Hz ~ 10 kHz (100 mA ~ 1 A) 10 Hz 10 Hz ~ 10 kHz (1 A ~ 10 A) 10 Hz 10 Hz ~ 1 kHz 1 kHz ~ 10 kHz (10 A ~ 20 A) 10 Hz 10 Hz ~ 1 kHz 1 kHz ~ 10 kHz (20 A ~ 50 A) 10 Hz 10 Hz ~ 1 kHz 1 kHz ~ 10 kHz (50 A ~ 100 A) 10 Hz 10 Hz ~ 1 kHz 1 kHz ~ 5 kHz (100 A ~ 200 A) 60 Hz	 2.4×10^{-4} 5.4×10^{-5} 2.5×10^{-4} 9.0×10^{-5} 9.4×10^{-5} 5.9×10^{-5} 6.6×10^{-5} 8.9×10^{-5} 5.5×10^{-5} 6.2×10^{-5} 8.3×10^{-5} 5.0×10^{-5} 5.9×10^{-5} 8.9×10^{-5} 5.9×10^{-5} 7.7×10^{-5} 4.5×10^{-4}	Alternating Voltage Measurement Standard, Reference Multimeter, Current Shunt/ SICT-CP-40303
Wattmeter calibrators AC Voltage	40304	(1 mV) 10 Hz ~ 10 kHz 10 kHz ~ 100 kHz 100 kHz ~ 1 MHz (1 mV ~ 2 mV) 10 Hz ~ 10 kHz 10 kHz ~ 100 kHz 100 kHz ~ 1 MHz (2 mV ~ 5 mV) 10 Hz 10 Hz ~ 10 kHz 10 kHz ~ 100 kHz 100 kHz ~ 1 MHz (5 mV ~ 10 mV) 10 Hz 10 Hz ~ 10 kHz 10 kHz ~ 100 kHz 100 kHz ~ 1 MHz	 1.7×10^{-3} 3.0×10^{-3} 1.2×10^{-2} 1.1×10^{-3} 1.7×10^{-3} 7.6×10^{-3} 6.4×10^{-4} 5.8×10^{-4} 1.0×10^{-3} 5.4×10^{-3} 4.2×10^{-4} 3.5×10^{-4} 5.8×10^{-4} 3.9×10^{-3}	Power Standard, Counter/ SICT-CP-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	(5 V ~ 20 V)		Power Standard, Counter/ SICT-CP-40304
		AC Voltage		
		10 Hz	7.2×10^{-5}	
		10 Hz ~ 10 kHz	2.8×10^{-5}	
		10 kHz ~ 100 kHz	7.5×10^{-5}	
		100 kHz ~ 1 MHz	1.4×10^{-3}	
		(20 V ~ 70 V)		
		10 Hz	7.3×10^{-5}	
		10 Hz ~ 10 kHz	3.2×10^{-5}	
		10 kHz ~ 100 kHz	8.4×10^{-5}	
		(70 V ~ 200 V)		
		10 Hz	7.4×10^{-5}	
		10 Hz ~ 10 kHz	3.3×10^{-5}	
		10 kHz ~ 100 kHz	8.5×10^{-5}	
		(200 V ~ 1 000 V)		
		10 Hz	7.7×10^{-5}	
		10 Hz ~ 10 kHz	3.3×10^{-5}	
		10 kHz ~ 100 kHz	5.8×10^{-4}	
		AC Current		
		(100 μ A)		
		10 Hz	7.1×10^{-4}	
		10 Hz ~ 1 kHz	5.6×10^{-4}	
		1 kHz ~ 10 kHz	2.2×10^{-3}	
		(100 μ A ~ 1 mA)		
		10 Hz	2.5×10^{-4}	
		10 Hz ~ 10 kHz	2.4×10^{-4}	
		(1 mA ~ 10 mA)		
		10 Hz	2.4×10^{-4}	
		10 Hz ~ 10 kHz	6.0×10^{-5}	
		(10 mA ~ 100 mA)		
		10 Hz	2.4×10^{-4}	
		10 Hz ~ 10 kHz	5.4×10^{-5}	
		(100 mA ~ 1 A)		
		10 Hz	2.5×10^{-4}	
		10 Hz ~ 10 kHz	9.0×10^{-5}	
		(1 A ~ 10 A)		
		10 Hz	9.4×10^{-5}	
		10 Hz ~ 1 kHz	5.9×10^{-5}	
		1 kHz ~ 10 kHz	6.6×10^{-5}	
		(10 A ~ 20 A)		
		10 Hz	8.9×10^{-5}	
		10 Hz ~ 1 kHz	5.5×10^{-5}	
		1 kHz ~ 10 kHz	6.2×10^{-5}	

403. AC voltage, current & power

Measured Quantity Instrument or Gauge	Field Code	Range	CMC (The Confidence Level is about 95 %)	Comments
Wattmeter calibrators	40304	(20 A ~ 50 A)		Power Standard, Counter/ SICT-CP-40304
		AC Current		
		10 Hz	8.3×10^{-5}	
		10 Hz ~ 1 kHz	5.0×10^{-5}	
		1 kHz ~ 10 kHz	5.9×10^{-5}	
		(50 A ~ 100 A)		
		10 Hz	8.9×10^{-5}	
		10 Hz ~ 1 kHz	5.9×10^{-5}	
		1 kHz ~ 10 kHz	7.7×10^{-5}	
		(100 A ~ 200 A)		
		60 Hz	4.5×10^{-4}	
		AC Power		
		(50 Hz ~ 60 Hz)		
		0.24 mW	4.4×10^{-1}	
		(0.24 ~ 1.2) mW	9.1×10^{-2}	
		(1.2 ~ 2.4) mW	4.6×10^{-3}	
		(2.4 ~ 12) mW	9.2×10^{-3}	
		(12 ~ 24) mW	4.6×10^{-3}	
		(24 ~ 48) mW	2.3×10^{-3}	
		(48 ~ 72) mW	1.5×10^{-3}	
		(72 ~ 96) mW	1.2×10^{-3}	
		(96 ~ 120) mW	9.3×10^{-4}	
		(120 ~ 480) mW	4.3×10^{-4}	
		(480 ~ 600) mW	3.2×10^{-4}	
		(0.6 ~ 1.2) W	2.2×10^{-4}	
		(1.2 ~ 6) W	1.6×10^{-4}	
		6 W ~ 1.2 kW	1.4×10^{-4}	
		(1.2 ~ 4.8) kW	1.5×10^{-4}	
		(4.8 ~ 24) kW	1.4×10^{-4}	
		Power Factor		
		(50 Hz ~ 60 Hz)		
		0.24 mW ~ 480 mW		
		-1 ~ 1	2.3×10^{-4}	
		480 mW ~ 24 kW		
		-1 ~ 1	1.5×10^{-4}	
		Harmonic Voltage		
		(50 Hz ~ 60 Hz)		
		0.5 % ~ 20 %	4.2×10^{-4}	
		Harmonic Current		
		(50 Hz ~ 60 Hz)		
		0.5 % ~ 10 %	4.2×10^{-4}	
		10 % ~ 20 %	4.7×10^{-4}	

403. AC voltage, current & power

Measured Quantity Instrument or Gauge	Field Code	Range	CMC (The Confidence Level is about 95 %)	Comments
Wattmeter calibrators Flicker Frequency	40304	P_{st} (0.25~5), (50 Hz) Modulation Frequency 8.333 mHz 16.667 mHz 58.333 mHz 325.000 mHz 916.667 mHz 13.500 Hz 33.333 Hz (10 ~ 100) Hz (100 ~ 400) Hz 400 Hz ~ 1 MHz	2.8×10^{-3} 2.8×10^{-3} 2.8×10^{-3} 2.8×10^{-3} 2.8×10^{-3} 2.8×10^{-3} 2.8×10^{-3} 7.0×10^{-7} 3.8×10^{-7} 7.0×10^{-7}	Power Standard, Counter/ SICT-CP-40304
AC current shunts AC Resistance AC Voltage dividers (AC Voltage Ratio)	40305	(100 A ~ 200 A) (60 Hz) 1 mΩ (40 Hz ~ 1 kHz) 1 mΩ ~ 10 mΩ 10 mΩ ~ 100 mΩ 100 mΩ ~ 100 Ω 100 Ω ~ 10 kΩ 50 Hz (1 ~ 25) kV (25 ~ 50) kV (50 ~ 100) kV 60 Hz (1 ~ 25) kV (25 ~ 50) kV (50 ~ 100) kV	8.1×10^{-4} 5.7×10^{-4} 3.5×10^{-4} 1.8×10^{-4} 2.3×10^{-4} 3.0×10^{-4} 2.7×10^{-4} 2.6×10^{-4} 2.4×10^{-4} 2.1×10^{-4} 1.9×10^{-4}	Reference Multimeter, Calibrator/ SICT-CP-40305
Voltage/current phase angle meters/synchro resolve meters Phase	40307	(50 ~ 60) Hz 0 ° ~ 360 °	0.008 8 °	Power Calibrator/ SICT-CP-40307
Potential transformer test set Ratio Phase	40308	(110 ~ 1 100) V -19.99 % ~ 19.99 % -680' ~ 680' (1 100 ~ 22 900) V -19.99 % ~ 19.99 % -680' ~ 680'	0.020 % 0.70' 0.016 % 0.50'	Standard Potential transforme, Ratio transformers/ SICT-CP-40308
Potential transforme Ratio Phase	40309	(110 ~ 1 100) V -19.99 % ~ 19.99 % -680' ~ 680' (1 100 ~ 100 000) V -19.99 % ~ 19.99 % -680' ~ 680'	0.020 % 0.70' 0.016 % 0.50'	Standard Potential transforme/ SICT-CP-40309

403. AC voltage, current & power

Measured Quantity Instrument or Gauge	Field Code	Range	CMC (The Confidence Level is about 95 %)	Comments
Power factor meters AC Power Factor	40310	(50 Hz, 60 Hz) -1 ~ 1	1.1×10^{-4}	Power Calibrator/ SICT-CP-40310
AC power meters AC Voltage	40311	(1 mV) 40 Hz ~ 10 kHz 10 kHz ~ 50 kHz 50 kHz ~ 100 kHz (1 mV ~ 2 mV) 40 Hz ~ 10 kHz 10 kHz ~ 50 kHz 50 kHz ~ 100 kHz (2 mV ~ 5 mV) 40 Hz ~ 10 kHz 10 kHz ~ 50 kHz 50 kHz ~ 100 kHz (5 mV ~ 7 mV) 40 Hz ~ 10 kHz 10 kHz ~ 50 kHz 50 kHz ~ 100 kHz (7 mV ~ 9 mV) 40 Hz ~ 10 kHz 10 kHz ~ 50 kHz 50 kHz ~ 100 kHz (9 mV ~ 10 mV) 40 Hz ~ 10 kHz 10 kHz ~ 50 kHz 50 kHz ~ 100 kHz (10 mV ~ 30 mV) 40 Hz ~ 10 kHz 10 kHz ~ 50 kHz 50 kHz ~ 100 kHz (30 mV ~ 60 mV) 40 Hz ~ 10 kHz 10 kHz ~ 50 kHz 50 kHz ~ 100 kHz (60 mV ~ 200 mV) 40 Hz ~ 10 kHz 10 kHz ~ 50 kHz 50 kHz ~ 100 kHz	4.8×10^{-3} 5.0×10^{-3} 6.5×10^{-3} 2.4×10^{-3} 2.6×10^{-3} 3.5×10^{-3} 1.7×10^{-3} 1.9×10^{-3} 2.7×10^{-3} 8.9×10^{-4} 1.0×10^{-3} 1.6×10^{-3} 6.9×10^{-4} 8.4×10^{-4} 1.4×10^{-3} 5.7×10^{-4} 7.2×10^{-4} 1.2×10^{-3} 3.6×10^{-4} 4.7×10^{-4} 1.1×10^{-3} 2.9×10^{-4} 3.7×10^{-4} 8.8×10^{-4} 1.9×10^{-4} 2.7×10^{-4} 6.5×10^{-4}	Power Calibrator, Calibrator/ SICT-CP-40311

403. AC voltage, current & power

Measured Quantity Instrument or Gauge	Field Code	Range	CMC (The Confidence Level is about 95 %)	Comments
AC power meters AC Voltage	40311	(200 mV ~ 300 mV)		Power Calibrator, Calibrator/ SICT-CP-40311
		40 Hz ~ 10 kHz	8.6×10^{-5}	
		10 kHz ~ 50 kHz	1.3×10^{-4}	
		50 kHz ~ 100 kHz	2.2×10^{-4}	
		(300 mV ~ 600 mV)		
		40 Hz ~ 10 kHz	7.6×10^{-5}	
		10 kHz ~ 50 kHz	1.2×10^{-4}	
		50 kHz ~ 100 kHz	1.9×10^{-4}	
		(600 mV ~ 1 V)		
		40 Hz ~ 10 kHz	6.7×10^{-5}	
		10 kHz ~ 50 kHz	9.8×10^{-5}	
		50 kHz ~ 100 kHz	1.5×10^{-4}	
		(1 V ~ 2 V)		
		40 Hz ~ 10 kHz	5.6×10^{-5}	
		10 kHz ~ 50 kHz	8.5×10^{-5}	
		50 kHz ~ 100 kHz	1.2×10^{-4}	
		(2 V ~ 3 V)		
		40 Hz	1.3×10^{-4}	
		40 Hz ~ 10 kHz	9.5×10^{-5}	
		10 kHz ~ 50 kHz	1.5×10^{-4}	
		50 kHz ~ 100 kHz	2.2×10^{-4}	
		(3 V ~ 5 V)		
		40 Hz	1.1×10^{-4}	
		40 Hz ~ 10 kHz	8.0×10^{-5}	
		10 kHz ~ 50 kHz	1.3×10^{-4}	
		50 kHz ~ 100 kHz	1.8×10^{-4}	
		(5 V ~ 7 V)		
		40 Hz	8.1×10^{-5}	
		40 Hz ~ 10 kHz	6.7×10^{-5}	
		10 kHz ~ 50 kHz	1.1×10^{-4}	
50 kHz ~ 100 kHz	1.5×10^{-4}			
(7 V ~ 20 V)				
40 Hz	7.0×10^{-5}			
40 Hz ~ 10 kHz	6.1×10^{-5}			
10 kHz ~ 50 kHz	9.9×10^{-5}			
50 kHz ~ 100 kHz	1.3×10^{-4}			
(20 V ~ 60 V)				
40 Hz	1.6×10^{-4}			
40 Hz ~ 10 kHz	1.2×10^{-4}			
10 kHz ~ 50 kHz	1.6×10^{-4}			
50 kHz ~ 100 kHz	3.4×10^{-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 AC Voltage	40311	(60 V ~ 100 V) 40 Hz 40 Hz ~ 10 kHz 10 kHz ~ 50 kHz 50 kHz ~ 100 kHz	 9.0×10^{-5} 7.8×10^{-5} 1.2×10^{-4} 2.3×10^{-4}	Power Calibrator, Calibrator/ SICT-CP-40311
		(100 V ~ 200 V) 40 Hz 40 Hz ~ 10 kHz 10 kHz ~ 50 kHz 50 kHz ~ 100 kHz	 6.7×10^{-5} 6.5×10^{-5} 9.9×10^{-5} 1.9×10^{-4}	
		(200 V ~ 400 V) 40 Hz 40 Hz ~ 10 kHz 10 kHz ~ 50 kHz 50 kHz ~ 100 kHz	 1.4×10^{-4} 1.1×10^{-4} 2.2×10^{-4} 6.6×10^{-4}	
		(400 V ~ 500 V) 40 Hz 40 Hz ~ 10 kHz 10 kHz ~ 50 kHz 50 kHz ~ 100 kHz	 1.3×10^{-4} 1.1×10^{-4} 2.1×10^{-4} 5.4×10^{-4}	
		(500 V ~ 600 V) 40 Hz 40 Hz ~ 10 kHz 10 kHz ~ 50 kHz 50 kHz ~ 100 kHz	 1.5×10^{-4} 1.3×10^{-4} 2.2×10^{-4} 9.9×10^{-4}	
		(600 V ~ 700 V) 40 Hz 40 Hz ~ 10 kHz 10 kHz ~ 50 kHz 50 kHz ~ 100 kHz	 1.4×10^{-4} 1.2×10^{-4} 2.2×10^{-4} 8.5×10^{-4}	
		(700 V ~ 900 V) 40 Hz 40 Hz ~ 10 kHz 10 kHz ~ 50 kHz 50 kHz ~ 100 kHz	 1.3×10^{-4} 1.1×10^{-4} 2.1×10^{-4} 7.5×10^{-4}	
		(900 V ~ 1 000 V) 40 Hz 40 Hz ~ 10 kHz 10 kHz ~ 50 kHz 50 kHz ~ 100 kHz	 1.2×10^{-4} 1.0×10^{-4} 2.1×10^{-4} 6.1×10^{-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 AC Current	40311	(100 µA) 40 Hz ~ 1 kHz 1 kHz ~ 5 kHz 5 kHz ~ 10 kHz (100 µA ~ 300 µA) 40 Hz ~ 1 kHz 1 kHz ~ 5 kHz 5 kHz ~ 10 kHz (300 µA ~ 2 mA) 40 Hz ~ 1 kHz 1 kHz ~ 5 kHz 5 kHz ~ 10 kHz (2 mA ~ 4 mA) 40 Hz ~ 1 kHz 1 kHz ~ 5 kHz 5 kHz ~ 10 kHz (4 mA ~ 7 mA) 40 Hz ~ 1 kHz 1 kHz ~ 5 kHz 5 kHz ~ 10 kHz (7 mA ~ 20 mA) 40 Hz ~ 1 kHz 1 kHz ~ 5 kHz 5 kHz ~ 10 kHz (20 mA ~ 30 mA) 40 Hz ~ 1 kHz 1 kHz ~ 5 kHz 5 kHz ~ 10 kHz (30 mA ~ 60 mA) 40 Hz ~ 1 kHz 1 kHz ~ 5 kHz 5 kHz ~ 10 kHz (60 mA ~ 200 mA) 40 Hz ~ 1 kHz 1 kHz ~ 5 kHz 5 kHz ~ 10 kHz (200 mA ~ 300 mA) 40 Hz 40 Hz ~ 60 Hz 60 Hz ~ 1 kHz 1 kHz ~ 5 kHz 5 kHz ~ 10 kHz	 2.3×10^{-4} 4.9×10^{-4} 2.1×10^{-3} 2.3×10^{-4} 4.6×10^{-4} 1.8×10^{-3} 1.9×10^{-4} 3.8×10^{-4} 2.1×10^{-3} 3.2×10^{-4} 6.9×10^{-4} 3.8×10^{-3} 2.3×10^{-4} 4.8×10^{-4} 2.7×10^{-3} 1.9×10^{-4} 3.7×10^{-4} 2.1×10^{-3} 3.0×10^{-4} 6.5×10^{-4} 2.6×10^{-3} 2.5×10^{-4} 5.2×10^{-4} 2.2×10^{-3} 1.8×10^{-4} 3.7×10^{-4} 1.7×10^{-3} 5.8×10^{-4} 1.3×10^{-4} 5.3×10^{-4} 1.2×10^{-3} 9.3×10^{-3}	Power Calibrator, Calibrator/ SICT-CP-40311

403. AC voltage, current & power

Measured Quantity Instrument or Gauge	Field Code	Range	CMC (The Confidence Level is about 95 %)	Comments
AC power meters AC Current	40311	(300 mA ~ 500 mA)		Power Calibrator, Calibrator/ SICT-CP-40311
		40 Hz	4.9×10^{-4}	
		40 Hz ~ 60 Hz	1.2×10^{-4}	
		60 Hz ~ 1 kHz	4.6×10^{-4}	
		1 kHz ~ 5 kHz	1.0×10^{-3}	
		5 kHz ~ 10 kHz	8.9×10^{-3}	
		(500 mA ~ 800 mA)		
		40 Hz	4.0×10^{-4}	
		40 Hz ~ 60 Hz	1.2×10^{-4}	
		60 Hz ~ 1 kHz	3.9×10^{-4}	
		1 kHz ~ 5 kHz	8.3×10^{-4}	
		5 kHz ~ 10 kHz	8.6×10^{-3}	
		(800 mA ~ 2 A)		
		40 Hz	3.5×10^{-4}	
		40 Hz ~ 60 Hz	1.5×10^{-4}	
		60 Hz ~ 1 kHz	3.5×10^{-4}	
		1 kHz ~ 5 kHz	7.2×10^{-4}	
		5 kHz ~ 10 kHz	8.4×10^{-3}	
		(2 A ~ 3 A)		
		40 Hz	5.3×10^{-4}	
		40 Hz ~ 60 Hz	3.3×10^{-4}	
		60 Hz ~ 100 Hz	5.3×10^{-4}	
		100 Hz ~ 5 kHz	9.4×10^{-4}	
		5 kHz ~ 10 kHz	4.5×10^{-3}	
		(3 A ~ 6 A)		
		40 Hz	4.1×10^{-4}	
		40 Hz ~ 60 Hz	2.5×10^{-4}	
		60 Hz ~ 100 Hz	4.1×10^{-4}	
		100 Hz ~ 5 kHz	8.1×10^{-4}	
		5 kHz ~ 10 kHz	4.4×10^{-3}	
		(6 A ~ 10 A)		
		40 Hz	2.6×10^{-4}	
		40 Hz ~ 60 Hz	1.9×10^{-4}	
		60 Hz ~ 100 Hz	2.6×10^{-4}	
		100 Hz ~ 5 kHz	6.4×10^{-4}	
		5 kHz ~ 10 kHz	4.3×10^{-3}	
		(10 A ~ 50 A)		
		40 Hz	2.2×10^{-4}	
		40 Hz ~ 60 Hz	1.3×10^{-4}	
		60 Hz ~ 100 Hz	2.2×10^{-4}	
		100 Hz ~ 5 kHz	6.7×10^{-4}	
		5 kHz ~ 10 kHz	6.3×10^{-2}	
		(50 A ~ 100 A)		
		40 Hz ~ 100 Hz	1.9×10^{-4}	
		100 Hz ~ 5 kHz	5.7×10^{-4}	
		5 kHz ~ 10 kHz	4.9×10^{-2}	

403. AC voltage, current & power

Measured Quantity Instrument or Gauge	Field Code	Range	CMC (The Confidence Level is about 95 %)	Comments	
AC power meters	AC Current	(100 A ~ 1 000 A)		Power Calibrator, Calibrator/ SICT-CP-40311	
		40 Hz ~ 100 Hz	1.3×10^{-3}		
		100 Hz ~ 5 kHz	2.7×10^{-3}		
		(1 000 A ~ 2 500 A)			
		40 Hz ~ 60 Hz	1.2×10^{-3}		
		(2 500 A ~ 3 000 A)			
		60 Hz	1.3×10^{-3}		
		AC Wattage	(50 Hz ~ 60 Hz)		
			0.24 mW		97 μ W
			(0.24 ~ 1.2) mW		8.1×10^{-2}
			(1.2 ~ 2.4) mW		4.0×10^{-2}
			(2.4 ~ 12) mW		8.1×10^{-3}
	(12 ~ 24) mW		4.0×10^{-3}		
	(24 ~ 48) mW		2.0×10^{-3}		
	(48 ~ 72) mW		1.3×10^{-3}		
	(72 ~ 96) mW		1.0×10^{-3}		
	(96 ~ 120) mW		8.1×10^{-4}		
	(120 ~ 480) mW		4.1×10^{-4}		
	480 mW ~ 12 kW		1.2×10^{-4}		
	(12 ~ 24) kW	6.9×10^{-4}			
	(24 ~ 300) kW	1.2×10^{-3}			
	(300 ~ 600) kW	1.4×10^{-3}			
	DC Voltage	0 mV	0.78 μ V		
		(0 ~ 1) mV	8.0×10^{-4}		
		(1 ~ 2) mV	4.0×10^{-4}		
		(2 ~ 3) mV	2.7×10^{-4}		
		(3 ~ 4) mV	2.0×10^{-4}		
		(4 ~ 8) mV	1.6×10^{-4}		
		(8 ~ 9) mV	9.4×10^{-5}		
		(9 ~ 10) mV	8.5×10^{-5}		
		(10 ~ 20) mV	4.5×10^{-5}		
		(20 ~ 30) mV	3.2×10^{-5}		
		(30 ~ 60) mV	2.6×10^{-5}		
		(60 ~ 200) mV	1.8×10^{-5}		
		(200 ~ 300) mV	9.3×10^{-6}		
		(300 ~ 400) mV	8.3×10^{-6}		
(400 ~ 700) mV		7.8×10^{-6}			
(700 ~ 900) mV		6.9×10^{-6}			
(0.9 ~ 1) V		9.0×10^{-6}			
(1 ~ 2) V		7.2×10^{-6}			
(2 ~ 3) V		5.6×10^{-6}			
(3 ~ 9) V		5.1×10^{-6}			
(9 ~ 10) V		7.5×10^{-6}			
(10 ~ 20) V		6.0×10^{-6}			
(20 ~ 40) V		7.9×10^{-6}			
(40 ~ 90) V		6.9×10^{-6}			
(90 ~ 200) V	8.8×10^{-6}				
(200 ~ 400) V	9.9×10^{-6}				
(400 ~ 900) V	8.7×10^{-6}				
(900 ~ 1 000) V	1.0×10^{-5}				

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	0 μ A	9.0 nA	Power Calibrator, Calibrator/ SICT-CP-40311		
DC Current		(0 ~ 0.1) μ A	9.0×10^{-2}			
		(0.1 ~ 0.2) μ A	4.5×10^{-2}			
		(0.2 ~ 0.3) μ A	3.0×10^{-2}			
		(0.3 ~ 0.4) μ A	2.3×10^{-2}			
		(0.4 ~ 0.9) μ A	1.8×10^{-2}			
		(0.9 ~ 1) μ A	9.1×10^{-2}			
		(1 ~ 2) μ A	4.5×10^{-3}			
		(2 ~ 3) μ A	3.0×10^{-3}			
		(3 ~ 4) μ A	2.3×10^{-3}			
		(4 ~ 9) μ A	1.8×10^{-3}			
		(9 ~ 10) μ A	9.4×10^{-4}			
		(10 ~ 20) μ A	5.0×10^{-4}			
		(20 ~ 30) μ A	3.4×10^{-4}			
		(30 ~ 50) μ A	2.7×10^{-4}			
		(50 ~ 90) μ A	1.9×10^{-4}			
		(90 ~ 100) μ A	1.3×10^{-4}			
		(100 ~ 200) μ A	8.6×10^{-5}			
		(200 ~ 300) μ A	6.5×10^{-5}			
		(300 ~ 500) μ A	5.2×10^{-5}			
		(0.5 ~ 2) mA	5.1×10^{-5}			
		(2 ~ 3) mA	7.3×10^{-5}			
		(3 ~ 4) mA	6.3×10^{-5}			
		(4 ~ 7) mA	5.7×10^{-5}			
		(7 ~ 20) mA	4.9×10^{-5}			
		(20 ~ 30) mA	8.2×10^{-5}			
		(30 ~ 50) mA	7.4×10^{-5}			
		(50 ~ 100) mA	6.6×10^{-5}			
		(100 ~ 200) mA	5.7×10^{-5}			
		(200 ~ 600) mA	1.5×10^{-5}			
		(0.6 ~ 2) A	1.1×10^{-4}			
		(2 ~ 3) A	4.0×10^{-4}			
		(3 ~ 4) A	3.2×10^{-4}			
		(4 ~ 7) A	2.8×10^{-4}			
		(7 ~ 10) A	2.1×10^{-4}			
		(10 ~ 20) A	1.5×10^{-4}			
		(20 ~ 30) A	2.5×10^{-4}			
		(30 ~ 80) A	2.1×10^{-4}			
		(80 ~ 100) A	1.5×10^{-4}			
		(100 ~ 2 500) A	1.3×10^{-3}			
DC Wattage			0 mW		61 nW	
			(0 ~ 1) mW		7.7×10^{-5}	
			(1 ~ 10) mW		4.8×10^{-5}	
		(10 ~ 100) mW	6.1×10^{-5}			
		(0.1 ~ 100) W	1.1×10^{-4}			
		(0.1 ~ 10) kW	1.9×10^{-4}			
		(10 ~ 20) kW	1.5×10^{-4}			
		(20 ~ 1 000) kW	8.3×10^{-4}			
		(1 000 ~ 2 500) kW	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 meters	40311			Power Calibrator, Calibrator/ SICT-CP-40311
Harmonic Voltage		(50 ~ 60) Hz (0.5 ~ 3) % (3 ~ 5) % (5 ~ 10) % (10 ~ 20) %	4.0×10^{-4} 4.3×10^{-4} 5.0×10^{-4} 7.1×10^{-4}	
Harmonic Current		(50 ~ 60) Hz (0.5 ~ 3) % (3 ~ 5) % (5 ~ 10) % (10 ~ 20) %	4.0×10^{-4} 4.1×10^{-4} 4.2×10^{-4} 4.7×10^{-4}	
Flicker		P_{st} (0.25~5), (50 Hz) Modulation Frequency 8.333 mHz 16.667 mHz 58.333 mHz 325 mHz 916.667 mHz 13.5 Hz 33.333 Hz	3.5×10^{-2} 3.5×10^{-2} 3.5×10^{-2} 3.5×10^{-2} 3.5×10^{-2} 3.5×10^{-2} 3.5×10^{-2}	
Frequency		10 Hz ~ 10 MHz	1.3×10^{-4}	
Power Factor		(50 ~ 60) Hz (0.24 ~ 240) mW -1 ~ 1 (240 ~ 960) mW -1 ~ 1 960 mW ~ 300 kW -1 ~ 1 (300 ~ 480) kW -1 ~ 1 (480 ~ 600) kW -1 ~ 1	4.0×10^{-4} 2.0×10^{-4} 1.1×10^{-4} 4.7×10^{-4} 3.0×10^{-4}	
Current burden		(50 ~ 60) Hz 1.25 VA (1.25 ~ 3.75) VA (3.75 ~ 5) VA (5 ~ 10) VA (10 ~ 100) VA	2.8×10^{-3} 1.5×10^{-3} 8.4×10^{-4} 5.6×10^{-4} 4.7×10^{-4}	
Current burden factor		0.5 ~ 1	2.2×10^{-4}	
Voltage burden		(50 ~ 60) Hz 1.25 VA (1.25 ~ 3.75) VA (3.75 ~ 5) VA (5 ~ 10) VA (10 ~ 100) VA	6.7×10^{-4} 4.8×10^{-3} 3.6×10^{-4} 4.7×10^{-4} 4.9×10^{-4}	
Voltage burden factor		0.5 ~ 1	1.6×10^{-4}	

403. AC voltage, current & power

Measured Quantity Instrument or Gauge	Field Code	Range	CMC (The Confidence Level is about 95 %)	Comments	
AC power supplies	40312	AC Voltage (10 mV ~ 100 mV) 40 Hz ~ 5 kHz	6.2×10^{-4}	Voltage Standard, Multimeter, Current Shunt/ SICT-CP-40312	
			(100 mV ~ 1 V) 40 Hz ~ 5 kHz		8.7×10^{-5}
					(1 V ~ 10 V) 40 Hz ~ 5 kHz
			Frequency (10 V ~ 1 000 V) 40 Hz ~ 5 kHz		
		10 Hz ~ 50 Hz			1.4×10^{-4}
		50 Hz ~ 100 Hz			2.7×10^{-5}
		100 Hz ~ 1 kHz			1.3×10^{-5}
		AC Current 1 kHz ~ 5 kHz	1.3×10^{-6}		
			(1 mA ~ 10 mA) 50 Hz ~ 60 Hz		5.5×10^{-4}
			(10 mA ~ 100 mA) 50 Hz ~ 60 Hz		1.2×10^{-3}
			(100 mA ~ 1 A) 50 Hz ~ 60 Hz		9.7×10^{-4}
			(1 A ~ 20 A) 50 Hz ~ 60 Hz		5.1×10^{-4}
			(20 A ~ 50 A) 50 Hz ~ 60 Hz		6.9×10^{-4}
		DC Voltage (±)	0 mV ~ 10 mV		5.8 μV
			10 mV ~ 100 mV		5.8×10^{-4}
			100 mV ~ 1 V		5.8×10^{-5}
			1 V ~ 100 V		7.8×10^{-6}
			100 V ~ 600 V		1.2×10^{-5}
			600 V ~ 1 000 V		6.6×10^{-5}
		DC Current	1 mA ~ 20 mA		5.8×10^{-3}
			20 mA ~ 200 mA		2.9×10^{-4}
			200 mA ~ 2 A		3.6×10^{-5}
			2 A ~ 20 A		7.6×10^{-5}
			20 A ~ 100 A		1.8×10^{-4}
			100 A ~ 200 A		4.0×10^{-4}
			200 A ~ 1 000 A		4.2×10^{-4}
		Load Regulation	0 mV ~ 2 mV		0.18 mV
2 mV ~ 20 mV	9.1×10^{-2}				
20 mV ~ 200 mV	9.4×10^{-3}				

403. AC voltage, current & power

Measured Quantity Instrument or Gauge	Field Code	Range	CMC (The Confidence Level is about 95 %)	Comments	
AC power supplies	40312	Ripple	0.1 mV ~ 0.4 mV	6.0×10^{-1}	Voltage Standard, Multimeter, Current Shunt/ SICT-CP-40312
			0.4 mV ~ 0.6 mV	1.8×10^{-1}	
			0.6 mV ~ 1 mV	1.2×10^{-1}	
			1 mV ~ 10 mV	7.3×10^{-2}	
			10 mV ~ 50 mV	6.9×10^{-2}	
		Harmonic Voltage	(50, 60) Hz		
			0.5 % ~ 1 %	8.1×10^{-2}	
			1 % ~ 3 %	4.1×10^{-2}	
			3 % ~ 5 %	1.4×10^{-2}	
			5 % ~ 10 %	8.2×10^{-3}	
			10 % ~ 20 %	5.1×10^{-3}	
		Harmonic Current	(50, 60) Hz		
			0.5 % ~ 1 %	8.1×10^{-2}	
			1 % ~ 3 %	4.1×10^{-2}	
			3 % ~ 5 %	1.4×10^{-2}	
		5 % ~ 10 %	8.1×10^{-3}		
		10 % ~ 20 %	4.1×10^{-3}		
Puncture/safety testers	40313	AC Voltage	0.01 kV ~ 0.5 kV	5.7×10^{-2}	AC/DC Kilovoltmeter, High Voltage Digital Meter, Reference Multimeter/ SICT-CP-40313
			0.5 kV ~ 1 kV	1.2×10^{-3}	
			1 kV ~ 2 kV	6.2×10^{-4}	
			2 kV ~ 3 kV	3.5×10^{-4}	
			3 kV ~ 4 kV	2.7×10^{-4}	
			4 kV ~ 5 kV	2.5×10^{-4}	
			5 kV ~ 10 kV	2.3×10^{-4}	
			10 kV ~ 100 kV	2.0×10^{-4}	
		DC Voltage	0 kV ~ 0.5 kV	0.61 V	
			0.5 kV ~ 1 kV	1.2×10^{-3}	
			1 kV ~ 2 kV	6.1×10^{-4}	
			2 kV ~ 3 kV	4.4×10^{-4}	
			3 kV ~ 4 kV	3.8×10^{-4}	
			4 kV ~ 5 kV	3.5×10^{-4}	
			5 kV ~ 10 kV	3.4×10^{-4}	
			10 kV ~ 100 kV	3.2×10^{-4}	
		AC Current	0.1 mA ~ 0.5 mA	7.8×10^{-4}	
			0.5 mA ~ 2 mA	8.0×10^{-4}	
			2 mA ~ 10 mA	7.8×10^{-4}	
			10 mA ~ 50 mA	1.5×10^{-3}	
			50 mA ~ 100 mA	8.1×10^{-4}	
		DC Current	0.1 mA ~ 0.5 mA	3.5×10^{-4}	
			0.5 mA ~ 2 mA	6.1×10^{-4}	
			2 mA ~ 10 mA	3.1×10^{-4}	
			10 mA ~ 50 mA	3.2×10^{-4}	
			50 mA ~ 100 mA	6.1×10^{-4}	

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	Resistance	1 mΩ ~ 10 mΩ	8.4×10^{-4}	AC/DC Kilovoltmeter, High Voltage Digital Meter, Reference Multimeter/ SICT-CP-40313	
			10 mΩ ~ 100 mΩ	7.0×10^{-4}		
			100 mΩ ~ 100 kΩ	6.5×10^{-4}		
		Insulation Voltage	1 V ~ 10 V	6.1×10^{-4}		
			10 V ~ 50 V	2.5×10^{-4}		
			50 V ~ 100 V	1.2×10^{-4}		
			100 V ~ 500 V	2.5×10^{-4}		
			500 V ~ 1 000 V	1.2×10^{-4}		
			1 000 V ~ 10 000 V	6.5×10^{-3}		
		Insulation Resistance	1 kΩ ~ 10 kΩ	8.1×10^{-5}		
			10 kΩ ~ 100 kΩ	7.8×10^{-5}		
			100 kΩ ~ 1 MΩ	5.5×10^{-5}		
			1 MΩ ~ 10 MΩ	1.4×10^{-4}		
			10 MΩ ~ 1 GΩ	7.7×10^{-4}		
			1 GΩ ~ 10 GΩ	1.1×10^{-3}		
			10 GΩ ~ 100 GΩ	1.3×10^{-3}		
			100 GΩ ~ 1 TΩ	2.5×10^{-3}		
		Leakage current (DC)	10 μA ~ 100 μA	9.5×10^{-4}		
			100 μA ~ 1 mA	6.2×10^{-4}		
			1 mA ~ 10 mA	6.1×10^{-4}		
			10 mA ~ 50 mA	1.4×10^{-4}		
		Leakage current (AC)	(10 μA)	1.3×10^{-3}		
			1 kHz			
			(10 μA ~ 100 μA)	6.5×10^{-4}		
			40 Hz ~ 1 kHz			
			(100 μA ~ 10 mA)	6.3×10^{-4}		
			40 Hz ~ 1 kHz			
(10 mA ~ 50 mA)	2.5×10^{-4}					
40 Hz ~ 1 kHz						
Output AC Current	1 A ~ 10 A	1.5×10^{-3}				
	10 A ~ 30 A	1.3×10^{-3}				
	30 A ~ 100 A	2.9×10^{-3}				
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}				
Power recorders	40314	AC Wattage	(50 Hz ~ 60 Hz)		Power Energy Calibrator/ SICT-CP-40314	
			1 mW ~ 10 mW			1.0×10^{-1}
			10 mW ~ 100 mW			1.0×10^{-2}
			100 mW ~ 600 mW			5.1×10^{-3}
			600 mW ~ 6 W			2.2×10^{-3}
			6 W ~ 60 W			3.5×10^{-4}
			60 W ~ 12 kW			1.2×10^{-4}
			12 W ~ 24 kW			6.9×10^{-4}
			24 kW ~ 600 kW			3.4×10^{-3}

403. AC voltage, current & power

Measured Quantity Instrument or Gauge	Field Code	Range	CMC (The Confidence Level is about 95 %)	Comments
Current transformer test set Ratio Phase	40315	(5 A ~ 1 500 A) -19.99 % ~ 19.99 % -680' ~ 680'	0.020 % 0.70'	Current transforme, Ratio transformers/ SICT-CP-40315
Current transformer Ratio Phase Current Coil transducers	40316	(5 A ~ 10 000) A -19.99 % ~ 19.99 % -680' ~ 680' AC 2 ~ 50 DC 2 ~ 50 (±) (1 ~ 10) A 10 : 1 ~ 5 000 : 1 (10 ~ 100) A 10 : 1 ~ 5 000 : 1 (100 ~ 1 000) A 10 : 1 ~ 5 000 : 1	0.020 % 0.70' 1.1×10^{-3} 9.6×10^{-4} 2.1×10^{-4} 9.7×10^{-5} 2.0×10^{-4}	Current transforme/ SICT-CP-40316
AC voltmeters AC Voltage AC Output Voltage DC Output Voltage	40318	(1 kHz) 600 μV ~ 1 mV (10 Hz ~ 100 kHz) 1 mV ~ 3 mV 3 mV ~ 10 mV 10 mV ~ 30 mV 30 mV ~ 100 mV 100 mV ~ 300 mV 300 mV ~ 10 V 10 V ~ 100 V (50 Hz ~ 1 kHz) 100 V ~ 1 000 V (100 kHz ~ 1 MHz) 1 mV~ 10 mV 10 mV ~ 1 V 1 V ~ 20 V (1 ~ 30 MHz) 25 mV ~ 100 mV 100 mV ~ 1 V 1 V ~ 2 V (10 Hz ~ 100 kHz) 1 mV ~ 10 mV 10 mV ~ 100 mV 100 mV ~ 1 V 1 mV ~ 10 mV 10 mV ~ 100 mV 100 mV ~ 1 V	7.8×10^{-3} 6.5×10^{-3} 2.7×10^{-3} 1.2×10^{-3} 1.1×10^{-3} 5.7×10^{-4} 4.8×10^{-4} 5.1×10^{-4} 1.8×10^{-4} 2.7×10^{-2} 3.7×10^{-3} 2.3×10^{-3} 1.3×10^{-2} 2.0×10^{-2} 1.4×10^{-2} 4.8×10^{-3} 4.3×10^{-4} 1.4×10^{-4} 6.2×10^{-4} 7.1×10^{-5} 8.2×10^{-6}	Reference Multimeter, Calibrator/ SICT-CP-40318

403. AC voltage, current & power

Measured Quantity Instrument or Gauge	Field Code	Range	CMC (The Confidence Level is about 95 %)	Comments
Watt hour meters Watt Hour	40319	(50 ~ 60) Hz 1 Wh ~ 120 Wh 120 Wh ~ 12 kWh 12 kWh ~ 24 kWh	6.2×10^{-4} 1.2×10^{-4} 6.0×10^{-4}	Power Calibrator/ SICT-CP-40319
Ratio transformers Ratio Phase	40321	PT (±) 0.1 % ~ 1.000 % 1.000 % ~ 19.00 % CT (±) 0.1 % ~ 1.000 % 1.000 % ~ 19.00 % PT (±) 0.040 ' ~ 1.999 ' 1.999 ' ~ 19.99 ' 19.99 ' ~ 199.9 ' 199.9 ' ~ 600 ' CT (±) 0.040 ' ~ 1.999 ' 1.999 ' ~ 19.99 ' 19.99 ' ~ 199.9 ' 199.9 ' ~ 600 '	0.006 % 0.01 % 0.019 % 0.02 % 0.060 ' 0.06 ' 0.2 ' 1 ' 0.060 ' 0.06 ' 0.2 ' 1 '	Calibrator/ SICT-CP-40321

404. Other DC & LF measurements

Measured Quantity Instrument or Gauge	Field Code	Range	CMC (The Confidence Level is about 95 %)	Comments
LF amplifiers Amplifier	40401	10 Hz 1 mV ~ 10 mV 10 mV ~ 100 mV 100 mV ~ 1 V 1 V ~ 1 000 V (10 Hz ~ 10 kHz) 1 mV ~ 10 mV 10 mV ~ 100 mV 100 mV ~ 1 V 1 V ~ 1 000 V (10 kHz ~ 100 kHz) 1 mV ~ 10 mV 10 mV ~ 100 mV 100 mV ~ 1 000 V	 1.7×10^{-2} 1.9×10^{-3} 5.1×10^{-4} 5.7×10^{-4} 6.3×10^{-3} 7.6×10^{-4} 4.1×10^{-4} 1.7×10^{-4} 2.5×10^{-2} 3.3×10^{-3} 1.3×10^{-3}	Reference Multimeter/ SICT-CP-40401
DC/LF attenuators Attenuation	40402	10 Hz 0 dB ~ -50 dB -50 dB ~ -60 dB -60 dB ~ -70 dB -70 dB ~ -80 dB (10 Hz ~ 10 kHz) 0 dB ~ -60 dB -60 dB ~ -70 dB -70 dB ~ -80 dB (10 kHz ~ 100 kHz) 0 dB ~ -50 dB -50 dB ~ -60 dB -60 dB ~ -70 dB -70 dB ~ -80 dB	 0.006 9 dB 0.017 dB 0.050 dB 0.15 dB 0.006 6 dB 0.019 dB 0.055 dB 0.015 dB 0.029 dB 0.077 dB 0.22 dB	Reference Multimeter/ SICT-CP-40402
Multimeter calibrators DC Voltage	40403	(-1 000 ~ -100) V (-100 ~ -10) V (-10 ~ -1) V (-1 ~ -0.1) V (-100 ~ 0) mV 0 mV (0 ~ 100) mV (0.1 ~ 1) V (1 ~ 10) V (10 ~ 100) V (100 ~ 1 000) V	1.9×10^{-6} 1.2×10^{-6} 9.0×10^{-7} 1.8×10^{-6} 3.0×10^{-6} 37 nV 2.4×10^{-6} 1.6×10^{-6} 8.8×10^{-7} 1.6×10^{-6} 2.1×10^{-6}	Reference Multimeter/ SICT-CP-40403

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/ SICT-CP-40403
DC Current		(±) 0 μA (0.1 ~ 1) nA (1 ~ 100) nA 100 nA ~ 10 A (10 ~ 50) A (50 ~ 100) A	0.47 nA 6.9×10^{-3} 4.6×10^{-3} 1.3×10^{-5} 4.0×10^{-5} 4.4×10^{-5}	
AC Voltage		(1 mV) 10 Hz ~ 10 kHz 10 kHz ~ 100 kHz 100 kHz ~ 1 MHz (1 mV ~ 2 mV) 10 Hz ~ 10 kHz 10 kHz ~ 100 kHz 100 kHz ~ 1 MHz (2 mV ~ 5 mV) 10 Hz 10 Hz ~ 10 kHz 10 kHz ~ 100 kHz 100 kHz ~ 1 MHz (5 mV ~ 10 mV) 10 Hz 10 Hz ~ 10 kHz 10 kHz ~ 100 kHz 100 kHz ~ 1 MHz (10 mV ~ 20 mV) 10 Hz 10 Hz ~ 10 kHz 10 kHz ~ 100 kHz 100 kHz ~ 1 MHz (20 mV ~ 50 mV) 10 Hz 10 Hz ~ 10 kHz 10 kHz ~ 100 kHz 100 kHz ~ 1 MHz (50 mV ~ 100 mV) 10 Hz 10 Hz ~ 10 kHz 10 kHz ~ 100 kHz 100 kHz ~ 1 MHz	1.7×10^{-3} 3.0×10^{-3} 1.2×10^{-2} 1.1×10^{-3} 1.7×10^{-3} 7.6×10^{-3} 6.4×10^{-4} 5.8×10^{-4} 1.0×10^{-3} 5.4×10^{-3} 4.2×10^{-4} 3.5×10^{-4} 5.8×10^{-4} 3.9×10^{-3} 1.8×10^{-4} 1.4×10^{-4} 2.2×10^{-4} 2.2×10^{-3} 1.4×10^{-4} 9.2×10^{-5} 1.6×10^{-4} 1.4×10^{-3} 1.1×10^{-4} 6.6×10^{-5} 1.2×10^{-4} 1.3×10^{-3}	

404. Other DC & LF measurements

Measured Quantity Instrument or Gauge	Field Code	Range	CMC (The Confidence Level is about 95 %)	Comments
Multimeter calibrators	40403	AC Voltage		Reference Multimeter/ SICT-CP-40403
		AC Current		
		(70 V ~ 100 V)		
		10 Hz	3.3×10^{-5}	
		10 Hz ~ 10 kHz	1.5×10^{-5}	
		10 kHz ~ 100 kHz	3.8×10^{-5}	
		(100 V ~ 200 V)		
		10 Hz	6.7×10^{-5}	
		10 Hz ~ 10 kHz	2.9×10^{-5}	
		10 kHz ~ 100 kHz	7.7×10^{-5}	
		(200 V ~ 500 V)		
		10 Hz	5.4×10^{-5}	
		10 Hz ~ 10 kHz	2.3×10^{-5}	
		10 kHz ~ 100 kHz	4.1×10^{-4}	
		(500 V ~ 1 000 V)		
		10 Hz	7.7×10^{-5}	
		10 Hz ~ 10 kHz	3.2×10^{-5}	
		10 kHz ~ 100 kHz	5.8×10^{-4}	
		(30 μ A)		
		10 Hz	4.4×10^{-4}	
		10 Hz ~ 1 kHz	3.3×10^{-4}	
		1 kHz ~ 10 kHz	1.2×10^{-3}	
		(30 μ A ~ 100 μ A)		
		10 Hz	7.1×10^{-4}	
		10 Hz ~ 1 kHz	5.6×10^{-4}	
		1 kHz ~ 10 kHz	2.2×10^{-3}	
		(0.1 mA ~ 1 mA)		
		10 Hz	2.5×10^{-4}	
		10 Hz ~ 10 kHz	2.4×10^{-4}	
		(1 mA ~ 10 mA)		
		10 Hz	2.4×10^{-4}	
		10 Hz ~ 10 kHz	6.0×10^{-5}	
		(10 mA ~ 100 mA)		
		10 Hz	2.4×10^{-4}	
		10 Hz ~ 10 kHz	5.4×10^{-5}	
		(0.1 A ~ 1 A)		
		10 Hz	2.5×10^{-4}	
		10 Hz ~ 10 kHz	9.0×10^{-5}	
		(1 A ~ 10 A)		
		10 Hz	9.4×10^{-5}	
		10 Hz ~ 1 kHz	5.9×10^{-5}	
		1 kHz ~ 10 kHz	6.6×10^{-5}	

404. Other DC & LF measurements

Measured Quantity Instrument or Gauge	Field Code	Range	CMC (The Confidence Level is about 95 %)	Comments
Multimeter calibrators AC Current	40403	(10 A ~ 20 A) 10 Hz 10 Hz ~ 1 kHz 1 kHz ~ 10 kHz	8.9×10^{-5} 5.5×10^{-5} 6.2×10^{-5}	Reference Multimeter/ SICT-CP-40403
		(20 A ~ 50 A) 10 Hz 10 Hz ~ 1 kHz 1 kHz ~ 10 kHz	8.3×10^{-5} 5.0×10^{-5} 5.9×10^{-5}	
		(50 A ~ 100 A) 10 Hz 10 Hz ~ 1 kHz 1 kHz ~ 10 kHz	8.9×10^{-5} 5.9×10^{-5} 7.7×10^{-5}	
		(100 A ~ 200 A) 60 Hz	4.5×10^{-4}	
Resistance		0 Ω (0 ~ 1) Ω (1 ~ 10) Ω (10 ~ 100) Ω (0.1 ~ 1) kΩ (1 ~ 10) kΩ (10 ~ 100) kΩ (0.1 ~ 1) MΩ (1 ~ 10) MΩ (10 ~ 100) MΩ	$4.8 \mu\Omega$ 6.3×10^{-7} 6.7×10^{-7} 7.3×10^{-7} 6.6×10^{-7} 6.4×10^{-7} 1.6×10^{-6} 1.8×10^{-6} 5.0×10^{-6} 2.6×10^{-5}	
Oscilloscope calibrators DC Voltage Amplitude	40404	(±) 0 mV (0 ~ 1) mV (1 ~ 2) mV (2 ~ 5) mV (5 ~ 10) mV (10 ~ 20) mV (20 ~ 50) mV (50 ~ 100) mV (100 ~ 200) mV (200 ~ 500) mV (0.5 ~ 1) V (1 ~ 5) V (5 ~ 10) V (10 ~ 20) V (20 ~ 50) V (50 ~ 100) V (100 ~ 200) V (200 ~ 500) V	0.12 μV 1.2×10^{-4} 6.1×10^{-5} 2.5×10^{-5} 1.6×10^{-5} 9.6×10^{-6} 6.0×10^{-6} 7.6×10^{-6} 5.2×10^{-6} 4.0×10^{-6} 7.0×10^{-5} 4.7×10^{-6} 6.9×10^{-6} 4.5×10^{-6} 5.8×10^{-6} 7.8×10^{-6} 5.8×10^{-6} 5.0×10^{-6}	Calibrator/ SICT-CP-40404

404. Other DC & LF measurements

Measured Quantity Instrument or Gauge	Field Code	Range	CMC (The Confidence Level is about 95 %)	Comments
Oscilloscope calibrators AC Voltage Amplitude	40404	(10 Hz ~ 10 kHz) 1 mV (1 ~ 2) mV (2 ~ 5) mV (5 ~ 10) mV (10 ~ 20) mV (20 ~ 50) mV (50 ~ 100) mV (100 ~ 500) mV (0.5 ~ 1) V (1 ~ 5) V (5 ~ 10) V (10 ~ 50) V (50 ~ 100) V (100 ~ 200) V	0.85 μ V 9.2×10^{-5} 9.5×10^{-5} 1.0×10^{-4} 5.9×10^{-5} 6.7×10^{-5} 8.1×10^{-5} 5.9×10^{-5} 6.2×10^{-5} 5.9×10^{-5} 6.2×10^{-5} 5.9×10^{-5} 6.3×10^{-5} 4.5×10^{-5}	Calibrator/ SICT-CP-40404
Sine Wave Generator		(600 mV) 50 kHz (50 ~ 500) kHz 0.5 MHz ~ 1 GHz (1 ~ 6) GHz	0.59 mV 1.0×10^{-3} 1.7×10^{-2} 1.9×10^{-2}	
Time Marker Generator		(0.1 ~ 1) ns (1 ~ 10) ns (10 ~ 100) ns (0.1 ~ 100) μ s (0.1 ~ 1) ms (1 ~ 10) ms (10 ~ 100) ms (0.1 ~ 5) s	5.8×10^{-8} 6.5×10^{-9} 3.1×10^{-9} 5.8×10^{-8} 6.0×10^{-8} 1.7×10^{-7} 1.6×10^{-6} 1.6×10^{-5}	
Impedance Mesurement		50 Ω 1 M Ω	1.7×10^{-4} 6.2×10^{-5}	
CD/DVD meters/analyzers Jitter	40405	1.0 ns ~ 60.0 ns 1 % 2 % 4 % 8 % 10 % 15 %	1.7×10^{-3} 0.05 % 0.09 % 0.19 % 0.36 % 0.44 % 0.67 %	Modulation Domain Analyzer/ SICT-CP-40405
Video signal generators NTSC, PAL Multiburst	40406	0.1 MHz ~ 1 MHz 1 MHz ~ 2 MHz 2 MHz ~ 6 MHz	6.0×10^{-2} 6.2×10^{-3} 3.1×10^{-3}	Video Measurement/ SICT-CP-40406
NTSC, PAL, SECAM Pulse and Bar		0 ns ~ 300 ns 0 mV ~ 1 000 mV	4.2×10^{-4} 3.5×10^{-3}	

404. Other DC & LF measurements

Measured Quantity Instrument or Gauge	Field Code	Range	CMC (The Confidence Level is about 95 %)	Comments		
Video signal generators NTSC, PAL , SECAM Frequency	40406	1 Hz ~ 10 MHz	1.6×10^{-9}	Video Measurement/ SICT-CP-40406		
Video frequency		10 Hz ~ 100 Hz 100 Hz ~ 500 MHz	6.2×10^{-8} 6.2×10^{-9}			
Video level		30 mV ~ 600 mV 600 mV ~ 1 200 mV	2.6×10^{-3} 2.3×10^{-3}			
TTL Sync level		1 V ~ 5 V	2.7×10^{-3}			
D-TV Level		30 mV ~ 600 mV 600 mV ~ 1 200 mV	2.6×10^{-3} 2.3×10^{-3}			
NTSC, PAL H-Timing		0 mV ~ 100 mV 100 mV ~ 1 000 mV	2.6×10^{-3} 3.4×10^{-3}			
		0 ns ~ 254 ns 254 ns ~ 300 ns 300 ns ~ 3 μ s 3 μ s ~ 7 μ s 7 μ s ~ 10 μ s	1.2×10^{-2} 3.8×10^{-3} 3.2×10^{-3} 7.4×10^{-3} 4.2×10^{-3}			
NTSC, PAL Color Bar(Luminance Level)		0 mV ~ 100 mV 100 mV ~ 1 000 mV	0.06 mV 3.4×10^{-3}			
NTSC, PAL Color Bar(Chrominance Level)		0 mV ~ 100 mV 100 mV ~ 1 000 mV	0.06 mV 3.4×10^{-3}			
NTSC, PAL Color Bar(Phase)		0° ~ 360°	0.13°			
SECAM Color Bar Frequency		(D'R & D'B) 3 MHz ~ 5 MHz	1.2×10^{-3}			
RF Output frequency		10 kHz ~ 10 MHz 10 MHz ~ 100 MHz 100 MHz ~ 1 000 MHz	6.0×10^{-4} 6.0×10^{-5} 6.0×10^{-6}			
RF Output level		0.1 mV ~ 10 mV 10 mV ~ 500 mV	1.4×10^{-2} 1.3×10^{-2}			
Sound Frequency		10 Hz ~ 100 kHz 100 kHz ~ 1 MHz	6.1×10^{-8} 6.1×10^{-7}			
Audio distortion analyzers/meters AC Voltage		40407	(1 mV ~ 10 mV) 10 Hz ~ 10 kHz 10 kHz ~ 100 kHz (10 mV ~ 100 mV) 10 Hz ~ 10 kHz 10 kHz ~ 100 kHz		5.0×10^{-3} 6.5×10^{-3} 9.8×10^{-4} 1.4×10^{-3}	Calibrator/ SICT-CP-40407

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	(100 mV ~ 100 V) 10 Hz ~ 100 kHz	8.4×10^{-4}	Calibrator/ SICT-CP-40407
		(100 V ~ 1 000 V) 100 Hz ~ 1 kHz	6.2×10^{-4}	
DC Voltage		1 mV ~ 10 mV	8.8×10^{-4}	
		10 mV ~ 500 V	6.2×10^{-4}	
Distortion		(400 Hz , 1 kHz)		
		-10 dB ~ -40 dB	0.24 dB	
		-40 dB ~ -50 dB	0.26 dB	
		-50 dB ~ -60 dB	0.27 dB	
		-60 dB ~ -70 dB	0.30 dB	
		-70 dB ~ -80 dB	0.31 dB	
D/T Calibrator		(400 Hz)		
		0.01 % ~ 0.1 %	3.6×10^{-2}	
		0.1 % ~ 1.0 %	3.1×10^{-2}	
		1.0 % ~ 31.6 %	2.8×10^{-2}	
		(1 kHz)		
		0.01 % ~ 0.1 %	3.6×10^{-2}	
	0.1 % ~ 1.0 %	3.1×10^{-2}		
	1.0 % ~ 31.6 %	2.9×10^{-2}		
		(400 Hz , 1 kHz)		
		-10 dB ~ -30 dB	0.062 dB	
		-30 dB ~ -40 dB	0.071 dB	
		-40 dB ~ -50 dB	0.10 dB	
		-50 dB ~ -70 dB	0.11 dB	
		-70 dB ~ -80 dB	0.14 dB	
LF filters	40408	10 Hz ~ 50 kHz	5.8×10^{-4}	Audio Analyzer/ SICT-CP-40408
Filter		50 kHz ~ 100 kHz	1.2×10^{-3}	
		100 kHz ~ 150 kHz	5.8×10^{-3}	
LF/Audiosignalanalyzers	40409	1 Hz ~ 200 kHz	5.8×10^{-6}	Calibrator, Reference Multimeter/ SICT-CP-40409
Output Frequency		(10 Hz ~ 100 Hz)		
AC Output Level		1 mV ~ 10 mV	6.4×10^{-3}	
		10 mV ~ 100 mV	9.0×10^{-4}	
		100 mV ~ 1 V	4.3×10^{-4}	
		1 V ~ 10 V	3.3×10^{-4}	
		10 V ~ 30 V	1.1×10^{-3}	
		-20 dBm ~ 10 dBm	0.007 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	(100 Hz ~ 1 kHz)		Calibrator, Reference Multimeter/ SICT-CP-40409
AC Output Level		1 mV ~ 10 mV	6.3×10^{-3}	
		10 mV ~ 100 mV	7.6×10^{-4}	
		100 mV ~ 1 V	2.2×10^{-4}	
		1 V ~ 10 V	1.4×10^{-4}	
		10 V ~ 30 V	2.6×10^{-4}	
		-20 dBm ~ 10 dBm	0.005 9 dB	
		(1 kHz ~ 10 kHz)		
		1 mV ~ 10 mV	6.3×10^{-3}	
		10 mV ~ 100 mV	7.6×10^{-4}	
		100 mV ~ 1 V	2.2×10^{-4}	
		1 V ~ 10 V	1.4×10^{-4}	
		10 V ~ 30 V	2.6×10^{-4}	
		-20 dBm ~ 10 dBm	0.005 9 dB	
		(10 kHz ~ 100 kHz)		
		1 mV ~ 10 mV	7.4×10^{-3}	
		10 mV ~ 100 mV	3.3×10^{-3}	
		100 mV ~ 1 V	1.2×10^{-3}	
		1 V ~ 10 V	8.2×10^{-4}	
		10 V ~ 30 V	1.5×10^{-3}	
		-20 dBm ~ 10 dBm	0.009 1 dB	
AC Output Level Flatness		10 Hz ~ 10 kHz	0.002 8 dB	
		10 kHz ~ 100 kHz	0.006 2 dB	
Output Attenuation		0 dB ~ -60 dB	0.005 8 dB	
Output DC Offset		(±)		
		0 mV ~ 1 mV	0.8 μV	
		1 mV ~ 10 mV	8.0×10^{-4}	
		10 mV ~ 1 V	8.0×10^{-5}	
		1 V ~ 50 V	6.0×10^{-5}	
Input Frequency		1 Hz ~ 200 kHz	6.1×10^{-7}	
AC Input Level Flatness		10 Hz ~ 100 Hz	0.003 6 dB	
		100 Hz ~ 10 kHz	0.000 85 dB	
		10 kHz ~ 100 kHz	0.001 6 dB	
DC Input Level		(±)		
		0 mV ~ 1 mV	0.27 μV	
		1 mV ~ 10 mV	5.8×10^{-3}	
		10 mV ~ 300 V	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
LF/Audiosignalanalyzers	40409			Calibrator, Reference Multimeter/ SICT-CP-40409
Input Distortion		(400 Hz, 1 kHz) -20 dB ~ -40 dB -40 dB ~ -50 dB -50 dB ~ -60 dB -60 dB ~ -80 dB	0.24 dB 0.26 dB 0.27 dB 0.31 dB	
		(400 Hz, 1 kHz) 0.01 % ~ 0.1 % 0.1 % ~ 1 % 1 % ~ 10 %	3.6×10^{-2} 3.1×10^{-2} 2.8×10^{-2}	
AC Input Level		(10 Hz ~ 100 Hz) 1 mV ~ 10 mV 10 mV ~ 100 mV 100 mV ~ 100 V 100 V ~ 300 V	9.0×10^{-4} 4.0×10^{-4} 4.2×10^{-4} 5.3×10^{-4}	
		(100 Hz ~ 1 kHz) 1 mV ~ 10 mV 10 mV ~ 100 mV 100 mV ~ 10 V 10 V ~ 100 V 100 V ~ 300 V	8.4×10^{-4} 1.8×10^{-4} 1.1×10^{-4} 1.0×10^{-4} 2.3×10^{-4}	
		(1 kHz ~ 10 kHz) 1 mV ~ 10 mV 10 mV ~ 100 mV 100 mV ~ 10 V 10 V ~ 100 V	8.4×10^{-4} 1.8×10^{-4} 1.5×10^{-4} 2.7×10^{-4}	
		(10 kHz ~ 100 kHz) 1 mV ~ 10 mV 10 mV ~ 100 mV 100 mV ~ 1 V 1 V ~ 10 V 10 V ~ 100 V	1.4×10^{-3} 7.6×10^{-4} 4.8×10^{-4} 4.1×10^{-4} 3.4×10^{-4}	
Input Attenuation		10 Hz 30 dB ~ -50 dB -50 dB ~ -60 dB -60 dB ~ -80 dB	0.006 8 dB 0.016 dB 0.052 dB	
		(10 Hz ~ 10 kHz) 30 dB ~ -60 dB -60 dB ~ -70 dB -70 dB ~ -80 dB	0.008 3 dB 0.014 dB 0.042 dB	
		(10 kHz ~ 100 kHz) 30 dB ~ -50 dB -50 dB ~ -70 dB -70 dB ~ -80 dB	0.009 1 dB 0.023 dB 0.057 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 Frequency	40410	16 Hz ~ 1 kHz	1.3×10^{-4}	Calibrator/ SICT-CP-40410
Function generators Frequency	40411	0.1 Hz ~ 1 Hz	5.8×10^{-7}	Audio Analyzer, Digital Multimeter/ SICT-CP-40411
		1 Hz ~ 1 GHz	5.8×10^{-9}	
		1 GHz ~ 4 GHz	1.5×10^{-8}	
Output Level		(10 Hz ~ 100 Hz)		
		1 mV ~ 10 mV	1.7×10^{-2}	
		10 mV ~ 100 mV	1.9×10^{-3}	
		100 mV ~ 10 V	4.8×10^{-4}	
		10 V ~ 100 V	4.1×10^{-4}	
		(100 Hz ~ 10 kHz)		
		1 mV ~ 10 mV	6.0×10^{-3}	
		10 mV ~ 100 mV	8.0×10^{-4}	
		100 mV ~ 100 V	1.7×10^{-4}	
		(10 ~ 100 kHz)		
		1 mV ~ 10 mV	2.5×10^{-2}	
		10 mV ~ 100 mV	3.3×10^{-3}	
		100 mV ~ 100 V	1.0×10^{-3}	
DC Offset		(±)		
		0 mV ~ 1 mV	0.8 μV	
		1 mV ~ 100 mV	1.0×10^{-4}	
		100 mV ~ 20 V	6.0×10^{-5}	
Sine Wave Flatness	(100 mV ~ 1 V)			
	10 Hz ~ 100 Hz	0.006 8 dB		
	100 Hz ~ 10 kHz	0.005 9 dB		
	10 kHz ~ 100 kHz	0.011 dB		
	(1 V ~ 30 V)			
	10 Hz ~ 100 Hz	0.012 dB		
	100 Hz ~ 10 kHz	0.006 2 dB		
	10 kHz ~ 100 kHz	0.019 dB		
Attenuation	(10 Hz ~ 100 Hz)			
	0 dB ~ 80 dB	0.006 2 dB		
	(100 Hz ~ 10 kHz)			
	0 dB ~ 80 dB	0.006 1 dB		
	(10 kHz ~ 100 kHz)			
	0 dB ~ 0.1 dB	0.007 2 dB		
	0.1 dB ~ 30 dB	0.008 0 dB		
	30 dB ~ 80 dB	0.006 3 dB		

404. Other DC & LF measurements

Measured Quantity Instrument or Gauge	Field Code	Range	CMC (The Confidence Level is about 95 %)	Comments
Function generators Distortion	40411	(20 Hz ~ 1 kHz) 3.16 % ~ 0.010 %	2.2×10^{-1}	Audio Analyzer, Digital Multimeter/ SICT-CP-40411
		(1 kHz ~ 100 kHz) 3.16 % ~ 0.010 %	3.4×10^{-1}	
Rise Fall Time		100 μ s ~ 100 ns 100 ns ~ 10 ns 10 ns ~ 1 ns 1 ns ~ 100 ps	7.0×10^{-4} 7.8×10^{-4} 4.7×10^{-3} 4.6×10^{-2}	
Duty cycle		1 % ~ 99 %	0.006 1 %	
High Frequency Flatness Test		(100 KHz ~ 80 MHz) 0 dBm ~ 20 dBm	0.064 dB	
Genescopes Marker Frequency	40412	9 kHz ~ 10 MHz 10 MHz ~ 200 MHz	2.8×10^{-6} 6.4×10^{-7}	Signal Generator/ SICT-CP-40412
RF Level		9 kHz ~ 200 MHz 100 dB μ V ~ 50 dB μ V	0.31 dB	
AC/DC high voltages volt meters DC Voltage	40413	(\pm) 0 kV (0 ~ 0.5) kV (0.5 ~ 1) kV (1 ~ 2) kV (2 ~ 5) kV (5 ~ 15) kV (15 ~ 30) kV (30 ~ 100) kV	0.58 V 1.2×10^{-3} 6.1×10^{-4} 6.0×10^{-4} 5.8×10^{-4} 5.5×10^{-4} 6.0×10^{-4} 5.8×10^{-4}	Calibrator/ SICT-CP-40413
AC Voltage		(50 Hz) 0.01 kV (0.01 ~ 0.5) kV (0.5 ~ 1) kV (1 ~ 2) kV (2 ~ 3) kV (3 ~ 5) kV (5 ~ 10) kV (10 ~ 15) kV (15 ~ 20) kV (20 ~ 100) kV	0.58 V 1.2×10^{-3} 6.2×10^{-4} 5.5×10^{-4} 5.3×10^{-4} 5.0×10^{-4} 4.8×10^{-4} 5.7×10^{-4} 5.2×10^{-4} 5.3×10^{-4}	
		(60 Hz) 0.01 kV (0.01 ~ 0.5) kV (0.5 ~ 1) kV (1 ~ 2) kV (2 ~ 3) kV (3 ~ 15) kV (15 ~ 20) kV (20 ~ 100) kV	0.58 V 1.2×10^{-3} 6.2×10^{-4} 5.5×10^{-4} 4.7×10^{-4} 4.5×10^{-4} 5.4×10^{-4} 5.0×10^{-4}	

404. Other DC & LF measurements

Measured Quantity Instrument or Gauge	Field Code	Range	CMC (The Confidence Level is about 95 %)	Comments
Jitter meters CD/DVD Jitter VTR Jitter	40415	1 ns ~ 20 ns 20 ns ~ 60 ns 0.05 μs 0.05 μs ~ 0.1 μs 0.1 μs ~ 0.2 μs 0.2 μs ~ 0.5 μs 0.5 μs ~ 0.7 μs 1 % 2 % 4 % 8 % 10 % 15 %	1.7×10^{-3} 1.6×10^{-3} 0.66 ns 0.77 ns 1.2 ns 2.8 ns 4.3 ns 0.05 % 0.09 % 0.19 % 0.36 % 0.44 % 0.67 %	Modulation Domain Analyzer/ SICT-CP-40415
Leakage current testers DC Current AC Current	40416	0 μA (0 ~ 1) μA (1 ~ 2) μA (2 ~ 5) μA (5 ~ 10) μA (10 ~ 20) μA (20 ~ 50) μA (50 ~ 100) μA (100 ~ 200) μA (0.2 ~ 100) mA (20 μA) (10 ~ 20) Hz (20 ~ 40) Hz 40 Hz ~ 1 kHz (1 ~ 5) kHz (5 ~ 10) kHz (20 μA ~ 50 μA) (10 ~ 20) Hz (20 ~ 40) Hz 40 Hz ~ 1 kHz (1 ~ 5) kHz (5 ~ 10) kHz (50 μA ~ 100 μA) (10 ~ 20) Hz (20 ~ 40) Hz 40 Hz ~ 1 kHz (1 ~ 5) kHz (5 ~ 10) kHz	7.0 nA 2.4×10^{-3} 3.7×10^{-3} 1.5×10^{-3} 7.7×10^{-4} 4.0×10^{-4} 1.8×10^{-4} 1.3×10^{-4} 8.5×10^{-5} 6.1×10^{-4} 26 nA 17 nA 14 nA 26 nA 0.11 μA 6.8×10^{-4} 4.4×10^{-4} 3.4×10^{-4} 6.8×10^{-4} 2.8×10^{-3} 4.9×10^{-4} 3.2×10^{-4} 2.3×10^{-4} 4.9×10^{-4} 2.1×10^{-3}	Calibrator/ SICT-CP-40416

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	(100 μA ~ 200 μA)		Calibrator/ SICT-CP-40416
AC Current		(10 ~ 20) Hz	3.9×10^{-4}	
		(20 ~ 40) Hz	2.5×10^{-4}	
		40 Hz ~ 1 kHz	1.7×10^{-4}	
		(1 ~ 5) kHz	4.0×10^{-4}	
		(5 ~ 10) kHz	1.7×10^{-3}	
		(200 μA ~ 500 μA)		
		(10 ~ 20) Hz	4.4×10^{-4}	
		(20 ~ 40) Hz	3.2×10^{-4}	
		40 Hz ~ 1 kHz	2.4×10^{-4}	
		(1 ~ 5) kHz	5.4×10^{-4}	
		(5 ~ 10) kHz	2.8×10^{-3}	
		(500 μA ~ 1 mA)		
		(10 ~ 20) Hz	7.0×10^{-4}	
		(20 ~ 40) Hz	6.6×10^{-4}	
		40 Hz ~ 1 kHz	6.3×10^{-4}	
(1 ~ 5) kHz		7.2×10^{-4}		
(5 ~ 10) kHz		2.1×10^{-3}		
(1 mA ~ 100 mA)				
(10 ~ 20) Hz		7.0×10^{-4}		
(20 ~ 40) Hz		6.6×10^{-4}		
40 Hz ~ 1 kHz		6.3×10^{-4}		
(1 ~ 5) kHz		7.0×10^{-4}		
(5 ~ 10) kHz		2.8×10^{-3}		
DC Voltage		0 V	0.06 mV	
		(0 ~ 0.1) V	6.0×10^{-4}	
		(0.1 ~ 0.2) V	3.0×10^{-4}	
		(0.2 ~ 0.5) V	1.2×10^{-4}	
		(0.5 ~ 1) V	6.0×10^{-5}	
		(1 ~ 2) V	3.1×10^{-4}	
		(2 ~ 5) V	1.2×10^{-4}	
		(5 ~ 10) V	6.1×10^{-5}	
		(10 ~ 20) V	3.1×10^{-5}	
	(20 ~ 50) V	1.4×10^{-5}		
	(50 ~ 100) V	8.8×10^{-6}		
	(100 ~ 1 000) V	1.2×10^{-4}		
AC Voltage	(0.1 V)			
	(10 ~ 20) Hz	0.070 mV		
	(20 ~ 40) Hz	0.064 mV		
	40 Hz ~ 20 kHz	0.063 mV		
	(20 ~ 50) kHz	0.065 mV		
	(50 ~ 100) kHz	0.083 mV		
	(100 ~ 300) kHz	0.12 mV		
	(300 ~ 500) kHz	0.20 mV		
	500 kHz ~ 1 MHz	0.37 mV		

404. Other DC & LF measurements

Measured Quantity Instrument or Gauge	Field Code	Range	CMC (The Confidence Level is about 95 %)	Comments
Electronic AC/DC loads	40417			Calibrator/ SICT-CP-40417
DC Current		1 mA (1 ~ 2) mA (2 ~ 5) mA (5 ~ 20) mA (20 ~ 50) mA (50 ~ 100) mA (0.1 ~ 0.2) A (0.2 ~ 0.4) A (0.4 ~ 0.6) A (0.6 ~ 0.8) A (0.8 ~ 1) A (1 ~ 3) A (3 ~ 6) A (6 ~ 9) A (9 ~ 10) A (10 ~ 40) A (40 ~ 100) A (100 ~ 1 000) A	5.8 μA 2.9×10^{-3} 1.2×10^{-3} 5.8×10^{-4} 1.2×10^{-4} 5.9×10^{-5} 2.9×10^{-4} 1.9×10^{-4} 1.2×10^{-4} 8.3×10^{-5} 6.4×10^{-5} 3.1×10^{-5} 1.6×10^{-5} 9.9×10^{-6} 7.6×10^{-6} 3.9×10^{-5} 2.9×10^{-5} 1.3×10^{-4}	
Resistance		0.1 Ω (0.1 ~ 1) Ω (1 ~ 2) Ω (2 ~ 4) Ω (4 ~ 500) Ω (0.5 ~ 2) kΩ (2 ~ 10) kΩ	0.44 mΩ 4.4×10^{-3} 9.0×10^{-3} 4.7×10^{-3} 2.0×10^{-3} 8.5×10^{-4} 1.6×10^{-4}	
AC Voltage		(0.001 V) 40 Hz ~ 400 Hz (0.001 V ~ 0.1 V) 40 Hz ~ 400 Hz (0.1 V ~ 0.2 V) 40 Hz ~ 400 Hz (0.2 V ~ 0.5 V) 40 Hz ~ 400 Hz (0.5 V ~ 2 V) 40 Hz ~ 400 Hz (2 V ~ 3 V) 40 Hz ~ 400 Hz (3 V ~ 7 V) 40 Hz ~ 400 Hz (7 V ~ 20 V) 40 Hz ~ 50 Hz 50 Hz ~ 400 Hz	0.6 mV 6.1×10^{-3} 3.1×10^{-3} 1.2×10^{-3} 6.2×10^{-4} 3.3×10^{-4} 2.3×10^{-4} 1.4×10^{-4} 9.8×10^{-5}	

404. Other DC & LF measurements

Measured Quantity Instrument or Gauge	Field Code	Range	CMC (The Confidence Level is about 95 %)	Comments	
Electronic AC/DC loads	40417	AC Voltage	(20 V ~ 80 V)		Calibrator/ SICT-CP-40417
			40 Hz ~ 50 Hz	2.1×10^{-4}	
			50 Hz ~ 400 Hz	1.2×10^{-4}	
		AC Current	(80 V ~ 200 V)		
			40 Hz ~ 400 Hz	1.3×10^{-4}	
			(200 V ~ 500 V)		
			50 Hz ~ 400 Hz	1.8×10^{-4}	
			(1 mA)		
			40 Hz ~ 400 Hz	0.6 mA	
			(1 mA ~ 50 mA)		
			40 Hz ~ 400 Hz	5.8×10^{-2}	
			(50 mA ~ 0.2 A)		
			40 Hz ~ 400 Hz	5.8×10^{-3}	
			(0.2 A ~ 3 A)		
			40 Hz ~ 400 Hz	2.4×10^{-3}	
			(3 A ~ 4 A)		
			40 Hz ~ 400 Hz	7.8×10^{-4}	
			(4 A ~ 5 A)		
			40 Hz ~ 400 Hz	6.4×10^{-4}	
			(5 A ~ 17 A)		
40 Hz ~ 100 Hz	9.1×10^{-4}				
100 Hz ~ 400 Hz	1.4×10^{-3}				
AC Resistance	(17 A ~ 20 A)				
	40 Hz ~ 100 Hz	6.1×10^{-4}			
	100 Hz ~ 400 Hz	8.9×10^{-4}			
	(1 Ω)				
	40 Hz ~ 400 Hz	1.1 mΩ			
	(1 Ω ~ 50 Ω)				
40 Hz ~ 400 Hz	1.8×10^{-3}				
(50 Ω ~ 100 Ω)					
40 Hz ~ 400 Hz	1.5×10^{-3}				
(100 Ω ~ 10 kΩ)					
40 Hz ~ 400 Hz	1.8×10^{-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/ SICT-CP-40419
DC Voltage		0 V	0.34 μV	
		(0 ~ 1) mV	4.0×10^{-4}	
		(1 ~ 2) mV	2.0×10^{-4}	
		(2 ~ 5) mV	8.0×10^{-5}	
		(5 ~ 10) mV	4.0×10^{-5}	
		(10 ~ 15) mV	2.7×10^{-5}	
		(15 ~ 20) mV	2.0×10^{-6}	
		(20 ~ 50) mV	8.0×10^{-6}	
		(50 ~ 100) mV	4.0×10^{-6}	
		(0.1 ~ 0.2) V	7.5×10^{-6}	
		(0.2 ~ 0.5) V	3.0×10^{-6}	
		(0.5 ~ 1) V	1.6×10^{-6}	
		(1 ~ 2) V	3.5×10^{-6}	
		(2 ~ 5) V	1.6×10^{-6}	
		(5 ~ 10) V	1.0×10^{-6}	
		(10 ~ 250) V	4.0×10^{-6}	
		(20 ~ 50) V	1.8×10^{-6}	
		(50 ~ 100) V	1.1×10^{-6}	
		(100 ~ 200) V	5.0×10^{-6}	
		(200 ~ 500) V	2.2×10^{-6}	
		(500 ~ 1 000) V	1.2×10^{-6}	
AC Voltage		(0.6 mV)		
		1 kHz	4.2 μV	
		(1 mV)		
		10 Hz ~ 40 Hz	4.3 μV	
		40 Hz ~ 20 kHz	4.1 μV	
		20 kHz ~ 50 kHz	4.3 μV	
		50 kHz ~ 100 kHz	5.6 μV	
		100 kHz ~ 300 kHz	11 μV	
		300 kHz ~ 500 kHz	21 μV	
		500 kHz ~ 1 MHz	23 μV	
		(1 mV ~ 2 mV)		
		10 Hz ~ 20 Hz	2.3×10^{-3}	
		20 Hz ~ 20 kHz	2.1×10^{-3}	
		20 kHz ~ 50 kHz	2.3×10^{-3}	
		50 kHz ~ 100 kHz	3.1×10^{-3}	
		100 kHz ~ 300 kHz	6.0×10^{-3}	
		300 kHz ~ 500 kHz	1.2×10^{-2}	
		500 kHz ~ 1 MHz	1.3×10^{-2}	
		(2 mV ~ 5 mV)		
		10 Hz ~ 20 Hz	1.1×10^{-3}	
		20 Hz ~ 20 kHz	9.2×10^{-4}	
		20 kHz ~ 50 kHz	1.1×10^{-3}	
		50 kHz ~ 100 kHz	1.6×10^{-3}	
		100 kHz ~ 300 kHz	3.2×10^{-3}	
		300 kHz ~ 500 kHz	5.6×10^{-3}	
		500 kHz ~ 1 MHz	7.2×10^{-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 AC Voltage	40419	(±) 0 V (0 ~ 1) mV (1 ~ 2) mV (2 ~ 5) mV (5 ~ 10) mV (10 ~ 15) mV (15 ~ 20) mV (20 ~ 50) mV (50 ~ 100) mV (0.1 ~ 0.2) V (0.2 ~ 0.5) V (0.5 ~ 1) V (1 ~ 2) V (2 ~ 5) V (5 ~ 10) V (10 ~ 250) V (20 ~ 50) V (50 ~ 100) V (100 ~ 200) V (200 ~ 500) V (500 ~ 1 000) V (0.6 mV) 1 kHz (1 mV) 10 Hz ~ 40 Hz 40 Hz ~ 20 kHz 20 kHz ~ 50 kHz 50 kHz ~ 100 kHz 100 kHz ~ 300 kHz 300 kHz ~ 500 kHz 500 kHz ~ 1 MHz (1 mV ~ 2 mV) 10 Hz ~ 20 Hz 20 Hz ~ 20 kHz 20 kHz ~ 50 kHz 50 kHz ~ 100 kHz 100 kHz ~ 300 kHz 300 kHz ~ 500 kHz 500 kHz ~ 1 MHz (2 mV ~ 5 mV) 10 Hz ~ 20 Hz 20 Hz ~ 20 kHz 20 kHz ~ 50 kHz 50 kHz ~ 100 kHz 100 kHz ~ 300 kHz 300 kHz ~ 500 kHz 500 kHz ~ 1 MHz	0.34 μV 4.0×10^{-4} 2.0×10^{-4} 8.0×10^{-5} 4.0×10^{-5} 2.7×10^{-5} 2.0×10^{-6} 8.0×10^{-6} 4.0×10^{-6} 7.5×10^{-6} 3.0×10^{-6} 1.6×10^{-6} 3.5×10^{-6} 1.6×10^{-6} 1.0×10^{-6} 4.0×10^{-6} 1.8×10^{-6} 1.1×10^{-6} 5.0×10^{-6} 2.2×10^{-6} 1.2×10^{-6} 4.2 μV 4.3 μV 4.1 μV 4.3 μV 5.6 μV 11 μV 21 μV 23 μV 2.3×10^{-3} 2.1×10^{-3} 2.3×10^{-3} 3.1×10^{-3} 6.0×10^{-3} 1.2×10^{-2} 1.3×10^{-2} 1.1×10^{-3} 9.2×10^{-4} 1.1×10^{-3} 1.6×10^{-3} 3.2×10^{-3} 5.6×10^{-3} 7.2×10^{-3}	Calibrator/ SICT-CP-40419

404. Other DC & LF measurements

Measured Quantity Instrument or Gauge	Field Code	Range	CMC (The Confidence Level is about 95 %)	Comments
Analogue/Digital multimeters AC Voltage	40419	(100 mV ~ 150 mV) 10 Hz 10 Hz ~ 20 Hz 20 Hz ~ 20 kHz 20 kHz ~ 50 kHz 50 kHz ~ 100 kHz 100 kHz ~ 300 kHz 300 kHz ~ 500 kHz 500 kHz ~ 1 MHz (150 mV ~ 200 mV) 10 Hz 10 Hz ~ 20 Hz 20 Hz ~ 20 kHz 20 kHz ~ 50 kHz 50 kHz ~ 100 kHz 100 kHz ~ 300 kHz 300 kHz ~ 500 kHz 500 kHz ~ 1 MHz (0.2 V ~ 0.5 V) 10 Hz 10 Hz ~ 20 Hz 20 Hz ~ 40 Hz 40 Hz ~ 20 kHz 20 kHz ~ 50 kHz 50 kHz ~ 100 kHz 100 kHz ~ 300 kHz 300 kHz ~ 500 kHz 500 kHz ~ 1 MHz (0.5 V ~ 1 V) 10 Hz 10 Hz ~ 20 Hz 20 Hz ~ 40 Hz 40 Hz ~ 20 kHz 20 kHz ~ 100 kHz 100 kHz ~ 300 kHz 300 kHz ~ 500 kHz 500 kHz ~ 1 MHz (1 V ~ 2 V) 10 Hz 10 Hz ~ 20 Hz 20 Hz ~ 40 Hz 40 Hz ~ 20 kHz 20 kHz ~ 100 kHz 100 kHz ~ 300 kHz 300 kHz ~ 500 kHz 500 kHz ~ 1 MHz	2.9×10^{-4} 1.9×10^{-4} 3.7×10^{-5} 4.7×10^{-5} 7.3×10^{-5} 1.4×10^{-4} 2.6×10^{-4} 5.1×10^{-4} 2.6×10^{-4} 1.6×10^{-4} 3.0×10^{-5} 3.7×10^{-5} 5.5×10^{-5} 1.1×10^{-4} 2.1×10^{-4} 4.2×10^{-4} 2.2×10^{-4} 1.4×10^{-4} 7.4×10^{-5} 4.4×10^{-5} 6.6×10^{-5} 8.4×10^{-5} 1.7×10^{-4} 3.4×10^{-4} 1.0×10^{-3} 1.8×10^{-4} 1.0×10^{-4} 3.9×10^{-5} 2.6×10^{-5} 3.6×10^{-5} 8.9×10^{-5} 1.8×10^{-4} 5.4×10^{-4} 1.7×10^{-4} 9.0×10^{-5} 2.3×10^{-5} 1.7×10^{-5} 2.7×10^{-5} 5.5×10^{-5} 1.2×10^{-4} 3.1×10^{-4}	Calibrator/ SICT-CP-40419

404. Other DC & LF measurements

Measured Quantity Instrument or Gauge	Field Code	Range	CMC (The Confidence Level is about 95 %)	Comments
Analogue/Digital multimeters AC Voltage	40419	(2 V ~ 5 V)		Calibrator/ SICT-CP-40419
		10 Hz	1.9×10^{-4}	
		10 Hz ~ 20 Hz	1.2×10^{-4}	
		20 Hz ~ 40 Hz	7.0×10^{-5}	
		40 Hz ~ 20 kHz	4.2×10^{-5}	
		20 kHz ~ 50 kHz	6.2×10^{-5}	
		50 kHz ~ 100 kHz	8.2×10^{-5}	
		100 kHz ~ 300 kHz	2.4×10^{-4}	
		300 kHz ~ 500 kHz	4.2×10^{-4}	
		500 kHz ~ 1 MHz	1.3×10^{-3}	
		(5 V ~ 10 V)		
		10 Hz	1.6×10^{-4}	
		10 Hz ~ 20 Hz	9.1×10^{-5}	
		20 Hz ~ 40 Hz	3.6×10^{-5}	
		40 Hz ~ 20 kHz	2.4×10^{-5}	
		20 kHz ~ 50 kHz	3.4×10^{-5}	
		50 kHz ~ 100 kHz	4.3×10^{-5}	
		100 kHz ~ 300 kHz	1.2×10^{-4}	
		300 kHz ~ 500 kHz	2.2×10^{-4}	
		500 kHz ~ 1 MHz	6.6×10^{-4}	
		(10 V ~ 15 V)		
		10 Hz	1.5×10^{-4}	
		10 Hz ~ 20 Hz	8.7×10^{-5}	
		20 Hz ~ 40 Hz	2.6×10^{-5}	
		40 Hz ~ 20 kHz	1.8×10^{-5}	
		20 kHz ~ 50 kHz	2.5×10^{-5}	
		50 kHz ~ 100 kHz	3.1×10^{-5}	
		100 kHz ~ 300 kHz	8.7×10^{-5}	
		300 kHz ~ 500 kHz	1.5×10^{-4}	
		500 kHz ~ 1 MHz	4.5×10^{-4}	
		(15 V ~ 20 V)		
		10 Hz	1.6×10^{-4}	
		10 Hz ~ 20 Hz	8.5×10^{-5}	
		20 Hz ~ 40 Hz	2.1×10^{-5}	
		40 Hz ~ 20 kHz	1.6×10^{-5}	
		20 kHz ~ 50 kHz	2.2×10^{-5}	
		50 kHz ~ 100 kHz	2.6×10^{-5}	
		100 kHz ~ 300 kHz	6.5×10^{-5}	
		300 kHz ~ 500 kHz	1.3×10^{-4}	
		500 kHz ~ 1 MHz	3.6×10^{-4}	
		(20 V ~ 50 V)		
		10 Hz	2.2×10^{-4}	
		10 Hz ~ 20 Hz	1.3×10^{-4}	
		20 Hz ~ 40 Hz	8.2×10^{-5}	
		40 Hz ~ 20 kHz	5.0×10^{-5}	
20 kHz ~ 50 kHz	6.2×10^{-5}			
50 kHz ~ 100 kHz	1.2×10^{-4}			

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	AC Voltage		Calibrator/ SICT-CP-40419
		(50 V ~ 100 V)		
		10 Hz	1.7×10^{-4}	
		10 Hz ~ 20 Hz	1.0×10^{-4}	
		20 Hz ~ 40 Hz	4.2×10^{-5}	
		40 Hz ~ 20 kHz	2.7×10^{-5}	
		20 kHz ~ 50 kHz	3.4×10^{-5}	
		50 kHz ~ 100 kHz	6.2×10^{-5}	
		(100 V ~ 200 V)		
		10 Hz	1.6×10^{-4}	
		10 Hz ~ 20 Hz	8.7×10^{-5}	
		20 Hz ~ 40 Hz	2.9×10^{-5}	
		40 Hz ~ 20 kHz	2.0×10^{-5}	
		20 kHz ~ 50 kHz	2.1×10^{-5}	
		50 kHz ~ 100 kHz	4.3×10^{-5}	
		(200 V ~ 500 V)		
		50 Hz ~ 1 kHz	3.3×10^{-5}	
		(500 V ~ 1 000 V)		
		50 Hz ~ 1 kHz	3.2×10^{-5}	
		Resistance		
		0 Ω	0.001 0 mΩ	
		0 Ω ~ 10 kΩ	1.2×10^{-6}	
		(10 ~ 100) kΩ	1.4×10^{-6}	
		(0.1 ~ 1) MΩ	7.2×10^{-6}	
		(1 ~ 10) MΩ	7.7×10^{-6}	
		(10 ~ 100) MΩ	1.2×10^{-5}	
		(0.1 ~ 1) GΩ	3.2×10^{-4}	
		DC Current		
		(±)		
		0 μA	1.0 nA	
		(0 ~ 1) nA	6.9×10^{-3}	
		(1 ~ 100) nA	4.6×10^{-3}	
		(0.1 ~ 1) μA	1.0×10^{-3}	
		(1 ~ 2) μA	5.0×10^{-4}	
		(2 ~ 5) μA	2.2×10^{-4}	
		(5 ~ 10) μA	1.1×10^{-4}	
		(10 ~ 20) μA	1.2×10^{-4}	
		(20 ~ 50) μA	4.8×10^{-5}	
		(50 ~ 100) μA	2.5×10^{-5}	
		(100 ~ 200) μA	1.4×10^{-5}	
		(0.2 ~ 0.5) mA	3.2×10^{-5}	
		(0.5 ~ 1) mA	1.7×10^{-5}	
		(1 ~ 1.5) mA	1.3×10^{-5}	
		(1.5 ~ 2) mA	1.1×10^{-5}	
		(2 ~ 5) mA	3.2×10^{-5}	
		(5 ~ 10) mA	1.7×10^{-5}	

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	DC Current	(10 ~ 15) mA 1.3×10^{-5} (15 ~ 20) mA 1.1×10^{-5} (20 ~ 50) mA 3.2×10^{-5} (50 ~ 100) mA 1.8×10^{-5} (100 ~ 150) mA 1.4×10^{-5} (150 ~ 200) mA 1.2×10^{-5} (0.2 ~ 0.5) A 6.2×10^{-5} (0.5 ~ 1) A 3.3×10^{-5} (1 ~ 1.5) A 2.3×10^{-5} (1.5 ~ 2) A 1.9×10^{-5} (2 ~ 3) A 3.3×10^{-4} (3 ~ 5) A 2.4×10^{-4} (5 ~ 10) A 1.6×10^{-4} (10 ~ 20) A 1.2×10^{-4} (20 ~ 30) A 2.4×10^{-4}	Calibrator/ SICT-CP-40419
		AC Current	(20 μ A) 1 kHz 11 nA 10 kHz 87 nA (20 μ A ~ 50 μ A) 10 Hz 8.0×10^{-5} (10 ~ 20) Hz 6.0×10^{-5} 20 Hz ~ 1 kHz 4.2×10^{-5} (1 ~ 5) kHz 1.4×10^{-5} (5 ~ 10) kHz 6.5×10^{-4} (50 μ A ~ 100 μ A) 10 Hz 1.1×10^{-4} (10 ~ 20) Hz 7.5×10^{-5} 20 Hz ~ 1 kHz 4.6×10^{-5} (1 ~ 5) kHz 1.5×10^{-5} (5 ~ 10) kHz 7.5×10^{-4} (0.1 mA ~ 0.2 mA) 10 Hz 1.8×10^{-4} (10 ~ 20) Hz 1.1×10^{-4} 20 Hz ~ 1 kHz 5.5×10^{-5} (1 ~ 5) kHz 1.7×10^{-4} (5 ~ 10) kHz 9.0×10^{-4} (0.2 mA ~ 0.5 mA) 10 Hz 7.0×10^{-5} (10 ~ 20) Hz 5.0×10^{-5} 20 Hz ~ 1 kHz 4.0×10^{-5} (1 ~ 5) kHz 7.0×10^{-5} (5 ~ 10) kHz 2.6×10^{-4}	

404. Other DC & LF measurements

Measured Quantity Instrument or Gauge	Field Code	Range	CMC (The Confidence Level is about 95 %)	Comments
Analogue/Digital multimeters AC Current	40419	(0.5 mA ~ 1 mA)		Calibrator/ SICT-CP-40419
		10 Hz	1.0×10^{-4}	
		(10 ~ 20) Hz	6.0×10^{-5}	
		20 Hz ~ 1 kHz	4.0×10^{-5}	
		(1 ~ 5) kHz	7.0×10^{-5}	
		(5 ~ 10) kHz	3.3×10^{-4}	
		(1 mA ~ 2 mA)		
		10 Hz	1.7×10^{-4}	
		(10 ~ 20) Hz	1.0×10^{-4}	
		20 Hz ~ 1 kHz	5.0×10^{-5}	
		(1 ~ 5) kHz	9.0×10^{-5}	
		(5 ~ 10) kHz	5.0×10^{-4}	
		(2 mA ~ 5 mA)		
		10 Hz	7.0×10^{-5}	
		(10 ~ 20) Hz	5.0×10^{-5}	
		20 Hz ~ 1 kHz	3.2×10^{-5}	
		(1 ~ 5) kHz	9.0×10^{-5}	
		(5 ~ 10) kHz	3.4×10^{-4}	
		(5 mA ~ 10 mA)		
		10 Hz	1.0×10^{-4}	
		(10 ~ 20) Hz	6.0×10^{-5}	
		20 Hz ~ 1 kHz	3.5×10^{-5}	
		(1 ~ 5) kHz	1.0×10^{-4}	
		(5 ~ 10) kHz	4.0×10^{-4}	
		(10 mA ~ 20 mA)		
		10 Hz	1.7×10^{-4}	
		(10 ~ 20) Hz	1.0×10^{-4}	
		20 Hz ~ 1 kHz	4.4×10^{-5}	
		(1 ~ 5) kHz	1.1×10^{-4}	
		(5 ~ 10) kHz	5.5×10^{-4}	
		(20 mA ~ 50 mA)		
		10 Hz	8.0×10^{-5}	
		(10 ~ 20) Hz	6.0×10^{-5}	
		20 Hz ~ 1 kHz	3.2×10^{-5}	
		(1 ~ 5) kHz	9.0×10^{-5}	
		(5 ~ 10) kHz	4.0×10^{-4}	
		(50 mA ~ 100 mA)		
		10 Hz	1.0×10^{-4}	
		(10 ~ 20) Hz	7.0×10^{-5}	
		20 Hz ~ 1 kHz	3.5×10^{-5}	
		(1 ~ 5) kHz	9.0×10^{-5}	
		(5 ~ 10) kHz	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
Noise meters AC Voltage Test	40420	(600 μV) 1 kHz	7.8×10^{-3}	Calibrator/ SICT-CP-40420
		(600 μV ~ 20 mV) 10 Hz ~ 40 Hz	2.6×10^{-3}	
		40 Hz ~ 20 kHz	2.5×10^{-3}	
		20 kHz ~ 100 kHz	3.5×10^{-3}	
		100 kHz ~ 300 kHz	7.0×10^{-3}	
		300 kHz ~ 1 MHz	1.5×10^{-2}	
		(20 mV ~ 200 mV) 10 Hz ~ 40 Hz	5.2×10^{-4}	
		40 Hz ~ 20 kHz	3.4×10^{-4}	
		20 kHz ~ 300 kHz	8.8×10^{-4}	
		300 kHz ~ 1 MHz	4.3×10^{-3}	
		(200 mV ~ 2 V) 10 Hz ~ 40 Hz	3.5×10^{-4}	
		40 Hz ~ 20 kHz	1.5×10^{-4}	
		20 kHz ~ 100 kHz	4.6×10^{-4}	
		100 kHz ~ 300 kHz	8.8×10^{-4}	
		300 kHz ~ 1 MHz	3.4×10^{-3}	
		(2 V ~ 20 V) 10 Hz ~ 40 Hz	3.0×10^{-4}	
		40 Hz ~ 100 kHz	1.2×10^{-4}	
		100 kHz ~ 300 kHz	4.4×10^{-4}	
		300 kHz ~ 1 MHz	2.2×10^{-3}	
		(20 V ~ 200 V) 10 Hz ~ 40 Hz	3.0×10^{-4}	
		40 Hz ~ 20 kHz	1.2×10^{-4}	
		20 kHz ~ 100 kHz	1.8×10^{-4}	
		(200 V ~ 500 V) 50 Hz ~ 1 kHz	3.8×10^{-4}	
		(500 V ~ 1 000 V) 50 Hz ~ 1 kHz	3.7×10^{-4}	
		(25 mV ~ 500 mV) 1 MHz ~ 30 MHz	1.3×10^{-2}	
		(500 mV ~ 2 V) 0.1 MHz ~ 30 MHz	1.4×10^{-2}	

404. Other DC & LF measurements

Measured Quantity Instrument or Gauge	Field Code	Range	CMC (The Confidence Level is about 95 %)	Comments
Noise meters	40420	(DIN/NOISE) 31.5 Hz ~ 10 kHz (JIS A) 31.5 Hz ~ 16 kHz (CCIR) 31.5 Hz ~ 31.5 kHz (CCIR/ARM) 31.5 Hz ~ 31.5 kHz	0.10 dB 0.10 dB 0.10 dB 0.10 dB	Calibrator/ SICT-CP-40420
Weighting Test				
AC Voltage Output		(10 mV) 1 kHz (10 mV ~ 1 V) 20 Hz ~ 1 kHz 1 kHz ~ 10 kHz 10 kHz ~ 100 kHz	4.4×10^{-4} 2.0×10^{-4} 1.7×10^{-4} 1.0×10^{-3}	
DC Voltage Output		0 mV ~ 100 mV 100 mV ~ 1 V	0.82 μ V 8.2×10^{-6}	
Oscilloscopes	40421	50 Ω 75 Ω 1 M Ω	2.9×10^{-5} 2.4×10^{-5} 2.3×10^{-5}	Calibration Generator/ SICT-CP-40421
Impedance Measure				
DC Voltage		(\pm) 0 mV (0 ~ 1) mV (1 ~ 5) mV (5 ~ 10) mV (10 ~ 100) mV (100 ~ 900) mV (0.9 ~ 9) V (9 ~ 200) V	0.79 μ V 8.0×10^{-4} 4.1×10^{-4} 1.4×10^{-4} 4.6×10^{-5} 1.5×10^{-5} 7.5×10^{-6} 9.5×10^{-6}	
AC Voltage(Square wave)		(1 kHz) 1 mV (1 ~ 25) mV (0.025 ~ 0.5) V (0.5 ~ 2.2) V (2.2 ~ 130) V	6.7×10^{-3} 8.8×10^{-4} 9.1×10^{-4} 6.8×10^{-4} 8.4×10^{-4}	
Time Marker		100 ps 100 ps ~ 200 ps 200 ps ~ 20 ms 20 ms ~ 5 s	6.2×10^{-7} 3.1×10^{-7} 9.4×10^{-7} 3.1×10^{-6}	
CAL Output Amplitude		(40 Hz ~ 20 kHz) 100 mV 100 mV ~ 12 V	8.1×10^{-5} 4.3×10^{-5}	
CAL Output Frequency		100 Hz ~ 10 MHz	6.2×10^{-7}	

404. Other DC & LF measurements

Measured Quantity Instrument or Gauge	Field Code	Range	CMC (The Confidence Level is about 95 %)	Comments
Oscilloscopes Sine Wave Signal Generator Level AC Voltage(Sine wave)	40421	50 kHz 50 kHz ~ 1 MHz 1 MHz ~ 1 GHz (1 ~ 4) GHz (4 ~ 18) GHz (18 ~ 25) GHz (25 ~ 33) GHz (10 Hz ~ 40 Hz) 2 mV (2 ~ 20) mV (20 ~ 200) mV (0.2 ~ 20) V (20 ~ 100) V (40 Hz ~ 1 kHz) 2 mV (2 ~ 20) mV (20 ~ 800) mV (0.8 ~ 20) V (20 ~ 200) V (1 kHz ~ 50 kHz) 2 mV (2 ~ 20) mV (20 ~ 200) mV (0.2 ~ 20) V (20 ~ 100) V (50 kHz ~ 100 kHz) 2 mV (2 ~ 20) mV (20 ~ 200) mV (0.2 ~ 20) V (20 ~ 100) V	2.3×10^{-2} 4.7×10^{-2} 1.8×10^{-2} 2.3×10^{-2} 2.8×10^{-2} 3.3×10^{-2} 3.8×10^{-2} $5.3 \mu\text{V}$ 1.9×10^{-3} 6.8×10^{-4} 4.3×10^{-4} 4.5×10^{-4} $4.9 \mu\text{V}$ 1.7×10^{-3} 3.3×10^{-4} 8.5×10^{-5} 1.3×10^{-4} $5.2 \mu\text{V}$ 1.9×10^{-3} 4.8×10^{-4} 1.3×10^{-4} 1.7×10^{-4} $7.1 \mu\text{V}$ 2.7×10^{-3} 9.0×10^{-4} 1.9×10^{-4} 3.0×10^{-4}	Calibration Generator/ SICT-CP-40421
LF phase meters Phase Test	40422	(1 Hz ~ 200 kHz) -180° ~ 180°	0.074°	Multi Function Generator/ SICT-CP-40422
Volt/Current recorders DC Voltage	40424	(±) 0 μV ~ 100 μV 100 μV ~ 1 mV 1 mV ~ 10 mV 10 mV ~ 1 V 1 V ~ 10 V 10 V ~ 100 V 100 V ~ 1 000 V	0.51 μV 5.1×10^{-3} 5.2×10^{-4} 5.9×10^{-5} 6.7×10^{-6} 6.3×10^{-6} 8.7×10^{-6}	Calibrator/ SICT-CP-40424

404. Other DC & LF measurements

Measured Quantity Instrument or Gauge	Field Code	Range	CMC (The Confidence Level is about 95 %)	Comments
Volt/Current recorders DC Current	40424	(±) 0 nA ~ 1 nA 1 nA ~ 10 nA 10 nA ~ 1 µA 1 µA ~ 10 µA 10 µA ~ 100 µA 100 µA ~ 1 mA 1 mA ~ 10 mA 10 mA ~ 100 mA 100 mA ~ 1 A 1 A ~ 100 A	6.9 pA 6.9×10^{-3} 4.6×10^{-3} 2.3×10^{-3} 7.2×10^{-4} 1.4×10^{-4} 7.6×10^{-5} 8.4×10^{-5} 1.2×10^{-4} 2.1×10^{-4}	Calibrator/ SICT-CP-40424
Relay test sets DC Voltage DC Current AC Voltage AC Current Timer	40425	1 mV ~ 10 V 10 V ~ 100 V 100 V ~ 300 V 300 V ~ 1 000 V 1 mA ~ 100 mA 100 mA ~ 1 A 1 A ~ 20 A 20 A ~ 100 A (1 mV ~ 100 mV) 20 Hz ~ 10 kHz 10 kHz ~ 100 kHz (100 mV ~ 1 V) 20 Hz ~ 100 kHz 100 kHz ~ 1 MHz (1 V ~ 10 V) 20 Hz ~ 10 kHz 10 kHz ~ 100 kHz 100 kHz ~ 1 MHz (10 V ~ 100 V) 20 Hz ~ 10 kHz 10 kHz ~ 100 kHz (100 V ~ 1 000 V) 50 Hz ~ 10 kHz 10 kHz ~ 30 kHz (1 mA ~ 100 mA) 40 Hz ~ 10 kHz (100 mA ~ 1 A) 40 Hz ~ 10 kHz (1 A ~ 10 A) 40 Hz ~ 10 kHz (10 A ~ 100 A) 40 Hz ~ 10 kHz 1 s ~ 100 s	5.8×10^{-3} 5.8×10^{-4} 5.8×10^{-5} 2.2×10^{-5} 5.8×10^{-2} 6.0×10^{-4} 6.3×10^{-4} 4.9×10^{-4} 6.3×10^{-4} 6.3×10^{-2} 5.9×10^{-3} 4.3×10^{-2} 6.1×10^{-4} 5.8×10^{-3} 4.3×10^{-2} 6.1×10^{-4} 4.3×10^{-2} 1.9×10^{-4} 4.5×10^{-4} 6.2×10^{-2} 1.2×10^{-3} 1.3×10^{-3} 2.7×10^{-4} 5.8×10^{-6}	Digital Multimeter/ SICT-CP-40425

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 Multimeter/ SICT-CP-40426
Frequency Test		1 Hz ~ 100 MHz	5.8×10^{-9}	
Output Level Test		(10 Hz ~ 100 Hz)		
		1 mV ~ 10 mV	1.7×10^{-2}	
		10 mV ~ 100 mV	3.3×10^{-3}	
		100 mV ~ 10 V	4.8×10^{-4}	
		10 V ~ 100 V	4.1×10^{-4}	
		(100 Hz ~ 10 kHz)		
		1 mV ~ 10 mV	6.0×10^{-3}	
		10 mV ~ 100 mV	8.0×10^{-4}	
		100 mV ~ 100 V	1.7×10^{-4}	
		(10 kHz ~ 100 kHz)		
		1 mV ~ 10 mV	2.5×10^{-2}	
		10 mV ~ 100 mV	3.3×10^{-3}	
		100 mV ~ 100 V	1.0×10^{-3}	
DC Offset		(±)		
		0 mV ~ 1 mV	0.80 μV	
		1 mV ~ 100 mV	1.0×10^{-4}	
		100 mV ~ 20 V	6.0×10^{-5}	
Output Level Flatness Test		(100 mV ~ 1 V)		
		10 Hz ~ 10 kHz	0.006 8 dB	
		10 kHz ~ 100 kHz	0.011 dB	
		(1 V ~ 30 V)		
		10 Hz ~ 10 kHz	0.012 dB	
		10 kHz ~ 100 kHz	0.019 dB	
Attenuator Test		(10 Hz ~ 100 Hz)		
		0 dB ~ 80 dB	0.006 2 dB	
		(100 Hz ~ 10 kHz)		
		0 dB ~ 80 dB	0.006 1 dB	
		(10 kHz ~ 100 kHz)		
		0 dB ~ 0.1 dB	0.007 2 dB	
		0.1 dB ~ 30 dB	0.008 0 dB	
		30 dB ~ 80 dB	0.006 3 dB	
Distortion		(20 Hz ~ 1 kHz)		
		3.16 % ~ 0.010 %	2.2×10^{-1}	
		(1 kHz ~ 100 kHz)		
		3.16 % ~ 0.010 %	3.4×10^{-1}	
Rise/Fall Time		10 μs ~ 100 ns	6.3×10^{-4}	
		100 ns ~ 10 ns	7.8×10^{-4}	
		10 ns ~ 1 ns	4.7×10^{-3}	
		1 ns ~ 100 ps	4.7×10^{-2}	
Duty cycle		1 % ~ 99 %	0.006 2 %	

404. Other DC & LF measurements

Measured Quantity Instrument or Gauge	Field Code	Range	CMC (The Confidence Level is about 95 %)	Comments
LF spectrum analyzers	40427			Synthesizer Function Generator/ SICT-CP-40427
Frequency Accuracy		10 Hz ~ 100 kHz 100 kHz ~ 150 MHz	6.1×10^{-8} 6.1×10^{-9}	
Logscale Fidelity		0 ~ -30 dB -30 ~ -50 dB -50 ~ -80 dB -80 ~ -100 dB	0.05 dB 0.06 dB 0.10 dB 0.12 dB	
Frequency Response		100 kHz ~ 150 MHz	0.06 dB	
Output frequency		10 Hz ~ 100 kHz 100 kHz ~ 150 MHz	6.1×10^{-8} 6.1×10^{-9}	
Output Level		-20 dBm ~ -10 dBm -10 dBm ~ 0 dBm 0 dBm ~ 10 dBm	0.06 dB 0.09 dB 0.67 dB	
Spot generators	40428			Audio Analyzer, Digital Multimeter/ SICT-CP-40428
Frequency		1 Hz ~ 100 kHz	5.8×10^{-9}	
Output Level		(10 Hz) 100 mV ~ 1 V 1 V ~ 10 V	1.5×10^{-4} 1.2×10^{-4}	
		(10 Hz ~ 100 Hz) 100 mV ~ 1 V 1 V ~ 10 V	1.7×10^{-4} 1.2×10^{-4}	
		(100 Hz ~ 10 kHz) 100 mV ~ 1 V 1 V ~ 10 V	1.7×10^{-4} 1.2×10^{-4}	
		(10 kHz ~ 100 kHz) 100 mV ~ 1 V 1 V ~ 10 V	1.1×10^{-3} 8.2×10^{-4}	
Output Level Flatness		(100 mV ~ 1 V) 10 Hz ~ 10 kHz 10 kHz ~ 100 kHz	0.006 0 dB 0.011 dB	
		(1 V ~ 10 V) 10 Hz ~ 10 kHz 10 kHz ~ 100 kHz	0.005 9 dB 0.009 2 dB	
Attenuation		(10 Hz ~ 100 Hz) 0 dB ~ 80 dB	0.006 2 dB	
		(100 Hz ~ 10 kHz) 0 dB ~ 80 dB	0.006 1 dB	
		(10 kHz ~ 100 kHz) 0 dB ~ 0.1 dB 0.1 dB ~ 30 dB 30 dB ~ 80 dB	0.007 2 dB 0.008 0 dB 0.006 3 dB	
Distortion		(20 Hz ~ 1 kHz) 3.16 % ~ 0.010 %	2.2×10^{-1}	
		(1 kHz ~ 100 kHz) 3.16 % ~ 0.010 %	3.4×10^{-1}	

404. Other DC & LF measurements

Measured Quantity Instrument or Gauge	Field Code	Range	CMC (The Confidence Level is about 95 %)	Comments	
Sweep generators	40429	Frequency	1 Hz ~ 100 kHz	5.8×10^{-9}	Audio Analyzer, Digital Multimeter/ SICT-CP-40429
Output Level Test		(10 Hz ~ 100 Hz)	1 mV ~ 10 mV	1.7×10^{-2}	
			10 mV ~ 100 mV	1.9×10^{-3}	
			100 mV ~ 10 V	4.8×10^{-4}	
		(100 Hz ~ 10 kHz)	1 mV ~ 10 mV	6.0×10^{-3}	
			10 mV ~ 100 mV	8.0×10^{-4}	
			100 mV ~ 10 V	1.7×10^{-4}	
Output Level Flatness		(10 kHz ~ 100 kHz)	1 mV ~ 10 mV	2.5×10^{-2}	
			10 mV ~ 100 mV	3.3×10^{-3}	
			100 mV ~ 10 V	1.0×10^{-3}	
		(100 mV ~ 1 V)	10 Hz ~ 10 kHz	0.006 8 dB	
			10 kHz ~ 100 kHz	0.011 dB	
		(1 V ~ 10 V)	10 Hz ~ 10 kHz	0.006 7 dB	
			10 kHz ~ 100 kHz	0.009 dB	
Attenuation		(10 Hz ~ 100 Hz)	0 dB ~ 80 dB	0.006 2 dB	
	(100 Hz ~ 10 kHz)	0 dB ~ 80 dB	0.006 1 dB		
	(10 kHz ~ 100 kHz)	0 dB ~ 0.1 dB	0.007 2 dB		
		0.1 dB ~ 30 dB	0.008 0 dB		
		30 dB ~ 80 dB	0.006 3 dB		
Distortion	(20 Hz ~ 1 kHz)	3.16 % ~ 0.010 %	2.2×10^{-1}		
	(1 ~ 100 kHz)	3.16 % ~ 0.010 %	3.4×10^{-1}		
Signal transducers	40430	Voltage	1 mV ~ 10 mV	5.2×10^{-4}	Digital Multimeter/ SICT-CP-40430
			10 mV ~ 1 V	8.8×10^{-5}	
			1 V ~ 100 V	3.1×10^{-5}	
			100 V ~ 300 V	4.3×10^{-3}	
Current		10 μA ~ 100 μA	9.5×10^{-4}		
		100 μA ~ 100 mA	9.7×10^{-5}		
		100 mA ~ 20 A	2.0×10^{-4}		
Frequency		1 Hz ~ 10 Hz	3.1×10^{-4}		
		10 Hz ~ 100 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
Transistor curve tracers DC Voltage(Source) DC Current(Source) DC Voltage(Measure)	40432	0 mV ~ 100 mV 100 mV ~ 1 V 1 V ~ 10 V 10 V ~ 1 000 V 0 μA ~ 100 μA 100 μA ~ 1 mA 1 mA ~ 10 mA 10 mA ~ 100 mA 100 mA ~ 1 A 1 A ~ 10 A 0 mV ~ 100 mV 100 mV ~ 1 V 1 V ~ 100 V 100 V ~ 1 000 V	0.80 μV 8.0×10^{-6} 7.5×10^{-6} 8.2×10^{-6} 1.7 nA 1.7×10^{-5} 1.8×10^{-5} 4.9×10^{-5} 2.2×10^{-4} 4.9×10^{-4} 1.5 μV 6.0×10^{-4} 6.4×10^{-4} 6.1×10^{-4}	Digital Multimeter/ SICT-CP-40432
AC/DC high voltage generators DC Voltage AC Voltage	40434	(±) 0 kV (0 ~ 0.5) kV (0.5 ~ 1) kV (1 ~ 2) kV (2 ~ 5) kV (5 ~ 10) kV (10 ~ 20) kV (20 ~ 30) kV (30 ~ 100) kV (100 ~ 200) kV (50 Hz) 0.01 kV (0.01 ~ 0.5) kV (0.5 ~ 1) kV (1 ~ 2) kV (2 ~ 3) kV (3 ~ 10) kV (10 ~ 100) kV (100 ~ 200) kV (60 Hz) 0.01 kV (0.01 ~ 0.5) kV (0.5 ~ 1) kV (1 ~ 2) kV (2 ~ 3) kV (3 ~ 10) kV (10 ~ 100) kV (100 ~ 200) kV	0.58 V 1.2×10^{-3} 6.1×10^{-4} 6.5×10^{-4} 5.7×10^{-4} 5.6×10^{-4} 5.5×10^{-4} 5.7×10^{-4} 5.6×10^{-4} 1.2×10^{-2} 0.58 V 1.2×10^{-3} 6.2×10^{-4} 5.7×10^{-4} 5.3×10^{-4} 5.1×10^{-4} 5.4×10^{-4} 1.2×10^{-2} 0.58 V 1.2×10^{-3} 6.2×10^{-4} 5.3×10^{-4} 5.0×10^{-4} 4.8×10^{-4} 5.0×10^{-4} 1.2×10^{-2}	High Voltage Digital Meter/ SICT-CP-40434

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 probes	40435			DC Power Supply/ SICT-CP-40435
DC Voltage		(±) 0 kV (0 ~ 0.5) kV (0.5 ~ 1) kV (1 ~ 2) kV (2 ~ 3) kV (3 ~ 10) kV (10 ~ 20) kV (20 ~ 100) kV	0.58 V 1.2×10^{-3} 6.1×10^{-4} 6.5×10^{-4} 6.0×10^{-4} 5.8×10^{-4} 5.5×10^{-4} 5.8×10^{-4}	
AC Voltage		(50 Hz, 60 Hz) 0.01 kV (0.01 ~ 0.5) kV (0.5 ~ 1) kV (1 ~ 5) kV (5 ~ 10) kV (10 ~ 20) kV (20 ~ 100) kV	0.072 V 4.8×10^{-3} 4.9×10^{-3} 4.8×10^{-3} 4.9×10^{-3} 4.8×10^{-3} 5.0×10^{-3}	
DC Voltage(Differential)		(±) 1 : 1 0 V (0 ~ 1) V (1 ~ 1 000) V	0.061 mV 6.2×10^{-5} 3.2×10^{-5}	
		10 : 1 0 V (0 ~ 1) V (1 ~ 1 000) V	0.61 mV 6.1×10^{-4} 3.1×10^{-4}	
		100 : 1 0 V (0 ~ 1) V (1 ~ 1 000) V	0.61 mV 6.1×10^{-4} 2.1×10^{-4}	
		1 000 : 1 0 V (0 ~ 1) V (1 ~ 1 000) V (1 ~ 20) kV	5.8 mV 5.8×10^{-3} 2.1×10^{-4} 5.0×10^{-4}	
AC Voltage(Differential)		1 : 1 (40 Hz ~ 20 kHz) 0.1 V (0.1 ~ 1) V (1 ~ 1 000) V	0.072 mV 1.0×10^{-4} 3.7×10^{-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 probes AC Voltage(Differential)	40435	10 : 1 (40 Hz ~ 20 kHz) 0.1 V (0.1 ~ 1) V (1 ~ 1 000) V 100 : 1 (40 Hz ~ 20 kHz) 0.1 V (0.1 ~ 1) V (1 ~ 1 000) V 1 000 : 1 (40 Hz ~ 20 kHz) 0.1 V (0.1 ~ 1) V (1 ~ 1 000) V 1 000 : 1 (50 Hz , 60 Hz) (1 ~ 20) kV	0.61 mV 6.2×10^{-4} 3.7×10^{-4} 0.64 mV 7.3×10^{-4} 6.2×10^{-4} 7.4 mV 7.5×10^{-3} 7.3×10^{-4} 1.0×10^{-2}	DC Power Supply/ SICT-CP-40435
Logic analyzers DC Voltage	40436	0 mV ~ 100 mV 100 mV ~ 1 V 1 V ~ 10 V	1.5 μ V 1.5×10^{-5} 8.8×10^{-6}	Calibrator/ SICT-CP-40436
Telephone testers L1, L2 Output Voltage Loop Current Ring Output Voltage Ring Frequency D.T.M.F & Pulse D.T.M.F & Frequency	40437	1 mV ~ 100 mV 100 mV ~ 1 V 1 V ~ 10 V 10 V ~ 1 000 V 100 μ A ~ 10 mA 10 mA ~ 100 mA 100 mA ~ 1 A 1 A ~ 10 A (10 Hz ~ 20 kHz) 100 mV 100 mV ~ 100 V 100 V ~ 1 000 V 1 Hz ~ 1 000 Hz +10 dBm ~ -39.9 dBm 697 Hz ~ 1 477 Hz	9.9×10^{-4} 1.1×10^{-5} 7.4×10^{-6} 8.8×10^{-6} 2.5×10^{-5} 5.2×10^{-5} 2.2×10^{-4} 4.7×10^{-4} 4.7×10^{-4} 2.9×10^{-4} 3.1×10^{-4} 7.3×10^{-5} 0.089 dB 0.59 Hz	Tone Pulse Simulator/ SICT-CP-40437

404. Other DC & LF measurements

Measured Quantity Instrument or Gauge	Field Code	Range	CMC (The Confidence Level is about 95 %)	Comments
Video signal analyzers	40438			Video Amplitude Calibration
Color Bar Decoding Accuracy(Gain)		0 mV ~ 5 mV	2.5×10^{-1}	Fixture/ SICT-CP-40438
		5 mV ~ 10 mV	5.0×10^{-2}	
		10 mV ~ 100 mV	8.2×10^{-2}	
		100 mV ~ 200 mV	4.1×10^{-2}	
		200 mV ~ 500 mV	2.1×10^{-2}	
		500 mV ~ 1 000 mV	8.5×10^{-3}	
Color Bar Decoding Accuracy(Phase)		0° ~ 360°	0.70°	
Frequency		20 Hz ~ 5 MHz	5.8×10^{-6}	
Measure Square Wave		0 mV ~ 5 mV	9.4×10^{-2}	
		5 mV ~ 10 mV	2.0×10^{-2}	
		10 mV ~ 100 mV	9.9×10^{-3}	
		100 mV ~ 300 mV	2.1×10^{-3}	
		300 mV ~ 400 mV	1.5×10^{-3}	
		400 mV ~ 600 mV	1.2×10^{-3}	
		600 mV ~ 999.9 mV	9.4×10^{-4}	
Measure Sine Wave		No Filter, PAL NTS BW Lim, NTSC,PAL Chroma BP, NTSC,PAL (10 kHz ~ 10 MHz) 500 mV	7.0×10^{-3}	
Burst Frequency		3 MHz ~ 5 MHz	4.0×10^{-7}	
Horizontal Gain		0 mV ~ 5 mV	9.4×10^{-2}	
		5 mV ~ 10 mV	2.0×10^{-2}	
		10 mV ~ 100 mV	9.9×10^{-3}	
		100 mV ~ 300 mV	2.1×10^{-3}	
		300 mV ~ 600 mV	1.5×10^{-3}	
		600 mV ~ 999.9 mV	9.4×10^{-4}	
Horizontal Frequency		20 Hz ~ 100 Hz	3.1×10^{-3}	
		100 Hz ~ 10 kHz	6.1×10^{-4}	
		10 kHz ~ 10 MHz	6.1×10^{-5}	
Gain Frequency Response		Flat, Luminance, Chroma at (20 Hz ~ 20 MHz) 700 mV	7.0×10^{-3}	
Transient Response		0 mV ~ 1 000 mV	1.3×10^{-2}	
(Video Noise)				
Luminance Volt Level		0 dB ~ -30 dB	4.8×10^{-1}	
Chrominance AM/PM Level		0 dB ~ -30 dB	6.7×10^{-1}	
Luminance Volt Level		0 mV ~ 1 000 mV	1.7×10^{-5}	
Luminance Input Level		0 mV ~ 1 000 mV	1.8×10^{-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 Flux	40503	(0.1 ~ 5) mWb 5 mWb ~ 10 Wb	1.2×10^{-3} 6.0×10^{-4}	Flux sources/ SICT-CP-40503
Flux sources Flux	40504	(0.1 ~ 50) mWb (0.05 ~ 0.5) Wb (0.5 ~ 1) Wb (1 ~ 5) Wb (5 ~ 10) Wb	9.0×10^{-4} 1.0×10^{-5} 1.2×10^{-5} 1.1×10^{-5} 1.0×10^{-5}	GPS receiver, Frequency counter/ SICT-CP-40504
Magnetometers Gauss	40508	0 μ T (0 ~ 10) μ T (10 ~ 20) μ T (20 ~ 30) μ T (30 ~ 40) μ T (40 ~ 50) μ T (0.05 ~ 0.1) mT (0.1 ~ 0.5) mT (0.5 ~ 1) mT (1 ~ 3) mT (3 ~ 5) mT (5 ~ 20) mT (20 ~ 30) mT (30 ~ 1 700) mT	0.14 μ T 1.7×10^{-2} 1.2×10^{-2} 1.1×10^{-2} 1.0×10^{-2} 9.8×10^{-3} 1.3×10^{-2} 5.5×10^{-3} 6.8×10^{-3} 3.5×10^{-3} 3.0×10^{-3} 2.8×10^{-3} 6.3×10^{-3} 6.2×10^{-3}	Helmholtz coil, Standard magnets/ SICT-CP-40508
Reference/standard magnets Gauss	40510	(1.5 ~ 30) mT (30 ~ 1 000) mT	7.1×10^{-3} 2.4×10^{-3}	Gaussmeters/ SICT-CP-40510

406. Radio frequency measurements

Measured Quantity Instrument or Gauge	Field Code	Range	CMC (The Confidence Level is about 95 %)	Comments
Attenuator calibrators Attenuation Test	40606	0 dB ~ 10 dB 10 dB ~ 20 dB 20 dB ~ 30 dB 30 dB ~ 40 dB 40 dB ~ 50 dB 50 dB ~ 60 dB 60 dB ~ 70 dB 70 dB ~ 80 dB 80 dB ~ 90 dB 90 dB ~ 100 dB 100 dB ~ 110 dB 110 dB ~ 120 dB	0.014 dB 0.016 dB 0.019 dB 0.022 dB 0.025 dB 0.030 dB 0.033 dB 0.036 dB 0.039 dB 0.043 dB 0.048 dB 0.051 dB	Verification Kit/ SICT-CP-40606
RF power meter calibrators Power Range	40607	3 μW 10 μW 30 μW 100 μW 300 μW 1 mW 3 mW 10 mW 30 mW 100 mW	71 pW 0.21 nW 0.72 nW 2.0 nW 7.2 nW 0.10 μW 0.12 μW 0.81 μW 1.0 μW 8.0 μW	Digital Multimeter/ SICT-CP-40607
EMC transducers ; current probes, absorbing clamps, etc Transfer Impedance Insertion Loss Electric Magnetic Near-Field	40608	10 Hz ~ 3 GHz 30 MHz ~ 1 GHz 100 kHz ~ 1 GHz	1.8 dB 2.0 dB 1.9 dB	Power Senso, Network analyzer/ SICT-CP-40608
Coaxial directional couplers/ splitters Directional couplering	40610	(0 dB ~ 30 dB) 20 Hz ~ 10 kHz 10 kHz ~ 100 kHz 100 kHz ~ 500 MHz 500 MHz ~ 2 GHz 2 GHz ~ 10 GHz 10 GHz ~ 18 GHz 18 GHz ~ 26.5 GHz 26.5 GHz ~ 40 GHz (30 dB ~ 80 dB) 20 Hz ~ 10 kHz 10 kHz ~ 100 kHz 100 kHz ~ 500 MHz 500 MHz ~ 6 GHz 6 GHz ~ 10 GHz 10 GHz ~ 18 GHz 18 GHz ~ 40 GHz	0.006 2 dB 0.015 dB 0.084 dB 0.10 dB 0.14 dB 0.18 dB 0.19 dB 0.20 dB 0.007 7 dB 0.028 dB 0.12 dB 0.13 dB 0.15 dB 0.19 dB 0.21 dB	Power Sensor, Synthesized Sweeper/ SICT-CP-40610

406. Radio frequency measurements

Measured Quantity Instrument or Gauge	Field Code	Range	CMC (The Confidence Level is about 95 %)	Comments		
Electrostatic discharge generators Semiconductor Peak Current MM	40613	(±) 0 A ~ 1.74 A 1.74 A ~ 7.0 A 7.0 A ~ 14 A	1.1×10^{-2} 1.2×10^{-2} 1.3×10^{-2}	Digital Oscilloscope/ SICT-CP-40613		
Time		0.1 ns ~ 1 ns 1 ns ~ 10 ns 10 ns ~ 1 000 ns	9.8×10^{-3} 9.2×10^{-4} 6.2×10^{-4}			
HV		(±) 0 kV ~ 10 kV 10 kV ~ 15 kV 15 kV ~ 20 kV 20 kV ~ 25 kV 25 kV ~ 30 kV	4.0×10^{-3} 2.7×10^{-3} 3.0×10^{-3} 4.8×10^{-3} 4.7×10^{-3}			
EMC receivers		40614	Frequency		100 kHz ~ 1 GHz 6.1×10^{-10}	Network Analyzer, Pulse Generator/ SICT-CP-40614
VSWR			9 kHz ~ 6 GHz 6 GHz ~ 18 GHz 18 GHz ~ 40 GHz		0.024 0.032 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			9 kHz ~ 50 MHz 50 MHz ~ 1 GHz 1 GHz ~ 10 GHz 10 GHz ~ 18 GHz 18 GHz ~ 40 GHz		0.036 dB 0.064 dB 0.074 dB 0.094 dB 0.13 dB	
Frequency Response (CISPR)			9 kHz ~ 1 GHz 0.78 dB			
Level Linearity			80 dBμV ~ 50 dBμV 50 dBμV ~ 0 dBμV		0.09 dB 0.12 dB	
Input Attenuation			0 dB ~ 30 dB 30 dB ~ 70 dB 70 dB ~ 110 dB		0.14 dB 0.12 dB 0.09 dB	
Noise Indicator	DC ~ 26.5 GHz 0.14 dB					
Video or IF Rejection ratio	9 kHz ~ 40 GHz 0.62 dB					
RF filters	40615		Filter	9 kHz ~ 500 kHz 500 kHz ~ 500 MHz 500 MHz ~ 18 GHz 18 GHz ~ 40 GHz	Network Analyzer/ SICT-CP-40615	
Gain Loss		9 kHz ~ 1 GHz 1 GHz ~ 20 GHz 20 GHz ~ 40 GHz	0.064 kHz 0.64 kHz 6.4 kHz 64 kHz 0.091 dB 0.11 dB 0.51 dB			

406. Radio frequency measurements

Measured Quantity Instrument or Gauge	Field Code	Range	CMC (The Confidence Level is about 95 %)	Comments
RF impedance meters RF Level Frequency Load Measurement	40616	(9 kHz ~ 18 GHz) 35 dBm ~ 20 dBm 20 dBm ~ -20 dBm -20 dBm ~ -70 dBm 9 kHz ~ 0.1 MHz 0.1 MHz ~ 18 GHz DC 10 Hz ~ 100 MHz 100 MHz ~ 500 MHz 500 MHz ~ 1.8 GHz 1.8 GHz ~ 18 GHz	0.10 dB 0.082 dB 0.12 dB 6.8×10^{-10} 8.5×10^{-11} 0.02 Ω 0.06 Ω 0.16 Ω 0.21 Ω 0.41 Ω	Performance Kit/ SICT-CP-40616
RF impulse generators Peak Voltage Pulse Width	40617	(\pm) 0 kV ~ 0.1 kV 0.1 kV ~ 0.2 kV 0.2 kV ~ 0.5 kV 0.5 kV ~ 1 kV 1 kV ~ 2 kV 2 kV ~ 3 kV 3 kV ~ 4 kV 4 kV ~ 5 kV 10 ns 10 ns ~ 50 ns 50 ns ~ 100 ns 100 ns ~ 200 ns 200 ns ~ 400 ns 400 ns ~ 500 ns 500 ns ~ 800 ns 800 ns ~ 1 000 ns	1.4×10^{-2} 1.3×10^{-2} 1.0×10^{-2} 1.1×10^{-2} 1.5×10^{-2} 1.7×10^{-2} 1.3×10^{-2} 1.0×10^{-2} 1.4×10^{-2} 2.8×10^{-3} 1.5×10^{-3} 6.1×10^{-3} 3.0×10^{-3} 2.4×10^{-3} 1.5×10^{-3} 1.2×10^{-3}	Digital Oscilloscope/ SICT-CP-40617
Line impedance stabilization networks; LISN, CDN, ISN, etc. Impedance Phase Insertion Loss Decoupling attenuation(Isolation) Coupling/Decoupling network (Impedance) Coupling/Decoupling network (Insertion loss)	40618	9 kHz ~ 1 000 MHz 9 kHz ~ 30 kHz 0.03 MHz ~ 1 000 MHz (0 dB ~ 100 dB) 9 kHz ~ 30 kHz 0.03 MHz ~ 500 MHz 500 MHz ~ 1 000 MHz (0 dB ~ 100 dB) 9 kHz ~ 30 kHz 0.03 MHz ~ 500 MHz 500 MHz ~ 1 000 MHz 9 kHz ~ 1 000 MHz (0 dB ~ 100 dB) 0.03 MHz ~ 500 MHz	2.0×10^{-2} 1.8 ° 1.2 ° 0.60 dB 0.20 dB 0.26 dB 0.60 dB 0.20 dB 0.26 dB 2.1×10^{-2} 0.20 dB	Impedance/Gain-Phase Analyzer, Calibration Kit/ SICT-CP-40618

406. Radio frequency measurements

Measured Quantity Instrument or Gauge	Field Code	Range	CMC (The Confidence Level is about 95 %)	Comments
Coaxial standard mismatches Reflection coefficient (Γ) SWR Impedance (Z)	40619	(0.5 ~ 0.004 9) 9 kHz ~ 0.045 GHz 0.045 GHz ~ 2 GHz 2 GHz ~ 40 GHz (3.01 ~ 1.01) 9 kHz ~ 0.045 GHz 0.045 GHz ~ 2 GHz 2 GHz ~ 40 GHz (150 Ω ~ 50.5 Ω) 9 kHz ~ 0.045 GHz 0.045 GHz ~ 2 GHz 2 GHz ~ 40 GHz	0.009 2 0.009 8 0.008 4 0.018 0.002 0.016 0.94 0.90 0.84	Network Analyzer, Calibration Kit/ SICT-CP-40619
Mobile communication test sets RF Level Frequency Amplitude Modulation Frequency Modulation Phase Modulation Distortion of Modulation Hamonics AC Output Level DC Output Level AC Input Level DC Input Level RF Analyzer Level	40621	(100 kHz ~ 8 GHz) 35 dBm ~ 20 dBm 20 dBm ~ -20 dBm -20 dBm ~ -70 dBm -70 dBm ~ -100 dBm -100 dBm ~ -120 dBm 100 kHz ~ 8 GHz 0.1 % ~ 100 % 0.1 kHz ~ 400 kHz 0.1 rad ~ 400 rad 0 % ~ 20 % 0 dB ~ -90 dB (10 Hz ~ 100 kHz) 1 mV ~ 10 mV 10 mV ~ 0.1 V 0.1 V ~ 1 V 1 V ~ 10 V 1 mV ~ 10 mV 10 mV ~ 0.1 V 0.1 V ~ 1 V 1 V ~ 10 V (10 Hz ~ 100 kHz) 1 mV ~ 10 mV 10 mV ~ 100 mV 0.1 V ~ 1 V 1 V ~ 10 V 1 mV ~ 10 mV 10 mV ~ 100 mV 0.1 V ~ 1 V 1 V ~ 10 V (100 kHz ~ 8 GHz) 10 dBm ~ -20 dBm -20 dBm ~ -70 dBm	0.15 dB 0.076 dB 0.14 dB 0.19 dB 0.25 dB 6.2×10^{-11} 1.2×10^{-2} 1.2×10^{-2} 1.2×10^{-2} 2.3×10^{-2} 0.37 dB 5.7×10^{-3} 1.4×10^{-3} 1.0×10^{-3} 7.0×10^{-4} 5.0×10^{-4} 5.1×10^{-5} 1.3×10^{-5} 6.8×10^{-6} 1.2×10^{-2} 1.2×10^{-3} 7.4×10^{-4} 1.8×10^{-4} 1.4×10^{-3} 3.1×10^{-4} 6.7×10^{-5} 6.6×10^{-5} 0.13 dB 0.15 dB	Measuring Receiver, RF Signal Generator/ SICT-CP-40621

406. Radio frequency measurements

Measured Quantity Instrument or Gauge	Field Code	Range	CMC (The Confidence Level is about 95 %)	Comments	
Modulation meters	40622	Amplitude Modulation	0 % 0 % ~ 100 %	0.01 % 1.2×10^{-2}	Measuring Receiver/ SICT-CP-40622
Frequency Modulation		0 kHz 0.001 kHz ~ 400 kHz	1 Hz 1.2×10^{-2}		
Phase Modulation		0 rad 0.001 rad ~ 400 rad	1.2 mrad 1.2×10^{-2}		
Network analyzers	40623	Frequency	9 kHz ~ 40 GHz	6.8×10^{-10}	Power Sensor, Verification Kit/ SICT-CP-40623
Source Power Level		(20 dBm ~ -30 dBm)			
		9 kHz ~ 26.5 GHz	0.14 dB		
		26.5 GHz ~ 40 GHz	0.17 dB		
		40 GHz ~ 50 GHz	0.24 dB		
		50 GHz ~ 90 GHz	0.42 dB		
		90 GHz ~ 110 GHz	0.49 dB		
		(-30 dBm ~ -60 dBm)			
		9 kHz ~ 26 GHz	0.14 dB		
		26 GHz ~ 30 GHz	0.16 dB		
		30 GHz ~ 40 GHz	0.19 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	0.13 dB			
	80 dB ~ 100 dB	0.15 dB			
Attenuation	(20 dB)				
	300 kHz ~ 45 MHz	0.054 dB			
	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			

406. Radio frequency measurements

Measured Quantity Instrument or Gauge	Field Code	Range	CMC (The Confidence Level is about 95 %)	Comments
Network analyzers	40623	(± 180 °) 300 kHz 300 kHz ~ 45 MHz 45 MHz ~ 2.0 GHz 2.0 GHz ~ 3.0 GHz 3.0 GHz ~ 4.5 GHz 4.5 GHz ~ 6.0 GHz 6.0 GHz ~ 7.5 GHz 7.5 GHz ~ 8.0 GHz 8.0 GHz ~ 9.0 GHz 9.0 GHz ~ 10.5 GHz 10.5 GHz ~ 12.0 GHz 12.0 GHz ~ 13.5 GHz 13.5 GHz ~ 15.0 GHz 15.0 GHz ~ 16.5 GHz 16.5 GHz ~ 18.0 GHz 18.0 GHz ~ 19.5 GHz 19.5 GHz ~ 20.0 GHz 20.0 GHz ~ 21.0 GHz 21.0 GHz ~ 22.5 GHz 22.5 GHz ~ 24.0 GHz 24.0 GHz ~ 25.5 GHz 25.5 GHz ~ 26.5 GHz	1.1° 0.31° 0.21° 0.19° 0.23° 0.20° 0.24° 0.23° 0.22° 0.27° 0.25° 0.32° 0.33° 0.40° 0.37° 0.42° 0.37° 0.38° 0.41° 0.42° 0.52° 0.54°	Power Sensor, Verification Kit/ SICT-CP-40623
		(30 kHz ~ 2 GHz) 1.05 1.20 1.50 2.00 (2 GHz ~ 18 GHz) 1.05 1.20 1.50 2.00	0.013 0.013 0.013 0.013 0.014 0.014 0.014 0.014	
Noise figure meters	40624	10 MHz ~ 26.5 GHz 10 MHz 9 kHz ~ 6 GHz 6 GHz ~ 18 GHz 18 GHz ~ 26.5 GHz 0 V ~ 28 V 0 dB ~ 30 dB 10 MHz ~ 18 GHz 18 GHz ~ 26.5 GHz	5.9 × 10 ⁻⁵ 6.1 × 10 ⁻¹⁰ 0.024 0.031 0.063 0.000 17 V 0.054 dB 0.30 dB 0.53 dB	Noise Source/ SICT-CP-40624
Noise generators	40625	-80 dBm/Hz ~ -130 dBm/Hz 0 dB ~ 50 dB	0.10 dB 0.36 dB	Spectrum Analyzer/ SICT-CP-40625

406. Radio frequency measurements

Measured Quantity Instrument or Gauge	Field Code	Range	CMC (The Confidence Level is about 95 %)	Comments
Diode power sensors Cal Factor	40636	(100 μW ~ 10 mW) 9 kHz ~ 100 kHz 100 kHz ~ 1 GHz 1 GHz ~ 10 GHz 10 GHz ~ 18 GHz 18 GHz ~ 26.5 GHz 26.5 GHz ~ 40 GHz	0.4×10^{-2} 0.9×10^{-2} 1.1×10^{-2} 1.3×10^{-2} 2.7×10^{-2} 2.9×10^{-2}	Therimistor Mount, Synthesized Sweeper/ SICT-CP-40636
Thermocouple power sensors Cal Factor	40637	(100 μW ~ 10 mW) 9 kHz ~ 100 kHz 100 kHz ~ 1 GHz 1 GHz ~ 10 GHz 10 GHz ~ 18 GHz 18 GHz ~ 26.5 GHz 26.5 GHz ~ 40 GHz	0.4×10^{-2} 0.9×10^{-2} 1.1×10^{-2} 1.3×10^{-2} 2.7×10^{-2} 2.9×10^{-2}	Therimistor Mount, Synthesized Sweeper/ SICT-CP-40637
Pulse generators Period Frequency Width Delay Time Double Pulse Duty Cycle DC Level Output Level	40638	100 ps ~ 1 s 1 Hz ~ 3.35 GHz 1 s ~ 100 ns 100 ns ~ 10 ns 10 ns ~ 1 ns 1 ns ~ 100 ps 1 s ~ 100 ns 100 ns ~ 10 ns 10 ns ~ 1 ns 1 ns ~ 100 ps 1 s ~ 100 ns 100 ns ~ 10 ns 10 ns ~ 1 ns 1 ns ~ 100 ps 1 % ~ 99 % ±(10 mV ~ 100 V) (100 Hz ~ 10 kHz) 10 dBm ~ -20 dBm	5.8×10^{-9} 5.8×10^{-9} 5.9×10^{-4} 7.5×10^{-4} 4.7×10^{-3} 4.7×10^{-2} 5.9×10^{-4} 7.5×10^{-4} 4.7×10^{-3} 4.7×10^{-2} 0.0062% 5.9×10^{-4} 0.018 dB	Digital Oscilloscope/ SICT-CP-40638
Radar test sets RF Level Amplitude Modulation Frequency Modulation Phase Modulation Distortion of Modulation Hamonics	40639	(20 Hz ~ 18 GHz) 20 dBm ~ -20 dBm -20 dBm ~ -70 dBm -70 dBm ~ -100 dBm -100 dBm ~ -120 dBm 0 % ~ 100 % 0 kHz ~ 400 kHz 0 rad ~ 400 rad 0 % ~ 2 % 0 dB ~ -110 dB	0.12 dB 0.15 dB 0.19 dB 0.25 dB 1.2×10^{-2} 1.2×10^{-2} 1.2×10^{-2} 1.2×10^{-3} 0.37 dB	Signal Analyzer, SART Generator, EPIRB Generator/ SICT-CP-40638

406. Radio frequency measurements

Measured Quantity Instrument or Gauge	Field Code	Range	CMC (The Confidence Level is about 95 %)	Comments
Radar test sets	40639	Frequency 9 kHz ~ 18 GHz	6.2×10^{-11}	Signal Analyzer, SART Generator, EPIRB Generator/ SICT-CP-40638
Pulse Period		1 ns ~ 10 ms	1.2×10^{-2}	
High power		10 kHz ~ 100 MHz (0.1 ~ 500) W	2.8×10^{-2}	
		100 MHz ~ 250 MHz (0.1 ~ 500) W	3.0×10^{-2}	
		250 MHz ~ 1 000 MHz (0.1 ~ 15) W	3.0×10^{-2}	
	1 000 MHz ~ 4 200 MHz (0.1 ~ 10) W	3.0×10^{-2}		
RF signal generators	40640	RF Level (54 dBm ~ 57 dBm) 10 MHz ~ 500 MHz	0.35 dB	Measuring Receiver/ SICT-CP-40640
		(51 dBm ~ 54 dBm) 10 MHz ~ 2 GHz	0.32 dB	
		(35 dBm ~ 51 dBm) 10 MHz ~ 18 GHz	0.33 dB	
		(20 dBm ~ 35 dBm) 10 MHz ~ 8 GHz	0.26 dB	
		8 GHz ~ 18 GHz	0.28 dB	
		(-30 dBm ~ 20 dBm) 20 Hz ~ 18 GHz	0.11 dB	
		18 GHz ~ 40 GHz	0.17 dB	
		40 GHz ~ 50 GHz	0.24 dB	
		50 GHz ~ 90 GHz	0.42 dB	
		90 GHz ~ 110 GHz	0.49 dB	
		(-60 dBm ~ -30 dBm) 20 Hz ~ 26.5 GHz	0.12 dB	
		26.5 GHz ~ 40 GHz	0.13 dB	
		40 GHz ~ 50 GHz	0.24 dB	
		(-120 dBm ~ -60 dBm) 20 Hz ~ 4.2 GHz	0.22 dB	
		4.2 GHz ~ 8 GHz	0.24 dB	
		8 GHz ~ 12.4 GHz	0.25 dB	
		12.4 GHz ~ 18 GHz	0.28 dB	
		18 GHz ~ 26.5 GHz	0.33 dB	
Hamonics		-10 dBc ~ -110 dBc	0.37 dB	
Frequency	9 kHz ~ 40 GHz	2.1×10^{-11}		
Frequency Modulation	0.1 kHz ~ 400 kHz	1.2×10^{-2}		

406. Radio frequency measurements

Measured Quantity Instrument or Gauge	Field Code	Range	CMC (The Confidence Level is about 95 %)	Comments
RF signal generators	40640	Amplitude Modulation	0.1 % ~ 100 %	Measuring Receiver/ SICT-CP-40640
Phase Modulation		0.1 rad ~ 400 rad	1.2×10^{-2}	
Pulse Modulation		(100 kHz ~ 12 000 MHz)	1.2×10^{-3}	
		Period (1 μ s ~ 1 s)	1.2×10^{-3}	
		ton (100 ns ~ 100 μ s)	3.1×10^{-3}	
Distortion of Modulation	PRR	3.1×10^{-3}		
		$\leq 20 \%$	2.3×10^{-2}	
RF spectrum analyzers	40641	Center Frequency	3 Hz ~ 100 Hz	Power Sensor, Synthesized Sweeper/ SICT-CP-40641
		100 Hz ~ 500 Hz	2.0×10^{-4}	
		500 Hz ~ 900 Hz	6.1×10^{-6}	
		900 Hz ~ 100 kHz	1.2×10^{-6}	
		0.1 MHz ~ 40 GHz	6.8×10^{-7}	
			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	7.6×10^{-3}	
		0.1 MHz ~ 40 GHz	7.7×10^{-6}	
RBW		1 Hz ~ 100 MHz	6.2×10^{-6}	
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		

406. Radio frequency measurements

Measured Quantity Instrument or Gauge	Field Code	Range	CMC (The Confidence Level is about 95 %)	Comments
Surge generators	40643	(±) 5 V 5 V ~ 20 kV	1.8×10^{-2} 1.6×10^{-2}	Digital Oscilloscope/ SICT-CP-40643
Surge Voltage				
Voltage Half Time		10 μs ~ 10 s	1.2×10^{-3}	
Voltage Front Time		100 ns ~ 100 ms	1.2×10^{-3}	
Surge Current		5 A ~ 3 000 A	2.3×10^{-2}	
Current Half Time		1 μs ~ 100 μs	1.2×10^{-3}	
Current Front Time		1 μs ~ 100 μs	1.2×10^{-3}	
Pulse width		10 ns ~ 10 s	1.2×10^{-3}	
Phase		0° ~ 359°	8.2×10^{-4}	
SWR meters	40644	9 kHz ~ 18 GHz	7.1×10^{-7}	Coaxial Mismatch/ SICT-CP-40644
Frequency				
SWR		30 kHz ~ 2 GHz 1.05 1.20 1.50 2.00	0.013 0.013 0.013 0.013	
		2 GHz ~ 18 GHz 1.05 1.20 1.50 2.00	0.014 0.014 0.014 0.014	
RF terminations	40645	(0 ~ 0.005) 9 kHz ~ 45 MHz 45 MHz ~ 2 GHz 2 GHz ~ 40 GHz	0.009 0 0.009 8 0.008 6	Network Analyzer, Coaxial Mismatch/ SICT-CP-40645
Termination (Reflection coefficient)				
(SWR)		(1 ~ 1.01) 9 kHz ~ 45 MHz 45 MHz ~ 2 GHz 2 GHz ~ 40 GHz	0.018 0.020 0.017	
(Impedance)		(49.5 Ω ~ 50.5 Ω) 9 kHz ~ 45 MHz 45 MHz ~ 2 GHz 2 GHz ~ 40 GHz	0.90 Ω 0.98 Ω 0.86 Ω	
(Open, Short, Phase)		(± 180 °) 9 kHz ~ 2 GHz 2 GHz ~ 8 GHz 8 GHz ~ 20 GHz 20 GHz ~ 26.5 GHz 26.5 GHz ~ 40 GHz	0.70° 0.72° 0.78° 0.84° 0.78°	

406. Radio frequency measurements

Measured Quantity Instrument or Gauge	Field Code	Range	CMC (The Confidence Level is about 95 %)	Comments
Coaxial thermistor mounts Cal Factor	40646	(100 μ W ~ 10 mW) 9 kHz ~ 100 kHz 100 kHz ~ 1 GHz 1 GHz ~ 10 GHz 10 GHz ~ 18 GHz 18 GHz ~ 26.5 GHz 26.5 GHz ~ 40 GHz	0.4×10^{-2} 0.9×10^{-2} 1.1×10^{-2} 1.3×10^{-2} 2.7×10^{-2} 2.9×10^{-2}	Therimistor Mount, Synthesized Sweeper/ SICT-CP-40646
RF voltmeters RF Voltage	40650	3 V 1 V 300 mV 270 mV 240 mV 210 mV 180 mV 150 mV 120 mV 100 mV 90 mV 60 mV 30 mV 10 mV 3 mV 1 mV	4.2 mV 1.4 mV 0.36 mV 0.32 mV 0.28 mV 0.26 mV 0.24 mV 0.22 mV 0.17 mV 0.16 mV 0.13 mV 0.11 mV 0.048 mV 0.020 mV 0.018 mV 0.013 mV	RF Millivolt Meter Calibrator/ SICT-CP-40650
Vector voltmeters RF Voltage	40651	3 V 1 V 300 mV 100 mV 30 mV 10 mV 3 mV 1 mV	4.2 mV 1.4 mV 0.36 mV 0.16 mV 0.048 mV 0.020 mV 0.018 mV 0.014 mV	Signal Generator/ SICT-CP-40651
RF Phase		0° ~ 270°	0.006°	
Field strength meters Center frequency	40652	9 kHz ~ 100 kHz 0.1 MHz ~ 18 GHz	6.8×10^{-8} 6.2×10^{-9}	Signal Generator/ SICT-CP-40652
Scale Fidelity		0 dB ~ -10 dB -10 dB ~ -20 dB -20 dB ~ -30 dB -30 dB ~ -40 dB -40 dB ~ -50 dB -50 dB ~ -60 dB -60 dB ~ -80 dB -80 dB ~ -100 dB	0.076 dB 0.078 dB 0.080 dB 0.083 dB 0.086 dB 0.11 dB 0.12 dB 0.14 dB	
Frequency response		9 kHz ~ 100 kHz 100 kHz ~ 10 GHz 10 GHz ~ 18 GHz	0.068 dB 0.074 dB 0.094 dB	

406. Radio frequency measurements

Measured Quantity Instrument or Gauge	Field Code	Range	CMC (The Confidence Level is about 95 %)	Comments
AM/FM test sources Output frequency	40653	10 MHz ~ 560 MHz	6.2×10^{-10}	Measuring Receiver/ SICT-CP-40653
Dip simulators AC Voltage	40654	(50 Hz ~ 60 Hz) 100 V ~ 120 V 120 V ~ 230 V 230 V ~ 400 V	2.8×10^{-3} 1.8×10^{-3} 1.4×10^{-3}	Digital Oscilloscope/ SICT-CP-40654
Dip up AC Voltage		(50 Hz ~ 60 Hz) (100 V ~ 120 V) 0 % 1 % ~ 40 % 40 % ~ 70 % 70 % ~ 120 %	3.7×10^{-1} 8.3×10^{-3} 6.9×10^{-3} 6.2×10^{-3}	
Dip up AC Voltage		(120 V ~ 230 V) 0 % 1 % ~ 40 % 40 % ~ 70 % 70 % ~ 120 %	3.4×10^{-1} 7.4×10^{-3} 6.6×10^{-3} 6.2×10^{-3}	
Dip up AC Voltage		(230 V ~ 400 V) 0 % 1 % ~ 40 % 40 % ~ 70 % 70 % ~ 120 %	3.4×10^{-1} 7.9×10^{-3} 7.1×10^{-3} 6.7×10^{-3}	
Duration Time		(50 Hz ~ 60 Hz) 0 ms ~ 1 ms 1 ms ~ 10 ms 10 ms ~ 100 ms 100 ms ~ 500 ms 500 ms ~ 1 s 1 s ~ 2 s 2 s ~ 3 s 3 s ~ 4 s 4 s ~ 5 s	6.4×10^{-2} 7.2×10^{-3} 1.2×10^{-3} 1.4×10^{-3} 7.2×10^{-3} 3.9×10^{-3} 2.9×10^{-3} 3.4×10^{-3} 6.1×10^{-3}	

407. Field strength & antennas

Measured Quantity Instrument or Gauge	Field Code	Range	CMC (The Confidence Level is about 95 %)	Comments
Loop antennas Antenna Factor	40704	20 Hz ~ 30 MHz	1.5 dB	Signal generator1, Signal analyzer/ SICT-CP-40704
Monopole antennas Antenna Factor	40705	9 kHz ~ 30 MHz	1.4 dB	Signal generator1, Signal analyzer/ SICT-CP-40705

501. Contact temperature

Measured Quantity Instrument or Gauge	Field Code	Range	CMC (The Confidence Level is about 95 %)	Comments
Resistance thermometers; SPRT, IPRT, thermistors, etc. (Fixed point) Ar TP Hg TP H ₂ O TP Ga MP In FP Sn FP Zn FP Al FP Ag FP	50104	-196 °C -196 °C ~ 500 °C 500 °C ~ 660 °C -189.344 2 °C -38.834 4 °C 0.01 °C 29.764 6 °C 156.598 5 °C 231.928 °C 419.527 °C 660.323 °C 961.78 °C	0.004 4 °C 0.022 °C 0.033 °C 0.90 mK 1.2 mK 0.42 mK 1.2 mK 2.2 mK 2.2 mK 2.6 mK 2.8 mK 16 mK	SPRT, Fixed point/ SICT-CP-50104
Thermal expansion thermometers; bimetal, gas or liquid type bimetal	50105	-196 °C ~ -90 °C -90 °C ~ 100 °C 100 °C ~ 200 °C 200 °C ~ 500 °C 500 °C ~ 700 °C	1.1 °C 0.2 °C 0.5 °C 0.7 °C 1.5 °C	SPRT/ SICT-CP-50105
Thermocouples: noble metal, base metal, pure metal, special type, etc. Base metal Noble metal (Fixed point) H ₂ O ICE Point Ga MP In FP Sn FP Zn FP Al FP Ag FP Cu FP	50106	-196 °C ~ -150 °C -150 °C ~ -90 °C -90 °C ~ 660 °C 660 °C ~ 800 °C 800 °C ~ 1 100 °C 1 100 °C ~ 1 300 °C 0 °C ~ 1 100 °C 1 100 °C ~ 1 300 °C 1 300 °C ~ 1 600 °C 0.00 °C 29.764 6 °C 156.598 5 °C 231.928 °C 419.527 °C 660.323 °C 961.78 °C 1 084.62 °C	0.8 °C 0.6 °C 0.4 °C 1.2 °C 1.5 °C 2.6 °C 0.6 °C 1.7 °C 1.9 °C 0.2 °C 0.2 °C 0.2 °C 0.2 °C 0.2 °C 0.2 °C 0.3 °C 0.3 °C	SPRT,Fixed point, STANDARD TC/ SICT-CP-50106
Temperature transducers	50107	-196 °C ~ 500 °C 500 °C ~ 600 °C 600 °C ~ 800 °C 800 °C ~ 1 000 °C 1 000 °C ~ 1 600 °C	0.04 °C 0.06 °C 0.21 °C 1.4 °C 2.4 °C	SPRT, THERMOCOUPLE, MULTIMETER SICT-CP-50107
Primary fixed-point cells and apparatus H ₂ O TP	50108	0.01 °C	0.32 mK	Triple-Point Cell SICT-CP-50108

502. non contact temperature

Measured Quantity Instrument or Gauge	Field Code	Range	CMC (The Confidence Level is about 95 %)	Comments
Optical pyrometers	50203	900 ℃ ~ 1 800 ℃	5 ℃	Standard Lamp/ SICT-CP-50203
Standard radiation thermometers	50204	-20 ℃ ~ 0 ℃ 0 ℃ ~ 50 ℃ 50 ℃ ~ 100 ℃ 100 ℃ ~ 200 ℃ 200 ℃ ~ 400 ℃ 400 ℃ ~ 500 ℃ 500 ℃ ~ 700 ℃ 700 ℃ ~ 1 000 ℃ 1 000 ℃ ~ 1 100 ℃ 1 100 ℃ ~ 1 200 ℃ 1 200 ℃ ~ 1 300 ℃ 1 300 ℃ ~ 1 400 ℃ 1 400 ℃ ~ 1 500 ℃ 1 500 ℃ ~ 1 600 ℃ 1 600 ℃ ~ 1 700 ℃ 1 700 ℃ ~ 1 800 ℃ 1 800 ℃ ~ 2 000 ℃ 2 000 ℃ ~ 2 200 ℃ 2 200 ℃ ~ 2 300 ℃ 2 300 ℃ ~ 2 400 ℃	0.8 ℃ 0.9 ℃ 1.0 ℃ 1.2 ℃ 1.3 ℃ 1.4 ℃ 1.5 ℃ 1.8 ℃ 1.9 ℃ 2.0 ℃ 2.1 ℃ 2.3 ℃ 2.4 ℃ 2.6 ℃ 3.1 ℃ 3.3 ℃ 3.4 ℃ 3.6 ℃ 3.8 ℃ 3.9 ℃	Transfer Standard Pyrometer/ SICT-CP-50204
Thermal image apparatus	50205	-20 ℃ ~ 50 ℃ 50 ℃ ~ 100 ℃ 100 ℃ ~ 200 ℃ 200 ℃ ~ 300 ℃ 300 ℃ ~ 500 ℃ 500 ℃ ~ 600 ℃ 600 ℃ ~ 800 ℃ 800 ℃ ~ 900 ℃ 900 ℃ ~ 1 200 ℃	0.8 ℃ 0.9 ℃ 1.1 ℃ 1.2 ℃ 1.3 ℃ 1.4 ℃ 1.5 ℃ 1.7 ℃ 1.8 ℃	Transfer Standard Pyrometer/ SICT-CP-50205
Blackbody furnaces	50206	-20 ℃ ~ 0 ℃ 0 ℃ ~ 100 ℃ 100 ℃ ~ 200 ℃ 200 ℃ ~ 300 ℃ 300 ℃ ~ 500 ℃ 500 ℃ ~ 600 ℃ 600 ℃ ~ 700 ℃ 700 ℃ ~ 800 ℃ 800 ℃ ~ 900 ℃ 900 ℃ ~ 1 100 ℃ 1 100 ℃ ~ 1 200 ℃ 1 200 ℃ ~ 1 300 ℃ 1 300 ℃ ~ 1 400 ℃ 1 400 ℃ ~ 1 500 ℃ 1 500 ℃ ~ 1 600 ℃ 1 600 ℃ ~ 1 700 ℃ 1 700 ℃ ~ 1 800 ℃ 1 800 ℃ ~ 2 100 ℃ 2 100 ℃ ~ 2 200 ℃ 2 200 ℃ ~ 2 300 ℃ 2 300 ℃ ~ 2 400 ℃	0.7 ℃ 0.8 ℃ 1.0 ℃ 1.1 ℃ 1.2 ℃ 1.3 ℃ 1.4 ℃ 1.5 ℃ 1.6 ℃ 1.8 ℃ 1.9 ℃ 2.1 ℃ 2.2 ℃ 2.4 ℃ 2.5 ℃ 2.7 ℃ 2.8 ℃ 3.0 ℃ 3.1 ℃ 3.2 ℃ 3.3 ℃	Transfer Standard Pyrometer/ SICT-CP-50206
Others ; ear thermometers, etc.	50207	30 ℃ ~ 45 ℃	0.08 ℃	Standard prt/ SICT-CP-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	-90 °C D.P. ~ -80 °C D.P. -80 °C D.P. ~ -70 °C D.P. -70 °C D.P. ~ -60 °C D.P. -60 °C D.P. ~ -50 °C D.P. -50 °C D.P. ~ -20 °C D.P. -20 °C D.P. ~ 70 °C D.P. 70 °C D.P. ~ 90 °C D.P. 90 °C D.P. ~ 95 °C D.P.	0.58 °C D.P. 0.29 °C D.P. 0.21 °C D.P. 0.20 °C D.P. 0.19 °C D.P. 0.12 °C D.P. 0.13 °C D.P. 0.16 °C D.P.	Dewpoint Meter/ SICT-CP-50301
Relative humidity hygrometers; polimer thinfilm, hair, etc. humidity Temperature	50302	3 % R.H. ~ 20 % R.H. 20 % R.H. ~ 40 % R.H. 40 % R.H. ~ 60 % R.H. 60 % R.H. ~ 70 % R.H. 70 % R.H. ~ 90 % R.H. 90 % R.H. ~ 98 % R.H. -70 °C ~ 80 °C 80 °C ~ 100 °C 100 °C ~ 180 °C	1.6 % R.H. 1.0 % R.H. 1.1 % R.H. 1.2 % R.H. 1.3 % R.H. 1.4 % R.H. 0.3 °C 0.6 °C 1.2 °C	Dewpoint Meter/ SICT-CP-50302
Psychrometers; assmann ventilated, PRT type, etc. assmann ventilated (humidity) (Temperature) PRT type (humidity) (Temperature)	50303	10 % R.H. ~ 20 % R.H. 20 % R.H. ~ 30 % R.H. 30 % R.H. ~ 60 % R.H. 60 % R.H. ~ 80 % R.H. 80 % R.H. ~ 95 % R.H. 0 °C ~ 50 °C 10 % R.H. ~ 20 % R.H. 20 % R.H. ~ 40 % R.H. 40 % R.H. ~ 60 % R.H. 60 % R.H. ~ 80 % R.H. 80 % R.H. ~ 90 % R.H. 90 % R.H. ~ 98 % R.H. 0 °C ~ 100 °C	1.9 % R.H. 1.4 % R.H. 1.5 % R.H. 1.7 % R.H. 1.8 % R.H. 0.3 °C 1.6 % R.H. 1.0 % R.H. 1.1 % R.H. 1.2 % R.H. 1.3 % R.H. 1.4 % R.H. 0.3 °C	Dewpoint Meter/ SICT-CP-50303
Temperature humidity recorders; Hygrothermograph, etc Humidity Temperature	50304	5 % R.H. ~ 10 % R.H. 10 % R.H. ~ 20 % R.H. 20 % R.H. ~ 50 % R.H. 50 % R.H. ~ 80 % R.H. 80 % R.H. ~ 95 % R.H. -40 °C ~ 90 °C	2.3 % R.H. 2.4 % R.H. 2.0 % R.H. 2.1 % R.H. 2.2 % R.H. 1.1 °C	Dewpoint Meter/ SICT-CP-50304

503. Humidity

Measured Quantity Instrument or Gauge	Field Code	Range	CMC (The Confidence Level is about 95 %)	Comments
Transducers; dew-point /relative humidity Dew point Humidity	50305	-90 °C D.P. ~ -80 °C D.P. -80 °C D.P. ~ -70 °C D.P. -70 °C D.P. ~ -50 °C D.P. -50 °C D.P. ~ -30 °C D.P. -30 °C D.P. ~ -20 °C D.P. -20 °C D.P. ~ 70 °C D.P. 70 °C D.P. ~ 90 °C D.P. 90 °C D.P. ~ 95 °C D.P. 3 % R.H. ~ 20 % R.H. 20 % R.H. ~ 30 % R.H. 30 % R.H. ~ 50 % R.H. 50 % R.H. ~ 80 % R.H. 80 % R.H. ~ 95 % R.H. 95 % R.H. ~ 98 % R.H.	0.59 °C D.P. 0.30 °C D.P. 0.22 °C D.P. 0.21 °C D.P. 0.20 °C D.P. 0.14 °C D.P. 0.15 °C D.P. 0.18 °C D.P. 1.8 % R.H. 1.4 % R.H. 1.5 % R.H. 1.6 % R.H. 1.7 % R.H. 1.8 % R.H.	Dewpoint Meter/ SICT-CP-50305 SICT-CP-50305
Humidity generators; two-pressure, two-temperature, flow mixing humidity generator, constant temperature and humidity chamber, etc. Pressure/two-temperature/flow mixing humidity (humidity) (Temperature) (Dew point) temperature and humidity chamber (humidity) (Temperature)	50306	5 % R.H. ~ 20 % R.H. 20 % R.H. ~ 30 % R.H. 30 % R.H. ~ 50 % R.H. 50 % R.H. ~ 60 % R.H. 60 % R.H. ~ 70 % R.H. 70 % R.H. ~ 90 % R.H. 90 % R.H. ~ 98 % R.H. -10 °C ~ 70 °C -90 °C D.P. ~ -80 °C D.P. -80 °C D.P. ~ -70 °C D.P. -70 °C D.P. ~ -60 °C D.P. -60 °C D.P. ~ -20 °C D.P. -20 °C D.P. ~ 95 °C D.P. 5 % R.H. ~ 10 % R.H. 10 % R.H. ~ 30 % R.H. 30 % R.H. ~ 50 % R.H. 50 % R.H. ~ 70 % R.H. 70 % R.H. ~ 90 % R.H. 90 % R.H. ~ 98 % R.H. -75 °C ~ 200 °C	1.6 % R.H. 1.0 % R.H. 1.1 % R.H. 1.2 % R.H. 1.3 % R.H. 1.4 % R.H. 1.5 % R.H. 0.4 °C 0.9 °C D.P. 0.7 °C D.P. 0.5 °C D.P. 0.4 °C D.P. 0.3 °C D.P. 1.7 % R.H. 1.8 % R.H. 1.5 % R.H. 1.6 % R.H. 1.8 % R.H. 1.9 % R.H. 0.4 °C	Dewpoint Meter/ SICT-CP-50306

504. Moisture

Measured Quantity Instrument or Gauge	Field Code	Range	CMC (The Confidence Level is about 95 %)	Comments
Cereal moisture meters 수분	50401	(9 ~ 20) % M.C.	0.5 % M.C.	Balance/ SICT-CP-50401
Wood moisture meters 수분	50402	(8 ~ 25) % M.C.	3.2 % M.C.	Balance/ SICT-CP-50402
Paper moisture meters 수분	50403	(8 ~ 20) % M.C.	3.4 % M.C.	Balance/ SICT-CP-50403

601. Sound in air

Measured Quantity Instrument or Gauge	Field Code	Range	CMC (The Confidence Level is about 95 %)	Comments
Soundcalibrators	60102	(250 Hz) 94 dB ~ 114 dB (1 000 Hz) 94 dB ~ 114 dB	0.10 dB 0.10 dB	Referance microphone/ SICT-CP-60102
Microphones	60104	(250 Hz) -60 dB ~ -20 dB	0.15 dB	Referance microphone/ SICT-CP-60104
Sound level meters	60106	(31.5 ~ 12 500) Hz 31.5 Hz 63 Hz 125 Hz 250 Hz 500 Hz 1 000 Hz 2 000 Hz 4 000 Hz 8 000 Hz 12 500 Hz	0.4 dB 0.3 dB 0.3 dB 0.2 dB 0.2 dB 0.2 dB 0.2 dB 0.2 dB 0.4 dB 0.6 dB	Multifunction Acoustic Calibrator/ SICT-CP-60107

603. Vibration

Measured Quantity Instrument or Gauge	Field Code	Range	CMC (The Confidence Level is about 95 %)	Comments
Vibration calibrators	60301	20 Hz ~ 1 250 Hz	1.3×10^{-2}	Standard Accelerometer/ SICT-CP-60301
Vibration transducers	60302	0.5 Hz (0.5 ~ 20) Hz (20 ~ 1 250) Hz (1 250 ~ 2 500) Hz (2 500 ~ 5 000) Hz	1.5×10^{-2} 1.4×10^{-2} 1.1×10^{-2} 1.2×10^{-2} 2.4×10^{-2}	Standard Accelerometer/ SICT-CP-60302
Vibration measuring instruments Acceleration Velocity Displacement	60303	10 Hz 20 Hz (20 ~ 1 250) Hz (1 250 ~ 2 500) Hz 10 Hz 20 Hz (20 ~ 1 250) Hz (1 250 ~ 2 500) Hz (10 ~ 100) Hz (100 ~ 160) Hz (160 ~ 315) Hz (315 ~ 630) Hz	1.7×10^{-2} 1.6×10^{-2} 1.5×10^{-2} 1.6×10^{-2} 1.7×10^{-2} 1.6×10^{-2} 1.5×10^{-2} 1.6×10^{-2} 1.2×10^{-2} 1.3×10^{-2} 2.0×10^{-2} 5.9×10^{-2}	Standard Accelerometer/ SICT-CP-60303

701. Photometry

Measured Quantity Instrument or Gauge	Field Code	Range	CMC (The Confidence Level is about 95 %)	Comments
Illuminance meters Illuminance	70101	0.5 lx ~ 20 000 lx	1.7 %	Illuminance Meter/ SICT-CP-70101
Luminance meters Luminance	70102	1 cd/m ² 1 cd/m ² ~ 10 cd/m ² 10 cd/m ² ~ 1 000 cd/m ² 1 000 cd/m ² ~ 10 000 cd/m ²	3.6 % 1.6 % 1.4 % 1.7 %	Spectroradiometer/ SICT-CP-70102
Total luminous flux meters Total luminous flux	70103	(60 ~ 2 500) lm	3.2 %	Standard lamps/ SICT-CP-70103
Luminance intensity meters Luminance	70104	(70 ~ 1 000) cd	3.7 %	Standard lamps/ SICT-CP-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 Color temperature	70202	(2 697 ~ 3 309) K	25 K	Standard lamps/ SICT-CP-70202
Color temperature standard lamps Color temperature	70203	(2 697 ~ 3 309) K	34 K	Standard lamps/ SICT-CP-70203
Colorimeters; source color Luminance Chromaticity	70204	1 cd/m ² (1 ~ 10) cd/m ² (10 ~ 1 000) cd/m ² (1 000 ~ 10 000) cd/m ² (WHITE) x y (RED) x y (GREEN) x y (BLUE) x y (Glass) x y	3.6 % 1.6 % 1.4 % 1.7 % 0.004 0.004 0.005 0.004 0.006 0.005 0.004 0.004 0.005 0.005	Spectroradiometer/ SICT-CP-70204
Laser power meters	70207	(405 nm) 0.75 mW ~ 9 mW (660 nm) 0.7 mW ~ 47 mW (785 nm) 0.7 mW ~ 46 mW (1 080 nm) 1 W ~ 40 W	1.1 % 1.1 % 1.1 % 3.3 %	Optical Power Meter/ SICT-CP-70207
Standard LED light sources Total luminous flux	70208	(2 ~ 320) lm	3.8 %	Spectroradiometer/ SICT-CP-70208
Total luminous flux standard lamps Total luminous flux	70209	(400 ~ 10 000) lm	4.7 %	Spectroradiometer/ SICT-CP-70209
Optical detectors Relative spectral response	70210	300 nm ~ 1 100 nm (0 ~ 1)	4.5 %	Photodiode/ SICT-CP-70210
Pyranometers and pyrhemometers Irradiance spectral respons	70211	250 nm ~ 2 500 nm (1 000 ± 150)W/m ²	2.9 %	Standard pyranometer/ SICT-CP-70211

702. Properties of detectors & sources

Measured Quantity Instrument or Gauge	Field Code	Range	CMC (The Confidence Level is about 95 %)	Comments
Display color analyzers: luminance, chromaticity, white balance, etc. Chromaticity(x, y) Luminance Chromaticity	70213	1 cd/m ² 1 cd/m ² ~ 5 cd/m ² 5 cd/m ² ~ 200 cd/m ² (WHITE) x y (RED) x y (GREEN) x y (BLUE) x y	3.8 % 1.8 % 1.7 % 0.003 5 0.003 3 0.004 5 0.003 3 0.005 3 0.004 2 0.003 5 0.003 2	Master Probe/ SICT-CP-70213
Luminous intensity standard lamps Luminance	70214	(10 ~ 20 000) cd	4.0 %	Standard lamps/ SICT-CP-70214
Spectral irradiance standard lamps Spectral irradiance	70215	(0.000 1 ~ 1) W/nm · m ² 250 nm (250 ~ 255) nm (255 ~ 275) nm (275 ~ 315) nm (315 ~ 395) nm (395 ~ 490) nm (490 ~ 1 020) nm	6.8 % 6.5 % 5.9 % 4.8 % 3.9 % 2.8 % 2.3 %	Standard lamps/ SICT-CP-70215
Total spectral radiant flux standard lamps Total spectral radiant flux	70216	(0.3 ~ 100) mW/nm 350 nm (350 ~ 365) nm (365 ~ 380) nm (380 ~ 400) nm (400 ~ 455) nm (455 ~ 850) nm	6.7 % 6.3 % 5.8 % 4.2 % 3.9 % 3.6 %	Standard lamps/ SICT-CP-70216
Luminance standard lamps Luminance Chromaticity	70217	(1 ~ 10 000) cd/m ² (WHITE) x y (RED) x y (GREEN) x y (BLUE) x y	3.1 % 0.008 0 0.007 9 0.006 3 0.003 5 0.006 7 0.007 6 0.004 2 0.003 4	Standard lamps/ SICT-CP-70217

702. Properties of detectors & sources

Measured Quantity Instrument or Gauge	Field Code	Range	CMC (The Confidence Level is about 95 %)	Comments
Spectral radiance standard lamps Spectral radiance	70218	380 nm (380 ~ 415) nm (415 ~ 490) nm (490 ~ 780) nm	4.1 % 3.5 % 3.0 % 2.0 %	Standard lamps/ SICT-CP-70218
UV irradiance meters Irradiance (UV Meter)	70219	(254 nm) 50 $\mu\text{W}/\text{cm}^2 \sim 3 \text{ mW}/\text{cm}^2$ (365 nm) 10 $\mu\text{W}/\text{cm}^2 \sim 230 \text{ mW}/\text{cm}^2$ (405 nm) 10 $\mu\text{W}/\text{cm}^2 \sim 230 \text{ mW}/\text{cm}^2$	3.8 % 3.8 % 3.8 %	UV Meter Standard Detector/ SICT-CP-70219
Spectral irradiance meters Wavelength Spectral irradiance	70220	(350 ~ 1 694) nm 250 nm (250 ~ 255) nm (255 ~ 275) nm (275 ~ 300) nm (300 ~ 345) nm (345 ~ 445) nm (445 ~ 1 050) nm	0.25 nm 5.4 % 4.4 % 4.0 % 3.5 % 3.0 % 2.5 % 1.9 %	Spectroradiometer/ SICT-CP-70220
Total spectral radiant flux meters Wavelength Total spectral radiant flux	70221	(350 ~ 850) nm 350 nm (350 ~ 365) nm (365 ~ 405) nm (405 ~ 850) nm	0.25 nm 4.3 % 3.9 % 2.8 % 2.0 %	Spectroradiometer/ SICT-CP-70221
Spectral radiance meters Wavelength Spectral radiance	70222	(350 ~ 850) nm (380 ~ 445) nm (445 ~ 1 050) nm	0.25 nm 2.5 % 1.9 %	Spectroradiometer/ SICT-CP-70222

703. Properties of materials

Measured Quantity Instrument or Gauge	Field Code	Range	CMC (The Confidence Level is about 95 %)	Comments
Colorimeters; material color Included Reflectance Std. Light Source TVNE A,C,D65 (2°, 10°)	70301			Color Tile/ SICT-CP-70301
1. White		X	0.65 %	
		Y	0.65 %	
		Z	0.66 %	
2. L,Gray		X	0.67 %	
		Y	0.67 %	
		Z	0.67 %	
3. M,Gray		X	0.70 %	
		Y	0.71 %	
		Z	0.67 %	
4. D,Gray		X	0.70 %	
		Y	0.68 %	
		Z	0.80 %	
5. Red		X	0.88 %	
		Y	0.83 %	
		Z	0.85 %	
6. Yellow		X	0.66 %	
		Y	0.67 %	
		Z	0.79 %	
7. Green		X	0.68 %	
		Y	0.69 %	
		Z	0.75 %	
8. Cyan		X	0.79 %	
		Y	0.87 %	
		Z	0.81 %	
1. White		x	0.001 4	
		y	0.001 5	
2. L,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 Exclude Reflectance Std. Light Source Type	70301			Color Tile/ SICT-CP-70301
A,C,D65 (2°,10°)				
1. White		X	0.65 %	
		Y	0.65 %	
		Z	0.66 %	
2. L,Gray		X	0.66 %	
		Y	0.66 %	
		Z	0.67 %	
3. M,Gray		X	0.69 %	
		Y	0.69 %	
		Z	0.72 %	
4. D,Gray		X	0.72 %	
		Y	0.74 %	
		Z	0.89 %	
5. Red		X	1.1 %	
		Y	1.1 %	
		Z	1.8 %	
6. Yellow		X	0.66 %	
		Y	0.67 %	
		Z	0.92 %	
7. Green		X	0.67 %	
		Y	0.68 %	
		Z	0.83 %	
8. Cyan		X	0.71 %	
		Y	0.75 %	
		Z	0.68 %	
1. White		x	0.001 4	
		y	0.001 5	
2. L,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 Included Reflectance Std. Light Source TVNE A,C,D65 (2°, 10°)	70304			Spectrophotometer/ SICT-CP-70304
1. White		X	0.64 %	
		Y	0.63 %	
		Z	0.67 %	
2. L,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 Exclude Reflectance Std. Light Source Type	70304			Spectrophotometer/ SICT-CP-70304
A,C,D65 (2°,10°)				
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	
Spectral reflectance test (Exclude Reflectance Std)		380 nm ~ 780 nm	0.91 %	

703. Properties of materials

Measured Quantity Instrument or Gauge	Field Code	Range	CMC (The Confidence Level is about 95 %)	Comments
Gloss meters Gloss	70306	20 ° 60 ° 85 °	0.89 % 0.95 % 0.80 %	Gloss Standard/ SICT-CP-70306
Gloss standard plates Gloss	70307	20° 60° 85°	0.95 % 0.98 % 0.83 %	Gloss Meter/ SICT-CP-70307
Haze meters Haze H-1 H-5 H-10 H-20 H-30 Transmittance T-30 T-50 T-70 T-90	70308	0.73 4.62 8.84 18.3 28.6 28.3 51.6 70.7 91.5	0.30 0.26 0.4 0.6 0.8 0.50 0.50 0.50 0.50	Haze CRM/ SICT-CP-70308
Lens meters Vertex diopter	70312	-25 D ~ 25 D	0.03 D	Reference Lens/ SICT-CP-70312
Optical densitometers Density 1 Step ~ 11 Step 12 Step ~ 13 Step 14 Step ~ 15 Step	70315	0.34 ~ 2.84 2.95 ~ 3.25 3.30 ~ 3.78	0.03 0.06 0.11	Density CRM/ SICT-CP-70315
Reflectance meters Reflectance	70319	380 nm ~ 780 nm	1.1 %	Absolute Reflectance/ SICT-CP-70319
Refractometers Refracto	70321	(1.332 99 ~ 1.505 80) nD 1.51 nD 1.62 nD	0.000 04 nD 0.000 2 nD 0.000 2 nD	Reference Refracto CRM/ SICT-CP-70321
Transmittance meters	70323	(0.1) 250 nm ~ 750 nm (0.5) 250 nm ~ 750 nm (0.9) 250 nm ~ 750 nm	0.61 % 0.38 % 0.22 %	Transmittance Filter/ SICT-CP-70323
Spectrophotometers including FT-IR spectrophotometers Wavelength Transmittance	70325	(200 ~ 780) nm (0.01) 440 nm 465 nm 546 nm 590 nm 635 nm (0.03) 440 nm 465 nm 546 nm 590 nm 635 nm	0.31 nm 1.3 % 0.84 % 0.89 % 1.0 % 0.81 % 0.76 % 0.57 % 0.58 % 0.63 % 0.59 %	Wavelength Filter/ SICT-CP-70325

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	Transmittance		Wavelength Filter/ SICT-CP-70325
		Absorbance		
		(0.1 ~ 0.3)		
		250 nm	0.81 %	
		300 nm	0.78 %	
		350 nm	0.77 %	
		400 nm	0.54 %	
		450 nm	0.52 %	
		500 nm	0.52 %	
		550 nm	0.52 %	
		600 nm	0.52 %	
		650 nm	0.52 %	
		700 nm	0.52 %	
		750 nm	0.52 %	
		(0.3 ~ 0.5)		
		250 nm	0.80 %	
		300 nm	0.78 %	
		350 nm	0.77 %	
		400 nm	0.52 %	
		450 nm	0.52 %	
		500 nm	0.52 %	
		550 nm	0.52 %	
		600 nm	0.52 %	
		650 nm	0.52 %	
		700 nm	0.52 %	
		750 nm	0.52 %	
		(0.5 ~ 0.9)		
		250 nm	0.79 %	
		300 nm	0.80 %	
		350 nm	0.98 %	
		400 nm	0.52 %	
		450 nm	0.52 %	
		500 nm	0.52 %	
		550 nm	0.52 %	
		600 nm	0.51 %	
		650 nm	0.51 %	
		700 nm	0.52 %	
		750 nm	0.52 %	
		(0.01)		
		440 nm	0.003 8	
		465 nm	0.002 7	
		546 nm	0.002 9	
		590 nm	0.003 1	
		635 nm	0.002 7	
		(0.03)		
		440 nm	0.003 1	
		465 nm	0.002 4	
		546 nm	0.002 6	
		590 nm	0.003 1	
		635 nm	0.002 6	

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/ SICT-CP-70325
Absorbance		(0.1 ~ 0.3)		
		250 nm	0.003 6	
		300 nm	0.003 5	
		350 nm	0.003 4	
		400 nm	0.002 4	
		450 nm	0.002 4	
		500 nm	0.002 4	
		550 nm	0.002 4	
		600 nm	0.002 4	
		650 nm	0.002 4	
		700 nm	0.002 4	
		750 nm	0.002 4	
		(0.3 ~ 0.5)		
		250 nm	0.003 5	
		300 nm	0.003 5	
		350 nm	0.003 5	
		400 nm	0.002 3	
		450 nm	0.002 3	
		500 nm	0.002 3	
		550 nm	0.002 3	
		600 nm	0.002 3	
		650 nm	0.002 3	
		700 nm	0.002 3	
		750 nm	0.002 4	
		(0.5 ~ 0.9)		
		250 nm	0.003 5	
		300 nm	0.003 4	
		350 nm	0.003 4	
		400 nm	0.002 3	
		450 nm	0.002 3	
		500 nm	0.002 3	
		550 nm	0.002 3	
		600 nm	0.002 3	
		650 nm	0.002 3	
		700 nm	0.002 3	
		750 nm	0.002 3	
Reflectance		380 nm ~ 830 nm	1.3 %	
Wavelength		544.92 cm ⁻¹	2.5 cm ⁻¹	
		842.10 cm ⁻¹	1.3 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	

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. Wavelength Transmittance	70326	(200 ~780) nm	0.41 nm	투과율 필터/ SICT-CP-70326
		(0.1 ~ 0.3)		
		250 nm	0.82 %	
		300 nm	0.84 %	
		350 nm	0.81 %	
		400 nm	0.58 %	
		450 nm	0.59 %	
		500 nm	0.59 %	
		550 nm	0.59 %	
		600 nm	0.59 %	
		650 nm	0.58 %	
		700 nm	0.58 %	
		750 nm	0.58 %	
		(0.3 ~ 0.5)		
		250 nm	0.82 %	
		300 nm	0.83 %	
		350 nm	0.81 %	
		400 nm	0.57 %	
		450 nm	0.57 %	
		500 nm	0.57 %	
		550 nm	0.57 %	
		600 nm	0.57 %	
		650 nm	0.57 %	
		700 nm	0.57 %	
		750 nm	0.58 %	
		(0.5 ~ 0.9)		
		250 nm	0.83 %	
		300 nm	0.83 %	
		350 nm	0.80 %	
		400 nm	0.57 %	
		450 nm	0.57 %	
		500 nm	0.57 %	
		550 nm	0.57 %	
		600 nm	0.57 %	
		650 nm	0.57 %	
		700 nm	0.57 %	
		750 nm	0.59 %	

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-CP-70326
Absorbance		(0.1 ~ 0.3) 250 nm 300 nm 350 nm 400 nm 450 nm 500 nm 550 nm 600 nm 650 nm 700 nm 750 nm (0.3 ~ 0.5) 250 nm 300 nm 350 nm 400 nm 450 nm 500 nm 550 nm 600 nm 650 nm 700 nm 750 nm (0.5 ~ 0.9) 250 nm 300 nm 350 nm 400 nm 450 nm 500 nm 550 nm 600 nm 650 nm 700 nm 750 nm	0.003 7 0.003 7 0.003 7 0.002 8 0.002 8 0.002 8 0.002 8 0.002 8 0.002 8 0.002 8 0.002 8 0.002 8 0.003 6 0.003 6 0.003 6 0.002 4 0.002 4 0.002 4 0.002 4 0.002 4 0.002 4 0.002 4 0.002 4 0.002 4 0.003 6 0.003 6 0.003 5 0.002 7 0.002 4 0.002 4 0.002 4 0.002 4 0.002 4 0.002 4 0.002 5	
Reflectance		380 nm ~ 780 nm	1.2 %	

704. Fiber optics

Measured Quantity Instrument or Gauge	Field Code	Range	CMC (The Confidence Level is about 95 %)	Comments
Broadband light sources Wavelength output Optical power output	70402	1 310 nm, 1 550 nm 1 310 nm, 1 550 nm (-60 ~ 0) dBm	0.024 nm 0.07 dB	Wavelength meter, Optical powermeter/ SICT-CP-70402
Optical attenuators Optical Attenuation	70410	1 310 nm, 1 550 nm (-60 ~ 0) dB	0.08 dB	Optical powermeter/ SICT-CP-70410
Fiber-optic power meters Absolute optical power Optical Linearity	70412	1 310 nm, 1 550 nm (-60 ~ 0) dB 1 310 nm, 1 550 nm (-60 ~ 0) dB	0.07 dB 0.03 dB	Optical powermeter/ SICT-CP-70412
Optical loss testers Optical Attenuation	70413	1 310 nm, 1 550 nm 0 dB ~ -60 dB	0.03 dB	Optical attenuator/ SICT-CP-70413
Optical multimeters Absolute optical power measure Linearity measure	70415	1 310 nm, 1 550 nm (-60 ~ 0) dBm 1 310 nm, 1 550 nm (-60 ~ 0) dB	0.07 dB 0.03 dB	Optical powermeter/ SICT-CP-70415
Optical network analyzer (Optical multimeter) Absolute optical power (광Optical spectrum analyzer) Wavelength measure Resolution measure Absolute optical power measure (Optical attenuator) Optical Attenuation Return loss (Optical time domain reflectometer) Wavelength output Optical Length measure	70416	1 310 nm, 1 550 nm (-60 ~ 0) dBm 1 310 nm 1 550 nm 분해능: (0.1 ~ 1) nm 1 310 nm 1 550 nm 1 310 nm, 1 550 nm (-60 ~ 0) dBm 1 310 nm, 1 550 nm (-60 ~ 0) dB 1 310 nm, 1 550 nm (20 ~ 40) dB 1 310 nm, 1 550 nm 1 310 nm 3.2 km Fiber 13.2 km Fiber 1 550 nm 3.2 km Fiber 13.2 km Fiber	0.07 dB 0.024 nm 0.024 nm 0.024 nm 0.024 nm 0.07 dB 0.07 dB 0.7 dB 0.03 nm 0.09 m 0.4 m 0.09 m 0.4 m	Optical powermeter, OTDR, Fiber reference, Wavelength meter Optical spectrum analyzer/ SICT-CP-70416

704. Fiber optics

Measured Quantity Instrument or Gauge	Field Code	Range	CMC (The Confidence Level is about 95 %)	Comments
Optical network analyzer Optical loss measure	70416	1 310 nm 7.20 dB Fiber 2.90 dB Fiber 1 550 nm 4.20 dB Fiber 1.60 dB Fiber	0.05 dB 0.04 dB 0.05 dB 0.04 dB	Optical powermeter, OTDR, Fiber reference, Wavelength meter Optical spectrum analyzer/ SICT-CP-70416
Optical spectrum analyzers Wavelength measure Resolution measure Absolute optical power measure Linearity measure	70417	1 310 nm 1 550 nm Resolution: (0.1 ~ 1) nm 1 310 nm 1 550 nm 1 310 nm, 1 550 nm (-60 ~ 0) dBm 1 310 nm, 1 550 nm (-60 ~ 0) dB	0.024 nm 0.024 nm 0.024 nm 0.024 nm 0.07 dB 0.03 dB	Wavelength meter, Optical powermeter/ SICT-CP-70417
Optical time domain reflectometers, OTDR Wavelength output Optical Length measure Optical loss measure	70418	1 310 nm, 1 550 nm 1 310 nm 3.2 km Fiber 13.2 km Fiber 1 550 nm 3.2 km Fiber 13.2 km Fiber 1 310 nm 7.20 dB Fiber 2.90 dB Fiber 1 550 nm 4.20 dB Fiber 1.60 dB Fiber	0.024 nm 0.09 m 0.3 m 0.09 m 0.2 m 0.10 dB 0.08 dB 0.09 dB 0.04 dB	Fiber reference, Optical spectrum analyzer/ SICT-CP-70418
Return loss meters Return loss measure	70423	1 310 nm, 1 550 nm 20 dB ~ 40 dB	0.7 dB	Optical Returnloss measure SICT-CP-70423
Frequency stabilized lasers ands LDs Wavelength optical power	70429	1 310 nm 1 550 nm 1 310 nm, 1 550 nm 0 dBm ~ -60 dBm	1.4 pm 1.6 pm 0.07 dB	Wavelength meter, Optical powermeter/ SICT-CP-70429

704. Fiber optics

Measured Quantity Instrument or Gauge	Field Code	Range	CMC (The Confidence Level is about 95 %)	Comments
ASE light sources Wavelength output Optical power output	70430	1 310 nm, 1 550 nm 1 310 nm, 1 550 nm 0 dBm ~ -60 dBm	0.024 nm 0.07 dB	Wavelength meter, Optical powermeter/ SICT-CP-70430
Optical power stabilized lasers and LDs Wavelength output Optical power output	70433	1 310 nm 1 550 nm 1 310 nm, 1 550 nm 0 dBm ~ -60 dBm	1.4 pm 1.6 pm 0.07 dB	Wavelength meter, Optical powermeter/ SICT-CP-70433

901. Chemical analysis

Measured Quantity Instrument or Gauge	Field Code	Range	CMC (The Confidence Level is about 95 %)	Comments
Breath alcohol analyzers Ethanol	90101	0 μmol/mol ~ 78.6 μmol/mol (0.000 ~ 0.030) %BAC 78.6 μmol/mol ~ 497.8 μmol/mol (0.030 ~ 0.190) %BAC	3.3 × 10 ⁻² 2.1 × 10 ⁻²	Standard gas/ SICT-CP-90101
Environmental air monitoring instruments Oxygen Carbon monoxide Carbon dioxide Nitrogen monoxide Isobutane Methane Hydrogen sulfide Propane Isobutylene Ammonia Sulfur dioxide Nitrogen dioxide Hydrogen Hydrogen chloride Sulfur hexafluoride Ozone	90102	0 μmol/mol ~ 700 μmol/mol 0.07 cmol/mol ~ 1.5 cmol/mol 1.5 cmol/mol ~ 20 cmol/mol 0 μmol/mol ~ 850 μmol/mol 0 cmol/mol ~ 0.45 cmol/mol 0.45 cmol/mol ~ 5.00 cmol/mol 5.00 cmol/mol ~ 19.00 cmol/mol 0 μmol/mol ~ 850 μmol/mol 0 cmol/mol ~ 0.8 cmol/mol 0 cmol/mol ~ 2.0 cmol/mol 0 μmol/mol ~ 45 μmol/mol 0 μmol/mol ~ 2 000 μmol/mol 0 μmol/mol ~ 25 μmol/mol 0 μmol/mol ~ 50 μmol/mol 0 μmol/mol ~ 850 μmol/mol 0 μmol/mol ~ 1 000 μmol/mol 0 μmol/mol ~ 500 μmol/mol 0.05 cmol/mol ~ 2.0 cmol/mol 0 μmol/mol ~ 50 μmol/mol 0 cmol/mol ~ 100 cmol/mol 0.0 nmol/mol 0.0 nmol/mol ~ 200.0 nmol/mol 200.0 nmol/mol ~ 600.0 nmol/mol 600.0 nmol/mol ~ 1 000.0 nmol/mol	1.0 × 10 ⁻² 2.0 × 10 ⁻² 1.1 × 10 ⁻² 2.1 × 10 ⁻² 2.1 × 10 ⁻² 1.6 × 10 ⁻² 2.0 × 10 ⁻² 2.1 × 10 ⁻² 2.0 × 10 ⁻² 2.0 × 10 ⁻² 3.8 × 10 ⁻² 3.0 × 10 ⁻² 1.2 × 10 ⁻² 4.9 × 10 ⁻² 2.1 × 10 ⁻² 1.0 × 10 ⁻² 1.5 × 10 ⁻² 2.1 × 10 ⁻² 3.6 × 10 ⁻² 0.1 × 10 ⁻² 2.2 nmol/mol 2.6 × 10 ⁻² 2.3 × 10 ⁻² 2.2 × 10 ⁻²	Standard gas/ SICT-CP-90102
Gas analyzers Oxygen Carbon monoxide Carbon dioxide Nitrogen monoxide Isobutane Methane Hydrogen sulfide Propane Isobutylene Ammonia Sulfur dioxide Nitrogen dioxide Hydrogen Hydrogen chloride Sulfur hexafluoride Ozone	90103	0 μmol/mol ~ 700 μmol/mol 0.07 cmol/mol ~ 1.5 cmol/mol 1.5 cmol/mol ~ 20 cmol/mol 0 μmol/mol ~ 850 μmol/mol 0 cmol/mol ~ 0.45 cmol/mol 0.45 cmol/mol ~ 5.00 cmol/mol 5.00 cmol/mol ~ 19.00 cmol/mol 0 μmol/mol ~ 850 μmol/mol 0 cmol/mol ~ 0.8 cmol/mol 0 cmol/mol ~ 2.0 cmol/mol 0 μmol/mol ~ 45 μmol/mol 0 μmol/mol ~ 2 000 μmol/mol 0 μmol/mol ~ 25 μmol/mol 0 μmol/mol ~ 50 μmol/mol 0 μmol/mol ~ 850 μmol/mol 0 μmol/mol ~ 1 000 μmol/mol 0 μmol/mol ~ 500 μmol/mol 0.05 cmol/mol ~ 2.0 cmol/mol 0 μmol/mol ~ 50 μmol/mol 0 cmol/mol ~ 100 cmol/mol 0.0 nmol/mol 0.0 nmol/mol ~ 200.0 nmol/mol 200.0 nmol/mol ~ 600.0 nmol/mol 600.0 nmol/mol ~ 1 000.0 nmol/mol	1.0 × 10 ⁻² 2.0 × 10 ⁻² 1.1 × 10 ⁻² 2.1 × 10 ⁻² 2.1 × 10 ⁻² 1.6 × 10 ⁻² 2.0 × 10 ⁻² 2.1 × 10 ⁻² 2.0 × 10 ⁻² 2.0 × 10 ⁻² 3.8 × 10 ⁻² 3.0 × 10 ⁻² 1.2 × 10 ⁻² 4.9 × 10 ⁻² 2.1 × 10 ⁻² 1.0 × 10 ⁻² 1.5 × 10 ⁻² 2.1 × 10 ⁻² 3.6 × 10 ⁻² 0.1 × 10 ⁻² 2.2 nmol/mol 2.6 × 10 ⁻² 2.3 × 10 ⁻² 2.2 × 10 ⁻²	Standard gas/ SICT-CP-90103

901. Chemical analysis

Measured Quantity Instrument or Gauge	Field Code	Range	CMC (The Confidence Level is about 95 %)	Comments
Exhaust gas test instruments	90104			Standard gas/ SICT-CP-90103
Oxygen		0 cmol/mol ~ 1.5 cmol/mol	2.0×10^{-2}	
		1.5 cmol/mol ~ 20 cmol/mol	1.1×10^{-2}	
Carbon monoxide		0 cmol/mol ~ 5.0 cmol/mol	2.1×10^{-2}	
Carbon dioxide		0 cmol/mol ~ 19 cmol/mol	2.0×10^{-2}	
Nitrogen monoxide		0 μ mol/mol ~ 2 000 μ mol/mol	2.0×10^{-2}	
Isobutane		0 cmol/mol ~ 0.8 cmol/mol	2.0×10^{-2}	
Methane		0 cmol/mol ~ 2.0 cmol/mol	2.0×10^{-2}	
Propane		0 μ mol/mol ~ 2 000 μ mol/mol	3.0×10^{-2}	
Ammonia		0 μ mol/mol ~ 50 μ mol/mol	4.9×10^{-2}	
Sulfur dioxide		0 μ mol/mol ~ 850 μ mol/mol	2.1×10^{-2}	
Nitrogen dioxide		0 μ mol/mol ~ 1 000 μ mol/mol	1.0×10^{-2}	
Hydrogen		0 μ mol/mol ~ 500 μ mol/mol	1.5×10^{-2}	
		0.05 cmol/mol ~ 2.0 cmol/mol	2.1×10^{-2}	