

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

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CALIBRATION

Valid To : October. 29. 2029

Accreditation No : KC01-018

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

Field Code	Item of Calibration	On-Site	Field Code	Item of Calibration	On-Site	Field Code	Item of Calibration	On-Site
102. Linear dimension			10230	Cylindrical ring gauges	N	10320	Precision squares	N
10201	Balls	N	10231	Step blocks	N	10321	Theodolites, transits	N
10203	Electrical/Mechanical comparators	Y	10232	Step gauges	N	10322	Angular displacement transducers	Y
			10233	Taper thickness gauges	N			
10204	Gauge block comparators	Y	10234	Ultrasonic thickness gauges	Y	10323	Alignment telescopes, line of sight collimators	N
10206	Dial/cylinder gauge testers	N	10235	Ultrasonic/coating thickness specimens	N			
10207	Doctor blades	N				10324	Calibration system for survey instruments	Y
10208	Distance meters; electrooptic /laser/ultrasonic	N	10236	Coating thickness testers	Y			
			10237	Torque arms	N			
10209	End bars	N	10238	Width measuring specimens	N	10326	Laser levels	N
10210	Extensometers, linear displacement transducers	Y				10327	Optical wedges	N
			103. Angle					
10211	Filler gauges	Y	10302	Angle gauge blocks	N	104. Form		
10212	Film applicators	N	10303	Autocollimators	N	10401	Form testers	Y
10213	Gap gauges	N	10304	Bevel protractors	Y	10404	Optical flats	N
10214	Gauge blocks, by comparison	N	10306	Clinometers	N	10405	Optical parallels	N
10216	Height gauges/measuring machines	Y	10307	Collimators	Y	10406	Parallel blocks	N
			10308	Fine angle generators, level comparators	N	10407	Precision surface plates	Y
10219	Linear scales	Y				10408	Profile gauges	N
10220	Standard measuring machines	Y	10310	Indexing tables	N	10409	Roundness measurement instruments	Y
10221	Micro scales/Standard scales	N	10311	Plate/square/electric levels	N			
10223	Electronic micrometers	Y	10312	Auto levels	N	10410	Form standard specimens	N
10224	Height micrometers, riser blocks	N	10314	Penta-prisms	N	10411	Roundness standard/roundness magnification standard specimens	N
			10315	Polygons	N			
10225	Laser scan micrometers	Y	10316	Rotary tables	Y			
10227	Standard tape rules, peripheral gauges	N	10317	Sine bars, plates, tables, centers	N	10412	Straight edges	N
						10413	Straight rules	N
10228	Cylindrical plug/pin gauges, Thread measuring wire gauges	Y	10318	Squareness testers, right angle testers	Y	10415	Test bars	N
						10416	Spherometers	N
10229	Radius gauges	N	10319	Cylindrical squares	N			

Field Code	Item of Calibration	On-Site	Field Code	Item of Calibration	On-Site	Field Code	Item of Calibration	On-Site
105. Complex geometry			10609	Micro indicators, test indicators	Y	20409	Differential pressure gauges	Y
10501	Base gauges for electric bulb	N	10610	Micrometer heads	Y	20411	Gauge pressure gauges	Y
10502	Bench centers	Y	10611	3-points, micrometers	Y	20412	Pressure transducers/transmitters	Y
10503	Contact coordinate measuring machines	Y	10612	Inside micrometers	Y	20413	Dial type vacuum gauges	Y
			10613	Outside micrometers	Y	20414	Water depth meters	Y
10504	Non-contact coordinate measuring machines	Y	10615	Particle counters	N	20499	Others; Pressure switchs	Y
			10617	Standard sieves	N	205. Vacuum		
10505	Gauge block accessories	N	10619	Water level meters	N	20501	Capacitance diaphragm gauges	N
10508	Hardness indenters	N	10620	Welding gauges	N	20502	Spinning rotor gauges	N
10511	Measuring microscopes, Profile projectors	Y	10621	Optical micrometers	N	20503	Ionization gauges	N
			201. Mass			20504	Thermal conductivity gauge; pirani, thermocouple, convector, etc.	N
10512	Micro measuring microscopes	Y	20102	Auto-hopper scale balances	Y			
10513	Orifice plates	N	20103	Auto-packer scale balances	Y			
10514	Taper plug gauges	N	20104	Axle weigher balances	N	20505	Standard leaks, Helium leak detectors	Y
10515	Taper ring gauges	N	20106	Dial platform scale balances	Y			
10517	Stylus type roughness testers	Y	20107	Dial swing scale balances	Y	206. Volume		
			20109	Electric balances	Y	20601	Volumetric glasswares	N
10518	Socket gauges for electric bulb	N	20111	Manual swing scale balances	Y	20602	Pycnometers	N
			20112	Platform scale balances	Y	20603	Rain gauges	Y
10519	Roughness standard /comparison specimens	N	20113	Spring scale balances	Y	20604	Standard volume vessels	Y
			20116	Weights	Y	20605	Concrete air content meters	N
10523	Thread measuring machines	Y	202. Force			20606	Piston type volume meters	Y
10525	Thread plug gauges	N	20202	Force measuring devices	N	207. Density		
10526	Taper thread plug gauges	N	20203	Tension/compression testing machines	Y	20702	Liquid density meters	N
10527	Thread ring gauges	N				20704	Salinity meters	N
10528	Taper thread ring gauges	N	20204	push-pull gauge	Y	20705	Sucrose meters	N
10529	V-blocks, box blocks	N	203. Torque			20706	Hydrometers; density, specific gravity, alcohol, API, baume, sugar, milk, soil, salinity, LPG, etc.	N
10530	Position gauges	N	20302	Torque measuring devices	Y			
10531	SEM/TEM/SPM/AFM microscope	Y	20303	Torque wrenches/drivers	Y			
106. Various dimensional			204. Pressure					
10601	Inside/outside/gear tooth calipers, caliper gauges	Y	20401	Altimeters	Y	20707	Chloride meters	N
			20402	Manometers	Y	20799	Others; Solid density	N
10603	Cylinder/bore gauges	Y	20403	Pneumatic pressure ballances	N	208. Viscosity		
10604	Depth gauges, depth micrometers	Y	20404	Hydraulic pressure ballances	N	20801	Kinematic viscometers; capillary, etc.	N
			20405	Air data test systems	Y			
10605	Dial/digital gauges	Y	20406	Absolute pressure gauges	Y	20802	Dynamic viscometers; rotaional, etc.	Y
10606	Geodesic baselines	Y	20407	Blood pressure gauges	Y			
10608	Grind gauges	N	20408	Compound pressure gauges	Y			

Field Code	Item of Calibration	On-Site	Field Code	Item of Calibration	On-Site	Field Code	Item of Calibration	On-Site
209. Fluid flow			21099	Others; IRHD hardness testers	N	40202	Decade capacitors	Y
20901	Anemometers; hot-wire	N	211. Impact			40204	Standard capacitors	Y
20902	Anemometers; pitot tube, etc.	N	21102	Charpy impact testers	Y	40205	Earth testers	Y
			21103	Izod impact testers	Y	40206	Inductance bridges	Y
20908	Gas flowmeters; differential pressure	N	301. Time/frequency				/indicators	
			30102	Frequency standards	N	40208	Inductors	Y
20909	Liquid flowmeters; differential pressure	N	30103	General frequency sources	Y	40210	Insulation testers	Y
			30104	Frequency meters/counters	Y	40211	Q-meters	Y
20910	Liquid flowmeters; electromagnetic	N	30105	Time interval sources	Y	40213	Resistance bridges & similar instruments	Y
			30106	Time interval meters	Y			
20911	Gas flowmeters; thermal mass, etc.	N	/stop watches/timers			40214	Resistance meters	Y
			302. Velocity & revolution			40215	Resistors	Y
20912	Liquid flowmeters; Coriolis, etc.	N	30201	Standard RPM generators	Y	40216	Electrical conductivity meters	Y
			30202	Contact type tachometers	Y	40217	Impedance bridges/LCR meters	Y
20914	Gas flowmeters; positive displacement	N	30203	Photo tachometers /stroboscopes	Y	403. AC voltage, current & power		
						40301	AC ammeters	Y
20915	Liquid flowmeters; positive displacement	N	30204	Speed meters	Y	40302	Clamp ammeters/voltmeters	Y
			30205	Wow-flutter generators	N	40303	AC voltage/current calibrators	Y
20916	Gas flowmeters; turbine	N	30206	Wow-flutter meters	Y			
20917	Liquid flowmeters; turbine	N	401. DC Voltage & current			40304	Wattmeter calibrators	Y
20918	Gas flowmeters; ultrasonic	N	40101	DC ammeters	Y	40305	AC current shunts	Y
20919	Liquid flowmeters; ultrasonic	N	40102	Transconductance amplifiers	Y	40306	Phase angle generators, synchro resolve generators	N
			40103	DC voltage/current calibrators	Y			
20920	Gas flowmeters; variable area	N	40104	Electrical temperature calibrators	Y	40307	Voltage/current phase angle meters/synchro resolve meters	N
20921	Liquid flowmeters; variable area	N	40105	DC current shunts	Y	40308	Potential transformer test sets	Y
20922	Gas flowmeters; vortex	N	40106	Galvanometers /null detectors	Y			
20923	Liquid flowmeters; vortex	N					40309	Potential transformer
20925	Anemometers; vane, etc	N	40107	Potentiometers	Y	40310	Power factor meters	Y
20999	Others; Anemometers; ultrasonic waves	N	40108	DC power supplies	Y	40311	AC power meters	Y
			40110	DC voltage dividers	N	40312	AC power supplies	Y
210. Hardness			40111	DC voltage standards	N	40313	Puncture/safety testers	Y
21001	Brinell hardness testers	Y	40112	DC voltmeters	Y	40314	Power recorders	Y
21002	Rockwell hardness testers	Y	40113	Static/ionic voltmeters	Y	40315	Current transformer test sets	Y
21003	Shore hardness testers	Y	402. Resistance, Capacitance and Inductance					
21004	Vickers hardness testers	Y				40316	Current/turn current coil transformers	N
21005	Durometer hardness testers	N	40201	Capacitance bridges	Y			
21006	Leeb hardness testers	N				/indicators	40318	AC voltmeters

Field Code	Item of Calibration	On-Site	Field Code	Item of Calibration	On-Site	Field Code	Item of Calibration	On-Site
40319	Watt hour meters	Y	40438	Video signal analyzers	Y	40637	Thermocouple power sensors	Y
40321	Ratio transformers	N	405. Low frequency electric & magnetic field			40638	Pulse generators	Y
404. Other DC & LF measurements						40639	Radar test sets	Y
40401	LF amplifiers	Y	40503	Flux meters	Y	40640	RF signal generators	Y
40402	DC/LF attenuators	Y	40504	Flux sources	N	40641	RF spectrum analyzers	Y
40403	Multimeter calibrators	Y	40508	Magnetometers	Y	40642	RF speed guns	Y
40404	Oscilloscope calibrators	Y	40510	Reference/standard magnets	N	40643	Surge generators	Y
40405	CD/DVD meters/analyzers	Y	406. Radio frequency measurement			40644	SWR meters	Y
40406	Video signal generators	Y	40601	RF amplifiers	Y	40645	RF terminations	Y
40407	Audio distortion analyzers /meters	Y	40602	Coaxial attenuators	Y	40646	Coaxial thermistor mounts	Y
			40605	Burst pulse generators	Y	40650	RF voltmeters	Y
40408	LF filters	Y	40606	Attenuator calibrators	N	40651	Vector voltmeters	Y
40409	LF/audio signal analyzers	Y	40607	RF power meter calibrators	Y	40652	Field strength meters	Y
40410	Line frequency meters	Y	40608	EMC transducers; current probes, absorbing clamps, etc.	Y	40653	AM/FM test sources	Y
40411	Function generators	Y				40654	Dip simulators	Y
40412	Genescopes	Y				407. Field strength & antenna		
40413	AC/DC high voltage voltmeters	Y	40610	Coaxial directional couplers /splitters	Y	40702	Probes	N
						40703	Dipole antennas	N
40415	Jitter meters	Y	40613	Electrostatic discharge generators	Y	40704	Loop antennas	Y
40416	Leakage current testers	Y				40705	Monopole antennas	N
40417	Electronic AC/DC loads	Y	40614	EMC receivers	Y	40707	Horn antennas	N
40418	Modulation meters	Y	40615	RF filters	Y	501. Contact thermometry		
40419	Analogue/digital multimeters	Y	40616	RF impedance meters	Y	50101	Temperature generators: ovens, furnaces, isothermal liquid baths, ice-point baths, dry-block calibrators	Y
40420	Noise meters	Y	40617	RF impulse generators	Y			
40421	Oscilloscopes	Y	40618	Line impedance stabilization networks; LISN, CDN, ISN, etc.	Y	50102	Temperature indicators /recorders/controllers, temperature calibrators	Y
40422	LF phase meters	Y						
40424	Voltage/current recorders	Y				40619	Coaxial standard mismatches	Y
40425	Relay test sets	Y						
40426	LF signal generators	Y	40621	Mobile communication test sets	Y	50104	Resistance thermometers; SPRT, IPRT, thermistors, etc.	Y
40427	LF spectrum analyzers	Y						
40428	Spot generators	Y	40622	Modulation meters	Y			
40429	Sweep generators	Y	40623	Network analyzers	Y	50105	Thermal expansion thermometers; bimetal, gas or liquid type	Y
40430	Signal transducers	Y	40624	Noise figure meters	Y			
40432	Transistor curve tracers	Y	40625	Noise generators	Y			
40434	AC/DC high voltage generators	Y	40626	Noise impulse simulators	Y			
			40627	RF phase noise meters	N			
40435	AC/DC high voltage probes	Y	40628	Coaxial noise sources	Y			
40436	Logic analyzers	Y	40635	RF power meters	Y			
40437	Telephone testers	Y	40636	Diode power sensors	Y			

Field Code	Item of Calibration	On-Site	Field Code	Item of Calibration	On-Site	Field Code	Item of Calibration	On-Site
50106	Thermomecouples: noble metal, base metal, pure metal, special type, etc.	Y	601. Sound in air			70219	UV irradiance meters	N
			60102	Sound calibrators	N	70220	Spectral irradiance meters	Y
			60104	Microphones	N	70221	Total spectral radiant flux meters	Y
50107	Temperature transducers	Y	60106	Sound level meters	Y			
50108	Primary fixed-point cells and apparatus	N	603. Vibration			70222	Spectral radiance meters	Y
			60301	Vibration calibrators	N	703. Property of materials		
502. Non contact thermometry			60302	Vibration transducers	N	70301	Colorimeters; material color	Y
50203	Optical pyrometers	N	60303	Vibration measuring instruments	N	70304	Color standard tiles	N
50204	Standard radiation thermometers	Y	701. Photometry			70306	Gloss meters	Y
50205	Thermal image apparatus	N	70101	Illuminance meters	N	70307	Gloss standard plates	Y
50206	Blackbody furnaces	Y	70102	Luminance meters	N	70308	Haze meters	Y
50207	Others; ear thermometers, etc.	N	70103	Total luminous flux meters	Y	70312	Lens meters	Y
			70104	Luminous intensity meters	Y	70315	Optical densitometers	Y
503. Humidity			702. Property of detectos & sources			70319	Reflectance meters	Y
50301	Dew-point hygrometers; chilled mirror, alumina thin film, etc.	N	70202	Color temperature meters	Y	70321	Refractometers	Y
			70203	Color temperature standard lamps	Y	70323	Transmittance meters	Y
50302	Relative humidity hygrometers; polimer thin film, hair, etc.	Y	70204	Colorimeters; source color	Y	70325	Spectrophotometers including FT-IR spectrophotometers	Y
			70207	Laser power meters	N	70326	Wavelength reference materials; absorption cell, bandpass filter, etc.	N
50303	Psychrometers; Assmann ventilated, PRT type, etc.	N	70208	Standard LED light sources	N	704. Fiber optics		
			70209	Total luminous flux standard lamps	N	70402	Broadband light sources	Y
50304	Temperature humidity recorders; hygrothermograph, etc	Y	70210	Optical detectors	N	70410	Optical attenuators	Y
			70211	Pyranometers and pyrhelimeters	N	70412	Fiber-optic power meters	Y
50305	Transducers; dew-point /relative humidity	N	70213	Display color analyzers; luminance, chromaticity, white balance, etc.	Y	70413	Optical loss testers	Y
						70415	Optical multimeters	Y
50306	Humidity generators; two-pressure, two-temperature, flow mixing humidity gererator, constant temperature and humidity chamber, etc.	Y	70214	Luminous intensity standard lamps	N	70416	Optical network analyzers	Y
			70215	Spectral irradiance standard lamps	N	70417	Optical spectrum analyzers	Y
			70216	Total spectral radiant flux standard lamps	N	70418	Optical time domain reflectometers; OTDR	Y
504. Moisture						70423	Return loss meters	Y
50401	Cereal moisture meters	Y	70217	Luminance standard sources	N	70429	Frequency stabilized lasers and LDs	Y
50402	Wood moisture meters	N	70218	Spectral radiance standard sources	N	70430	ASE light sources	Y
50403	Paper moisture meters	N				70433	Optical power stabilized lasers and LDs	Y

Field Code	Item of Calibration	On-Site	Field Code	Item of Calibration	On-Site	Field Code	Item of Calibration	On-Site
901. Chemical analysis								
90101	Breath alcohol analyzers	N						
90102	Environmental air quality monitoring instruments	Y						
90103	Gas analyzers	Y						
90104	Exhaust gas test instruments	Y						
90199	Others; pH meters, Electrical conductivity meters, Turbidity meters	Y						

Note

1. On-site calibration is allowed to items with marking 'Y', not allowed to items with marking 'N'.
 2. Measurement uncertainty normally is quoted as an expanded uncertainty at a coverage probability of 95 %, which usually requires the use of a coverage factor of $k = 2$. It expresses the lowest uncertainty of measurement that can be provided by accredited calibration laboratories in normal conditions.
 3. Due to the calibration environment such as reference standards or customers' facilities, it is note that uncertainty of measurement on a calibration certificate may be expressed larger than measurement uncertainty on scope of accreditation in general.
 4. If continuous calibration range is divided, each divided range's endpoint indicates inclusive.
- * ex) If calibration range is divided to (0 ~ 25) mm and (25 ~ 100) mm, 25 mm in first range indicates inclusive and 25 mm in second range indicates exclusive.

102. Linear dimension

Measured Quantity Instrument or Gauge	Field Code	Range	Measurement uncertainty (The Confidence Level is about 95 %)	Standard/Method of Measurement etc.
Balls	10201	(0.3 ~ 100) mm	$\sqrt{(0.46 \mu\text{m})^2 + (1.5 \times 10^{-6} \times l_0)^2}$	Mesuring Machine, Standard/ SICT-CP-10201
Electrical/Mechanical comparators	10203	(0 ~ 5) mm	0.1 μm	Gauge Block/ SICT-CP-10203
Gauge block comparators (Differences of central length) Comparison Direct	10204	(0 ~ 10) μm (0 ~ 10) mm	$\sqrt{(24 \text{ nm})^2 + (0.33 \times 10^{-6} \times l_0)^2}$ 0.043 μm	Gauge Block/ SICT-CP-10204
Dial/cylinder gauge testers	10206	(0 ~ 100) mm	$\sqrt{(0.15 \mu\text{m})^2 + (0.7 \times 10^{-6} \times l_0)^2}$	Laser Measurement Machine/ SICT-CP-10206
Doctor blades	10207	(0 ~ 10) mm	1.0 μm	Electronic Micrometer/ SICT-CP-10207
Distance meters; electrooptic/laser/ultrasonic	10208	(0 ~ 40) m	$\sqrt{(0.28 \text{ mm})^2 + (5.0 \times 10^{-6} \times l_0)^2}$	Laser interferometer/ SICT-CP-10208
End bars	10209	(25 ~ 1 500) mm	$\sqrt{(0.61 \mu\text{m})^2 + (1.5 \times 10^{-6} \times l_0)^2}$	Linear measuring system/ SICT-CP-10209
Extensometers, linear displacement transducers	10210	(0 ~ 500) mm (500 ~ 1 000) mm	$\sqrt{(1.8 \mu\text{m})^2 + (3.7 \times 10^{-6} \times l_0)^2}$ $\sqrt{(7.6 \mu\text{m})^2 + (5.8 \times 10^{-6} \times l_0)^2}$	Gauge Block, Laser Measurement Machine/ SICT-CP-10210
Filler gauges	10211	(0.01 ~ 10) mm	1.2 μm	Mesuring Machine, Standard/ SICT-CP-10211
Film applicators	10212	(0 ~ 10) mm	1.0 μm	Electronic Micrometer/ SICT-CP-10212
Gap gauges	10213	(1 ~ 500) mm	$\sqrt{(0.61 \mu\text{m})^2 + (4.8 \times 10^{-6} \times l_0)^2}$	Gauge Block, contact coordinate measuring machines/ SICT-CP-10213
Gauge blocks, by comparison	10214	(0.1 ~ 100) mm (100 ~ 250) mm (250 ~ 500) mm (500 ~ 1 000) mm	$\sqrt{(55 \text{ nm})^2 + (0.78 \times 10^{-6} \times l_0)^2}$ $\sqrt{(79 \text{ nm})^2 + (0.71 \times 10^{-6} \times l_0)^2}$ $\sqrt{(151 \text{ nm})^2 + (0.71 \times 10^{-6} \times l_0)^2}$ $\sqrt{(0.16 \mu\text{m})^2 + (0.95 \times 10^{-6} \times l_0)^2}$	Gauge Block Comparator/ SICT-CP-10214
Height gauges/measuring machines	10216	(0 ~ 1 500) mm	$\sqrt{(0.55 \mu\text{m})^2 + (1.7 \times 10^{-6} \times l_0)^2}$	Gauge Block, Step gauge/ SICT-CP-10216
Linear scales	10219	(0 ~ 40) m	$\sqrt{(0.011 \text{ mm})^2 + (0.7 \times 10^{-6} \times l_0)^2}$	Laser interferometer/ SICT-CP-10219
Standard measuring machines	10220	(0 ~ 500) mm	$\sqrt{(0.16 \mu\text{m})^2 + (0.7 \times 10^{-6} \times l_0)^2}$	Gauge Block/ SICT-CP-10220
Micro scales/Standard scales	10221	(0 ~ 1 500) mm	$\sqrt{(0.17 \mu\text{m})^2 + (0.3 \times 10^{-6} \times l_0)^2}$	Linear measuring system/ SICT-CP-10221
Electronic micrometers	10223	(0 ~ 5) mm	0.1 μm	Gauge Block/ SICT-CP-10223
Height micrometers, riser blocks Block Head Parallelism	10224	(0 ~ 1 000) mm (0 ~ 25) mm (0 ~ 600) mm	$\sqrt{(0.61 \mu\text{m})^2 + (2.0 \times 10^{-6} \times l_0)^2}$ 0.9 μm 0.9 μm	Gauge Block Electronic Micrometer/ SICT-CP-10224
Laser scan micrometers	10225	(0.5 ~ 85) mm	$\sqrt{(0.22 \mu\text{m})^2 + (2.9 \times 10^{-6} \times l_0)^2}$	Cylindrical plug/pin gauge/ SICT-CP-10225
Standard tape rules, peripheral gauges	10227	(0 ~ 40) m (40 ~ 80) m (80 ~ 100) m	$\sqrt{(0.032 \text{ mm})^2 + (3.2 \times 10^{-6} \times l_0)^2}$ $\sqrt{(0.12 \text{ mm})^2 + (3.2 \times 10^{-6} \times l_0)^2}$ $\sqrt{(0.23 \text{ mm})^2 + (3.2 \times 10^{-6} \times l_0)^2}$	Laser Measurement Machine/ SICT-CP-10227

102. Linear dimension

Measured Quantity Instrument or Gauge	Field Code	Range	Measurement uncertainty (The Confidence Level is about 95 %)	Standard/Method of Measurement etc.
Cylindrical plug/pin gauges, Thread measuring wire gauges Cylindrical plug/pin gauges Thread measuring wire gauges	10228	(0.01 ~ 200) mm (ø0.1 ~ ø10) mm	$\sqrt{(0.4 \mu\text{m})^2 + (1.0 \times 10^{-6} \times l_0)^2}$ 0.41 μm	Mesuring Machine, Standard/ SICT-CP-10228
Radius gauges	10229	(0.1 ~ 100) mm	1.5 μm	Non-contact coordinate measuring machines, standard scale/ SICT-CP-10229
Cylindrical ring gauges	10230	(1 ~ 300) mm	$\sqrt{(0.66 \mu\text{m})^2 + (2.7 \times 10^{-6} \times l_0)^2}$	Mesuring Machine, Standard/ SICT-CP-10230
Step blocks	10231	(0 ~ 300) μm	0.23 μm	Gauge Block/ SICT-CP-10231
Step gauges	10232	(0 ~ 1 510) mm	$\sqrt{(0.28 \mu\text{m})^2 + (0.8 \times 10^{-6} \times l_0)^2}$	Linear measuring system/ SICT-CP-10232
Taper thickness gauges	10233	(0 ~ 150) mm	4.2 μm	Profile Projector/ SICT-CP-10223
Ultrasonic thickness gauges	10234	(2.5 ~ 100) mm	3 μm	Ultrasonic Tester Blocks/ SICT-CP-10234
Ultrasonic/coating thickness specimens coating thickness specimens Plateness Ultrasonic thickness specimens	10235	(0.01 ~ 25) mm (0.5 ~ 500) mm	1.9 μm 0.8 μm $\sqrt{(0.63 \mu\text{m})^2 + (5.3 \times 10^{-6} \times l_0)^2}$	Gauge Block, Mesuring Machine, Standard/ SICT-CP-10235
Coating thickness testers	10236	(0 ~ 25) mm	2.0 μm	Thickness specimens/ SICT-CP-10236
Torque arms Torque arms Wires	10237	(1 ~ 1 500) mm (0 ~ 5) mm	$\sqrt{(0.60 \mu\text{m})^2 + (5.3 \times 10^{-6} \times l_0)^2}$ 1.2 μm	Gauge Block, contact coordinate measuring machines/ SICT-CP-10237
Width measuring specimens	10238	(0 ~ 200) mm (200 ~ 1 000) mm	$\sqrt{(1.2 \mu\text{m})^2 + (3.4 \times 10^{-6} \times l_0)^2}$ $\sqrt{(1.1 \mu\text{m})^2 + (5.4 \times 10^{-6} \times l_0)^2}$	Mesuring Machine, contact coordinate measuring machines/ SICT-CP-10237

103. Angle

Measured Quantity Instrument or Gauge	Field Code	Range	Measurement uncertainty (The Confidence Level is about 95 %)	Standard/Method of Measurement etc.
Angle gauge blocks Angle	10302	(0 ~ 360)°	0.6"	Indexing tables/ SICT-CP-10302
Autocollimators Angle	10303	(-1 000 ~ 1 000)"	0.5"	Fine angle generators/ SICT-CP-10303
Bevel protractors Angle Accuracy Accessory Angle	10304	(0 ~ 360)° (0 ~ 90)°	0.9' 0.7'	Angle Gauge Block, Coordinate Measur Machine/ SICT-CP-10304
Clinometers Angle	10306	(0 ~ 360)°	3.3"	Rotary tables/ SICT-CP-10306
Collimators Angle scale on the reticle	10307	(-30 ~ 30)'	5"	Total station/ SICT-CP-10307
Fine angle generators, level comparators Angle Flatness	10308	±1 000"	0.6" 0.7 μm	Autocollimators/ SICT-CP-10308
Indexing tables Angle	10310	(0 ~ 360)°	0.6"	Polygons/ SICT-CP-10310
Plate/Square/Electric levels Angle Inclino meter Squareness	10311	(0 ~ 516)" (516 ~ 1 000)" (0 ~ 90)° (0 ~ 400) mm	0.4" 1.2" 0.05' 1.8 μm	Fine angle generators, Rotary tables/ SICT-CP-10311
Auto levels Straightness of Line of Sight Horizontal Angle Automatic level compensation range	10312	(0.6 ~ ∞) m (0 ~ 360)° (-30 ~ 30)°	0.09 mm 1.3' 5"	Calibration system for survey instrument, Indexing table, Rotary table/ SICT-CP-10312
Penta-prisms Angle	10314	90°	0.6"	Autocollimators/ SICT-CP-10314
Polygons Angle	10315	(0 ~ 360)°	0.6"	Indexing tables/ SICT-CP-10315
Rotary tables Angle	10316	(0 ~ 360)°	0.6"	Polygons/ SICT-CP-10316
Sine bars, 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	$\sqrt{(0.35 \mu\text{m})^2 + (2.9 \times 10^{-6} \times l_0)^2}$ 0.5 μm 0.6 μm $\sqrt{(0.12 \mu\text{m})^2 + (2.8 \times 10^{-6} \times l_0)^2}$ 1.0 μm 1.2 μm	Mesuring Machine, Standard/ SICT-CP-10317
Squareness testers, right angle testers	10318	(0 ~ 600) mm	1.8 μm	Cylindrical Square, Precision Square/ SICT-CP-10318
Cylindrical squares Line of Sight	10319	(0 ~ 300) mm (300 ~ 600) mm (0 ~ 600) mm	1.6 μm 1.9 μm 1.2 μm	Cylindrical Square/ SICT-CP-10319
Precision squares Squareness Parallelism Straightness	10320	(0 ~ 600) mm (0 ~ 600) mm (0 ~ 600) mm	1.8 μm 0.8 μm 1.2 μm	contact coordinate measuring machines/ SICT-CP-10320

103. Angle

Measured Quantity Instrument or Gauge	Field Code	Range	Measurement uncertainty (The Confidence Level is about 95 %)	Standard/Method of Measurement etc.
Theodolites, transits Straightness of Line of Sight Horizontal Angle Vertical Angle	10321	(0.6 ~ ∞) m (0 ~ 360)° (-45 ~ 45)°	0.09 mm 1.3" 1.3"	Calibration system for survey instrument, Indexing table/ SICT-CP-10321
Angular displacement transducers Angle	10322	(0 ~ 360)°	2.9"	Rotary tables/ SICT-CP-10322
Alignment telescopes, line of sight collimators Straightness of Line of Sight Optical micrometer	10323	(0.6 ~ ∞) m (0 ~ 1.2) mm	0.022 mm 2 μm	Calibration system for survey instrument, Alignment telescope/ SICT-CP-10323
Calibration system for survey instruments Straightness of Line of Sight Horizontal Angle Vertical Angle	10324	(0.6 ~ ∞) m (0 ~ 360)° (-45 ~ 45)°	0.022 mm 2.1" 2.0"	Total station, Alignment telescope/ SICT-CP-10324
Jig transits Straightness of Line of Sight Horizontal Angle Vertical Angle	10325	(0.6 ~ ∞) m (0 ~ 360)° (-30 ~ 30)°	0.09 mm 1.3" 2.4"	Calibration system for survey instrument, Indexing table/ SICT-CP-10325
Laser levels Difference from absolute horizontal Difference to vertical about absolute horizontal Automatic level compensation range	10326	(0 ~ 4)' (0 ~ 4)' (-10 ~ 10)°	5" 8" 5"	Autocollimator, Rotary table/ SICT-CP-10326
Optical wedges Angular value on the wedge scale	10327	(-30 ~ 30)"	0.8"	Autocollimator/ SICT-CP-10327

104. Form

Measured Quantity Instrument or Gauge	Field Code	Range	Measurement uncertainty (The Confidence Level is about 95 %)	Standard/Method of Measurement etc.
Form testers Height length Width Angle	10401	(0 ~ 100) mm (0 ~ 100) mm 15° ~ 120°	0.3 μm 1.1 μm 2"	Form Standard Specimens Gage Block, Angle Gage Block/ SICT-CP-10401
Optical flats Flatness	10404	ø(0 ~ 60) mm ø(60 ~ 100) mm	0.05 μm 0.06 μm	Optical Flat/ SICT-CP-10404
Optical parallels Flatness Parallelism	10405	ø(0 ~ 30) mm ø(0 ~ 30) mm	0.05 μm 0.07 μm	Optical Flat,Gauge block comparator/ SICT-CP-10405
Parallel blocks Parallelism Flatness Length Difference	10406	(0 ~ 1 000) mm (0 ~ 1 000) mm (0 ~ 1 000) mm	0.9 μm 0.9 μm 1.3 μm	Electronic Micrometer/ SICT-CP-10406
Precision surface plates Flatness	10407	(100 ~ 40 000) cm ² (40 000 ~ 250 000) cm ²	1.7 μm 4.5 μm	Electronic Level/ SICT-CP-10407
Profile gauges	10408	(0 ~ 5) mm	0.5 μm	Gage Block/ SICT-CP-10408
Roundness measurement instruments Detector accuracy Rotational accuracy of spindle Rotational accuracy of axis	10409	(0 ~ 1 000) μm 360° 360°	0.12 μm 17 nm 17 nm	Roundness Standard Ball/ SICT-CP-10409
Form standard specimens Height Width Radius Angle	10410	(0 ~ 50) mm (0 ~ 100) mm (2.5 ~ 10) mm (10 ~ 50) mm (0 ~ 90)°	1.2 μm $\sqrt{(0.59 \mu\text{m})^2 + (7.3 \times 10^{-6} \times l_0)^2}$ 1.0 μm 1.4 μm 0.007°	Standard measuring machine, Non-contact coordinate measuring machine/ SICT-CP-10410
Roundness standard/roundness magnification standard specimens Standard specimens Standard ball	10411	(0 ~ 300) μm 360°	0.53 μm 37 nm	Roundness Tester/ SICT-CP-10411
Straight edges Straightness Parallelism	10412	(0 ~ 2 000) mm (0 ~ 2 000) mm	1.6 μm 1.6 μm	Electronic levels/ SICT-CP-10412
Straight rules Length	10413	(0 ~ 3 000) mm	0.04 mm	LASER INTERFEROMETER/ SICT-CP-10413
Test bars Roundness Cylindricity Run-out	10415	(0 ~ 400) mm (0 ~ 400) mm (0 ~ 400) mm	0.2 μm 0.6 μm 0.7 μm	Roundness Tester,Electronic Micrometer/ SICT-CP-10415
Spherometers	10416	(0 ~ 30) mm	0.3 μm	Gauge Block/ SICT-CP-10416

105. Complex geometry

Measured Quantity Instrument or Gauge	Field Code	Range	Measurement uncertainty (The Confidence Level is about 95 %)	Standard/Method of Measurement etc.
Base gauges for electric bulb Inside diameter of pass/stop and screw Pitch	10501	(1 ~ 50) mm (0.3 ~ 10) mm	$\sqrt{(0.47 \mu\text{m})^2 + (3.0 \times 10^{-6} \times l_0)^2}$ 1.6 μm	Mesuring Machine, Standard/ SICT-CP-10501
Bench centers Difference of both center Flatness of both bed Center height difference	10502	(0 ~ 200) mm (200 ~ 500) mm (0 ~ 500) mm (0 ~ 200) mm (200 ~ 500) mm	1.3 μm 3.3 μm 0.9 μm 1.3 μm 3.3 μm	Test Bar/ SICT-CP-10502
Contact coordinate measuring machines	10503	(0 ~ 1 500) mm (0 ~ 600) mm (0 ~ 600) mm	$\sqrt{(0.56 \mu\text{m})^2 + (2.1 \times 10^{-6} \times l_0)^2}$ 1.5 μm 1.8 μm	Step Gauge/ SICT-CP-10503
Non-contact coordinate measuring machines	10504	(0 ~ 1 000) mm	$\sqrt{(0.43 \mu\text{m})^2 + (2.2 \times 10^{-6} \times l_0)^2}$	Standard Scale/ SICT-CP-10504
Gauge block accessories Round jaw A-type parallel jaw Base block Center point Flatness Straightness Parallelism	10505	(0 ~ 50) mm (0 ~ 50) mm (0 ~ 50) mm (0 ~ 20) mm (0 ~ 150) mm (0 ~ 300) mm (0 ~ 150) mm	0.4 μm 0.4 μm 0.4 μm 0.8 μm 0.04 μm 0.4 μm 0.4 μm	Gauge Block/ SICT-CP-10505
Hardness indenters Diameter Radius Angle	10508	(1 ~ 13) mm (0.2 ~ 6) mm (0 ~ 173)°	0.5 μm 1.0 μm 0.012°	Standard measuring machine, Non-contact coordinate measuring machine/ SICT-CP-10410
Measuring microscopes, Profile projectors Length Magnification Angle	10511	(0 ~ 500) mm (5 ~ 100) X (0 ~ 360)°	$\sqrt{(0.43 \mu\text{m})^2 + (2.2 \times 10^{-6} \times l_0)^2}$ 0.04 % 0.9'	Standard Scale/ SICT-CP-10511
Micro measuring microscopes	10512	(0 ~ 1) mm (1 ~ 50) mm	0.7 μm 3.0 μm	Standard Scale/ SICT-CP-10512
Orifice plates Inside diameter Thickness	10513	(12.7 ~ 100) mm (100 ~ 300) mm (0 ~ 15) mm	$\sqrt{(0.55 \mu\text{m})^2 + (3.0 \times 10^{-6} \times l_0)^2}$ $\sqrt{(1.0 \mu\text{m})^2 + (3.0 \times 10^{-6} \times l_0)^2}$ 0.6 μm	Standard measuring machine/ SICT-CP-10513
Taper plug gauges Small end diameter Big end diameter Angle Gage height	10514	(2 ~ 200) mm (2 ~ 200) mm (0 ~ 90)° (2 ~ 200) mm	$\sqrt{(1.2 \mu\text{m})^2 + (4.1 \times 10^{-6} \times l_0)^2}$ $\sqrt{(1.3 \mu\text{m})^2 + (4.1 \times 10^{-6} \times l_0)^2}$ 5.9" $\sqrt{(1.1 \mu\text{m})^2 + (4.1 \times 10^{-6} \times l_0)^2}$	Measuring Machine, Standard/ SICT-CP-10514
Taper ring gauges Small end diameter Big end diameter Gage height Angle	10515	(1 ~ 200) mm (1 ~ 200) mm (5 ~ 200) mm (0 ~ 90)°	2.0 μm 2.0 μm 0.6 μm 0.005°	contact coordinate measuring machines/ SICT-CP-10515

105. Complex geometry

Measured Quantity Instrument or Gauge	Field Code	Range	Measurement uncertainty (The Confidence Level is about 95 %)	Standard/Method of Measurement etc.
Stylus type roughness testers Roughness parameter(Ra) Roughness parameter(Rz) Mean width(RSm) H, D	10517	(0 ~ 2) μm (2 ~ 10) μm (0 ~ 7) μm (7 ~ 30) μm (0 ~ 300) μm (0 ~ 6) μm (6 ~ 20) μm	9 nm 26 nm 20 nm 0.27 μm 1.0 μm 63 nm 92 nm	Roughness Specimen/ SICT-CP-10517
Socket gauges for electric bulb Outside diameter of pass/stop and screw Pitch	10518	(1 ~ 50) mm (0.3 ~ 10) mm	$\sqrt{(0.47 \mu\text{m})^2 + (3.0 \times 10^{-6} \times l_0)^2}$ 1.6 μm	Mesuring Machine, Standard/ SICT-CP-10518
Roughness standard/comparison specimens Depth(H) Mean width(RSm) Roughness parameter(Ra) Roughness parameter(Rz)	10519	(0 ~ 6) μm (6 ~ 20) μm (0 ~ 300) μm (0 ~ 2) μm (2 ~ 10) μm (0 ~ 7) μm (7 ~ 30) μm	$\sqrt{(13 \text{ nm})^2 + (9.0 \times 10^{-3} \times R)^2}$ $\sqrt{(15 \text{ nm})^2 + (8.4 \times 10^{-3} \times R)^2}$ $\sqrt{(0.51 \mu\text{m})^2 + (8.6 \times 10^{-3} \times R)^2}$ $\sqrt{(2.6 \text{ nm})^2 + (10 \times 10^{-3} \times R)^2}$ $\sqrt{(7.4 \text{ nm})^2 + (10 \times 10^{-3} \times R)^2}$ $\sqrt{(7.4 \text{ nm})^2 + (9.0 \times 10^{-3} \times R)^2}$ $\sqrt{(96 \text{ nm})^2 + (2.5 \times 10^{-2} \times R)^2}$	Roughness Tester/ SICT-CP-10519
Thread measuring machines	10523	(1 ~ 150) mm	$\sqrt{(0.16 \mu\text{m})^2 + (0.7 \times 10^{-6} \times l_0)^2}$	Laser interferometer/ SICT-CP-10523
Thread plug gauges Outside diameter Effective diameter Pitch Half angle	10525	(1.0 ~ 205) mm (1.0 ~ 210) mm (0.3 ~ 10) mm (0.5 ~ 45)°	2.0 μm 1.0 μm 1.2 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 ~ 50) mm (2 ~ 50) mm (2 ~ 200) mm (2 ~ 200) mm (2 ~ 200) mm (2 ~ 200) mm	2' 1.3 μm 2.0 μm 2.7 μm 1.9 μm 3.8 μm 2.5 μm 4.2 μm	Measuring Machine, Standard/ SICT-CP-10526
Thread ring gauges Minor diameter Effective diameter Pitch	10527	(0.71 ~ 200) mm (0.71 ~ 200) mm (0.25 ~ 10) mm	1.7 μm 1.7 μm 1.6 μm	Measuring Machine, Standard/ SICT-CP-10527
Taper thread ring gauges Alternation Thickness Notch length	10528	± 3 mm (0 ~ 100) mm (0 ~ 100) mm	2.7 μm 1.5 μm 2.7 μm	Measuring Machine, Standard/ SICT-CP-10528
V-blocks, box blocks Plane figure Parallelism Difference of both part	10529	$\Phi(5 \sim 300)$ mm $\Phi(5 \sim 300)$ mm $\Phi(5 \sim 300)$ mm $\Phi(5 \sim 300)$ mm $\Phi(5 \sim 300)$ mm	0.7 μm 1.4 μm 2.0 μm 0.6 μm 3.1 μm	contact coordinate measuring machines/ SICT-CP-10529
Position gauges Distance Diameter Angle	10530	(0 ~ 1 000) mm (2 ~ 200) mm (0 ~ 360)°	$\sqrt{(4.9 \mu\text{m})^2 + (4.6 \times 10^{-6} \times l_0)^2}$ $\sqrt{(2.4 \mu\text{m})^2 + (2.6 \times 10^{-6} \times l_0)^2}$ 5.2°	Contact coordinate measuring machine/ SICT-CP-10530
SEM/TEM/SPM/AFM microscopes Magnification	10531	(5 ~ 100) × (100 ~ 500 000) ×	0.000 35 0.000 30	Magnification reference specimen/ SICT-CP-10531

106. Various dimensional

Measured Quantity Instrument or Gauge	Field Code	Range	Measurement uncertainty (The Confidence Level is about 95 %)	Standard/Method of Measurement etc.
Inside/outside/gear tooth calipers, caliper gauges Inside/Outside calipers Caliper gauges	10601	(0 ~ 2 000) mm (0 ~ 100) mm (100 ~ 300) mm	$\sqrt{(8.2 \mu\text{m})^2 + (4.1 \times 10^{-6} \times l_0)^2}$ $\sqrt{(2.4 \mu\text{m})^2 + (4.1 \times 10^{-6} \times l_0)^2}$ $\sqrt{(3.8 \mu\text{m})^2 + (4.1 \times 10^{-6} \times l_0)^2}$	Gauge Block/ SICT-CP-10601
Cylinder/bore gauges Cylinder gauges	10603	(0 ~ 1 000) mm	0.9 μm	Dial Gauge Tester/ SICT-CP-10603
Depth gauges, depth micrometers Depth micrometers Depth gauges	10604	(0 ~ 300) mm (0 ~ 1 000) mm	$\sqrt{(0.67 \mu\text{m})^2 + (4.2 \times 10^{-6} \times l_0)^2}$ $\sqrt{(5.8 \mu\text{m})^2 + (4.5 \times 10^{-6} \times l_0)^2}$	Gauge Block/ SICT-CP-10604
Dial/digital gauges Dial/Digital gauges Thickness measuring device	10605	(0 ~ 100) mm (0 ~ 25) mm	$\sqrt{(0.21 \mu\text{m})^2 + (4.4 \times 10^{-6} \times l_0)^2}$ $\sqrt{(0.82 \mu\text{m})^2 + (4.4 \times 10^{-6} \times l_0)^2}$	Dial Gauge Tester/
Geodesic baselines	10606	(5 ~ 280) m	$\sqrt{(1.7 \text{ mm})^2 + (3.3 \times 10^{-6} \times l_0)^2}$	Total station/ SICT-CP-10606
Grind gauges Depth of slope Straightness	10608	(0 ~ 1) mm (0 ~ 150) mm	1.9 μm 0.7 μm	Electronic micrometer/ SICT-CP-10608
Micro indicators, test indicators	10609	(0 ~ 5) mm	0.22 μm	Dial Gauge Tester/ SICT-CP-10609
Micrometer heads	10610	(0 ~ 50) mm	0.8 μm	Gauge Block/ SICT-CP-10610
3-points, Micrometers	10611	(2 ~ 300) mm	$\sqrt{(1.4 \mu\text{m})^2 + (3.3 \times 10^{-6} \times l_0)^2}$	Ring Gauge/ SICT-CP-10611
Inside micrometers Length Accuracy of scale Extension rod	10612	(5 ~ 300) mm (25 ~ 500) mm (13 ~ 500) mm	$\sqrt{(0.69 \mu\text{m})^2 + (2.9 \times 10^{-6} \times l_0)^2}$ $\sqrt{(0.69 \mu\text{m})^2 + (2.9 \times 10^{-6} \times l_0)^2}$ $\sqrt{(0.82 \mu\text{m})^2 + (3.0 \times 10^{-6} \times l_0)^2}$	Gauge Block/ SICT-CP-10612
Outside micrometers Outside micrometers V-anvil micrometers	10613	(0 ~ 25) mm (25 ~ 1 000) mm (1 ~ 100) mm	$\sqrt{(0.2 \mu\text{m})^2 + (2.9 \times 10^{-6} \times l_0)^2}$ $\sqrt{(0.94 \mu\text{m})^2 + (2.9 \times 10^{-6} \times l_0)^2}$ 1.0 μm	Gauge Block, cylindrical plug gauges/ SICT-CP-10613
Particle counters (Air) Flow Threshold voltage Counting efficiency (Liquid) Flow Threshold voltage	10615	(0.1 ~ 1) μm (0 ~ 100) L/min (0 ~ 10) V 0.1 μm 0.15 μm 0.2 μm 0.3 μm 0.5 μm 1.0 μm (0.05 ~ 25) μm (0 ~ 100) mL/min (0 ~ 10) V	0.09 L/min 0.42 mV 5.3 % 5.6 % 5.7 % 5.8 % 5.9 % 5.8 % 1.4 mL/min 0.42 mV	Particle calibration system/ SICT-CP-10615

106. Various dimensional

Measured Quantity Instrument or Gauge	Field Code	Range	Measurement uncertainty (The Confidence Level is about 95 %)	Standard/Method of Measurement etc.
Standard sieves Wire rod diameter Sieve opening	10617	(0.004 ~ 10) mm (0.004 ~ 130) mm	1.5 μ m 2.4 μ m	Non-contact coordinate measuring machines/ SICT-CP-10617
Water level meters	10619	(0.05 ~ 6.5) m	1.6 mm	Laser distance meter/ SICT-CP-10619
Welding gauges Height or depth Rule Angle Thickness Taper type filler gauge	10620	(0 ~ 100) mm (0 ~ 100) mm (0 ~ 180) $^{\circ}$ (0 ~ 16) mm (0 ~ 7) mm	0.009 mm 0.07 mm 0.13 $^{\circ}$ 0.009 mm 0.07 mm	Non-contact coordinate measuring machine,Gauge Block/ SICT-CP-10620
Optical micrometers Optical axis shift	10621	(0 ~ 1.2) mm (1.2 ~ 5) mm (5 ~ 10) mm	2 μ m 3 μ m 0.03 mm	Standard Scale/ SICT-CP-10621

201. Mass

Measured Quantity Instrument or Gauge	Field Code	Range	Measurement uncertainty (The Confidence Level is about 95 %)	Standard/Method of Measurement etc.
Auto-hopper scale balances	20102	(0 ~ 10) kg (10 ~ 50) kg (50 ~ 200) kg (200 ~ 500) kg (500 ~ 1 000) kg	1.2 g 14 g 21 g 49 g 0.10 kg	Hopper Scale Weight/ SICT-CP-20102
Auto-packer scale balances	20103	(0 ~ 10) kg (10 ~ 50) kg (50 ~ 200) kg	0.8 g 7.7 g 16 g	Weight/ SICT-CP-20103
Axle weigher balances Portable	20104	(100 ~ 500) kg (500 ~ 1 000) kg (1 000 ~ 2 000) kg (2 000 ~ 5 000) kg (5 000 ~ 10 000) kg (10 000 ~ 30 000) kg	0.2 kg 0.4 kg 1 kg 4 kg 9 kg 27 kg	Force Calibration Machine/ SICT-CP-20104
Dial platform scale balances	20106	(0 ~ 30) kg (30 ~ 60) kg (60 ~ 100) kg	42 g 0.08 kg 0.21 kg	Weight/ SICT-CP-20106
Dial swing scale balances	20107	(0 ~ 1) kg (1 ~ 10) kg (10 ~ 20) kg (20 ~ 50) kg (50 ~ 100) kg (100 ~ 200) kg (200 ~ 500) kg (500 ~ 1 000) kg (1 000 ~ 2 000) kg (2 000 ~ 5 000) kg	0.96 g 9.6 g 20 g 48 g 96 g 0.23 kg 0.48 kg 0.96 kg 1.9 kg 4.6 kg	Weight/ SICT-CP-20107
Electric balances	20109	(0 ~ 2) g (2 ~ 6) g (6 ~ 20) g (20 ~ 50) g (50 ~ 100) g (100 ~ 200) g (200 ~ 500) g (500 ~ 1 000) g (1 ~ 2) kg (2 ~ 5) kg (5 ~ 10) kg (10 ~ 25) kg (25 ~ 40) kg (40 ~ 60) kg (60 ~ 150) kg (150 ~ 600) kg (600 ~ 1 000) kg (1 000 ~ 2 000) kg (2 000 ~ 5 000) kg	4.2 µg 6.1 µg 9 µg 12 µg 18 µg 0.03 mg 0.07 mg 0.12 mg 0.3 mg 0.7 mg 2 mg 4 mg 14 mg 22 mg 0.27 g 1.1 g 1.9 g 35 g 0.10 kg	Weight/ SICT-CP-20109

201. Mass

Measured Quantity Instrument or Gauge	Field Code	Range	Measurement uncertainty (The Confidence Level is about 95 %)	Standard/Method of Measurement etc.
Manual swing scale balances	20111	(0 ~ 50) kg (50 ~ 200) kg (200 ~ 500) kg (500 ~ 1 000) kg	38 g 0.19 kg 0.38 kg 0.94 kg	Weight/ SICT-CP-20111
Platform scale balances	20112	(0 ~ 200) kg (200 ~ 500) kg (500 ~ 1 000) kg	46 g 0.09 kg 0.46 kg	Weight/ SICT-CP-20112
Spring scale balances	20113	(0 ~ 10) kg (10 ~ 50) kg (50 ~ 100) kg	21 g 0.08 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 ~ 100) kg 50 kg 100 kg (100 ~ 200) kg 200 kg (200 ~ 1 000) kg 500 kg 1 000 kg	(Class E2) 0.8 µg 0.8 µg 0.8 µg 0.8 µg 0.8 µg 1.0 µg 1.2 µg 1.4 µg 1.9 µg 2.4 µg 2.8 µg 3.8 µg 4.8 µg 5.9 µg 7.2 µg 12 µg 24 µg 61 µg 0.12 mg 0.24 mg 0.60 mg 1.2 mg 2.7 mg (Class F2) 0.12 g 0.20 g (Class M1) 1.0 g (Class F2) 1.2 g 1.9 g	Weights, Mass Comparator/ SICT-CP-20116

202. Force

Measured Quantity Instrument or Gauge	Field Code	Range	Measurement uncertainty (The Confidence Level is about 95 %)	Standard/Method of Measurement etc.
Force measuring devices Force	20202	(0.4 ~ 20) N (20 ~ 50) N (50 ~ 500) N (0.5 ~ 10) kN (10 ~ 20) kN (20 ~ 50) kN (50 ~ 100) kN (100 ~ 200) kN (200 ~ 500) kN (500 ~ 1 000) kN	1.8×10^{-4} 6.7×10^{-5} 6.5×10^{-5} 7.0×10^{-5} 3.7×10^{-4} 4.7×10^{-4} 3.8×10^{-4} 3.2×10^{-4} 4.7×10^{-4} 4.0×10^{-4}	Force Calibration Machine/ SICT-CP-20202
Tension/compression testing machines tensile compression	20203	0.1 N ~ 2 kN (2 ~ 5) kN (5 ~ 10) kN (10 ~ 20) kN (20 ~ 50) kN (50 ~ 100) kN (100 ~ 300) 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} 1.3×10^{-3} 1.4×10^{-3} 1.5×10^{-3} 1.6×10^{-3} 1.4×10^{-3} 1.5×10^{-3} 1.2×10^{-3} 1.5×10^{-3} 1.4×10^{-3} 1.5×10^{-3} 1.3×10^{-3} 1.4×10^{-3} 1.3×10^{-3} 1.4×10^{-3} 1.5×10^{-3} 1.6×10^{-3} 1.4×10^{-3} 1.5×10^{-3} 1.4×10^{-3} 1.5×10^{-3} 1.6×10^{-3}	Weights, Force Measuring Device/ SICT-CP-20203
push-pull gauge Force	20204	(0.02 ~ 0.2) N 0.2 N ~ 2 kN (2 ~ 5) kN	1.4×10^{-2} 1.3×10^{-3} 8.4×10^{-4}	Weights, Force Calibration Machine/ SICT-CP-20204

203. Torque

Measured Quantity Instrument or Gauge	Field Code	Range	Measurement uncertainty (The Confidence Level is about 95 %)	Standard/Method of Measurement etc.
Torque measuring devices Torque	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 (200 ~ 500) N·m (500 ~ 1 000) N·m (1 000 ~ 2 000) N·m	2.0×10^{-3} 3.0×10^{-4} 2.9×10^{-4} 1.5×10^{-4} 2.6×10^{-4} 1.5×10^{-4} 2.2×10^{-4} 1.4×10^{-4} 1.6×10^{-4}	Torque Calibration Machine/ SICT-CP-20302
Torque wrenches/drivers Torque	20303	(0.02 ~ 0.1) N·m (0.1 ~ 0.5) N·m (0.5 ~ 1) N·m (1 ~ 2) N·m (2 ~ 5) N·m (5 ~ 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 (1 000 ~ 2 000) N·m	1.4×10^{-2} 8.8×10^{-3} 7.6×10^{-3} 6.4×10^{-3} 4.8×10^{-3} 4.7×10^{-3} 4.9×10^{-3} 4.5×10^{-3} 4.9×10^{-3} 3.8×10^{-3} 3.6×10^{-3} 3.3×10^{-3} 2.8×10^{-3}	Torque Measuring Device/ SICT-CP-20303

204. Pressure

Measured Quantity Instrument or Gauge	Field Code	Range	Measurement uncertainty (The Confidence Level is about 95 %)	Standard/Method of Measurement etc.
Altimeters	20401	(-4 000 ~ 20 000) m (20 000 ~ 47 000) m	12 m 23 m	Digital pressure gauge, Air Dead Weight Tester/ SICT-CP-20401
Manometers	20402	(0 ~ 200) kPa	2.9×10^{-3}	Digital pressure gauge, Air Dead Weight Tester/ SICT-CP-20402
Pneumatic pressure ballances	20403	(5 ~ 7 000) kPa	4.2×10^{-5}	Dead Weight Tester/ SICT-CP-20403
Hydraulic pressure ballances	20404	(0.2 ~ 20) MPa (20 ~ 200) MPa	6.4×10^{-5} 7.0×10^{-5}	Dead Weight Tester/ SICT-CP-20404
Air data test systems	20405	Static pressure (-2 500 ~ 20 000) m (20 000 ~ 30 500) m	0.6 m 18 m	Digital pressure gauge, Air Dead Weight Tester/ SICT-CP-20405
		Dynamic pressure (0 ~ 342) km/hr (342 ~ 2 122) km/hr	0.1 km/hr 0.3 km/hr	
Absolute pressure gauges	20406	Dial, digital (5 ~ 350) kPa abs (350 ~ 7 000) kPa abs (7 ~ 200) MPa abs	4.0×10^{-5} 4.3×10^{-5} 7.4×10^{-5}	Digital pressure gauge, Air Dead Weight Tester/ SICT-CP-20406
Blood pressure gauges	20407	(0 ~ 40) kPa	0.01 kPa	Digital pressure gauge/ SICT-CP-20407
Compound pressure gauges	20408	(-95 ~ 7 000) kPa	4.4×10^{-5}	Air Dead Weight Tester/ SICT-CP-20408
Differential pressure gauges	20409	(0 ~ 500) Pa (500 ~ 5 000) Pa (5 ~ 350) kPa (350 ~ 7 000) kPa	0.09 Pa 0.8 Pa 4.2×10^{-5} 4.6×10^{-5}	Digital pressure gauge, Air Dead Weight Tester/ SICT-CP-20409
Gauge pressure gauges	20411	(0 ~ 500) Pa (500 ~ 5 000) Pa (5 ~ 350) kPa (350 ~ 7 000) kPa (7 ~ 200) MPa (200 ~ 500) MPa	0.09 Pa 0.8 Pa 4.2×10^{-5} 4.6×10^{-5} 8.6×10^{-5} 2.6×10^{-4}	Digital pressure gauge, Air Dead Weight Tester, Oil Dead Weight Tester/ SICT-CP-20411
Pressure transducers/transmitters	20412	Absolute pressure (5 ~ 5 000) kPa abs (5 ~ 200) MPa abs	2.2×10^{-4} 2.4×10^{-4}	Digital pressure gauge, Air Dead Weight Tester, Oil Dead Weight Tester/ SICT-CP-20412
		Gauge pressure (0 ~ 500) Pa (500 ~ 5 000) Pa (5 ~ 5 000) kPa (5 ~ 500) MPa	0.10 Pa 1.0 Pa 2.2×10^{-4} 2.4×10^{-4}	
Dial type vacuum gauges	20413	(-95 ~ 0) kPa	0.059 kPa	Air Dead Weight Tester, SICT-CP-20413
Water depth meters	20414	(0 ~ 198) m (198 ~ 350) m	0.062 m 0.46 m	Digital pressure gauge/ SICT-CP-20414
Pressure switch	20499	(0 ~ 7 000) Pa (7 ~ 7 000) kPa (7 ~ 50) MPa	20 Pa 8.1×10^{-3} 0.22 MPa	Digital pressure gauge/ SICT-CP-20499

205. Vacuum

Measured Quantity Instrument or Gauge	Field Code	Range	Measurement uncertainty (The Confidence Level is about 95 %)	Standard/Method of Measurement etc.
Capacitance diaphragm gauges Vacuum	20501	(0.133 ~ 13.3) Pa abs (13.3 ~ 133.3) Pa abs (133.3 ~ 1 333) Pa abs (1 333 ~ 13 332) Pa abs (13.332 ~ 133.322) kPa abs	0.037 Pa abs 0.13 Pa abs 1.0 Pa abs 12 Pa abs 17 Pa abs	Baratron gauge, SRG / SICT-CP-20501
Spinning rotor gauges Vacuum	20502	(0.000 13 ~ 0.013) Pa abs	3.5×10^{-2}	Baratron gauge, SRG / SICT-CP-20502
Ionization gauges Vacuum	20503	(0.000 1 ~ 0.133) Pa abs	5.7×10^{-2}	Ionization gauge / SICT-CP-20503
Thermal conductivity gauges; pirani, thermocouple, convectron, etc. Vacuum	20504	(0.133 ~ 13.3) Pa abs (13.3 ~ 133.3) Pa abs (133.3 ~ 1 333) Pa abs (1 333 ~ 13 332) Pa abs (13.332 ~ 133.322) kPa abs	0.037 Pa abs 0.13 Pa abs 1.0 Pa abs 13 Pa abs 17 Pa abs	Baratron gauge, SRG / SICT-CP-20504
Standard leaks, Helium leak detectors Helium leak detector Standard leak	20505	(0.000 1 ~ 10) $\mu\text{Pa m}^3/\text{s}$ (0.000 1 ~ 10) $\mu\text{Pa m}^3/\text{s}$	2.2×10^{-1} 2.1×10^{-1}	Standard leaks, Helium leak detectors / SICT-CP-20505

206. Volume

Measured Quantity Instrument or Gauge	Field Code	Range	Measurement uncertainty (The Confidence Level is about 95 %)	Standard/Method of Measurement etc.
Volumetric glasswares	20601	(0 ~ 0.1) ml (0.1 ~ 0.5) ml (0.5 ~ 1) ml (1 ~ 2) ml (2 ~ 5) ml (5 ~ 10) ml (10 ~ 25) ml (25 ~ 50) ml (50 ~ 100) ml (100 ~ 200) ml (200 ~ 250) ml (250 ~ 500) ml (500 ~ 1 000) ml (1 000 ~ 2 000) ml (2 000 ~ 5 000) ml (5 000 ~ 10 000) ml	0.31 µl 0.40 µl 0.43 µl 1.1 µl 1.7 µl 2.5 µl 4.3 µl 5.1 µl 7.9 µl 13 µl 43 µl 69 µl 92 µl 0.17 ml 0.49 ml 0.87 ml	Weight, balances / SICT-CP-20601
Pycnometers	20602	(0 ~ 50) ml (50 ~ 100) ml (100 ~ 250) ml (250 ~ 500) ml	2.4 µl 4.4 µl 10 µl 21 µl	Weight, balances / SICT-CP-20602
Rain gauges	20603	tipping bucket type : Rainfall intensity : (5 ~ 300) mm/h (0.1 ~ 1) mm standard type : (0.1 ~ 10) mm (10 ~ 50.8) mm (50.8 ~ 178) mm	 1.2 × 10 ⁻³ 0.021 mm 0.054 mm 0.30 mm	Weight, balances / SICT-CP-20603
Standard volume vessels	20604	(0 ~ 20) L (20 ~ 200) L (200 ~ 10 000) L	9.0 × 10 ⁻⁵ 1.3 × 10 ⁻⁴ 1.6 × 10 ⁻³	Balances, Master Meter, Standard volume vessel/ SICT-CP-20604
Concrete air content meters	20605	(0 ~ 10) %	0.032 %	Weight, balances / SICT-CP-20605
Piston type volume meters	20606	(0 ~ 1) µl (1 ~ 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	0.004 µl 0.005 µl 0.006 µl 0.008 µl 0.018 µl 0.035 µl 0.047 µl 0.14 µl 0.35 µl 0.65 µl 1.6 µl 1.9 µl 2.4 µl 5.0 µl 14 µl 64 µl	Weight, balances / SICT-CP-20606

207. Density

Measured Quantity Instrument or Gauge	Field Code	Range	Measurement uncertainty (The Confidence Level is about 95 %)	Standard/Method of Measurement etc.
Liquid density meters	20702	(0.7 ~ 1.9) g/cm ³	0.000 093 g/cm ³	Density standard materials/ SICT-CP-20702
Salinity meters	20704	(0 ~ 10) % (10 ~ 26) %	0.004 % 0.007 %	NaCl/ SICT-CP-20704
Sucrose meters	20705	(0 ~ 20) % (20 ~ 60) % (60 ~ 80) %	0.014 % 0.016 % 0.025 %	Sucrose/ SICT-CP-20705
Hydrometers; density, specific gravity, alcohol, API, baume, sugar, milk, soil, salinity, LPG, etc.	20706	density specific gravity	(0.600 ~ 0.700) g/cm³ 0.000 035 g/cm³ (0.700 ~ 0.800) g/cm³ 0.000 038 g/cm³ (0.800 ~ 0.900) g/cm³ 0.000 042 g/cm³ (0.900 ~ 1.000) g/cm³ 0.000 046 g/cm³ (1.000 ~ 1.100) g/cm³ 0.000 050 g/cm³ (1.100 ~ 1.200) g/cm³ 0.000 055 g/cm³ (1.200 ~ 1.300) g/cm³ 0.000 059 g/cm³ (1.300 ~ 1.400) g/cm³ 0.000 066 g/cm³ (1.400 ~ 1.500) g/cm³ 0.000 071 g/cm³ (1.500 ~ 1.600) g/cm³ 0.000 075 g/cm³ (1.600 ~ 1.700) g/cm³ 0.000 079 g/cm³ (1.700 ~ 1.800) g/cm³ 0.000 084 g/cm³ (1.800 ~ 1.900) g/cm³ 0.000 088 g/cm³ (1.900 ~ 2.000) g/cm³ 0.000 093 g/cm³ (2.000 ~ 2.200) g/cm³ 0.000 25 g/cm³ (2.200 ~ 3.000) g/cm³ 0.000 28 g/cm³ (3.000 ~ 3.600) g/cm³ 0.000 30 g/cm³ (3.600 ~ 4.000) g/cm³ 0.000 32 g/cm³ 0.590 ~ 0.700 0.000 068 0.700 ~ 0.800 0.000 069 0.800 ~ 0.900 0.000 072 0.900 ~ 1.000 0.000 075 1.000 ~ 1.100 0.000 078 1.100 ~ 1.200 0.000 082 1.200 ~ 1.300 0.000 086 1.300 ~ 1.400 0.000 091 1.400 ~ 1.500 0.000 096 1.500 ~ 1.600 0.000 10 1.600 ~ 1.800 0.000 11 1.800 ~ 2.000 0.000 12 2.000 ~ 2.020 0.000 26 2.020 ~ 2.500 0.000 60 2.500 ~ 3.000 0.000 61	Solid density standard material, Hydrostatic weighing Apparatus/ SICT-CP-20706-1 Solid density standard material, Hydrostatic weighing Apparatus/ SICT-CP-20706-2

* 20704, 20705, 20706, 20707 unit % is weight percent.

207. Density

Measured Quantity Instrument or Gauge	Field Code	Range	Measurement uncertainty (The Confidence Level is about 95 %)	Standard/Method of Measurement etc.
Hydrometers; density, specific gravity, alcohol, API, baume, sugar, milk, soil, salinity, LPG, etc.	20706			
alcohol (Volumn)		(0 ~ 10) % (10 ~ 30) % (30 ~ 40) % (40 ~ 50) % (50 ~ 60) % (60 ~ 70) % (70 ~ 80) % (80 ~ 90) % (90 ~ 100) %	0.039 % 0.043 % 0.038 % 0.030 % 0.025 % 0.023 % 0.020 % 0.019 % 0.017 %	Solid density standard material, Hydrostatic weighing Apparatus/ SICT-CP-20706-3
API		-1 ~ 51 51 ~ 101	0.013 0.014	Solid density standard material, Hydrostatic weighing Apparatus/ SICT-CP-20706-4
Baumé-light		10 ~ 30 30 ~ 40 40 ~ 60 60 ~ 70 70 ~ 100	0.015 0.016 0.018 0.019 0.12	Solid density standard material, Hydrostatic weighing Apparatus/ SICT-CP-20706-5
Baumé - heavy		0 ~ 40 40 ~ 75	0.014 0.013	Solid density standard material, Hydrostatic weighing Apparatus/ SICT-CP-20706-5
sugar		(0 ~ 10) % (10 ~ 90) %	0.018 % 0.017 %	Solid density standard material, Hydrostatic weighing Apparatus/ SICT-CP-20706-6
milk		(15 ~ 20) (20 ~ 40)	0.081 0.082	Solid density standard material, Hydrostatic weighing Apparatus/ SICT-CP-20706-7
Bouyoucos		(-5.0 ~ 60.0) g/L	0.14 g/L	Solid density standard material, Hydrostatic weighing Apparatus/ SICT-CP-20706-8
salinity		(0 ~ 26.4) %	0.025 %	Solid density standard material, Hydrostatic weighing Apparatus/ SICT-CP-20706-9
LPG		(0.50 ~ 0.55) g/cm ³ (0.55 ~ 0.60) g/cm ³ (0.60 ~ 0.65) g/cm ³	0.000 065 g/cm ³ 0.000 066 g/cm ³ 0.000 068 g/cm ³	Solid density standard material, Hydrostatic weighing Apparatus/ SICT-CP-20706-10

* 20704, 20705, 20706, 20707 unit % is weight percent.

207. Density

Measured Quantity Instrument or Gauge	Field Code	Range	Measurement uncertainty (The Confidence Level is about 95 %)	Standard/Method of Measurement etc.
Hydrometers; density, specific gravity, alcohol, API, baume, sugar, milk, soil, salinity, LPG, etc. Twaddell	20706	0 ~ 12 12 ~ 74 74 ~ 102 102 ~ 170 170 ~ 200	0.016 0.059 0.060 0.061 0.062	Solid density standard material, Hydrostatic weighing Apparatus/ SICT-CP-20706-11
Chloride meters	20707	(0 ~ 0.1) % (0.1 ~ 2.0) %	0.000 2 % 0.001 0 %	Chlorine standard liquid/ SICT-CP-20707
Others; Solid density Stainless steel Glass	20799	(1 ~ 2) g (2 ~ 5) g (5 ~ 10) g (10 ~ 20) g (20 ~ 50) g (50 ~ 100) g (100 ~ 500) g (1 ~ 2) g (2 ~ 5) g (5 ~ 10) g (10 ~ 20) g (20 ~ 500) g	0.004 6 g/cm ³ 0.002 4 g/cm ³ 0.001 0 g/cm ³ 0.000 59 g/cm ³ 0.000 43 g/cm ³ 0.000 37 g/cm ³ 0.000 36 g/cm ³ 0.000 46 g/cm ³ 0.000 25 g/cm ³ 0.000 14 g/cm ³ 0.000 12 g/cm ³ 0.000 11 g/cm ³	Solid density standard material, Hydrostatic weighing Apparatus/ SICT-CP-20706-11

* 20704, 20705, 20706, 20707 unit % is weight percent.

208. Viscosity

Measured Quantity Instrument or Gauge	Field Code	Range	Measurement uncertainty (The Confidence Level is about 95 %)	Standard/Method of Measurement etc.
Kinematic viscometers; capillary, etc. Capillary Viscometers	20801	(2.5 ~ 100 000) mm ² /s	1.3×10^{-2}	Viscosity CRM/ SICT-CP-20801
Ford Cup Viscometers		(10 ~ 1 000) mm ² /s	1.3×10^{-2}	
Zahn Cup Viscometers		(10 ~ 1 000) mm ² /s	1.3×10^{-2}	
Dynamic viscometers; rotaional, etc. Rotational Viscometers	20802	(2.5 ~ 200 000) mPa·s	1.7×10^{-2}	Viscosity CRM/ SICT-CP-20802
Stormer Viscometers		(500 ~ 5 000) mPa·s	1.7×10^{-2}	

209. Fluid flow

Measured Quantity Instrument or Gauge	Field Code	Range	Measurement uncertainty (The Confidence Level is about 95 %)	Standard/Method of Measurement etc.
Anemometers; hot-wire	20901	(0.1 ~ 1.0) m/s (1.0 ~ 2.0) m/s (2.0 ~ 70) m/s	8.4×10^{-2} 8.2×10^{-3} 4.6×10^{-3}	Wind Tunnel, Pitot tube, LDV/ SICT-CP-20901
Anemometers; pitot tube, etc.	20902	(0.1 ~ 1.0) m/s (1.0 ~ 2.0) m/s (2.0 ~ 70) m/s	8.4×10^{-2} 8.2×10^{-3} 4.6×10^{-3}	Wind Tunnel, Pitot tube, LDV/ SICT-CP-20902
Gas flowmeters; differential pressure	20908	$(1.2 \times 10^{-5} \sim 0.001 \text{ 2}) \text{ m}^3/\text{h}$ $(0.001 \text{ 2} \sim 0.12) \text{ m}^3/\text{h}$ $(0.12 \sim 300) \text{ m}^3/\text{h}$ $(300 \sim 4 \text{ 000}) \text{ m}^3/\text{h}$	1.9×10^{-2} 2.2×10^{-3} 2.8×10^{-3} 4.4×10^{-3}	Sonic Nozzle/SICT-CP-20928 Master Meter/SICT-CP-20929
Liquid flowmeters; differential pressure	20909	$(0.01 \sim 50) \text{ m}^3/\text{h}$ $(0.000 \text{ 12} \sim 0.01) \text{ m}^3/\text{h}$ $(0.01 \sim 50) \text{ m}^3/\text{h}$	2.6×10^{-3} 2.6×10^{-3} 7.0×10^{-4}	Master Meter/SICT-CP-20926 Weight measuring method/ SICT-CP-20927
Liquid flowmeters; electromagnetic	20910	$(0.01 \sim 50) \text{ m}^3/\text{h}$ $(0.000 \text{ 12} \sim 0.01) \text{ m}^3/\text{h}$ $(0.01 \sim 50) \text{ m}^3/\text{h}$	2.6×10^{-3} 2.6×10^{-3} 7.0×10^{-4}	Master Meter/SICT-CP-20926 Weight measuring method/ SICT-CP-20927
Gas flowmeters; thermal mass, etc.	20911	$(1.2 \times 10^{-5} \sim 0.001 \text{ 2}) \text{ m}^3/\text{h}$ $(0.001 \text{ 2} \sim 0.12) \text{ m}^3/\text{h}$ $(0.12 \sim 300) \text{ m}^3/\text{h}$ $(300 \sim 4 \text{ 000}) \text{ m}^3/\text{h}$	1.9×10^{-2} 2.2×10^{-3} 2.8×10^{-3} 4.4×10^{-3}	Sonic Nozzle/SICT-CP-20928 Master Meter/SICT-CP-20929
Liquid flowmeters; Coriolis, etc.	20912	$(0.01 \sim 50) \text{ m}^3/\text{h}$ $(0.000 \text{ 12} \sim 0.01) \text{ m}^3/\text{h}$ $(0.01 \sim 50) \text{ m}^3/\text{h}$	2.6×10^{-3} 2.6×10^{-3} 7.0×10^{-4}	Master Meter/SICT-CP-20926 Weight measuring method/ SICT-CP-20927
Gas flowmeters; positive displacement	20914	$(1.2 \times 10^{-5} \sim 0.001 \text{ 2}) \text{ m}^3/\text{h}$ $(0.001 \text{ 2} \sim 0.12) \text{ m}^3/\text{h}$ $(0.12 \sim 300) \text{ m}^3/\text{h}$ $(300 \sim 4 \text{ 000}) \text{ m}^3/\text{h}$	1.9×10^{-2} 2.2×10^{-3} 2.8×10^{-3} 4.4×10^{-3}	Sonic Nozzle/SICT-CP-20928 Master Meter/SICT-CP-20929
Liquid flowmeters; positive displacement	20915	$(0.01 \sim 50) \text{ m}^3/\text{h}$ $(0.000 \text{ 12} \sim 0.01) \text{ m}^3/\text{h}$ $(0.01 \sim 50) \text{ m}^3/\text{h}$	2.6×10^{-3} 2.6×10^{-3} 7.0×10^{-4}	Master Meter/SICT-CP-20926 Weight measuring method/ SICT-CP-20927
Gas flowmeters; turbine	20916	$(1.2 \times 10^{-5} \sim 0.001 \text{ 2}) \text{ m}^3/\text{h}$ $(0.001 \text{ 2} \sim 0.12) \text{ m}^3/\text{h}$ $(0.12 \sim 300) \text{ m}^3/\text{h}$ $(300 \sim 4 \text{ 000}) \text{ m}^3/\text{h}$	1.9×10^{-2} 2.2×10^{-3} 2.8×10^{-3} 4.4×10^{-3}	Sonic Nozzle/SICT-CP-20928 Master Meter/SICT-CP-20929
Liquid flowmeters; turbine	20917	$(0.01 \sim 50) \text{ m}^3/\text{h}$ $(0.000 \text{ 12} \sim 0.01) \text{ m}^3/\text{h}$ $(0.01 \sim 50) \text{ m}^3/\text{h}$	2.6×10^{-3} 2.6×10^{-3} 7.0×10^{-4}	Master Meter/SICT-CP-20926 Weight measuring method/ SICT-CP-20927

209. Fluid flow

Measured Quantity Instrument or Gauge	Field Code	Range	Measurement uncertainty (The Confidence Level is about 95 %)	Standard/Method of Measurement etc.
Gas flowmeters; ultrasonic	20918	($1.2 \times 10^{-5} \sim 0.001$ 2) m ³ /h (0.001 2 ~ 0.12) m ³ /h (0.12 ~ 300) m ³ /h (300 ~ 4 000) m ³ /h	1.9×10^{-2} 2.2×10^{-3} 2.8×10^{-3} 4.4×10^{-3}	Sonic Nozzle/SICT-CP-20928 Master Meter/SICT-CP-20929
Liquid flowmeters; ultrasonic	20919	(0.01 ~ 50) m ³ /h (0.000 12 ~ 0.01) m ³ /h (0.01 ~ 50) m ³ /h	2.6×10^{-3} 2.6×10^{-3} 7.0×10^{-4}	Master Meter/SICT-CP-20926 Weight measuring method/ SICT-CP-20927
Gas flowmeters; variable area	20920	($1.2 \times 10^{-5} \sim 0.001$ 2) m ³ /h (0.001 2 ~ 0.12) m ³ /h (0.12 ~ 300) m ³ /h (300 ~ 4 000) m ³ /h	1.9×10^{-2} 2.2×10^{-3} 2.8×10^{-3} 4.4×10^{-3}	Sonic Nozzle/SICT-CP-20928 Master Meter/SICT-CP-20929
Liquid flowmeters; variable area	20921	(0.01 ~ 50) m ³ /h (0.000 12 ~ 0.01) m ³ /h (0.01 ~ 50) m ³ /h	2.6×10^{-3} 2.6×10^{-3} 7.0×10^{-4}	Master Meter/SICT-CP-20926 Weight measuring method/ SICT-CP-20927
Gas flowmeters; vortex	20922	($1.2 \times 10^{-5} \sim 0.001$ 2) m ³ /h (0.001 2 ~ 0.12) m ³ /h (0.12 ~ 300) m ³ /h (300 ~ 4 000) m ³ /h	1.9×10^{-2} 2.2×10^{-3} 2.8×10^{-3} 4.4×10^{-3}	Sonic Nozzle/SICT-CP-20928 Master Meter/SICT-CP-20929
Liquid flowmeters; vortex	20923	(0.01 ~ 50) m ³ /h (0.000 12 ~ 0.01) m ³ /h (0.01 ~ 50) m ³ /h	2.6×10^{-3} 2.6×10^{-3} 7.0×10^{-4}	Master Meter/SICT-CP-20926 Weight measuring method/ SICT-CP-20927
Anemometers; vane, etc	20925	(0.1 ~ 1.0) m/s (1.0 ~ 2.0) m/s (2.0 ~ 70) m/s	8.4×10^{-2} 8.2×10^{-3} 4.6×10^{-3}	Wind Tunnel, Pitot tube, LDV/ SICT-CP-20925
Others; Anemometers; Ultrasonic current meter	20999	(0.1 ~ 1.0) m/s (1.0 ~ 2.0) m/s (2.0 ~ 70) m/s	8.4×10^{-2} 8.2×10^{-3} 4.6×10^{-3}	Wind Tunnel, Pitot tube, LDV/ SICT-CP-20999

210. Hardness

Measured Quantity Instrument or Gauge	Field Code	Range	Measurement uncertainty (The Confidence Level is about 95 %)	Standard/Method of Measurement etc.
Brinell hardness testers	21001	(95 ~ 250) HBW 10/3000 (250 ~ 450) HBW 10/3000 (450 ~ 653) HBW 10/3000	2.8 HBW 10/3000 4.7 HBW 10/3000 7.1 HBW 10/3000	Brinell Hardness CRM/ SICT-CP-21001
Rockwell hardness testers	21002	(20 ~ 70) HRC (10 ~ 100) HRBW (42 ~ 86) HR30N (29 ~ 82) HR30TW	0.42 HRC 0.71 HRBW 0.65 HR30N 1.3 HR30TW	Rockwell Hardness CRM/ SICT-CP-21002
Shore hardness testers	21003	(20 ~ 35) HS (45 ~ 55) HS (55 ~ 65) HS (75 ~ 85) HS (85 ~ 100) HS	1.3 HS 1.3 HS 1.3 HS 1.6 HS 1.6 HS	Shore Hardness CRM/ SICT-CP-21003
Vickers hardness testers	21004	(30 ~ 250) HV 0.2 (250 ~ 600) HV 0.2 (600 ~ 1 000) HV 0.2 (30 ~ 250) HV 0.3 (250 ~ 600) HV 0.3 (600 ~ 1 000) HV 0.3 (30 ~ 250) HV 0.5 (250 ~ 600) HV 0.5 (600 ~ 1 000) HV 0.5 (30 ~ 250) HV 1 (250 ~ 600) HV 1 (600 ~ 1 000) HV 1 (30 ~ 250) HV 10 (250 ~ 600) HV 10 (600 ~ 1 000) HV 10 (30 ~ 250) HV 30 (250 ~ 600) HV 30 (600 ~ 1 000) HV 30	3.7 HV 0.2 14 HV 0.2 22 HV 0.2 3.8 HV 0.3 14 HV 0.3 22 HV 0.3 3.3 HV 0.5 14 HV 0.5 21 HV 0.5 3.2 HV 1 14 HV 1 21 HV 1 2.7 HV 10 5.6 HV 10 10 HV 10 2.4 HV 30 5.8 HV 30 10 HV 30	Vickers Hardness CRM/ 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) HDDO (0 ~ 100) HDE (0 ~ 100) HDE2 (0 ~ 100) HDF (0 ~ 100) HDFO (0 ~ 100) HDM (0 ~ 100) HDO (0 ~ 100) HDOO (0 ~ 100) HDOOO (0 ~ 100) HDOOO-S	0.4 HDA 0.7 HDAM 0.4 HDAO 0.4 HDB 0.4 HDC 0.5 HDC2 0.4 HDCS 0.4 HDD 0.4 HDDO 0.4 HDE 0.5 HDE2 0.5 HDF 0.5 HDFO 0.7 HDM 0.4 HDO 0.4 HDOO 0.4 HDOOO 0.4 HDOOO-S	Durometer Calibration device/ SICT-CP-21005

210. Hardness

Measured Quantity Instrument or Gauge	Field Code	Range	Measurement uncertainty (The Confidence Level is about 95 %)	Standard/Method of Measurement etc.
Leeb hardness testers	21006			Leeb Hardness CRM/ SICT-CP-21006
D Type		(100 ~ 500) HLD	4.5 HLD	
		(500 ~ 700) HLD	4.5 HLD	
		(700 ~ 1 000) HLD	4.4 HLD	
G Type		(100 ~ 450) HLG	6.1 HLG	
		(450 ~ 600) HLG	6.1 HLG	
		(600 ~ 1 000) HLG	6.1 HLG	
Others; IRHD hardness testers	21099			Profile projector, Force measuring device/ SICT-CP-21099
Diameter		(30 ~ 100) IRHD N	0.003 mm	
		(84.8 ~ 100) IRHD H	0.003 mm	
		(9.9 ~ 34.9) IRHD L	0.003 mm	
		(30 ~ 100) IRHD M	0.003 mm	
Indicating device		(30 ~ 100) IRHD N	0.003 mm	
		(84.8 ~ 100) IRHD H	0.003 mm	
		(9.9 ~ 34.9) IRHD L	0.003 mm	
		(30 ~ 100) IRHD M	0.003 mm	
Force		(30 ~ 100) IRHD N	0.006 N	
		(84.8 ~ 100) IRHD H	0.006 N	
		(9.9 ~ 34.9) IRHD L	0.006 N	
		(30 ~ 100) IRHD M	0.003 N	

211. Impact

측정량/장비	분류번호	교정범위	측정불확도 (신뢰수준 약 95 %)	사용표준/측정방법 등
Charpy impact testers	21102	(0.5 ~ 900) J	-	Laser Distance Meter, Electronic Force Measuring Device/ SICT-CP-21102
Izod impact testers	21103	(0.5 ~ 900) J	-	Laser Distance Meter, Electronic Force Measuring Device/ SICT-CP-21103

301. Time/frequency

Measured Quantity Instrument or Gauge	Field Code	Range	Measurement uncertainty (The Confidence Level is about 95 %)	Standard/Method of Measurement etc.
Frequency standards Time Base Frequency	30102	(0.1 ~ 10) MHz	1.0×10^{-12}	GPS Receiver, Universal Counter/ SICT-CP-30102
General frequency sources Time Base Frequency	30103	10 kHz ~ 100 MHz	1.0×10^{-12}	GPS Receiver, Universal Counter/ SICT-CP-30103
Frequency meters/counters Time Base Frequency Input Frequency	30104	(1 ~ 10) MHz 0.01 Hz ~ 1 Hz 1 Hz ~ 60 GHz	1.0×10^{-12} 64 pHz 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 Difference 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} 1.4×10^{-7} 4.6×10^{-7} 6.1 ms 6.1 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	Measurement uncertainty (The Confidence Level is about 95 %)	Standard/Method of Measurement etc.
Standard RPM generators Revolution Velocity Measurement	30201	1 min ⁻¹ (1 ~ 10 000) min ⁻¹	0.007 0 min ⁻¹ 0.007 0 min ⁻¹	GPS Receiver, Synthesizer Function Generator/ SICT-CP-30201
Revolution Velocity Measurement (Centrifuge)		30 min ⁻¹ (30 ~ 5 000) min ⁻¹ (5 000 ~ 10 000) min ⁻¹ (10 000 ~ 60 000) min ⁻¹ (60 000 ~ 90 000) min ⁻¹ (90 000 ~ 99 000) min ⁻¹	0.017 min ⁻¹ 0.070 min ⁻¹ 0.17 min ⁻¹ 0.82 min ⁻¹ 1.2 min ⁻¹ 2.5 min ⁻¹	
Contact type tachometers Revolution Velocity Measurement	30202	1 min ⁻¹ (1 ~ 999.99) min ⁻¹ (999.99 ~ 5 000) min ⁻¹	0.016 min ⁻¹ 0.016 min ⁻¹ 0.063 min ⁻¹	GPS Receiver, Tachometer Cal System/ SICT-CP-30202
Photo tachometers/stroboscopes Revolution Velocity Measurement (Photo-tachometer)	30203	1 min ⁻¹ (1 ~ 999.99) min ⁻¹ (999.99 ~ 99 999.9) min ⁻¹ (99 999.9 ~ 600 000) min ⁻¹	0.006 1 min ⁻¹ 0.006 1 min ⁻¹ 0.061 min ⁻¹ 0.61 min ⁻¹	GPS Receiver, Photo Signal Detector/ SICT-CP-30203
Revolution Velocity Measurement (Stroboscope)		30 min ⁻¹ (30 ~ 9 999.99) min ⁻¹ (9 999.99 ~ 99 999.9) min ⁻¹ (99 999.9 ~ 500 000) min ⁻¹	0.005 8 min ⁻¹ 0.005 8 min ⁻¹ 0.058 min ⁻¹ 0.58 min ⁻¹	
Speed meters Speed Test	30204	(0 ~ 400) km/h	6.1 × 10 ⁻³ km/h	GPS Receiver, Synthesizer Function Generator/ SICT-CP-30204
Wow-flutter generators Carrier Frequency	30205	10 Hz 10 Hz ~ 99.99 kHz	6.2 × 10 ⁻⁶ 6.2 × 10 ⁻⁶	GPS Receiver, Universal Counter/ SICT-CP-30205
Function Frequency		1 Hz 1 Hz ~ 10 kHz (10 ~ 30) kHz	6.2 × 10 ⁻⁶ 6.2 × 10 ⁻⁶ 2.1 × 10 ⁻⁶	
Wow/Flutter Deviation		(1 Hz ~ 100 Hz) (0 ~ 3) %	0.025 %	
Output Level		10 mV (1 ~ 100) mV (0.1 ~ 1) V (1 ~ 6) V	5.8 × 10 ⁻⁴ 5.8 × 10 ⁻⁴ 1.6 × 10 ⁻⁴ 1.4 × 10 ⁻⁴	
CCIR Pulse		10 ms (10 ~ 100) ms	1.0 × 10 ⁻³ 1.0 × 10 ⁻³	
Wow-flutter meters Wow/Flutter Deviation	30206	0.1 % (0.1 ~ 3) %	0.028 % 0.028 %	GPS Receiver, Wow Flutter Calibrator/ SICT-CP-30206
Carrier Frequency		3 kHz 3.15 kHz	6.2 × 10 ⁻⁵ kHz 6.2 × 10 ⁻⁵ kHz	
CCIR Pulse		10 ms (10 ~ 100) ms	0.59 % 0.59 %	
Output Voltage		10 mV (10 ~ 100) mV (0.1 ~ 1) V (1 ~ 10) V	0.87 μV 6.8 μV 9.6 μV 53 μV	

401. DC voltage & current

Measured Quantity Instrument or Gauge	Field Code	Range	Measurement uncertainty (The Confidence Level is about 95 %)	Standard/Method of Measurement etc.
DC ammeters DC Current	40101	(±) 0 pA (0 ~ 1) pA (1 ~ 10) pA (10 ~ 100) pA 100 pA ~ 100 nA 100 nA ~ 1 µA (1 ~ 10) µA (10 ~ 100) µA 100 µA ~ 10 mA (10 ~ 200) mA 200 mA ~ 1 A (1 ~ 100) A	12 fA 2.4×10^{-2} 9.3×10^{-3} 2.3×10^{-3} 8.5×10^{-4} 9.3×10^{-4} 2.8×10^{-5} 2.2×10^{-5} 1.8×10^{-5} 1.1×10^{-5} 2.0×10^{-5} 1.5×10^{-4}	Calibrator/ SICT-CP-40101
Transconductance amplifiers DC Current AC Current	40102	(±) 10 µA ~ 10 A (10 ~ 50) A (50 ~ 100) A 10 µA 10 Hz ~ 10 kHz (10 ~ 100) µA 10 Hz ~ 1 kHz (1 ~ 10) kHz (0.1 ~ 1) mA 10 Hz 10 Hz ~ 1 kHz (1 ~ 10) kHz (1 ~ 100) mA 10 Hz 10 Hz ~ 1 kHz (1 ~ 10) kHz (0.1 ~ 1) A 10 Hz 10 Hz ~ 1 kHz (1 ~ 10) kHz (1 ~ 2) A 10 Hz 10 Hz ~ 1 kHz (1 ~ 10) kHz (2 ~ 5) A 10 Hz 10 Hz ~ 1 kHz (1 ~ 10) kHz	1.3×10^{-5} 4.3×10^{-5} 4.5×10^{-5} 2.6×10^{-3} 3.8×10^{-4} 6.5×10^{-4} 9.8×10^{-5} 7.5×10^{-5} 9.4×10^{-5} 7.8×10^{-5} 4.6×10^{-5} 4.2×10^{-5} 7.9×10^{-5} 4.7×10^{-5} 4.4×10^{-5} 7.9×10^{-5} 4.7×10^{-5} 4.5×10^{-5} 8.2×10^{-5} 5.2×10^{-5} 5.0×10^{-5}	AC-DC Active Current Shunt/ SICT-CP-40102

401. DC voltage & current

Measured Quantity Instrument or Gauge	Field Code	Range	Measurement uncertainty (The Confidence Level is about 95 %)	Standard/Method of Measurement etc.
Transconductance amplifiers AC Current	40102	(5 ~ 10) A 10 Hz 10 Hz ~ 1 kHz (1 ~ 10) kHz (10 ~ 20) A 10 Hz 10 Hz ~ 1 kHz (1 ~ 10) kHz (20 ~ 50) A 10 Hz 10 Hz ~ 1 kHz (1 ~ 10) kHz (50 ~ 100) A 10 Hz 10 Hz ~ 1 kHz (1 ~ 10) kHz (100 ~ 200) A 60 Hz	 8.6×10^{-5} 5.9×10^{-5} 7.8×10^{-5} 9.3×10^{-5} 6.8×10^{-5} 7.8×10^{-5} 1.0×10^{-4} 8.3×10^{-5} 1.1×10^{-4} 1.1×10^{-4} 9.2×10^{-5} 1.2×10^{-4} 4.5×10^{-4}	AC-DC Active Current Shunt/ SICT-CP-40102
DC voltage/current calibrators DC Voltage DC Current	40103	(±) 0 mV (0 ~ 1) mV (1 ~ 2) mV (2 ~ 5) mV (5 ~ 10) mV (10 ~ 20) mV (20 ~ 50) mV (50 ~ 100) mV (0.1 ~ 1) V (1 ~ 10) V (10 ~ 100) V (100 ~ 1 000) V (±) 0 pA (0 ~ 1) pA (1 ~ 10) pA (10 ~ 100) pA (0.1 ~ 100) nA 100 nA ~ 10 A (10 ~ 100) A	 $0.29 \mu\text{V}$ 4.7×10^{-4} 2.3×10^{-4} 9.6×10^{-5} 4.9×10^{-5} 2.5×10^{-5} 1.1×10^{-5} 6.8×10^{-6} 3.6×10^{-6} 3.3×10^{-6} 5.3×10^{-6} 5.6×10^{-6} 9.5 fA 2.0×10^{-2} 6.7×10^{-3} 2.2×10^{-3} 8.5×10^{-4} 1.3×10^{-5} 4.5×10^{-5}	Reference Multimeter/ SICT-CP-40103
Electrical temperature calibrators TEMPERATURE(SOURCE) T/C	40104	(-9.835 ~ 0.000) mV 0.000 mV (0.000 ~ 13.421) mV (13.421 ~ 37.006) mV (37.006 ~ 61.017) mV (61.017 ~ 76.373) mV	 $0.49 \mu\text{V}$ $0.29 \mu\text{V}$ $0.50 \mu\text{V}$ $0.54 \mu\text{V}$ $0.59 \mu\text{V}$ $0.63 \mu\text{V}$	Reference Multimeter/ SICT-CP-40104

401. DC voltage & current

Measured Quantity Instrument or Gauge	Field Code	Range	Measurement uncertainty (The Confidence Level is about 95 %)	Standard/Method of Measurement etc.
Electrical temperature calibrators	40104			Reference Multimeter/ SICT-CP-40104
RTD		0.999 Ω	0.063 m Ω	
		(0.999 ~ 2.499) Ω	3.0×10^{-5}	
		(2.499 ~ 4.322) Ω	1.9×10^{-5}	
		(4.322 ~ 100.000) Ω	8.9×10^{-6}	
		(100.000 ~ 177.155) Ω	8.5×10^{-6}	
		(177.155 ~ 313.708) Ω	1.1×10^{-5}	
		(313.708 ~ 627.422) Ω	9.2×10^{-6}	
		(627.422 ~ 3 233.3) Ω	1.1×10^{-5}	
DC Voltage(SOURCE)		($\pm$)		
		0 mV	0.29 μ V	
		(0 ~ 1) mV	4.8×10^{-4}	
		(1 ~ 10) mV	4.9×10^{-5}	
		(10 ~ 100) mV	6.8×10^{-6}	
		(0.1 ~ 1) V	7.4×10^{-6}	
		(1 ~ 10) V	7.3×10^{-6}	
		(10 ~ 100) V	8.4×10^{-6}	
DC Current(SOURCE)		($\pm$)		
		0 mA	0.064 μ A	
		(0 ~ 1) mA	6.3×10^{-5}	
		(1 ~ 10) mA	1.6×10^{-5}	
		(10 ~ 20) mA	3.3×10^{-5}	
		(20 ~ 100) mA	5.2×10^{-5}	
Resistance(SOURCE)		0 Ω	0.061 m Ω	
		(0 ~ 1) Ω	6.7×10^{-5}	
		(1 ~ 10) Ω	1.2×10^{-5}	
		10 Ω ~ 100 k Ω	1.1×10^{-5}	
TEMPERATURE(MEASURE)				
T/C		(-9.835 ~ 0.000) mV	0.59 μ V	
		0.000 mV	0.50 μ V	
		(0.000 ~ 13.422) mV	0.62 μ V	
		(13.422 ~ 28.947) mV	0.75 μ V	
		(28.947 ~ 45.094) mV	0.88 μ V	
		(45.094 ~ 53.113) mV	0.95 μ V	
		(53.113 ~ 76.374) mV	1.1 μ V	
RTD		0.998 Ω	0.24 m Ω	
		(0.998 ~ 2.496) Ω	1.0×10^{-4}	
		(2.496 ~ 4.315) Ω	7.2×10^{-5}	
		(4.315 ~ 16.994) Ω	3.9×10^{-5}	
		(16.994 ~ 249.580) Ω	3.4×10^{-5}	
		(249.580 ~ 317.988) Ω	4.4×10^{-5}	
		(317.988 ~ 390.474) Ω	4.1×10^{-5}	
		(390.474 ~ 3 233.2) Ω	3.4×10^{-5}	

401. DC voltage & current

Measured Quantity Instrument or Gauge	Field Code	Range	Measurement uncertainty (The Confidence Level is about 95 %)	Standard/Method of Measurement etc.
Electrical temperature calibrators DC Voltage(MEASURE)	40104	(±) 0 mV (0 ~ 1) mV (1 ~ 10) mV (10 ~ 100) mV (0.1 ~ 1) V (1 ~ 10) V (10 ~ 100) V (100 ~ 200) V (200 ~ 300) V	0.50 μV 5.2×10^{-4} 5.9×10^{-5} 1.3×10^{-5} 9.3×10^{-6} 4.4×10^{-6} 6.3×10^{-6} 8.0×10^{-6} 2.2×10^{-5}	Reference Multimeter/ SICT-CP-40104
DC Current(MEASURE)		(±) 0 mA (0 ~ 1) mA (1 ~ 10) mA (10 ~ 100) mA (100 ~ 130) mA	0.062 μA 7.9×10^{-5} 4.8×10^{-5} 6.1×10^{-5} 7.5×10^{-5}	
Resistance(MEASURE)		0 Ω (0 ~ 1) Ω (1 ~ 10) Ω (10 ~ 100) Ω (0.1 ~ 1) kΩ (1 ~ 10) kΩ (10 ~ 100) kΩ	0.098 mΩ 6.4×10^{-5} 1.1×10^{-5} 9.6×10^{-6} 6.5×10^{-5} 6.1×10^{-5} 3.4×10^{-5}	
DC current shunts Resistance	40105	1 μΩ (0.001 ~ 0.01) mΩ (0.01 ~ 0.2) mΩ (0.2 ~ 1) mΩ (0.001 ~ 10) Ω (0.01 ~ 10) kΩ (0.01 ~ 10) MΩ (10 ~ 100) MΩ	0.43 nΩ 3.8×10^{-4} 2.7×10^{-4} 1.5×10^{-4} 2.9×10^{-6} 7.9×10^{-7} 5.2×10^{-6} 9.6×10^{-6}	Trans Conductance Amplifier/ SICT-CP-40105
Galvanometers/null detectors DC Voltage		(±) (100 ~ 300) μV (0.3 ~ 1) mV 1 mV ~ 1 000 V	1.4×10^{-2} 4.6×10^{-3} 6.8×10^{-3}	
Potentiometers DC Voltage		(1 ~ 10) mV (10 ~ 50) mV (50 ~ 100) mV (100 ~ 500) mV (0.5 ~ 10) V (10 ~ 100) V (100 ~ 1 000) V	5.0×10^{-4} 5.4×10^{-5} 9.3×10^{-6} 7.4×10^{-6} 6.4×10^{-6} 1.0×10^{-5} 6.1×10^{-5}	

401. DC voltage & current

Measured Quantity Instrument or Gauge	Field Code	Range	Measurement uncertainty (The Confidence Level is about 95 %)	Standard/Method of Measurement etc.
DC power supplies DC Voltage	40108	(±) 0 mV (0 ~ 0.01) V (0.01 ~ 0.1) V (0.1 ~ 100) V (100 ~ 600) V (600 ~ 1 000) V (1 ~ 10) kV	5.8 µV 5.8×10^{-4} 5.8×10^{-5} 7.8×10^{-6} 1.3×10^{-5} 6.6×10^{-5} 7.7×10^{-4}	DC Electronics Load/ SICT-CP-40108
DC Current		(0.001 ~ 0.01) A (0.01 ~ 0.1) A (0.1 ~ 1) A (1 ~ 10) A (10 ~ 500) A (500 ~ 1 000) A (1 000 ~ 3 000) A	5.8×10^{-3} 5.9×10^{-4} 2.4×10^{-4} 3.9×10^{-4} 3.3×10^{-4} 5.1×10^{-4} 5.8×10^{-4}	
Load regulation		(0 ~ 2) mV (2 ~ 20) mV (20 ~ 200) mV	0.25 mV 1.3×10^{-2} 1.4×10^{-3}	
Ripple		(0.1 ~ 0.4) mV (0.4 ~ 0.6) mV (0.6 ~ 1) mV (1 ~ 10) mV (10 ~ 50) mV	3.8×10^{-1} 1.1×10^{-1} 7.3×10^{-2} 4.4×10^{-2} 7.1×10^{-2}	
DC voltage dividers DC Voltage Ratio	40110	(0.01 ~ 1)	1.6×10^{-6}	Calibrator/ SICT-CP-40110
DC voltage standards DC Voltage	40111	0.1 V 1 V 1.018 V 10 V	0.75 µV 0.72 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 ~ 10) mV (10 ~ 20) mV (20 ~ 50) mV (50 ~ 100) mV (0.1 ~ 10) V (10 ~ 100) V (100 ~ 1 000) V	0.49 µV 5.0×10^{-4} 2.5×10^{-4} 1.0×10^{-4} 5.0×10^{-5} 2.5×10^{-5} 1.0×10^{-5} 6.7×10^{-6} 6.3×10^{-6} 8.0×10^{-6}	Calibrator/ SICT-CP-40112
Static/ionic voltmeters DC Voltage	40113	(±) 0 V 0 V ~ 5 kV (5 ~ 15) kV (15 ~ 30) kV (30 ~ 50) kV	6.6 mV 1.3×10^{-2} 1.2×10^{-2} 8.8×10^{-3} 8.5×10^{-3}	DC Power Supply/ SICT-CP-40113

402. Resistance, Capacitance and Inductance

Measured Quantity Instrument or Gauge	Field Code	Range	Measurement uncertainty (The Confidence Level is about 95 %)	Standard/Method of Measurement etc.
Capacitance bridges/indicators	40201			Standard Capacitance Set/ SICT-CP-40201
Frequency		50 Hz ~ 100 MHz	6.8×10^{-8}	
Capacitance		1 pF		
		50 Hz ~ 1 kHz	3.5×10^{-4}	
		1 kHz ~ 1 MHz	3.6×10^{-4}	
		(1 ~ 2) MHz	4.2×10^{-4}	
		(2 ~ 3) MHz	5.4×10^{-4}	
		(3 ~ 4) MHz	7.2×10^{-4}	
		(4 ~ 5) MHz	9.4×10^{-4}	
		(5 ~ 10) MHz	2.5×10^{-3}	
		(10 ~ 13) MHz	3.7×10^{-3}	
		10 pF		
		50 Hz ~ 5 MHz	3.5×10^{-4}	
		(5 ~ 10) MHz	3.7×10^{-4}	
		(10 ~ 13) MHz	3.8×10^{-4}	
		100 pF		
		50 Hz ~ 3MHz	3.5×10^{-4}	
		(3 ~ 4) MHz	3.6×10^{-4}	
		(4 ~ 5) MHz	3.7×10^{-4}	
		(5 ~ 10) MHz	4.8×10^{-4}	
		(10 ~ 13) MHz	6.0×10^{-4}	
		1 000 pF		
		50 Hz ~ 1 MHz	3.5×10^{-4}	
		(1 ~ 2) MHz	3.8×10^{-4}	
		(2 ~ 3) MHz	4.5×10^{-4}	
		(3 ~ 4) MHz	5.6×10^{-4}	
		(4 ~ 5) MHz	7.2×10^{-4}	
		(5 ~ 10) MHz	2.0×10^{-3}	
		(10 ~ 13) MHz	2.9×10^{-3}	
		10 nF		
		(50 ~ 100) Hz	3.0×10^{-4}	
		100 Hz ~ 100 kHz	8.1×10^{-5}	
		100 nF		
		(50 ~ 100) Hz	3.0×10^{-4}	
		100 Hz ~ 100 kHz	8.1×10^{-5}	
		1 μF		
		(50 ~ 100) Hz	6.0×10^{-4}	
		100 Hz ~ 10 kHz	9.0×10^{-5}	
		(10 ~ 100) kHz	1.0×10^{-4}	

402. Resistance, Capacitance and Inductance

Measured Quantity Instrument or Gauge	Field Code	Range	Measurement uncertainty (The Confidence Level is about 95 %)	Standard/Method of Measurement etc.
Capacitance bridges/indicators	40201	3 μ F 120 Hz ~ 1 kHz	1.3×10^{-3}	Standard Capacitance Set/ SICT-CP-40201
Capacitance		10 μ F 120 Hz ~ 1 kHz	1.2×10^{-3}	
		30 μ F 120 Hz	1.3×10^{-3}	
		100 μ F 120 Hz	1.4×10^{-3}	
		300 μ F 120 Hz	1.4×10^{-3}	
		1 mF 120 Hz	1.4×10^{-3}	
		3 mF 120 Hz	1.4×10^{-3}	
		10 mF 120 Hz	1.4×10^{-3}	
		30 mF 120 Hz	2.9×10^{-3}	
(Schering bridges)		(50 ~ 60) Hz		SICT-CP-40201-1
Capacitance		100 pF	7.0×10^{-3}	
		1 000 pF	5.7×10^{-3}	
tan δ		100 pF (50 Hz)		
		0.000 0 ~ 0.001 0	1.7×10^{-4}	
		0.001 0 ~ 0.005 0	1.9×10^{-4}	
		0.005 0 ~ 0.010 0	2.1×10^{-4}	
		0.010 0 ~ 0.030 0	3.1×10^{-4}	
		0.030 0 ~ 0.050 0	4.2×10^{-4}	
		(60 Hz)		
		0.000 0 ~ 0.000 96	1.7×10^{-4}	
		0.000 96 ~ 0.004 8	1.9×10^{-4}	
		0.004 8 ~ 0.010 8	2.2×10^{-4}	
		0.010 8 ~ 0.036 0	3.5×10^{-4}	
		0.036 0 ~ 0.048 0	4.1×10^{-4}	
		1 000 pF (50 Hz)		
		0.000 0 ~ 0.001 0	6.0×10^{-5}	
		0.001 0 ~ 0.005 0	8.0×10^{-5}	
		0.005 0 ~ 0.010 0	1.3×10^{-4}	
		0.010 0 ~ 0.050 0	5.7×10^{-4}	
		0.050 0 ~ 0.100 0	1.2×10^{-3}	
		(60 Hz)		
		0.000 0 ~ 0.001 0	6.0×10^{-5}	
		0.001 0 ~ 0.005 0	8.0×10^{-5}	
		0.005 0 ~ 0.010 0	1.3×10^{-4}	
		0.010 0 ~ 0.050 0	5.7×10^{-4}	
		0.050 0 ~ 0.100 0	1.2×10^{-3}	

402. Resistance, Capacitance and Inductance

Measured Quantity Instrument or Gauge	Field Code	Range	Measurement uncertainty (The Confidence Level is about 95 %)	Standard/Method of Measurement etc.
Decade capacitors Capacitance	40202	50 Hz ~ 20 kHz 1 pF (1 ~ 10) pF (10 ~ 1 000) pF 1 000 pF ~ 10 nF (10 ~ 100) nF 100 nF ~ 1 μF 1 kHz 1 pF (1 ~ 1 000) pF 1 000 pF ~ 10 nF (10 ~ 100) nF 100 nF ~ 1 μF	5.0×10^{-5} 6.7×10^{-5} 5.0×10^{-5} 7.1×10^{-5} 1.8×10^{-4} 5.0×10^{-4} 3.0×10^{-5} 3.0×10^{-5} 4.0×10^{-5} 6.0×10^{-5} 2.0×10^{-4}	Standard Capacitance Set/ SICT-CP-40202
Standard capacitors Capacitance	40204	50 Hz ~ 20 kHz 1 pF (1 ~ 10) pF (10 ~ 1 000) pF 1 000 pF ~ 10 nF (10 ~ 100) nF 100 nF ~ 1 μF 1 kHz 1 pF (1 ~ 1 000) pF 1 000 pF ~ 10 nF (10 ~ 100) nF 100 nF ~ 1 μF 1 pF 1 kHz 1 kHz ~ 1 MHz (1 ~ 2) MHz (2 ~ 3) MHz (3 ~ 4) MHz (4 ~ 5) MHz (5 ~ 10) MHz (10 ~ 13) MHz (1 ~ 10) pF 1 kHz ~ 4 MHz (4 ~ 5) MHz (5 ~ 10) MHz (10 ~ 13) MHz (10 ~ 100) pF 1 kHz ~ 2 MHz (2 ~ 3) MHz (3 ~ 4) MHz (4 ~ 5) MHz (5 ~ 10) MHz (10 ~ 13) MHz	5.0×10^{-5} 5.0×10^{-5} 4.0×10^{-5} 7.0×10^{-5} 1.5×10^{-4} 4.0×10^{-4} 3.0×10^{-5} 3.0×10^{-5} 4.0×10^{-5} 6.0×10^{-5} 2.0×10^{-4} 2.3×10^{-4} 2.5×10^{-4} 3.3×10^{-4} 4.7×10^{-4} 6.7×10^{-4} 9.1×10^{-4} 2.5×10^{-3} 3.8×10^{-3} 2.3×10^{-4} 2.4×10^{-4} 2.6×10^{-4} 2.8×10^{-4} 2.3×10^{-4} 2.4×10^{-4} 2.5×10^{-4} 2.6×10^{-4} 4.0×10^{-4} 5.4×10^{-4}	Standard Capacitance Set/ Capacitance Bridge SICT-CP-40204

402. Resistance, Capacitance and Inductance

Measured Quantity Instrument or Gauge	Field Code	Range	Measurement uncertainty (The Confidence Level is about 95 %)	Standard/Method of Measurement etc.
Standard capacitors Capacitance	40204	100 pF ~ 1 nF 1 kHz 1 kHz ~ 1 MHz (1 ~ 2) MHz (2 ~ 3) MHz (3 ~ 4) MHz (4 ~ 5) MHz (5 ~ 10) MHz (10 ~ 13) MHz (1 ~ 100) nF 120 Hz ~ 100 kHz 100 nF ~ 1 μF 120 Hz 120 Hz ~ 10 kHz (10 ~ 100) kHz (1 ~ 10) μF 120 Hz ~ 1 kHz 30 μF 120 Hz 100 μF 120 Hz 300 μF 120 Hz 1 mF 120 Hz 3 mF 120 Hz 10 mF 120 Hz 30 mF 120 Hz	 2.3×10^{-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} 2.3×10^{-4} 2.4×10^{-4} 1.2×10^{-3} 1.3×10^{-3} 1.3×10^{-3} 1.5×10^{-3} 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	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	 6.3×10^{-3} 6.4×10^{-4} 1.3×10^{-3} 6.4×10^{-4} 1.6×10^{-4} 6.4×10^{-4} 8.6×10^{-4} 7.2×10^{-4} 6.8×10^{-4}	Decade Resistor/ SICT-CP-40205

402. Resistance, Capacitance and Inductance

Measured Quantity Instrument or Gauge	Field Code	Range	Measurement uncertainty (The Confidence Level is about 95 %)	Standard/Method of Measurement etc.
Earth testers AC Current out Timer	40205	1 A (1 ~ 3) A (3 ~ 20) A (20 ~ 30) A (30 ~ 60) A (60 ~ 100) A (100 ~ 150) A (150 ~ 200) A (1 ~ 10 000) s	1.1×10^{-3} 1.4×10^{-3} 9.7×10^{-4} 1.0×10^{-3} 1.4×10^{-3} 1.6×10^{-3} 5.3×10^{-3} 4.1×10^{-3} 5.8×10^{-6}	Decade Resistor/ SICT-CP-40205
Inductance bridges/indicators Frequency Inductance	40206	50 Hz ~ 100 MHz 1 kHz 100 μ H 1 mH 10 mH 100 mH 1 H 10 H	6.8×10^{-8} 1.9×10^{-4} 1.3×10^{-4} 1.3×10^{-4} 1.3×10^{-4} 1.3×10^{-4} 1.6×10^{-4}	Standard Inductor/ SICT-CP-40206
Inductors Standard Inductance Decade Inductance	40208	1 kHz 100 μ H 1 mH 10 mH 100 mH 1 H 10 H 1 kHz 100 μ H ~ 10 H	 27 nH 0.24 μ H 2.4 μ H 24 μ H 0.24 mH 2.5 mH 3.5×10^{-3}	Standard Inductor/ SICT-CP-40208
Insulation testers AC Voltage Insulation Voltage Insulation Resistance	40210	1 V (1 ~ 10) V (10 ~ 100) V (100 ~ 1 000) V 1 V (1 ~ 10) V (10 ~ 25) V (25 ~ 50) V (50 ~ 100) V (100 ~ 250) V (250 ~ 500) V (500 ~ 1 000) V (1 000 ~ 5 000) V (5 000 ~ 10 000) V 1 k Ω (1 ~ 100) k Ω 100 k Ω ~ 1 M Ω (1 ~ 10) M Ω (10 ~ 100) M Ω 100 M Ω ~ 1 G Ω (1 ~ 10) G Ω (10 ~ 100) G Ω 100 G Ω ~ 1 T Ω (1 ~ 10) T Ω	8.7×10^{-5} 8.6×10^{-5} 9.5×10^{-5} 1.1×10^{-4} 6.4×10^{-4} 6.4×10^{-5} 2.5×10^{-4} 1.3×10^{-4} 6.4×10^{-5} 2.5×10^{-4} 1.3×10^{-4} 6.4×10^{-5} 6.6×10^{-3} 6.2×10^{-3} 7.1×10^{-5} 2.4×10^{-5} 2.8×10^{-5} 2.6×10^{-5} 1.6×10^{-5} 2.4×10^{-4} 8.0×10^{-4} 9.4×10^{-4} 1.4×10^{-3} 8.0×10^{-4}	High Resistance Decade/ SICT-CP-40210

402. Resistance, Capacitance and Inductance

[illegible]

402. Resistance, Capacitance and Inductance

Measured Quantity Instrument or Gauge	Field Code	Range	Measurement uncertainty (The Confidence Level is about 95 %)	Standard/Method of Measurement etc.
Resistance meters	40214			Standard Resistance Set/ SICT-CP-40214
Frequency		1 kHz	6.8×10^{-8}	
AC Voltage		1 kHz		
		10 mV	4.7×10^{-4}	
		(10 ~ 100) mV	8.8×10^{-5}	
		100 mV ~ 10 V	8.2×10^{-5}	
AC Resistance		1 kHz		
		0.5 mΩ	1.2×10^{-2}	
		(0.5 ~ 1) mΩ	6.0×10^{-3}	
		(1 ~ 10) mΩ	6.0×10^{-4}	
		(10 ~ 100) mΩ	3.2×10^{-4}	
		100 mΩ ~ 1 Ω	1.4×10^{-4}	
		1 Ω ~ 10 kΩ	1.3×10^{-4}	
		(10 ~ 100) kΩ	1.9×10^{-4}	
		100 kΩ ~ 1 MΩ	3.5×10^{-4}	
		(1 ~ 10) MΩ	3.0×10^{-3}	
Resistors	40215			Standard Resistance Set/ SICT-CP-40215
DC Resistance		1 mΩ	1.0×10^{-6}	
		(1 ~ 10) mΩ	7.0×10^{-7}	
		(10 ~ 100) mΩ	3.0×10^{-7}	
		100 mΩ ~ 1 Ω	3.6×10^{-7}	
		(1 ~ 10) Ω	2.1×10^{-7}	
		(10 ~ 100) Ω	2.0×10^{-7}	
		100 Ω ~ 1 kΩ	2.2×10^{-7}	
		(1 ~ 10) kΩ	2.5×10^{-7}	
		(10 ~ 100) kΩ	7.0×10^{-7}	
		100 kΩ ~ 1 MΩ	2.0×10^{-6}	
		(1 ~ 10) MΩ	1.4×10^{-6}	
		(10 ~ 100) MΩ	1.4×10^{-5}	
		100 MΩ ~ 1 GΩ	2.3×10^{-4}	
		(1 ~ 10) GΩ	6.9×10^{-4}	
		(10 ~ 100) GΩ	9.3×10^{-4}	
		100 GΩ ~ 1 TΩ	1.4×10^{-3}	
		(1 ~ 10) TΩ	4.0×10^{-3}	
		(10 ~ 100) TΩ	7.0×10^{-3}	
AC Resistance		50 Hz ~ 1 kHz		
		0.5 mΩ	8.0×10^{-4}	
		(0.5 ~ 1) mΩ	6.1×10^{-4}	
		(1 ~ 10) mΩ	7.0×10^{-4}	
		(10 ~ 100) mΩ	5.5×10^{-4}	
		100 mΩ ~ 1 Ω	4.5×10^{-4}	
		(1 ~ 100) Ω	4.6×10^{-4}	
		10 Ω		
		1 kHz	2.4×10^{-4}	
		1 MHz	4.0×10^{-4}	
		2 MHz	5.6×10^{-4}	
		3 MHz	6.5×10^{-4}	
		4 MHz	7.5×10^{-4}	
		5 MHz	1.0×10^{-3}	
		10 MHz	4.0×10^{-3}	
		13 MHz	6.0×10^{-3}	

402. Resistance, Capacitance and Inductance

Measured Quantity Instrument or Gauge	Field Code	Range	Measurement uncertainty (The Confidence Level is about 95 %)	Standard/Method of Measurement etc.
Resistors	40215			Standard Resistance Set/ SICT-CP-40215
AC Resistance		(10 ~ 100) Ω		
		1 kHz	2.4×10^{-4}	
		1 MHz	4.0×10^{-4}	
		2 MHz	4.8×10^{-4}	
		3 MHz	5.6×10^{-4}	
		4 MHz	5.6×10^{-4}	
		5 MHz	5.6×10^{-4}	
		10 MHz	2.0×10^{-3}	
		13 MHz	3.0×10^{-3}	
		100 Ω ~ 1 k Ω		
		1 kHz	2.4×10^{-4}	
		100 kHz	4.0×10^{-4}	
		1 MHz	4.0×10^{-4}	
		2 MHz	4.0×10^{-4}	
		3 MHz	4.0×10^{-4}	
		4 MHz	4.8×10^{-4}	
		5 MHz	5.6×10^{-4}	
		10 MHz	2.0×10^{-3}	
		13 MHz	3.0×10^{-3}	
		(1 ~ 10) k Ω		
		1 kHz	2.4×10^{-4}	
		100 kHz	3.3×10^{-4}	
		1 MHz	4.0×10^{-4}	
		(10 ~ 100) k Ω		
		1 kHz	2.7×10^{-4}	
		100 kHz	4.0×10^{-4}	
		1 MHz	4.0×10^{-4}	
		(100 k Ω ~ 1 M Ω)		
		1 kHz	4.2×10^{-4}	
		(1 ~ 10) M Ω		
		1 kHz	3.0×10^{-3}	
Decade Resistance		0 Ω	8.2 $\mu\Omega$	
		(1 ~ 10) m Ω	6.5 $\mu\Omega$	
		(10 ~ 100) m Ω	8.9 $\mu\Omega$	
		100 m Ω ~ 1 Ω	20 $\mu\Omega$	
		(1 ~ 10) Ω	2.7×10^{-5}	
		(10 ~ 70) Ω	1.9×10^{-5}	
		(70 ~ 100) Ω	9.7×10^{-6}	
		(100 ~ 600) Ω	1.8×10^{-5}	
		600 Ω ~ 1 k Ω	9.7×10^{-6}	
		(1 ~ 6) k Ω	1.9×10^{-5}	
		(6 ~ 10) k Ω	1.1×10^{-5}	
		(10 ~ 80) k Ω	2.2×10^{-5}	
		(80 ~ 100) k Ω	9.7×10^{-6}	
		100 k Ω ~ 1 M Ω	2.9×10^{-5}	
		(1 ~ 6) M Ω	8.4×10^{-5}	

402. Resistance, Capacitance and Inductance

Measured Quantity Instrument or Gauge	Field Code	Range	Measurement uncertainty (The Confidence Level is about 95 %)	Standard/Method of Measurement etc.
Resistors Decade Resistance	40215	(6 ~ 10) MΩ (10 ~ 100) MΩ 100 MΩ ~ 1 GΩ (1 ~ 10) GΩ (10 ~ 100) GΩ 100 GΩ ~ 1 TΩ (1 ~ 10) TΩ	3.0×10^{-5} 1.8×10^{-4} 2.3×10^{-4} 7.0×10^{-4} 9.3×10^{-4} 1.4×10^{-3} 4.0×10^{-3}	Standard Resistance Set/ SICT-CP-40215
Electrical conductivity meters Electrical conductivity	40216	0.625 MS/m 2.300 MS/m 3.811 MS/m 8.811 MS/m 15.14 MS/m 16.9 MS/m 23.4 MS/m 27.4 MS/m 33.3 MS/m 59.1 MS/m	0.063 MS/m 0.025 MS/m 0.032 MS/m 0.073 MS/m 0.12 MS/m 0.2 MS/m 0.3 MS/m 0.3 MS/m 0.3 MS/m 0.6 MS/m	Conductivity standard/ SICT-CP-40216
Impedance bridges/LCR meters Frequency AC Voltage Capacitance	40217	50 Hz ~ 100 MHz 1 mV (1 ~ 10) mV (10 ~ 100) mV (0.1 ~ 10) V (10 ~ 100) V 1 pF 50 Hz ~ 1 kHz 1 kHz ~ 1 MHz (1 ~ 2) MHz (2 ~ 3) MHz (3 ~ 4) MHz (4 ~ 5) MHz (5 ~ 10) MHz (10 ~ 13) MHz 10 pF 50 Hz ~ 5 MHz (5 ~ 10) MHz (10 ~ 13) MHz 100 pF 50 Hz ~ 3 MHz (3 ~ 4) MHz (4 ~ 5) MHz (5 ~ 10) MHz (10 ~ 13) MHz	6.8×10^{-8} 2.6×10^{-3} 4.7×10^{-4} 8.8×10^{-5} 8.1×10^{-5} 8.9×10^{-5} 3.5×10^{-4} 3.6×10^{-4} 4.2×10^{-4} 5.4×10^{-4} 7.2×10^{-4} 9.4×10^{-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}	Standard Capacitor Set, Standard Resistor Set, Standard Inductor/ SICT-CP-40217

402. Resistance, Capacitance and Inductance

Measured Quantity Instrument or Gauge	Field Code	Range	Measurement uncertainty (The Confidence Level is about 95 %)	Standard/Method of Measurement etc.
Impedance bridges/LCR meters Capacitance	40217	1 000 pF 50 Hz ~ 1 MHz (1 ~ 2) MHz (2 ~ 3) MHz (3 ~ 4) MHz (4 ~ 5) MHz (5 ~ 10) MHz (10 ~ 13) MHz 10 nF (50 ~ 100) Hz 100 Hz ~ 100 kHz 100 nF (50 ~ 100) Hz 100 Hz ~ 100 kHz 1 μ F (50 ~ 100) Hz 100 Hz ~ 10 kHz 10 kHz ~ 100 kHz 3 μ F 120 Hz ~ 1 kHz 10 μ F 120 Hz ~ 1 kHz 30 μ F 120 Hz 100 μ F 120 Hz 300 μ F 120 Hz 1 mF 120 Hz 3 mF 120 Hz 10 mF 120 Hz 30 mF 120 Hz	 3.5×10^{-4} 3.8×10^{-4} 4.5×10^{-4} 5.6×10^{-4} 7.2×10^{-4} 2.0×10^{-3} 2.9×10^{-3} 3.0×10^{-4} 8.1×10^{-5} 3.0×10^{-4} 8.1×10^{-5} 6.0×10^{-4} 9.0×10^{-5} 1.0×10^{-4} 1.3×10^{-3} 1.2×10^{-3} 1.3×10^{-3} 1.4×10^{-3} 1.4×10^{-3} 1.4×10^{-3} 1.4×10^{-3} 1.4×10^{-3} 2.9×10^{-3}	Standard Capacitor Set, Standard Resistor Set, Standard Inductor/ SICT-CP-40217

402. Resistance, Capacitance and Inductance

Measured Quantity Instrument or Gauge	Field Code	Range	Measurement uncertainty (The Confidence Level is about 95 %)	Standard/Method of Measurement etc.
Impedance bridges/LCR meters	40217	1 pF		Standard Capacitor Set, Standard Resistor Set, Standard Inductor/ SICT-CP-40217
Dissipation Factor		1 kHz ~ 1 MHz	0.000 12	
		(1 ~ 5) MHz	0.000 23	
		(5 ~ 13) MHz	0.000 84	
		10 pF		
		1 kHz ~ 13 MHz	0.000 15	
		100 pF		
		1 kHz ~ 5 MHz	0.000 13	
		(5 ~ 13) MHz	0.000 27	
		1 000 pF		
		1 kHz ~ 1 MHz	0.000 12	
		(1 ~ 5) MHz	0.000 24	
		(5 ~ 13) MHz	0.000 86	
		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	6.0×10^{-3}	
		50 Hz ~ 1 kHz	6.0×10^{-3}	
		10 mΩ		
		50 Hz	6.0×10^{-4}	
		50 Hz ~ 1 kHz	6.0×10^{-4}	
		100 mΩ		
		50 Hz	3.3×10^{-4}	
		50 Hz ~ 1 kHz	3.3×10^{-4}	
		1 Ω		
		50 Hz	6.8×10^{-4}	
		50 Hz ~ 1 kHz	1.4×10^{-4}	
		10 Ω		
		50 Hz	9.1×10^{-4}	
		50 Hz ~ 1 kHz	1.3×10^{-4}	
		1 kHz ~ 1 MHz	4.0×10^{-4}	
		(1 ~ 2) MHz	6.0×10^{-4}	
		(2 ~ 3) MHz	7.0×10^{-4}	
		(3 ~ 4) MHz	8.0×10^{-4}	
		(4 ~ 5) MHz	1.0×10^{-3}	
		(5 ~ 10) MHz	4.0×10^{-3}	
		(10 ~ 13) MHz	6.0×10^{-3}	

402. Resistance, Capacitance and Inductance

Measured Quantity Instrument or Gauge	Field Code	Range	Measurement uncertainty (The Confidence Level is about 95 %)	Standard/Method of Measurement etc.
Impedance bridges/LCR meters	40217			Standard Capacitor Set, Standard Resistor Set, Standard Inductor/ SICT-CP-40217
Resistance		100 Ω		
		50 Hz	6.2×10^{-4}	
		50 Hz ~ 1 kHz	1.3×10^{-4}	
		1 kHz ~ 1 MHz	4.0×10^{-4}	
		(1 ~ 2) MHz	5.0×10^{-4}	
		(2 ~ 5) MHz	6.0×10^{-4}	
		(5 ~ 10) MHz	2.0×10^{-3}	
		(10 ~ 13) MHz	3.0×10^{-3}	
		1 kΩ		
		1 kHz	1.3×10^{-4}	
		1 kHz ~ 3 MHz	4.0×10^{-4}	
		(3 ~ 4) MHz	5.0×10^{-4}	
		(4 ~ 5) MHz	6.0×10^{-4}	
		(5 ~ 10) MHz	2.0×10^{-3}	
		(10 ~ 13) MHz	3.0×10^{-3}	
		10 kΩ		
		1 kHz	1.3×10^{-4}	
		(1 ~ 100) kHz	3.0×10^{-4}	
		100 kHz ~ 1 MHz	4.0×10^{-4}	
		100 kΩ		
		1 kHz	1.9×10^{-4}	
		100 kHz ~ 1 MHz	4.0×10^{-4}	
		1 MΩ		
		1 kHz	3.5×10^{-4}	
		10 MΩ		
		1 kHz	3.0×10^{-3}	
Inductance		1 kHz		
		100 μH	1.9×10^{-4}	
		1 mH	1.3×10^{-4}	
		10 mH	1.3×10^{-4}	
		100 mH	1.3×10^{-4}	
		1 H	1.3×10^{-4}	
		10 H	1.6×10^{-4}	
DC Bias		(±)		
		0 μV	0.29 μV	
		0 μV ~ 100 mV	9.2×10^{-6}	
		100 mV ~ 1 V	3.7×10^{-6}	
		(1 ~ 10) V	3.4×10^{-6}	
		(10 ~ 100) V	5.4×10^{-6}	
DC Current		0 μA	1.0 nA	
		0 μA ~ 200 mA	3.0×10^{-5}	
		200 mA ~ 2 A	2.5×10^{-5}	
		(2 ~ 20) A	2.0×10^{-4}	
		(20 ~ 100) A	1.4×10^{-4}	

403. AC voltage, current & power

Measured Quantity Instrument or Gauge	Field Code	Range	Measurement uncertainty (The Confidence Level is about 95 %)	Standard/Method of Measurement etc.
AC ammeters AC Current	40301	(100 μ A) 40 Hz 40 Hz ~ 1 kHz (1 ~ 5) kHz (5 ~ 10) kHz (0.1 ~ 100) mA 40 Hz 40 Hz ~ 1 kHz (1 ~ 5) kHz (5 ~ 10) kHz (0.1 ~ 1) A 40 Hz 40 Hz ~ 1 kHz (1 ~ 5) kHz (5 ~ 10) kHz (1 ~ 20) A 40 Hz (40 ~ 100) Hz (0.1 ~ 5) kHz (20 ~ 100) A 40 Hz (40 ~ 100) Hz (0.1 ~ 5) kHz (100 ~ 200) A 60 Hz	 2.2×10^{-4} 2.2×10^{-4} 4.9×10^{-4} 2.1×10^{-3} 1.8×10^{-4} 1.8×10^{-4} 3.8×10^{-4} 2.1×10^{-3} 3.5×10^{-4} 3.4×10^{-4} 6.7×10^{-4} 8.3×10^{-3} 1.6×10^{-4} 1.6×10^{-4} 6.7×10^{-4} 2.0×10^{-4} 2.0×10^{-4} 5.9×10^{-4} 8.2×10^{-4}	Power Calibrator, Calibrator/ SICT-CP-40301
Clamp ammeters/voltmeters AC Current	40302	100 μ A 40 Hz 40 Hz ~ 1 kHz (1 ~ 5) kHz (5 ~ 10) kHz (0.1 ~ 1) mA 40 Hz 40 Hz ~ 1 kHz (1 ~ 5) kHz (5 ~ 10) kHz (1 ~ 100) mA 40 Hz 40 Hz ~ 1 kHz (1 ~ 5) kHz (5 ~ 10) kHz 100 mA ~ 10 A 40 Hz 40 Hz ~ 1 kHz (1 ~ 5) kHz (5 ~ 10) kHz	 6.5×10^{-4} 6.5×10^{-4} 7.8×10^{-4} 2.1×10^{-3} 6.3×10^{-4} 6.3×10^{-4} 7.2×10^{-4} 2.1×10^{-3} 6.3×10^{-4} 6.3×10^{-4} 7.0×10^{-4} 2.0×10^{-3} 7.0×10^{-4} 7.0×10^{-4} 9.0×10^{-4} 8.3×10^{-3}	Power Calibrator, Calibrator/ SICT-CP-40302

403. AC voltage, current & power

[illegible]

403. AC voltage, current & power

Measured Quantity Instrument or Gauge	Field Code	Range	Measurement uncertainty (The Confidence Level is about 95 %)	Standard/Method of Measurement etc.
Clamp ammeters/voltmeters	40302			Power Calibrator, Calibrator/ SICT-CP-40302
AC Voltage		(0.1 ~ 1) V		
		40 Hz	8.8×10^{-4}	
		40 Hz ~ 10 kHz	8.7×10^{-4}	
		(10 ~ 50) kHz	1.1×10^{-4}	
		(50 ~ 100) kHz	1.5×10^{-4}	
		(1 ~ 10) V		
		40 Hz	9.0×10^{-5}	
		40 Hz ~ 10 kHz	8.6×10^{-5}	
		(10 ~ 50) kHz	1.1×10^{-4}	
		(50 ~ 100) kHz	1.4×10^{-4}	
		(10 ~ 100) V		
		40 Hz	1.0×10^{-4}	
		40 Hz ~ 10 kHz	9.5×10^{-5}	
		(10 ~ 50) kHz	1.3×10^{-4}	
		(50 ~ 100) kHz	2.2×10^{-4}	
		(100 ~ 200) V		
		40 Hz	7.4×10^{-5}	
		40 Hz ~ 10 kHz	7.2×10^{-5}	
		(10 ~ 50) kHz	1.0×10^{-4}	
		(50 ~ 100) kHz	1.9×10^{-4}	
		(200 ~ 300) V		
		40 Hz	1.8×10^{-4}	
		40 Hz ~ 1 kHz	1.8×10^{-4}	
		(1 ~ 10) kHz	2.5×10^{-4}	
		(10 ~ 20) kHz	2.0×10^{-3}	
		(300 ~ 1 000) V		
		40 Hz	1.3×10^{-4}	
		40 Hz ~ 1 kHz	1.3×10^{-4}	
		(1 ~ 10) kHz	2.1×10^{-4}	
(10 ~ 20) kHz		6.3×10^{-4}		
DC VOLTAGE		0 mV	6.1 μV	
		(0 ~ 10) mV	6.1×10^{-4}	
		(10 ~ 100) mV	6.3×10^{-5}	
		(0.1 ~ 1 000) V	6.2×10^{-5}	
Resistance		0 Ω	0.61 mΩ	
		(0 ~ 10) Ω	6.2×10^{-4}	
		10 Ω ~ 1 MΩ	6.3×10^{-5}	
		(1 ~ 10) MΩ	7.7×10^{-5}	
		(10 ~ 100) MΩ	1.3×10^{-4}	
Frequency		10 Hz	6.5×10^{-5}	
	10 Hz ~ 10 MHz	6.5×10^{-5}		

403. AC voltage, current & power

Measured Quantity Instrument or Gauge	Field Code	Range	Measurement uncertainty (The Confidence Level is about 95 %)	Standard/Method of Measurement etc.
AC voltage/current calibrators AC Voltage	40303	1 mV 10 Hz ~ 100 kHz (0.1 ~ 1) MHz (1 ~ 2) mV 10 Hz ~ 100 kHz (0.1 ~ 1) MHz (2 ~ 10) mV 10 Hz ~ 50 kHz (50 ~ 100) kHz (0.1 ~ 1) MHz (10 ~ 20) mV 10 Hz ~ 50 kHz (50 ~ 100) kHz (0.1 ~ 1) MHz (20 ~ 100) mV (10 ~ 20) Hz (0.02 ~ 20) kHz (20 ~ 100) kHz (0.1 ~ 1) MHz (100 ~ 200) mV (10 ~ 20) Hz (0.02 ~ 20) kHz (20 ~ 100) kHz (0.1 ~ 1) MHz (0.2 ~ 1) V (10 ~ 20) Hz (0.02 ~ 20) kHz (20 ~ 100) kHz (0.1 ~ 1) MHz (1 ~ 2) V (10 ~ 20) Hz (0.02 ~ 20) kHz (20 ~ 100) kHz (0.1 ~ 1) MHz (2 ~ 10) V (10 ~ 20) Hz (0.02 ~ 20) kHz (20 ~ 100) kHz (0.1 ~ 1) MHz (10 ~ 20) V (10 ~ 20) Hz (0.02 ~ 20) kHz (20 ~ 100) kHz (0.1 ~ 1) MHz	 1.3×10^{-3} 1.4×10^{-3} 1.0×10^{-3} 1.2×10^{-3} 2.8×10^{-4} 3.0×10^{-4} 4.5×10^{-4} 1.4×10^{-4} 1.8×10^{-4} 3.8×10^{-4} 5.2×10^{-5} 3.5×10^{-5} 5.2×10^{-5} 1.8×10^{-4} 3.7×10^{-5} 2.8×10^{-5} 4.8×10^{-5} 1.8×10^{-4} 3.9×10^{-5} 3.0×10^{-5} 3.1×10^{-5} 4.9×10^{-5} 3.6×10^{-5} 2.6×10^{-5} 2.7×10^{-5} 4.7×10^{-5} 3.8×10^{-5} 2.9×10^{-5} 3.0×10^{-5} 4.9×10^{-5} 3.6×10^{-5} 2.6×10^{-5} 2.7×10^{-5} 4.7×10^{-5}	Alternating Voltage Measurement Standard, Reference Multimeter, Current Shunt/ SICT-CP-40303

403. AC voltage, current & power

Measured Quantity Instrument or Gauge	Field Code	Range	Measurement uncertainty (The Confidence Level is about 95 %)	Standard/Method of Measurement etc.
AC voltage/current calibrators	40303			Alternating Voltage Measurement Standard, Reference Multimeter, Current Shunt/ SICT-CP-40303
AC Voltage		(20 ~ 100) V (10 ~ 20) Hz (0.02 ~ 20) kHz (20 ~ 100) kHz	3.8×10^{-5} 2.9×10^{-5} 3.2×10^{-5}	
		(100 ~ 200) V (10 ~ 20) Hz (0.02 ~ 20) kHz (20 ~ 100) kHz	4.4×10^{-5} 2.7×10^{-5} 2.9×10^{-5}	
		(200 ~ 600) V (10 ~ 40) Hz (0.04 ~ 20) kHz (20 ~ 100) kHz	6.5×10^{-5} 3.0×10^{-5} 4.9×10^{-5}	
		(600 ~ 1 000) V (10 ~ 40) Hz (0.04 ~ 20) kHz (20 ~ 100) kHz	7.7×10^{-5} 2.8×10^{-5} 5.4×10^{-4}	
AC Current		10 μ A 10 Hz 10 Hz ~ 10 kHz	2.6×10^{-3} 2.6×10^{-3}	
		(10 ~ 100) μ A 10 Hz 10 Hz ~ 1 kHz (1 ~ 10) kHz	3.8×10^{-4} 3.7×10^{-4} 6.5×10^{-4}	
		(0.1 ~ 1) mA 10 Hz (10 ~ 40) Hz 40 Hz ~ 1 kHz (1 ~ 10) kHz	9.7×10^{-5} 7.3×10^{-5} 7.0×10^{-5} 9.0×10^{-5}	
		(1 ~ 100) mA 10 Hz (10 ~ 40) Hz 40 Hz ~ 1 kHz (1 ~ 10) kHz	7.4×10^{-5} 3.8×10^{-5} 3.3×10^{-5} 3.4×10^{-5}	
		(0.1 ~ 2) A 10 Hz (10 ~ 40) Hz 40 Hz ~ 1 kHz (1 ~ 10) kHz	7.5×10^{-5} 4.0×10^{-5} 3.4×10^{-5} 3.8×10^{-5}	
		(2 ~ 5) A 10 Hz (10 ~ 40) Hz 40 Hz ~ 1 kHz (1 ~ 10) kHz	7.8×10^{-5} 4.6×10^{-5} 4.2×10^{-5} 4.2×10^{-5}	

403. AC voltage, current & power

Measured Quantity Instrument or Gauge	Field Code	Range	Measurement uncertainty (The Confidence Level is about 95 %)	Standard/Method of Measurement etc.
AC voltage/current calibrators AC Current	40303	(5 ~ 10) A 10 Hz (10 ~ 40) Hz 40 Hz ~ 1 kHz (1 ~ 10) kHz (10 ~ 20) A 10 Hz (10 ~ 40) Hz 40 Hz ~ 1 kHz (1 ~ 10) kHz (20 ~ 50) A 10 Hz (10 ~ 40) Hz 40 Hz ~ 1 kHz (1 ~ 10) kHz (50 ~ 100) A 10 Hz (10 ~ 40) Hz 40 Hz ~ 1 kHz (1 ~ 10) kHz (100 ~ 200) A 60 Hz	 8.1×10^{-5} 5.2×10^{-5} 4.8×10^{-5} 7.3×10^{-5} 9.0×10^{-5} 6.5×10^{-5} 6.0×10^{-5} 7.5×10^{-5} 1.0×10^{-4} 7.6×10^{-5} 7.4×10^{-5} 1.0×10^{-4} 1.1×10^{-4} 9.3×10^{-5} 9.0×10^{-5} 1.3×10^{-4} 2.1×10^{-4}	Alternating Voltage Measurement Standard, Reference Multimeter, Current Shunt/ SICT-CP-40303
Wattmeter calibrators AC Voltage	40304	1 mV 10 Hz ~ 100 kHz (0.1 ~ 1) MHz (1 ~ 2) mV 10 Hz ~ 100 kHz (0.1 ~ 1) MHz (2 ~ 10) mV 10 Hz ~ 50 kHz (50 ~ 100) kHz (0.1 ~ 1) MHz (10 ~ 20) mV 10 Hz ~ 50 kHz (50 ~ 100) kHz (0.1 ~ 1) MHz (20 ~ 100) mV (10 ~ 20) Hz (0.02 ~ 20) kHz (20 ~ 100) kHz (0.1 ~ 1) MHz (100 ~ 200) mV (10 ~ 20) Hz (0.02 ~ 20) kHz (20 ~ 100) kHz (0.1 ~ 1) MHz	 1.3×10^{-3} 1.4×10^{-3} 1.0×10^{-3} 1.2×10^{-3} 2.8×10^{-4} 3.0×10^{-4} 4.5×10^{-4} 1.4×10^{-4} 1.8×10^{-4} 3.8×10^{-4} 5.2×10^{-5} 3.5×10^{-5} 5.2×10^{-5} 1.8×10^{-4} 3.7×10^{-5} 2.8×10^{-5} 4.8×10^{-5} 1.8×10^{-4}	Power Standard, Counter/ SICT-CP-40304

403. AC voltage, current & power

Measured Quantity Instrument or Gauge	Field Code	Range	Measurement uncertainty (The Confidence Level is about 95 %)	Standard/Method of Measurement etc.
Wattmeter calibrators	40304			Power Standard, Counter/ SICT-CP-40304
AC Voltage		(0.2 ~ 1) V		
		(10 ~ 20) Hz	3.9×10^{-5}	
		(0.02 ~ 20) kHz	3.0×10^{-5}	
		(20 ~ 100) kHz	3.1×10^{-5}	
		(0.1 ~ 1) MHz	4.9×10^{-5}	
		(1 ~ 2) V		
		(10 ~ 20) Hz	3.6×10^{-5}	
		(0.02 ~ 20) kHz	2.6×10^{-5}	
		(20 ~ 100) kHz	2.7×10^{-5}	
		(0.1 ~ 1) MHz	4.7×10^{-5}	
		(2 ~ 10) V		
		(10 ~ 20) Hz	3.8×10^{-5}	
		(0.02 ~ 20) kHz	2.9×10^{-5}	
		(20 ~ 100) kHz	3.0×10^{-5}	
		(0.1 ~ 1) MHz	4.9×10^{-5}	
		(10 ~ 20) V		
		(10 ~ 20) Hz	3.6×10^{-5}	
		(0.02 ~ 20) kHz	2.6×10^{-5}	
		(20 ~ 100) kHz	2.7×10^{-5}	
		(0.1 ~ 1) MHz	4.7×10^{-5}	
		(20 ~ 100) V		
		(10 ~ 20) Hz	3.8×10^{-5}	
		(0.02 ~ 20) kHz	2.9×10^{-5}	
		(20 ~ 100) kHz	3.2×10^{-5}	
		(100 ~ 200) V		
		(10 ~ 20) Hz	4.4×10^{-5}	
		(0.02 ~ 20) kHz	2.7×10^{-5}	
		(20 ~ 100) kHz	2.9×10^{-5}	
		(200 ~ 600) V		
		(10 ~ 40) Hz	6.5×10^{-5}	
		(0.04 ~ 20) kHz	3.0×10^{-5}	
		(20 ~ 100) kHz	4.9×10^{-5}	
		(600 ~ 1 000) V		
		(10 ~ 40) Hz	7.7×10^{-5}	
		(0.04 ~ 20) kHz	2.8×10^{-5}	
		(20 ~ 100) kHz	5.4×10^{-4}	
AC Current		10 μA		
		10 Hz	2.6×10^{-3}	
		10 Hz ~ 10 kHz	2.6×10^{-3}	
		(10 ~ 100) μA		
		10 Hz	3.8×10^{-4}	
		10 Hz ~ 1 kHz	3.7×10^{-4}	
		(1 ~ 10) kHz	6.5×10^{-4}	

403. AC voltage, current & power

Measured Quantity Instrument or Gauge	Field Code	Range	Measurement uncertainty (The Confidence Level is about 95 %)	Standard/Method of Measurement etc.
Wattmeter calibrators	40304			Power Standard, Counter/ SICT-CP-40304
AC Current		(0.1 ~ 1) mA		
		10 Hz	9.7×10^{-5}	
		(10 ~ 40) Hz	7.3×10^{-5}	
		40 Hz ~ 1 kHz	7.0×10^{-5}	
		(1 ~ 10) kHz	9.0×10^{-5}	
		(1 ~ 100) mA		
		10 Hz	7.4×10^{-5}	
		(10 ~ 40) Hz	3.8×10^{-5}	
		40 Hz ~ 1 kHz	3.3×10^{-5}	
		(1 ~ 10) kHz	3.4×10^{-5}	
		(0.1 ~ 2) A		
		10 Hz	7.5×10^{-5}	
		(10 ~ 40) Hz	4.0×10^{-5}	
		40 Hz ~ 1 kHz	3.4×10^{-5}	
		(1 ~ 10) kHz	3.8×10^{-5}	
		(2 ~ 5) A		
		10 Hz	7.8×10^{-5}	
		(10 ~ 40) Hz	4.6×10^{-5}	
		40 Hz ~ 1 kHz	4.2×10^{-5}	
		(1 ~ 10) kHz	4.2×10^{-5}	
		(5 ~ 10) A		
		10 Hz	8.1×10^{-5}	
		(10 ~ 40) Hz	5.2×10^{-5}	
		40 Hz ~ 1 kHz	4.8×10^{-5}	
		(1 ~ 10) kHz	7.3×10^{-5}	
		(10 ~ 20) A		
		10 Hz	9.0×10^{-5}	
		(10 ~ 40) Hz	6.5×10^{-5}	
		40 Hz ~ 1 kHz	6.0×10^{-5}	
		(1 ~ 10) kHz	7.5×10^{-5}	
		(20 ~ 50) A		
		10 Hz	1.0×10^{-4}	
		(10 ~ 40) Hz	7.6×10^{-5}	
		40 Hz ~ 1 kHz	7.4×10^{-5}	
		(1 ~ 10) kHz	1.0×10^{-4}	
		(50 ~ 100) A		
		10 Hz	1.1×10^{-4}	
		(10 ~ 40) Hz	9.3×10^{-5}	
		40 Hz ~ 1 kHz	9.0×10^{-5}	
		(1 ~ 10) kHz	1.3×10^{-4}	
		(100 ~ 200) A		
		60 Hz	2.1×10^{-4}	

403. AC voltage, current & power

Measured Quantity Instrument or Gauge	Field Code	Range	Measurement uncertainty (The Confidence Level is about 95 %)	Standard/Method of Measurement etc.
Wattmeter calibrators	40304			Power Standard, Counter/ SICT-CP-40304
Active Power		(50 ~ 60) Hz (Single phase) 0 W (0 ~ 0.2) W (0.2 ~ 0.4) W (0.4 ~ 0.96) W (0.96 ~ 1) W (1 ~ 1.92) W 1.92 W ~ 9.6 kW (9.6 ~ 52.8) kW (50 ~ 60) Hz (Three phase) (120 ~ 480) V, (0.2 ~ 200) A 0° (0 ~ ±60)°	0.10 mW 5.0×10^{-4} 3.1×10^{-4} 4.5×10^{-4} 1.6×10^{-4} 3.0×10^{-4} 1.6×10^{-4} 1.4×10^{-4} 1.9×10^{-4} 1.7×10^{-4}	
Power Factor		(50 ~ 60) Hz -1 ~ 1	0.000 2	
THD-V		(50 ~ 60) Hz 0.5 % (0.5 ~ 3) % (3 ~ 5) % (5 ~ 10) % (10 ~ 20) %	0.021 % 0.021 % 0.026 % 0.030 % 0.048 %	
THD-I		(50 ~ 60) Hz 0.5 % (0.5 ~ 3) % (3 ~ 5) % (5 ~ 10) % (10 ~ 20) %	0.023 % 0.023 % 0.025 % 0.041 % 0.062 %	
Reactive Power		(50 ~ 60) Hz (Single phase) 0 var (0 ~ 0.2) var (0.2 ~ 0.5) var (0.5 ~ 0.96) var (0.96 ~ 1) var (1 ~ 2.4) var 2.4 var ~ 2 kvar (2 ~ 52.8) kvar (50 ~ 60) Hz (Three phase) (120 ~ 480) V, (0.2 ~ 200) A -90° (-90 ~ -30)°	0.10 mvar 4.5×10^{-4} 2.2×10^{-4} 4.1×10^{-4} 1.7×10^{-4} 2.2×10^{-4} 1.7×10^{-4} 1.5×10^{-4} 2.1×10^{-4} 1.7×10^{-4}	
Apparent Power		(50 ~ 60) Hz (Single phase) (24 ~ 96 000) VA (50 ~ 60) Hz (Three phase) (120 ~ 480) V, (0.2 ~ 200) A 0° (0 ~ ±60)°	5.9×10^{-5} 1.9×10^{-4} 2.1×10^{-4}	

403. AC voltage, current & power

Measured Quantity Instrument or Gauge	Field Code	Range	Measurement uncertainty (The Confidence Level is about 95 %)	Standard/Method of Measurement etc.
Wattmeter calibrators	40304			Power Standard, Counter/ SICT-CP-40304
DC Voltage		($\pm$) 0 mV (0 ~ 20) mV (20 ~ 50) mV (50 ~ 100) mV (0.1 ~ 1) V (1 ~ 10) V (10 ~ 100) V (100 ~ 1 000) V	0.29 μ V 0.50 μ V 0.56 μ V 0.68 μ V 3.6×10^{-6} 3.3×10^{-6} 5.2×10^{-6} 5.6×10^{-6}	
DC Current		($\pm$) 0 μ A (0 ~ 10) μ A (10 ~ 100) μ A (0.1 ~ 100) mA (0.1 ~ 1) A (1 ~ 10) A (10 ~ 20) A (20 ~ 50) A (50 ~ 100) A	5.5 nA 5.8 nA 1.5 nA 2.2×10^{-5} 2.3×10^{-5} 2.4×10^{-5} 2.3×10^{-5} 2.6×10^{-5} 2.9×10^{-5}	
DC Power		0 mW (0 ~ 1) mW (1 ~ 10) mW 10 mW ~ 1 W 1 W ~ 1 kW (1 ~ 10) kW (10 ~ 15) kW (15 ~ 30) kW	0.1 μ W 6.2 μ W 30 μ W 3.1×10^{-3} 1.7×10^{-3} 5.4×10^{-3} 4.1×10^{-3} 3.5×10^{-3}	
Frequency		10 Hz 10 Hz ~ 1 MHz	1.0×10^{-6} 1.0×10^{-6}	
Flicker(P_{st})		50 Hz 1 cpm 1 (1 ~ 4 000) cpm 1	 0.003 0.003	
Flicker($P_{inst,max,Sinusoidal}$)		50 Hz 0.5 Hz 1 (0.5 ~ 1.5) Hz 1 (1.5 ~ 8.8) Hz 1 (8.8 ~ 20) Hz 1 (20 ~ 25) Hz 1 (25 ~ 33.33) Hz 1	 0.007 0.006 0.008 0.004 0.006 0.007	

403. AC voltage, current & power

[illegible]

403. AC voltage, current & power

Measured Quantity Instrument or Gauge	Field Code	Range	Measurement uncertainty (The Confidence Level is about 95 %)	Standard/Method of Measurement etc.
Potential transformer test sets	40308			Standard Potential transforme, Ratio transformers/ SICT-CP-40308
Ratio Error		(50 ~ 60) Hz (110 ~ 1 100) V (-19.99 ~ 19.99) %	0.012 %	
		(50 ~ 60) Hz (1 100 ~ 100 000) V (-19.99 ~ 19.99) %	0.015 %	
Phase Angle Error		(50 ~ 60) Hz (110 ~ 100 000) V (-680 ~ 680)'	0.6'	
Ratio		(50 ~ 60) Hz 5 ~ 600	1.6×10^{-4}	
Burden		(50 ~ 60) Hz 1.25 VA (1.25 ~ 2.5) VA (2.5 ~ 3.75) VA (3.75 ~ 5) VA (5 ~ 20) VA (20 ~ 50) VA (50 ~ 100) VA	6.7×10^{-4} 4.6×10^{-4} 3.6×10^{-4} 4.1×10^{-4} 3.2×10^{-4} 6.7×10^{-4} 4.9×10^{-4}	
Power Factor		(50 ~ 60) Hz 0.8 ~ 1	0.000 2	
Potential transformer	40309			Standard Potential transforme/ SICT-CP-40309
Ratio error		(110 ~ 1 100) V (-19.99 ~ 19.99) %	0.024 %	
		(1 100 ~ 100 000) V (-19.99 ~ 19.99) %	0.016 %	
Phase error		(110 ~ 1 100) V (-680 ~ 680)' (1 100 ~ 100 000) V (-680 ~ 680)'	0.70' 0.50'	
Power factor meters	40310			Power Calibrator/ SICT-CP-40310
AC Power Factor		(50 ~ 60) Hz -1 ~ 1	0.000 2	
AC power meters	40311			Power Calibrator, Calibrator/ SICT-CP-40311
AC Voltage		(1 mV)		
		40 Hz	4.8×10^{-3}	
		40 Hz ~ 10 kHz	4.8×10^{-3}	
		(10 ~ 50) kHz	4.9×10^{-3}	
		(50 ~ 100) kHz	6.5×10^{-3}	
		(1 ~ 2) mV		
		40 Hz	2.4×10^{-3}	
		40 Hz ~ 10 kHz	2.4×10^{-3}	
		(10 ~ 50) kHz	2.6×10^{-3}	
		(50 ~ 100) kHz	3.5×10^{-3}	

403. AC voltage, current & power

Measured Quantity Instrument or Gauge	Field Code	Range	Measurement uncertainty (The Confidence Level is about 95 %)	Standard/Method of Measurement etc.
AC power meters	40311	(2 ~ 6) mV		Power Calibrator, Calibrator/ SICT-CP-40311
AC Voltage		40 Hz	1.7×10^{-3}	
		40 Hz ~ 10 kHz	1.7×10^{-3}	
		(10 ~ 50) kHz	1.9×10^{-3}	
		(50 ~ 100) kHz	2.7×10^{-3}	
		(6 ~ 10) mV		
		40 Hz	7.8×10^{-4}	
		40 Hz ~ 10 kHz	7.8×10^{-4}	
		(10 ~ 50) kHz	9.3×10^{-4}	
		(50 ~ 100) kHz	1.5×10^{-3}	
		(10 ~ 40) mV		
		40 Hz	3.6×10^{-4}	
		40 Hz ~ 10 kHz	3.6×10^{-4}	
		(10 ~ 50) kHz	4.7×10^{-4}	
		(50 ~ 100) kHz	1.1×10^{-3}	
		(40 ~ 80) mV		
		40 Hz	2.4×10^{-4}	
		40 Hz ~ 10 kHz	2.4×10^{-4}	
		(10 ~ 50) kHz	3.2×10^{-4}	
		(50 ~ 100) kHz	7.8×10^{-4}	
		(80 ~ 200) mV		
		40 Hz	1.6×10^{-4}	
		40 Hz ~ 10 kHz	1.6×10^{-4}	
		(10 ~ 50) kHz	2.4×10^{-4}	
		(50 ~ 100) kHz	5.9×10^{-4}	
		(200 ~ 600) mV		
		40 Hz	8.6×10^{-5}	
		40 Hz ~ 10 kHz	8.4×10^{-5}	
		(10 ~ 50) kHz	1.3×10^{-4}	
		(50 ~ 100) kHz	2.2×10^{-4}	
		(0.6 ~ 2) V		
		40 Hz	6.7×10^{-5}	
		40 Hz ~ 10 kHz	6.3×10^{-5}	
		(10 ~ 50) kHz	9.8×10^{-5}	
		(50 ~ 100) kHz	1.5×10^{-4}	
		(2 ~ 6) V		
		40 Hz	1.3×10^{-4}	
		40 Hz ~ 10 kHz	9.5×10^{-5}	
		(10 ~ 50) kHz	1.5×10^{-4}	
		(50 ~ 100) kHz	2.2×10^{-4}	
		(6 ~ 20) V		
		40 Hz	7.5×10^{-5}	
		40 Hz ~ 10 kHz	6.4×10^{-5}	
		(10 ~ 50) kHz	1.0×10^{-4}	
		(50 ~ 100) kHz	1.4×10^{-4}	

403. AC voltage, current & power

Measured Quantity Instrument or Gauge	Field Code	Range	Measurement uncertainty (The Confidence Level is about 95 %)	Standard/Method of Measurement etc.
AC power meters	AC Voltage	(20 ~ 60) V		Power Calibrator, Calibrator/ SICT-CP-40311
		40 Hz	1.6×10^{-4}	
		40 Hz ~ 10 kHz	1.2×10^{-4}	
		(10 ~ 50) kHz	1.6×10^{-4}	
		(50 ~ 100) kHz	3.4×10^{-4}	
		(60 ~ 200) V		
		40 Hz	9.0×10^{-5}	
		40 Hz ~ 10 kHz	7.8×10^{-5}	
		(10 ~ 50) kHz	1.2×10^{-4}	
		(50 ~ 100) kHz	2.3×10^{-4}	
		(200 ~ 600) V		
		40 Hz	1.8×10^{-4}	
		40 Hz ~ 1 kHz	1.8×10^{-4}	
		(1 ~ 10) kHz	2.5×10^{-4}	
		(10 ~ 20) kHz	2.0×10^{-4}	
		(600 ~ 1 000) V		
		40 Hz	1.2×10^{-4}	
		40 Hz ~ 1 kHz	1.2×10^{-4}	
		(1 ~ 10) kHz	2.1×10^{-4}	
		(10 ~ 20) kHz	8.7×10^{-4}	
	AC Current	(100 μ A)		
		40 Hz	2.3×10^{-4}	
		40 Hz ~ 1 kHz	2.3×10^{-4}	
		(1 ~ 5) kHz	4.9×10^{-4}	
		(5 ~ 10) kHz	2.1×10^{-3}	
		(100 ~ 200) μ A		
		40 Hz	1.7×10^{-4}	
		40 Hz ~ 1 kHz	1.7×10^{-4}	
		(1 ~ 5) kHz	4.0×10^{-4}	
		(5 ~ 10) kHz	1.7×10^{-3}	
		(200 ~ 600) μ A		
		40 Hz	3.2×10^{-4}	
		40 Hz ~ 1 kHz	3.2×10^{-4}	
		(1 ~ 5) kHz	7.7×10^{-4}	
		(5 ~ 10) kHz	4.0×10^{-3}	
		(0.6 ~ 2) mA		
		40 Hz	2.0×10^{-4}	
		40 Hz ~ 1 kHz	2.0×10^{-4}	
		(1 ~ 5) kHz	4.5×10^{-4}	
		(5 ~ 10) kHz	2.4×10^{-3}	
		(2 ~ 6) mA		
		40 Hz	3.2×10^{-4}	
		40 Hz ~ 1 kHz	3.2×10^{-4}	
		(1 ~ 5) kHz	6.9×10^{-4}	
		(5 ~ 10) kHz	3.8×10^{-3}	

403. AC voltage, current & power

Measured Quantity Instrument or Gauge	Field Code	Range	Measurement uncertainty (The Confidence Level is about 95 %)	Standard/Method of Measurement etc.
AC power meters	40311			Power Calibrator, Calibrator/ SICT-CP-40311
AC Current		(6 ~ 20) mA		
		40 Hz	2.0×10^{-4}	
		40 Hz ~ 1 kHz	2.0×10^{-4}	
		(1 ~ 5) kHz	4.0×10^{-4}	
		(5 ~ 10) kHz	2.3×10^{-3}	
		(20 ~ 60) mA		
		40 Hz	3.0×10^{-4}	
		40 Hz ~ 1 kHz	3.0×10^{-4}	
		(1 ~ 5) kHz	6.5×10^{-4}	
		(5 ~ 10) kHz	2.6×10^{-3}	
		(60 ~ 200) mA		
		40 Hz	1.8×10^{-4}	
		40 Hz ~ 1 kHz	1.8×10^{-4}	
		(1 ~ 5) kHz	3.7×10^{-4}	
		(5 ~ 10) kHz	1.7×10^{-3}	
		(200 ~ 600) mA		
		40 Hz	1.3×10^{-4}	
		(40 ~ 60) Hz	8.7×10^{-5}	
		60 Hz ~ 1 kHz	5.3×10^{-4}	
		(1 ~ 5) kHz	1.2×10^{-3}	
		(5 ~ 10) kHz	9.3×10^{-3}	
		(0.6 ~ 2) A		
		40 Hz	1.4×10^{-4}	
		(40 ~ 60) Hz	8.8×10^{-5}	
		60 Hz ~ 1 kHz	3.7×10^{-4}	
		(1 ~ 5) kHz	7.8×10^{-4}	
		(5 ~ 10) kHz	8.5×10^{-3}	
		(2 ~ 6) A		
		40 Hz	1.4×10^{-4}	
		(40 ~ 60) Hz	9.9×10^{-5}	
		(60 ~ 100) Hz	3.3×10^{-4}	
		100 Hz ~ 5 kHz	8.2×10^{-4}	
		(5 ~ 10) kHz	4.4×10^{-3}	
		(6 ~ 10) A		
		40 Hz	1.5×10^{-4}	
		(40 ~ 60) Hz	1.0×10^{-4}	
		(60 ~ 100) Hz	1.9×10^{-4}	
		100 Hz ~ 5 kHz	6.1×10^{-4}	
		(5 ~ 10) kHz	4.3×10^{-3}	
		(10 ~ 50) A		
		40 Hz	1.7×10^{-4}	
		(40 ~ 60) Hz	1.2×10^{-4}	
		(60 ~ 100) Hz	2.4×10^{-4}	
		100 Hz ~ 5 kHz	6.6×10^{-4}	
		(5 ~ 10) kHz	6.2×10^{-3}	

403. AC voltage, current & power

Measured Quantity Instrument or Gauge	Field Code	Range	Measurement uncertainty (The Confidence Level is about 95 %)	Standard/Method of Measurement etc.
AC power meters	40311	(50 ~ 100) A		Power Calibrator, Calibrator/ SICT-CP-40311
AC Current		40 Hz	1.9×10^{-4}	
		(40 ~ 60) Hz	1.8×10^{-4}	
		(60 ~ 100) Hz	1.9×10^{-4}	
		100 Hz ~ 5 kHz	5.7×10^{-4}	
		(5 ~ 10) kHz	4.9×10^{-2}	
		(100 ~ 1 000) A		
		40 Hz	1.3×10^{-3}	
		(40 ~ 100) Hz	1.3×10^{-3}	
		100 Hz ~ 1 kHz	2.5×10^{-3}	
		(1 000 ~ 2 500) A		
		40 Hz	1.3×10^{-3}	
		(40 ~ 60) Hz	1.3×10^{-3}	
		(2 500 ~ 3 000) A		
		60 Hz	1.4×10^{-3}	
Active Power		(50 ~ 60) Hz (Single phase)		
		0 W	0.10 mW	
		(0 ~ 0.4) W	3.1×10^{-4}	
		(0.4 ~ 1) W	1.6×10^{-4}	
		(1 ~ 1.92) W	3.0×10^{-4}	
		(1.92 ~ 10) W	1.6×10^{-4}	
		(10 ~ 100) W	1.5×10^{-4}	
		100 W ~ 1 kW	1.4×10^{-4}	
		(1 ~ 2) kW	1.6×10^{-4}	
		(2 ~ 4.8) kW	1.4×10^{-4}	
		(4.8 ~ 9.6) kW	1.5×10^{-4}	
		(9.6 ~ 52.8) kW	1.4×10^{-4}	
		(52.8 ~ 600) kW	1.3×10^{-3}	
		(50 ~ 60) Hz (Three phase)		
		(120 ~ 480) V, (0.2 ~ 120) A		
		0°	6.7×10^{-5}	
		(0 ~ ±60)°	1.1×10^{-4}	
DC Voltage		0 mV	0.79 μV	
		(0 ~ 10) mV	0.85 μV	
		(10 ~ 100) mV	1.5 μV	
		(100 ~ 500) mV	1.2×10^{-5}	
		(500 ~ 900) mV	7.4×10^{-6}	
		(0.9 ~ 5) V	9.0×10^{-6}	
		(5 ~ 9) V	4.7×10^{-6}	
		(9 ~ 50) V	7.9×10^{-6}	
		(50 ~ 90) V	6.7×10^{-6}	
		(90 ~ 500) V	9.9×10^{-6}	
		(500 ~ 900) V	8.8×10^{-6}	
		(900 ~ 1 000) V	1.0×10^{-5}	

403. AC voltage, current & power

Measured Quantity Instrument or Gauge	Field Code	Range	Measurement uncertainty (The Confidence Level is about 95 %)	Standard/Method of Measurement etc.
AC power meters	40311			Power Calibrator, Calibrator/ SICT-CP-40311
DC Current		0 μ A (0 ~ 30) μ A (30 ~ 100) μ A (100 ~ 600) μ A (0.6 ~ 2) mA (2 ~ 6) mA (6 ~ 20) mA (20 ~ 60) mA (60 ~ 200) mA (200 ~ 600) mA (0.6 ~ 2) A (2 ~ 6) A (6 ~ 60) A (60 ~ 100) A (100 ~ 2 500) A	9.0 nA 10 nA 13 nA 8.6×10^{-5} 5.6×10^{-5} 7.3×10^{-5} 5.1×10^{-5} 9.1×10^{-5} 6.7×10^{-5} 1.7×10^{-4} 1.2×10^{-4} 4.0×10^{-4} 2.5×10^{-4} 1.6×10^{-4} 1.3×10^{-3}	
DC Power		0 mW (0 ~ 1) mW (1 ~ 10) mW (10 ~ 100) mW (0.1 ~ 100) W 100 W ~ 10 kW (10 ~ 20) kW (20 ~ 1 000) kW (1 000 ~ 2 500) kW	0.06 μ W 0.08 μ W 4.8×10^{-5} 6.2×10^{-5} 1.1×10^{-4} 1.9×10^{-4} 1.5×10^{-4} 1.0×10^{-3} 1.3×10^{-3}	
Power Factor		(50 ~ 60) Hz -1 ~ 1	0.000 2	
Frequency		10 Hz 10 Hz ~ 10 MHz	1.3×10^{-4} 1.3×10^{-4}	
THD-V		(50 ~ 60) Hz 0.5 % (0.5 ~ 20) %	0.015 % 0.015 %	
THD-I		(50 ~ 60) Hz 0.5 % (0.5 ~ 20) %	0.015 % 0.015 %	
Flicker(P_{st})		50 Hz 1 cpm 1 (1 ~ 4 000) cpm 1	0.003 0.003	
Flicker($P_{inst,max,Sinusoidal}$)		50 Hz 0.5 Hz 1 (0.5 ~ 33.333) Hz 1	0.007 0.007	

403. AC voltage, current & power

Measured Quantity Instrument or Gauge	Field Code	Range	Measurement uncertainty (The Confidence Level is about 95 %)	Standard/Method of Measurement etc.
AC power meters	40311			Power Calibrator, Calibrator/ SICT-CP-40311
Flicker($P_{inst,max, Square}$)		50 Hz 0.5 Hz 1 (0.5 ~ 28) Hz 1 (28 ~ 30.5) Hz 1 (30.5 ~ 33.333) Hz 1	0.008 0.008 0.013 0.008	
Flicker($P_{st, Range}$)		50 Hz 1 620 cpm 0.25 0.25 ~ 5	 0.002 0.013	
Reactive Power		(50 ~ 60) Hz (Single phase) 0 var (0 ~ 0.5) var (0.5 ~ 0.96) var (0.96 ~ 1) var (1 ~ 2.4) var 2.4 var ~ 2 kvar (2 ~ 52.8) kvar (50 ~ 60) Hz (Three phase) (120 ~ 480) V, (0.2 ~ 120) A -90° (-90 ~ -30)°	0.10 mvar 2.0×10^{-4} 4.1×10^{-4} 1.7×10^{-4} 1.9×10^{-4} 1.7×10^{-4} 1.6×10^{-4} 2.0×10^{-4} 1.6×10^{-4}	
Apparent Power		(50 ~ 60) Hz (Single phase) 24 VA 24 VA ~ 52.8 kVA (50 ~ 60) Hz (Three phase) (120 ~ 480) V, (0.2 ~ 120) A 0° (0 ~ ±60)°	 5.9×10^{-5} 6.0×10^{-5} 2.0×10^{-4} 2.2×10^{-4}	
Power signal converter		-10 A ~ 10 A	2.5×10^{-4}	
AC power supplies	40312			Voltage Standard, Multimeter, Current Shunt/ SICT-CP-40312
AC Voltage		10 mV 40 Hz 40 Hz ~ 5 kHz (10 mV ~ 1 000 V) 40 Hz 40 Hz ~ 5 kHz	 3.0×10^{-4} 3.0×10^{-4} 1.0×10^{-4} 1.0×10^{-4}	
Frequency		10 Hz (10 ~ 50) Hz 50 Hz ~ 1 kHz (1 ~ 5) kHz	1.0×10^{-4} 2.0×10^{-5} 1.0×10^{-4} 2.0×10^{-5}	

403. AC voltage, current & power

Measured Quantity Instrument or Gauge	Field Code	Range	Measurement uncertainty (The Confidence Level is about 95 %)	Standard/Method of Measurement etc.
AC power supplies	40312	(1 mA)		Voltage Standard, Multimeter, Current Shunt/ SICT-CP-40312
AC Current		50 Hz	7.0×10^{-4}	
		(50 ~ 60) Hz	7.0×10^{-4}	
		(1 ~ 10) mA		
		50 Hz	4.0×10^{-4}	
		(50 ~ 60) Hz	4.0×10^{-4}	
		(10 ~ 100) mA		
		50 Hz	3.0×10^{-4}	
		(50 ~ 60) Hz	3.0×10^{-4}	
		100 mA ~ 1 A		
		50 Hz	5.0×10^{-4}	
		(50 ~ 60) Hz	2.0×10^{-4}	
		(1 ~ 20) A		
		50 Hz	3.0×10^{-4}	
		(50 ~ 60) Hz	2.5×10^{-4}	
		(20 ~ 30) A		
		50 Hz	4.7×10^{-4}	
		(50 ~ 60) Hz	3.5×10^{-4}	
		(30 ~ 50) A		
		50 Hz	2.8×10^{-4}	
		(50 ~ 60) Hz	2.2×10^{-4}	
DC Voltage		(±)		
		0 mV	1 μV	
		(0 ~ 100) mV	1 μV	
		(0.1 ~ 1) V	1.0×10^{-5}	
		(1 ~ 10) V	4.0×10^{-6}	
		(10 ~ 100) V	1.0×10^{-5}	
		(100 ~ 600) V	1.7×10^{-5}	
		(600 ~ 1 000) V	4.0×10^{-5}	
DC Current		1 mA	1.0×10^{-3}	
		(1 ~ 10) mA	2.0×10^{-4}	
		(10 ~ 100) mA	1.2×10^{-4}	
		(0.1 ~ 1) A	2.3×10^{-4}	
		(1 ~ 10) A	5.3×10^{-4}	
		(10 ~ 300) A	2.5×10^{-4}	
		(300 ~ 500) A	4.0×10^{-4}	
		(500 ~ 1 000) A	5.0×10^{-4}	
		(1 000 ~ 3 000) A	5.8×10^{-4}	
Load Regulation		0 mV	0.1 mV	
		(0 ~ 200) mV	0.1 mV	
Ripple		0.1 mV	0.05 mV	
		(0.1 ~ 1) mV	0.05 mV	
		(1 ~ 10) mV	4.0×10^{-2}	
		(10 ~ 50) mV	8.0×10^{-2}	

403. AC voltage, current & power

Measured Quantity Instrument or Gauge	Field Code	Range	Measurement uncertainty (The Confidence Level is about 95 %)	Standard/Method of Measurement etc.
AC power supplies	40312			Voltage Standard, Multimeter, Current Shunt/ SICT-CP-40312
Harmonic Voltage		(50, 60) Hz		
		0.5 %	0.022 %	
		(0.5 ~ 3) %	0.022 %	
		(3 ~ 5) %	0.027 %	
		(5 ~ 10) %	0.031 %	
		(10 ~ 20) %	0.049 %	
Harmonic Current		(50, 60) Hz		
		0.5 %	0.025 %	
		(0.5 ~ 3) %	0.025 %	
		(3 ~ 5) %	0.028 %	
		(5 ~ 10) %	0.043 %	
		(10 ~ 20) %	0.063 %	
Puncture/safety testers	40313			AC/DC Kilovoltmeter, High Voltage Digital Meter, Reference Multimeter/ SICT-CP-40313
DC Voltage		(±)		
		0 kV	0.6 V	
		(0 ~ 1) kV	0.7 V	
		(1 ~ 100) kV	1.4×10^{-3}	
		(100 ~ 200) kV	1.3×10^{-3}	
AC Voltage		(50 ~ 60) Hz		
		0.01 kV	0.6 V	
		(0.01 ~ 1) kV	0.6 V	
		(1 ~ 2) kV	5.5×10^{-4}	
		(2 ~ 100) kV	5.0×10^{-4}	
		(100 ~ 200) kV	2.6×10^{-3}	
AC Breaking Current		(50 ~ 60) Hz		
		0.1 mA	6.0×10^{-4}	
		(0.1 ~ 0.5) mA	4.4×10^{-4}	
		(0.5 ~ 1) mA	8.0×10^{-4}	
		(1 ~ 2) mA	7.5×10^{-4}	
		(2 ~ 5) mA	4.4×10^{-4}	
		(5 ~ 10) mA	3.6×10^{-4}	
		(10 ~ 20) mA	7.5×10^{-4}	
		(20 ~ 50) mA	4.4×10^{-4}	
		(50 ~ 100) mA	8.0×10^{-4}	
DC Breaking Current		0.1 mA	4.0×10^{-4}	
		(0.1 ~ 0.5) mA	1.4×10^{-4}	
		(0.5 ~ 1) mA	7.0×10^{-4}	
		(1 ~ 2) mA	3.5×10^{-4}	
		(2 ~ 5) mA	1.4×10^{-4}	
		(5 ~ 10) mA	7.0×10^{-5}	
		(10 ~ 20) mA	3.5×10^{-4}	
		(20 ~ 50) mA	1.6×10^{-4}	
		(50 ~ 100) mA	7.0×10^{-4}	
Resistance		1 mΩ	9.0×10^{-4}	
		(1 ~ 10) mΩ	8.0×10^{-4}	
		10 mΩ ~ 100 kΩ	7.0×10^{-4}	

403. AC voltage, current & power

Measured Quantity Instrument or Gauge	Field Code	Range	Measurement uncertainty (The Confidence Level is about 95 %)	Standard/Method of Measurement etc.
Puncture/safety testers	40313			AC/DC Kilovoltmeter, High Voltage Digital Meter, Reference Multimeter/ SICT-CP-40313
Insulation Voltage		1 V (1 ~ 10) V (10 ~ 25) V (25 ~ 50) V (50 ~ 100) V (100 ~ 250) V (250 ~ 500) V (500 ~ 1 000) V (1 000 ~ 5 000) V (5 000 ~ 10 000) V	7.0×10^{-4} 7.0×10^{-5} 2.8×10^{-4} 1.4×10^{-4} 7.0×10^{-5} 2.8×10^{-4} 1.4×10^{-4} 7.0×10^{-5} 6.6×10^{-3} 6.2×10^{-3}	
Insulation Resistance		1 k Ω (1 ~ 100) k Ω 100 k Ω ~ 1 M Ω (1 ~ 10) M Ω (10 ~ 100) M Ω 100 M Ω ~ 1 G Ω (1 ~ 10) G Ω (10 ~ 100) G Ω 100 G Ω ~ 1 T Ω (1 ~ 10) T Ω	7.1×10^{-5} 2.4×10^{-5} 2.8×10^{-5} 2.6×10^{-5} 1.6×10^{-5} 2.4×10^{-4} 8.0×10^{-4} 9.4×10^{-4} 1.4×10^{-3} 8.0×10^{-4}	
Leakage current(DC)		0 μ A (0 ~ 5) μ A (5 ~ 10) μ A (10 ~ 20) μ A (20 ~ 50) μ A (50 ~ 100) μ A (100 ~ 500) μ A (0.5 ~ 1) mA (1 ~ 2) mA (2 ~ 5) mA (5 ~ 10) mA (10 ~ 20) mA (20 ~ 50) mA (50 ~ 100) mA	12 nA 12 nA 13 nA 7.0×10^{-4} 3.2×10^{-4} 2.1×10^{-4} 1.4×10^{-4} 7.0×10^{-4} 3.5×10^{-4} 1.6×10^{-4} 7.0×10^{-4} 3.5×10^{-4} 1.8×10^{-4} 7.0×10^{-4}	
Leakage current(AC)		20 μ A 10 Hz (10 ~ 20) Hz 20 Hz ~ 1 kHz (1 ~ 5) kHz (5 ~ 10) kHz (20 ~ 50) μ A 10 Hz (10 ~ 20) Hz 20 Hz ~ 1 kHz (1 ~ 5) kHz (5 ~ 10) kHz	1.3×10^{-3} 8.5×10^{-4} 7.0×10^{-4} 1.1×10^{-3} 5.0×10^{-3} 6.8×10^{-4} 4.4×10^{-4} 3.4×10^{-4} 6.8×10^{-4} 2.8×10^{-3}	

403. AC voltage, current & power

Measured Quantity Instrument or Gauge	Field Code	Range	Measurement uncertainty (The Confidence Level is about 95 %)	Standard/Method of Measurement etc.
Puncture/safety testers	40313			AC/DC Kilovoltmeter, High Voltage Digital Meter, Reference Multimeter/ SICT-CP-40313
Leakage current(AC)		(50 ~ 100) μ A 10 Hz (10 ~ 20) Hz 20 Hz ~ 1 kHz (1 ~ 5) kHz (5 ~ 10) kHz (100 ~ 200) μ A 10 Hz (10 ~ 20) Hz 20 Hz ~ 1 kHz (1 ~ 5) kHz (5 ~ 10) kHz (200 ~ 500) μ A 10 Hz (10 ~ 20) Hz 20 Hz ~ 1 kHz (1 ~ 5) kHz (5 ~ 10) kHz 500 μ A ~ 1 mA 10 Hz 10 Hz ~ 1 kHz (1 ~ 5) kHz (5 ~ 10) kHz (1 ~ 5) mA 10 Hz (10 ~ 20) Hz 20 Hz ~ 1 kHz (1 ~ 5) kHz (5 ~ 10) kHz (5 ~ 10) mA 10 Hz 10 Hz ~ 5 kHz (5 ~ 10) kHz (10 ~ 100) mA 10 Hz (10 ~ 20) Hz 20 Hz ~ 1 kHz (1 ~ 5) kHz (5 ~ 10) kHz	 4.9×10^{-4} 3.2×10^{-4} 2.3×10^{-4} 4.9×10^{-4} 4.0×10^{-4} 3.9×10^{-4} 2.5×10^{-4} 1.7×10^{-4} 4.0×10^{-4} 1.7×10^{-3} 4.4×10^{-4} 3.2×10^{-4} 2.4×10^{-4} 5.4×10^{-4} 2.8×10^{-3} 8.0×10^{-4} 7.0×10^{-4} 8.0×10^{-4} 2.1×10^{-3} 4.5×10^{-4} 4.0×10^{-4} 3.5×10^{-4} 5.0×10^{-4} 2.8×10^{-3} 8.0×10^{-4} 7.0×10^{-4} 2.0×10^{-3} 5.0×10^{-4} 4.0×10^{-4} 3.5×10^{-4} 4.6×10^{-4} 1.9×10^{-3}	
Output AC Current		60 Hz 1 A (1 ~ 3) A (3 ~ 10) A (10 ~ 20) A (20 ~ 30) A (30 ~ 60) A (60 ~ 100) A (100 ~ 150) A (150 ~ 200) A	 1.1×10^{-3} 1.4×10^{-3} 1.0×10^{-3} 9.5×10^{-4} 1.0×10^{-3} 1.4×10^{-3} 1.5×10^{-3} 5.3×10^{-3} 4.5×10^{-3}	

403. AC voltage, current & power

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403. AC voltage, current & power

403. AC voltage, current & power				
Measured Quantity Instrument or Gauge	Field Code	Range	Measurement uncertainty (The Confidence Level is about 95 %)	Standard/Method of Measurement etc.
Current/turn current coil transformers	40316			Current transforme/ SICT-CP-40316
Ratio		(5 ~ 10 000) A (-19.99 ~ 19.99) %	0.024 %	
Phase		(5 ~ 10 000) A (-680 ~ 680)°	0.70°	
Current Coil		(AC)		
		2	0.04 %	
		2 ~ 50	0.10 %	
		(DC)		
		2	0.04 %	
		2 ~ 50	0.10 %	
transducers		(±)		
		10 A		
		50 : 1 ~ 5 000 : 1	1.4 × 10 ⁻⁴	
		(10 ~ 1 000) A		
	50 : 1 ~ 5 000 : 1	2.0 × 10 ⁻⁴		
	(1 000 ~ 2 000) A			
50 : 1 ~ 5 000 : 1	3.6 × 10 ⁻⁴			
AC voltmeters	40318			Reference Multimeter, Calibrator/ SICT-CP-40318
AC Voltage		(600 μV) 1 kHz	4.7 μV	
		(0.6 ~ 1) mV 1 kHz	4.8 μV	
		1 mV 10 Hz	5.0 μV	
		10 Hz ~ 10 kHz	4.8 μV	
		(10 ~ 100) kHz	6.5 μV	
		(1 ~ 3) mV 10 Hz	2.0 × 10 ⁻³	
		10 Hz ~ 10 kHz	1.7 × 10 ⁻³	
		(10 ~ 100) kHz	2.8 × 10 ⁻³	
		(3 ~ 10) mV 10 Hz	7.7 × 10 ⁻⁴	
		10 Hz ~ 10 kHz	5.7 × 10 ⁻⁴	
		(10 ~ 100) kHz	1.2 × 10 ⁻³	
		(10 ~ 30) mV 10 Hz	8.0 × 10 ⁻⁴	
		10 Hz ~ 10 kHz	3.7 × 10 ⁻⁴	
		(10 ~ 100) kHz	1.1 × 10 ⁻³	
		(30 ~ 100) mV 10 Hz	4.3 × 10 ⁻⁴	
		10 Hz ~ 10 kHz	1.7 × 10 ⁻⁴	
		(10 ~ 100) kHz	5.7 × 10 ⁻⁴	

403. AC voltage, current & power

Measured Quantity Instrument or Gauge	Field Code	Range	Measurement uncertainty (The Confidence Level is about 95 %)	Standard/Method of Measurement etc.
AC voltmeters AC Voltage	40318	(100 ~ 300) mV 10 Hz 10 Hz ~ 10 kHz (10 ~ 100) kHz 300 mV ~ 30 V 10 Hz 10 Hz ~ 10 kHz (10 ~ 100) kHz (30 ~ 100) V 10 Hz 10 Hz ~ 10 kHz (10 ~ 100) kHz (100 ~ 1 000) V 50 Hz 50 Hz ~ 1 kHz 1 mV 100 kHz 100 kHz ~ 1 MHz (1 ~ 10) mV 100 kHz 100 kHz ~ 1 MHz (10 ~ 100) mV 100 kHz 100 kHz ~ 1 MHz 100 mV ~ 1 V 100 kHz 100 kHz ~ 1 MHz (1 ~ 10) V 100 kHz 100 kHz ~ 1 MHz (10 ~ 20) V 100 kHz 100 kHz ~ 1 MHz 25 mV 1 MHz (1 ~ 30) MHz (25 ~ 100) mV 1 MHz (1 ~ 30) MHz (100 ~ 300) mV 1 MHz (1 ~ 30) MHz	 5.0×10^{-4} 1.1×10^{-4} 2.6×10^{-4} 5.3×10^{-4} 1.3×10^{-4} 3.7×10^{-4} 3.4×10^{-4} 9.0×10^{-5} 2.2×10^{-4} 3.7×10^{-4} 1.1×10^{-4} 6.5×10^{-3} 2.7×10^{-2} 1.2×10^{-3} 5.6×10^{-3} 5.7×10^{-4} 3.7×10^{-3} 1.5×10^{-4} 2.3×10^{-3} 4.7×10^{-5} 7.0×10^{-4} 7.7×10^{-5} 1.3×10^{-3} 1.9×10^{-2} 2.3×10^{-2} 2.3×10^{-2} 2.8×10^{-2} 3.7×10^{-2} 4.0×10^{-2}	Reference Multimeter, Calibrator/ SICT-CP-40318

403. AC voltage, current & power

Measured Quantity Instrument or Gauge	Field Code	Range	Measurement uncertainty (The Confidence Level is about 95 %)	Standard/Method of Measurement etc.
AC voltmeters	40318	300 mV ~ 1 V 1 MHz (1 ~ 30) MHz (1 ~ 2) V 1 MHz (1 ~ 30) MHz AC Output Voltage 1 mV 10 Hz 10 Hz ~ 10 kHz (10 ~ 100) kHz (1 ~ 10) mV 10 Hz 10 Hz ~ 10 kHz (10 ~ 100) kHz (10 ~ 100) mV 10 Hz 10 Hz ~ 10 kHz (10 ~ 100) kHz DC Output Voltage 100 mV ~ 1 V 10 Hz 10 Hz ~ 10 kHz (10 ~ 100) kHz 1 mV (1 ~ 10) mV (10 ~ 100) mV 100 mV ~ 1 V	 2.4×10^{-2} 2.7×10^{-2} 1.5×10^{-2} 1.8×10^{-2} 1.9×10^{-3} 1.8×10^{-3} 3.1×10^{-3} 2.6×10^{-4} 2.2×10^{-4} 3.7×10^{-4} 9.3×10^{-5} 4.9×10^{-5} 9.1×10^{-5} 7.2×10^{-5} 2.8×10^{-5} 5.9×10^{-5} 8.0×10^{-4} 9.0×10^{-5} 1.0×10^{-5} 1.3×10^{-5}	Reference Multimeter, Calibrator/ SICT-CP-40318
Watt hour meters	40319	Electric-Energy(Active Power) (50 ~ 60) Hz 0 Wh (0 ~ 0.02) Wh (0.02 ~ 0.05) Wh (0.05 ~ 0.096) Wh (0.096 ~ 0.1) Wh (0.1 ~ 0.24) Wh 0.24 Wh ~ 5.28 kWh (5.28 ~ 15.84) kWh (15.84 ~ 26.4) kWh (26.4 ~ 42.24) kWh (42.24 ~ 52.8) kWh Electric-Energy(DC Power) 0 mWh (0 ~ 1) mWh (1 ~ 10) mWh 10 mWh ~ 100 Wh 100 Wh ~ 10 kWh (10 ~ 100) kWh	 0.10 mWh 5.0×10^{-4} 3.0×10^{-4} 4.8×10^{-4} 2.4×10^{-4} 3.0×10^{-4} 2.2×10^{-4} 2.3×10^{-4} 2.8×10^{-4} 4.0×10^{-4} 4.5×10^{-4} $2 \mu\text{Wh}$ $2 \mu\text{Wh}$ $5 \mu\text{Wh}$ 4.5×10^{-4} 5.4×10^{-4} 5.1×10^{-4}	Power Calibrator/ SICT-CP-40319

403. AC voltage, current & power

Measured Quantity Instrument or Gauge	Field Code	Range	Measurement uncertainty (The Confidence Level is about 95 %)	Standard/Method of Measurement etc.
Watt hour meters	40319			Power Calibrator/ SICT-CP-40319
Electric-Energy(Reactive Power)		(50 ~ 60) Hz 0 varh (0 ~ 0.12) varh (0.12 ~ 0.3) varh (0.3 ~ 0.576) varh (0.576 ~ 1.44) varh 1.44 varh ~ 31.68 kvarh (31.68 ~ 52.8) kvarh	0.10 mvarh 5.5×10^{-4} 3.6×10^{-4} 5.2×10^{-4} 3.6×10^{-4} 3.4×10^{-4} 4.5×10^{-4}	
Electric-Energy(Apparent Power)		(50 ~ 60) Hz 24 VAh 24 VAh ~ 52.8 kVAh	4.6×10^{-4} 4.6×10^{-4}	
Error rate in electric-energy meas. (Active Power)		(50 ~ 60) Hz (Single phase) (120 ~ 480) V (0.2 ~ 200) A 0° (-100 ~ 100) % (0 ~ ±60)° (-100 ~ 100) % (60 ~ 480) V (0.05 ~ 120) A ±0.25 (-100 ~ 100) % (60 ~ 480) V (0.05 ~ 120) A ±(0.25 ~ 0.5) (-100 ~ 100) %	0.006 % 0.011 % 0.023 % 0.014 %	
Error rate in electric-energy meas. (Active Power)		(60 ~ 480) V (0.05 ~ 120) A ±(0.5 ~ 0.8) (-100 ~ 100) % (60 ~ 480) V (0.05 ~ 120) A (±0.8 ~ 1) (-100 ~ 100) % (60 ~ 480) V (0.05 ~ 120) A (±0.8 ~ -1) (-100 ~ 100) % (50 ~ 60) Hz (Three phase) (120 ~ 450) V (0.2 ~ 120) A 0° (-100 ~ 100) % (0 ~ ±60)° (-100 ~ 100) %	0.013 % 0.011 % 0.021 % 0.007 % 0.012 %	

403. AC voltage, current & power

[illegible]

403. AC voltage, current & power

Measured Quantity Instrument or Gauge	Field Code	Range	Measurement uncertainty (The Confidence Level is about 95 %)	Standard/Method of Measurement etc.
Ratio transformers Phase	40321	PT (±) (0.040 ~ 1.999)' (1.999 ~ 19.99)' (19.99 ~ 199.9)' (199.9 ~ 600)'	0.060' 0.07' 0.2' 1'	Calibrator/ SICT-CP-40321
		CT (±) (0.040 ~ 1.999)' (1.999 ~ 19.99)' (19.99 ~ 199.9)' (199.9 ~ 600)'	0.060' 0.07' 0.2' 1'	

404. Other DC & LF measurements

Measured Quantity Instrument or Gauge	Field Code	Range	Measurement uncertainty (The Confidence Level is about 95 %)	Standard/Method of Measurement etc.
LF amplifiers	40401	DC 1 mV (1 ~ 10) mV (10 ~ 100) mV 100 mV ~ 1 000 V 0.2 Hz 1 mV (1 ~ 10) mV (10 ~ 100) mV 100 mV ~ 1 V (1 ~ 7) V (0.2 ~ 1) Hz 1 mV (1 ~ 10) mV (10 ~ 100) mV 100 mV ~ 1 V (1 ~ 7) V (1 ~ 10) Hz 1 mV (1 ~ 10) mV (10 ~ 100) mV 100 mV ~ 1 V (1 ~ 1 000) V 10 Hz ~ 10 kHz 1 mV (1 ~ 10) mV (10 ~ 100) mV 100 mV ~ 1 V (1 ~ 1 000) V (10 ~ 100) kHz 1 mV (1 ~ 10) mV (10 ~ 100) mV 100 mV ~ 1 V (1 ~ 1 000) V	2.2 μ V 2.3×10^{-4} 6.2×10^{-5} 6.1×10^{-5} 7.9 μ V 1.7×10^{-3} 4.8×10^{-4} 4.5×10^{-4} 2.9×10^{-4} 7.9 μ V 1.7×10^{-3} 4.8×10^{-4} 4.5×10^{-4} 2.9×10^{-4} 5.0 μ V 5.6×10^{-4} 1.9×10^{-4} 1.2×10^{-4} 9.8×10^{-5} 5.0 μ V 5.3×10^{-4} 1.2×10^{-4} 6.8×10^{-5} 6.9×10^{-5} 6.6 μ V 7.5×10^{-4} 2.5×10^{-4} 9.3×10^{-5} 1.0×10^{-4}	Reference Multimeter/ SICT-CP-40401
Charge type		0.2 Hz 1 mV (1 ~ 10) mV (10 ~ 100) mV 100 mV ~ 1 V (0.2 ~ 1) Hz 1 mV (1 ~ 10) mV (10 ~ 100) mV 100 mV ~ 1 V	13 μ V 3.4×10^{-3} 8.3×10^{-4} 5.5×10^{-4} 13 μ V 3.5×10^{-3} 7.1×10^{-4} 5.2×10^{-4}	

404. Other DC & LF measurements

Measured Quantity Instrument or Gauge	Field Code	Range	Measurement uncertainty (The Confidence Level is about 95 %)	Standard/Method of Measurement etc.
LF amplifiers Charge type	40401	(1 ~ 10) Hz 1 mV (1 ~ 10) mV (10 ~ 100) mV 100 mV ~ 1 V 10 Hz ~ 10 kHz 1 mV (1 ~ 10) mV (10 ~ 100) mV 100 mV ~ 1 V (1 ~ 7) V	11 μ V 3.1×10^{-3} 5.4×10^{-4} 6.2×10^{-4} 5.0 μ V 5.3×10^{-4} 1.2×10^{-4} 6.8×10^{-5} 9.1×10^{-5}	Reference Multimeter/ SICT-CP-40401
DC/LF attenuators Attenuation	40402	10 Hz ~ 100 kHz (0 ~ -20) dB (-20 ~ -60) dB (-60 ~ -70) dB (-70 ~ -80) dB	 0.001 9 dB 0.001 2 dB 0.002 7 dB 0.007 6 dB	Reference Multimeter/ SICT-CP-40402
Multimeter calibrators DC Voltage DC Current AC Voltage	40403	($\pm$) 0 mV (0 ~ 100) mV (0.1 ~ 1) V (1 ~ 10) V (10 ~ 100) V (100 ~ 1 000) V ($\pm$) 0 nA (0 ~ 100) nA 100 nA ~ 10 A (10 ~ 50) A (50 ~ 100) A 1 mV 10 Hz ~ 100 kHz (0.1 ~ 1) MHz (1 ~ 2) mV 10 Hz ~ 100 kHz (0.1 ~ 1) MHz (2 ~ 10) mV 10 Hz ~ 50 kHz (50 ~ 100) kHz (0.1 ~ 1) MHz (10 ~ 20) mV 10 Hz ~ 50 kHz (50 ~ 100) kHz (0.1 ~ 1) MHz	 0.17 μ V 4.2×10^{-6} 1.1×10^{-6} 8.6×10^{-7} 1.9×10^{-6} 2.2×10^{-6} 0.35 pA 6.3×10^{-4} 1.2×10^{-5} 4.0×10^{-5} 4.5×10^{-5} 1.3×10^{-3} 1.4×10^{-3} 1.0×10^{-3} 1.2×10^{-3} 2.8×10^{-4} 3.0×10^{-4} 4.5×10^{-4} 1.4×10^{-4} 1.8×10^{-4} 3.8×10^{-4}	Reference Multimeter/ SICT-CP-40403

404. Other DC & LF measurements

Measured Quantity Instrument or Gauge	Field Code	Range	Measurement uncertainty (The Confidence Level is about 95 %)	Standard/Method of Measurement etc.
Multimeter calibrators	40403			Reference Multimeter/ SICT-CP-40403
AC Voltage		(20 ~ 100) mV		
		(10 ~ 20) Hz	5.2×10^{-5}	
		(0.02 ~ 20) kHz	3.5×10^{-5}	
		(20 ~ 100) kHz	5.2×10^{-5}	
		(0.1 ~ 1) MHz	1.8×10^{-4}	
		(100 ~ 200) mV		
		(10 ~ 20) Hz	3.7×10^{-5}	
		(0.02 ~ 20) kHz	2.8×10^{-5}	
		(20 ~ 100) kHz	4.8×10^{-5}	
		(0.1 ~ 1) MHz	1.8×10^{-4}	
		(0.2 ~ 1) V		
		(10 ~ 20) Hz	3.9×10^{-5}	
		(0.02 ~ 20) kHz	3.0×10^{-5}	
		(20 ~ 100) kHz	3.1×10^{-5}	
		(0.1 ~ 1) MHz	4.9×10^{-5}	
		(1 ~ 2) V		
		(10 ~ 20) Hz	3.6×10^{-5}	
		(0.02 ~ 20) kHz	2.6×10^{-5}	
		(20 ~ 100) kHz	2.7×10^{-5}	
		(0.1 ~ 1) MHz	4.7×10^{-5}	
		(2 ~ 10) V		
		(10 ~ 20) Hz	3.8×10^{-5}	
		(0.02 ~ 20) kHz	2.9×10^{-5}	
		(20 ~ 100) kHz	3.0×10^{-5}	
		(0.1 ~ 1) MHz	4.9×10^{-5}	
		(10 ~ 20) V		
		(10 ~ 20) Hz	3.6×10^{-5}	
		(0.02 ~ 20) kHz	2.6×10^{-5}	
		(20 ~ 100) kHz	2.7×10^{-5}	
		(0.1 ~ 1) MHz	4.7×10^{-5}	
		(20 ~ 100) V		
		(10 ~ 20) Hz	3.8×10^{-5}	
		(0.02 ~ 20) kHz	2.9×10^{-5}	
		(20 ~ 100) kHz	3.2×10^{-5}	
		(100 ~ 200) V		
		(10 ~ 20) Hz	4.4×10^{-5}	
		(0.02 ~ 20) kHz	2.7×10^{-5}	
		(20 ~ 100) kHz	2.9×10^{-5}	
		(200 ~ 600) V		
		(10 ~ 40) Hz	6.5×10^{-5}	
		(0.04 ~ 20) kHz	3.0×10^{-5}	
		(20 ~ 100) kHz	4.9×10^{-5}	
		(600 ~ 1 000) V		
		(10 ~ 40) Hz	7.7×10^{-5}	
		(0.04 ~ 20) kHz	2.8×10^{-5}	
		(20 ~ 100) kHz	5.4×10^{-4}	

404. Other DC & LF measurements

Measured Quantity Instrument or Gauge	Field Code	Range	Measurement uncertainty (The Confidence Level is about 95 %)	Standard/Method of Measurement etc.
Multimeter calibrators AC Current	40403	10 μ A (0.01 ~ 10) kHz (10 ~ 100) μ A (0.01 ~ 1) kHz (1 ~ 10) kHz (0.1 ~ 1) mA 10 Hz (0.01 ~ 1) kHz (1 ~ 10) kHz (1 ~ 100) mA 10 Hz (0.01 ~ 1) kHz (1 ~ 10) kHz (0.1 ~ 1) A 10 Hz (0.01 ~ 1) kHz (1 ~ 10) kHz (1 ~ 2) A 10 Hz (0.01 ~ 1) kHz (1 ~ 10) kHz (2 ~ 5) A 10 Hz (0.01 ~ 1) kHz (1 ~ 10) kHz (5 ~ 10) A 10 Hz (0.01 ~ 1) kHz (1 ~ 10) kHz (10 ~ 20) A 10 Hz (0.01 ~ 1) kHz (1 ~ 10) kHz (20 ~ 50) A 10 Hz (0.01 ~ 1) kHz (1 ~ 10) kHz (50 ~ 100) A 10 Hz (0.01 ~ 1) kHz (1 ~ 5) kHz (100 ~ 200) A 60 Hz	2.6×10^{-3} 3.8×10^{-4} 6.5×10^{-4} 9.8×10^{-5} 7.5×10^{-5} 9.4×10^{-5} 7.8×10^{-5} 4.6×10^{-5} 4.2×10^{-5} 8.1×10^{-5} 4.9×10^{-5} 4.4×10^{-5} 7.9×10^{-5} 4.7×10^{-5} 4.5×10^{-5} 8.2×10^{-5} 5.2×10^{-5} 5.0×10^{-5} 8.6×10^{-5} 5.9×10^{-5} 7.8×10^{-5} 9.3×10^{-5} 6.8×10^{-5} 7.8×10^{-5} 1.0×10^{-4} 8.3×10^{-5} 1.1×10^{-4} 1.1×10^{-4} 9.2×10^{-5} 1.2×10^{-4} 4.5×10^{-4}	Reference Multimeter/ SICT-CP-40403

404. Other DC & LF measurements

Measured Quantity Instrument or Gauge	Field Code	Range	Measurement uncertainty (The Confidence Level is about 95 %)	Standard/Method of Measurement etc.
Multimeter calibrators	40403			Reference Multimeter/ SICT-CP-40403
Resistance		0 Ω (0 ~ 1) Ω (1 ~ 1.9) Ω (1.9 ~ 10) Ω (10 ~ 100) Ω (0.1 ~ 1) kΩ (1 ~ 1.9) kΩ (1.9 ~ 10) kΩ (10 ~ 19) kΩ (19 ~ 100) kΩ (100 ~ 190) kΩ (0.19 ~ 1) MΩ (1 ~ 1.9) MΩ (1.9 ~ 10) MΩ (10 ~ 19) MΩ (19 ~ 100) MΩ	0.26 μΩ 4.3×10^{-6} 6.2×10^{-6} 3.1×10^{-6} 2.0×10^{-6} 2.0×10^{-6} 1.8×10^{-6} 1.5×10^{-6} 1.4×10^{-6} 1.6×10^{-6} 1.6×10^{-6} 2.5×10^{-6} 2.5×10^{-6} 3.9×10^{-6} 3.5×10^{-6} 1.9×10^{-5}	
(Digital sampling)				
AC Voltage		0.1 Hz ~ 3 kHz 1 mV (1 ~ 2) mV (2 ~ 3) mV (3 ~ 5) mV (5 ~ 10) mV (10 ~ 20) mV (20 ~ 30) mV (30 ~ 50) mV (50 ~ 100) mV (100 ~ 200) mV (200 ~ 300) mV (300 ~ 500) mV (0.5 ~ 1) V (1 ~ 2) V (2 ~ 3) V (3 ~ 5) V (5 ~ 10) V (10 ~ 30) V 10 Hz ~ 3 kHz (30 ~ 50) V (50 ~ 100) V (100 ~ 200) V 50 Hz ~ 1 kHz (200 ~ 1 000) V	8.4×10^{-4} 4.2×10^{-4} 2.8×10^{-4} 1.7×10^{-4} 8.8×10^{-5} 4.8×10^{-5} 3.6×10^{-5} 3.0×10^{-5} 2.6×10^{-5} 4.8×10^{-5} 3.6×10^{-5} 2.8×10^{-5} 2.4×10^{-5} 4.8×10^{-5} 3.6×10^{-5} 3.0×10^{-5} 2.6×10^{-5} 3.6×10^{-5} 2.8×10^{-5} 2.4×10^{-5} 4.8×10^{-5} 2.4×10^{-5}	
Oscilloscope calibrators	40404			Calibrator/ SICT-CP-40404
DC Voltage Amplitude		(±) 0 mV (0 ~ 50) mV (50 ~ 100) mV (100 ~ 500) mV 500 mV ~ 1 V (1 ~ 5) V (5 ~ 10) V (10 ~ 50) V (50 ~ 100) V (100 ~ 500) V	0.18 μV 0.50 μV 7.6×10^{-6} 4.9×10^{-6} 6.3×10^{-6} 3.8×10^{-6} 6.3×10^{-6} 4.3×10^{-6} 6.5×10^{-6} 4.1×10^{-6}	

404. Other DC & LF measurements

Measured Quantity Instrument or Gauge	Field Code	Range	Measurement uncertainty (The Confidence Level is about 95 %)	Standard/Method of Measurement etc.
Oscilloscope calibrators	40404			Calibrator/ SICT-CP-40404
AC Voltage Amplitude		(10 Hz ~ 10 kHz) 1 mV (1 ~ 10) mV (10 ~ 100) mV 100 mV ~ 100 V (100 ~ 200) V	0.83 μV 0.84 μV 6.0×10^{-5} 5.9×10^{-5} 4.0×10^{-5}	
Sine Wave Generator		(100 mV) 50 kHz (50 ~ 500) kHz 500 kHz ~ 1 GHz (1 ~ 6) GHz	0.58 mV 5.8×10^{-3} 1.8×10^{-2} 2.0×10^{-2}	
		100 mV ~ 1 V 50 kHz (50 ~ 500) kHz 500 kHz ~ 1 GHz (1 ~ 6) GHz	0.58 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 100 ns ~ 10 ms (10 ~ 100) ms 100 ms ~ 1 s (1 ~ 5) s	5.8×10^{-8} 6.5×10^{-9} 3.1×10^{-9} 5.8×10^{-8} 6.1×10^{-9} 5.8×10^{-8} 1.2×10^{-8}	
Impedance Mesurement		50 Ω (50 ~ 75) Ω 75 Ω ~ 1 MΩ	8.2 mΩ 2.5×10^{-4} 2.1×10^{-4}	
CD/DVD meters/analyzers	40405			Modulation Domain Analyzer/ SICT-CP-40405
Jitter		(1.0 ~ 60.0) ns 1 % 2 % 4 % 8 % 10 % 15 %	1.7×10^{-3} 0.053 % 0.093 % 0.19 % 0.36 % 0.44 % 0.67 %	
Video signal generators	40406			Video Measurement/ SICT-CP-40406
NTSC, PAL Multiburst		(0.1 ~ 1) MHz (1 ~ 2) MHz (2 ~ 6) MHz	6.0×10^{-2} 6.2×10^{-3} 3.1×10^{-3}	
NTSC, PAL, SECAM Pulse and Bar		(0 ~ 300) ns (0 ~ 1 000) mV	4.2×10^{-4} 3.5×10^{-3}	
NTSC, PAL , SECAM Frequency		1 Hz ~ 10 MHz	1.6×10^{-9}	
Video frequency		(10 ~ 100) Hz 100 Hz ~ 500 MHz	6.2×10^{-8} 6.2×10^{-9}	
Video level		(30 ~ 600) mV (600 ~ 1 200) mV	2.6×10^{-3} 2.3×10^{-3}	
TTL Sync level		(1 ~ 5) V	2.7×10^{-3}	

404. Other DC & LF measurements

Measured Quantity Instrument or Gauge	Field Code	Range	Measurement uncertainty (The Confidence Level is about 95 %)	Standard/Method of Measurement etc.
Video signal generators	40406			Video Measurement/ SICT-CP-40406
D-TV Level		(30 ~ 600) mV (600 ~ 1 200) mV	2.6×10^{-3} 2.3×10^{-3}	
NTSC, PAL, H-Timing(Level)		(0 ~ 100) mV (100 ~ 1 000) mV	2.6×10^{-3} 3.4×10^{-3}	
(Time)		(0 ~ 254) ns (254 ~ 300) ns (0.3 ~ 3) μ s (3 ~ 7) μ s (7 ~ 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 ~ 100) mV (100 ~ 1 000) mV	0.06 mV 3.4×10^{-3}	
NTSC, PAL Color Bar(Chrominance Level)		(0 ~ 100) mV (100 ~ 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 ~ 5) MHz	1.2×10^{-3}	
RF Output frequency		10 kHz ~ 10 MHz (10 ~ 100) MHz (100 ~ 1 000) MHz	6.0×10^{-4} 6.0×10^{-5} 6.0×10^{-6}	
RF Output level		(0.1 ~ 10) mV (10 ~ 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	40407			Calibrator/ SICT-CP-40407
Input Frequency		1 Hz ~ 200 kHz	6.1×10^{-7}	
Output Level Flatness Test		10 Hz ~ 100 kHz	0.008 3 dB	
Input DC Voltage		($\pm$) 0 mV (0 ~ 1) mV (1 ~ 10) mV 10 mV ~ 300 V	0.27 μ V 5.8×10^{-3} 5.8×10^{-4} 5.8×10^{-4}	
Input Distortion		100 Hz ~ 10 kHz (-10 ~ -40) dB (-40 ~ -50) dB (-50 ~ -60) dB (-60 ~ -70) dB (-70 ~ -80) dB (10 ~ 50) kHz (-10 ~ -40) dB (-40 ~ -50) dB (-50 ~ -60) dB (-60 ~ -70) dB (-70 ~ -80) dB	0.005 8 dB 0.005 9 dB 0.006 7 dB 0.012 dB 0.028 dB 0.005 9 dB 0.006 2 dB 0.008 3 dB 0.018 dB 0.052 dB	

404. Other DC & LF measurements

Measured Quantity Instrument or Gauge	Field Code	Range	Measurement uncertainty (The Confidence Level is about 95 %)	Standard/Method of Measurement etc.
Audio distortion analyzers/meters	40407	(10 ~ 100) Hz		Calibrator/ SICT-CP-40407
Input AC Voltage		(1 ~ 10) mV	8.8×10^{-4}	
		(10 ~ 100) mV	3.0×10^{-4}	
		100 mV ~ 100 V	3.4×10^{-4}	
		(100 ~ 300) V	4.5×10^{-4}	
		100 Hz ~ 1 kHz		
		(1 ~ 10) mV	8.4×10^{-4}	
		(10 ~ 100) mV	9.8×10^{-5}	
		100 mV ~ 10 V	8.2×10^{-5}	
		(10 ~ 100) V	9.2×10^{-5}	
		(100 ~ 300) V	2.2×10^{-4}	
		(1 ~ 10) kHz		
		(1 ~ 10) mV	8.4×10^{-4}	
		(10 ~ 100) mV	9.8×10^{-5}	
		100 mV ~ 10 V	8.2×10^{-5}	
		(10 ~ 100) V	9.2×10^{-5}	
		(10 ~ 100) kHz		
		(1 ~ 10) mV	1.3×10^{-3}	
		(10 ~ 100) mV	3.8×10^{-4}	
		100 mV ~ 1 V	1.5×10^{-4}	
		(1 ~ 10) V	1.4×10^{-4}	
		(10 ~ 100) V	2.2×10^{-4}	
Input Attenuation		10 Hz		
		(30 ~ -50) dB	0.006 8 dB	
		(-50 ~ -60) dB	0.016 dB	
		(-60 ~ -80) dB	0.052 dB	
		10 Hz ~ 10 kHz		
		(30 ~ -60) dB	0.008 4 dB	
		(-60 ~ -70) dB	0.014 dB	
		(-70 ~ -80) dB	0.042 dB	
		(10 ~ 100) kHz		
		(30 ~ -50) dB	0.009 1 dB	
		(-50 ~ -70) dB	0.023 dB	
		(-70 ~ -80) dB	0.056 dB	
Input Impedance		300 Ω ~ 200 k Ω	3.1×10^{-4}	
Input Filter		10 Hz ~ 100 kHz		
		1 V	8.2×10^{-4}	
(Distortion meter calibrator)				
Distortion		400 Hz		
		(-10 ~ -40) dB	0.10 dB	
		(-40 ~ -60) dB	0.14 dB	
		(-60 ~ -80) dB	0.18 dB	
		1 kHz		
		(-10 ~ -40) dB	0.10 dB	
		(-40 ~ -60) dB	0.14 dB	
		(-60 ~ -80) dB	0.18 dB	

404. Other DC & LF measurements

Measured Quantity Instrument or Gauge	Field Code	Range	Measurement uncertainty (The Confidence Level is about 95 %)	Standard/Method of Measurement etc.
LF filters Filter	40408	10 Hz 10 Hz ~ 50 kHz (50 ~ 100) kHz	3.9×10^{-4} 5.8×10^{-4} 1.2×10^{-3}	Audio Analyzer/ SICT-CP-40408
LF/audio signal analyzers Output Frequency AC Output Level AC Output Level Flatness Output Attenuation Output DC Offset Output Impedance Input Frequency AC Input Level Flatness DC Input Level Input Distortion	40409	1 Hz ~ 200 kHz (10 ~ 100) Hz (1 ~ 10) mV 10 mV ~ 30 V (-40 ~ 20) dBm 100 Hz ~ 10 kHz (1 ~ 10) mV 10 mV ~ 30 V (-40 ~ 20) dBm (10 ~ 100) kHz (1 ~ 10) mV 10 mV ~ 30 V (-40 ~ 20) dBm 10 Hz ~ 100 kHz (0 ~ -60) dB ($\pm$) 0 mV (0 ~ 1) mV (1 ~ 10) mV 10 mV ~ 50 V (5 ~ 600) Ω 1 Hz ~ 200 kHz 10 Hz ~ 100 kHz ($\pm$) 0 mV (0 ~ 1) mV 1 mV ~ 300 V 100 Hz ~ 10 kHz (-10 ~ -40) dB (-40 ~ -50) dB (-50 ~ -60) dB (-60 ~ -70) dB (-70 ~ -80) dB (10 ~ 50) kHz (-10 ~ -40) dB (-40 ~ -50) dB (-50 ~ -60) dB (-60 ~ -70) dB (-70 ~ -80) dB	5.8×10^{-6} 8.7×10^{-4} 9.5×10^{-5} 0.006 0 dB 8.7×10^{-4} 6.6×10^{-5} 0.006 0 dB 8.6×10^{-4} 9.5×10^{-5} 0.006 0 dB 0.007 1 dB 0.005 8 dB 0.7 μ V 7.7×10^{-4} 7.8×10^{-5} 6.1×10^{-5} 1.2×10^{-3} 6.1×10^{-7} 0.008 3 dB 0.27 μ V 5.8×10^{-3} 5.8×10^{-4} 0.005 8 dB 0.005 9 dB 0.006 7 dB 0.012 dB 0.028 dB 0.005 9 dB 0.006 2 dB 0.008 3 dB 0.018 dB 0.052 dB	Calibrator, Reference Multimeter/ SICT-CP-40409

404. Other DC & LF measurements

Measured Quantity Instrument or Gauge	Field Code	Range	Measurement uncertainty (The Confidence Level is about 95 %)	Standard/Method of Measurement etc.
LF/audio signal analyzers AC Input Level	40409	(10 ~ 100) Hz (1 ~ 10) mV (10 ~ 100) mV 100 mV ~ 100 V (100 ~ 300) V (-50 ~ 30) dBm 100 Hz ~ 1 kHz (1 ~ 10) mV (10 ~ 100) mV 100 mV ~ 10 V (10 ~ 100) V (100 ~ 300) V (-50 ~ 30) dBm (1 ~ 10) kHz (1 ~ 10) mV (10 ~ 100) mV 100 mV ~ 10 V (10 ~ 100) V (-50 ~ 30) dBm (10 ~ 100) kHz (1 ~ 10) mV (10 ~ 100) mV 100 mV ~ 1 V (1 ~ 10) V (10 ~ 100) V (-50 ~ 30) dBm	8.8×10^{-4} 3.0×10^{-4} 3.4×10^{-4} 4.5×10^{-4} 0.006 1 dB 8.4×10^{-4} 9.8×10^{-5} 8.2×10^{-5} 9.2×10^{-5} 2.2×10^{-4} 0.005 9 dB 8.4×10^{-4} 9.8×10^{-5} 8.2×10^{-5} 9.2×10^{-5} 0.005 9 dB 1.3×10^{-3} 3.8×10^{-4} 1.5×10^{-4} 1.4×10^{-4} 2.2×10^{-4} 0.006 6 dB	Calibrator, Reference Multimeter/ SICT-CP-40409
Input Attenuation		10 Hz (30 ~ -50) dB (-50 ~ -60) dB (-60 ~ -80) dB 10 Hz ~ 10 kHz (30 ~ -60) dB (-60 ~ -70) dB (-70 ~ -80) dB (10 ~ 100) kHz (30 ~ -50) dB (-50 ~ -70) dB (-70 ~ -80) dB	0.006 8 dB 0.016 dB 0.052 dB 0.008 4 dB 0.014 dB 0.042 dB 0.009 1 dB 0.023 dB 0.056 dB	
Input Impedance		300 Ω ~ 200 k Ω	3.1×10^{-4}	
Input Filter		10 Hz ~ 100 kHz 1 V	8.2×10^{-4}	
Line frequency meters Frequency	40410	10 Hz ~ 1 kHz	1.3×10^{-4}	Calibrator/ SICT-CP-40410

404. Other DC & LF measurements

Measured Quantity Instrument or Gauge	Field Code	Range	Measurement uncertainty (The Confidence Level is about 95 %)	Standard/Method of Measurement etc.
Function generators	40411			Audio Analyzer, Digital Multimeter/ SICT-CP-40411
Frequency		(0.01 ~ 0.1) Hz (0.1 ~ 1) Hz 1 Hz ~ 1 GHz (1 ~ 4) GHz	5.8×10^{-6} 5.8×10^{-7} 5.8×10^{-9} 1.4×10^{-8}	
Output Level		(10 ~ 100) Hz 1 mV (1 ~ 10) mV 10 mV ~ 100 V 100 Hz ~ 10 kHz 1 mV (1 ~ 10) mV 10 mV ~ 100 V (10 ~ 100) kHz 1 mV (1 ~ 10) mV 10 mV ~ 100 V	 8.7×10^{-4} 1.3×10^{-4} 7.6×10^{-5} 8.7×10^{-4} 1.1×10^{-4} 3.3×10^{-5} 8.6×10^{-4} 1.1×10^{-4} 8.0×10^{-5}	
DC Offset		($\pm$) 0 mV (0 ~ 1) mV (1 ~ 10) mV 10 mV ~ 20 V	 0.65 μ V 0.77 μ V 7.8×10^{-5} 5.8×10^{-5}	
Level Flatness		100 mV (10 ~ 100) Hz 100 Hz ~ 10 kHz (10 ~ 100) kHz 100 mV ~ 1 V (10 ~ 100) Hz 100 Hz ~ 10 kHz (10 ~ 100) kHz (1 ~ 10) V (10 ~ 100) Hz 100 Hz ~ 10 kHz (10 ~ 100) kHz (10 ~ 30) V (10 ~ 100) Hz 100 Hz ~ 10 kHz (10 ~ 100) kHz	 0.10 dB 0.084 dB 0.10 dB 0.001 0 dB 0.000 82 dB 0.000 93 dB 0.010 dB 0.008 2 dB 0.009 4 dB 0.022 dB 0.013 dB 0.024 dB	
Attenuation		10 Hz ~ 100 kHz (0 ~ 80) dB	 0.006 1 dB	
Distortion		20 Hz ~ 1 kHz (0.010 ~ 3.16) % (1 ~ 100) kHz (0.010 ~ 3.16) %	 1.5×10^{-1} 3.0×10^{-1}	

404. Other DC & LF measurements

Measured Quantity Instrument or Gauge	Field Code	Range	Measurement uncertainty (The Confidence Level is about 95 %)	Standard/Method of Measurement etc.
Function generators	40411			Audio Analyzer, Digital Multimeter/ SICT-CP-40411
Rise Fall Time		(0.1 ~ 1) ns (1 ~ 10) ns (10 ~ 100) ns (0.1 ~ 100) μ s	4.6×10^{-2} 4.7×10^{-3} 7.7×10^{-4} 6.2×10^{-4}	
Duty cycle		(1 ~ 99) %	0.006 1 %	
High Frequency Flatness Test		100 kHz ~ 80 MHz (0 ~ 20) dBm	0.11 dB	
FM Modulation		(0.1 ~ 400) kHz	1.2×10^{-2}	
AM Modulation		(0.1 ~ 100) %	1.2×10^{-2}	
Genescopes	40412			Signal Generator/ SICT-CP-40412
Marker Frequency		(9 ~ 10) kHz 10 kHz ~ 10 MHz (10 ~ 100) MHz (100 ~ 200) MHz	7.2×10^{-7} 2.7×10^{-6} 6.4×10^{-7} 3.2×10^{-7}	
RF Level		9 kHz ~ 200 MHz (50 ~ 100) dB μ V	0.31 dB	
AC/DC high voltages voltmeters	40413			Calibrator/ SICT-CP-40413
DC Voltage		($\pm$) 0 kV (0 ~ 0.5) kV (0.5 ~ 1) kV (1 ~ 100) kV	0.61 V 1.3×10^{-3} 6.1×10^{-4} 1.5×10^{-3}	
AC Voltage		50 Hz 0.01 kV (0.01 ~ 0.5) kV (0.5 ~ 1) kV (1 ~ 100) kV	0.61 V 1.2×10^{-3} 6.4×10^{-4} 3.0×10^{-3}	
		60 Hz 0.01 kV (0.01 ~ 0.5) kV (0.5 ~ 1) kV (1 ~ 100) kV	0.61 V 1.2×10^{-3} 6.2×10^{-4} 2.9×10^{-3}	
Jitter meters	40415			Modulation Domain Analyzer/ SICT-CP-40415
CD/DVD Jitter		(1 ~ 20) ns (20 ~ 60) ns	1.7×10^{-3} 1.6×10^{-3}	
VTR Jitter		0.05 μ s (0.05 ~ 0.1) μ s (0.1 ~ 0.2) μ s (0.2 ~ 0.5) μ s (0.5 ~ 0.7) μ s	0.66 ns 0.77 ns 1.2 ns 2.8 ns 4.3 ns	
		1 % 2 % 4 % 8 % 10 % 15 %	0.053 % 0.093 % 0.19 % 0.36 % 0.44 % 0.67 %	

404. Other DC & LF measurements

Measured Quantity Instrument or Gauge	Field Code	Range	Measurement uncertainty (The Confidence Level is about 95 %)	Standard/Method of Measurement etc.
Leakage current testers	40416			Calibrator/ SICT-CP-40416
DC Current		0 μA (0 ~ 1) μA (1 ~ 2) μA (2 ~ 5) μA (5 ~ 10) μA (10 ~ 20) μA (20 ~ 50) μA (50 ~ 100) μA (100 ~ 500) μA (0.5 ~ 100) mA	7.0 nA 7.0×10^{-3} 3.6×10^{-3} 1.4×10^{-3} 7.4×10^{-4} 4.0×10^{-4} 1.8×10^{-4} 1.3×10^{-4} 8.5×10^{-5} 6.1×10^{-4}	
AC Current		20 μA 10 Hz (10 ~ 20) Hz (0.02 ~ 1) kHz (1 ~ 5) kHz (5 ~ 10) kHz (20 ~ 50) μA 10 Hz (10 ~ 20) Hz (0.02 ~ 1) kHz (1 ~ 5) kHz (5 ~ 10) kHz (50 ~ 100) μA 10 Hz (10 ~ 20) Hz (0.02 ~ 1) kHz (1 ~ 5) kHz (5 ~ 10) kHz (100 ~ 200) μA 10 Hz (10 ~ 20) Hz (0.02 ~ 1) kHz (1 ~ 5) kHz (5 ~ 10) kHz (200 ~ 500) μA 10 Hz (10 ~ 20) Hz (0.02 ~ 1) kHz (1 ~ 5) kHz (5 ~ 10) kHz (0.5 ~ 1) mA 10 Hz (10 ~ 20) Hz (0.02 ~ 1) kHz (1 ~ 5) kHz (5 ~ 10) kHz	1.3×10^{-3} 8.5×10^{-4} 7.0×10^{-4} 1.3×10^{-3} 5.5×10^{-3} 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} 4.0×10^{-4} 3.9×10^{-4} 2.5×10^{-4} 1.7×10^{-4} 4.0×10^{-4} 1.7×10^{-3} 4.4×10^{-4} 3.2×10^{-4} 2.4×10^{-4} 5.4×10^{-4} 2.8×10^{-3} 7.0×10^{-4} 6.6×10^{-4} 6.3×10^{-4} 7.2×10^{-4} 2.1×10^{-3}	

404. Other DC & LF measurements

Measured Quantity Instrument or Gauge	Field Code	Range	Measurement uncertainty (The Confidence Level is about 95 %)	Standard/Method of Measurement etc.
Leakage current testers	40416	(1 ~ 100) mA		Calibrator/ SICT-CP-40416
AC Current		10 Hz	7.0×10^{-4}	
		(10 ~ 20) Hz	6.6×10^{-4}	
		(0.02 ~ 1) kHz	6.3×10^{-4}	
		(1 ~ 5) kHz	7.0×10^{-4}	
		(5 ~ 10) kHz	2.7×10^{-3}	
DC Voltage		0 V	0.06 mV	
		(0 ~ 0.1) V	6.0×10^{-4}	
		(0.1 ~ 10) V	3.1×10^{-4}	
		(10 ~ 100) V	3.1×10^{-5}	
		(100 ~ 1 000) V	1.2×10^{-4}	
AC Voltage		0.1 V		
		10 Hz	0.074 mV	
		10 Hz ~ 50 kHz	6.5×10^{-4}	
		(50 ~ 100) kHz	8.3×10^{-4}	
		(100 ~ 300) kHz	1.2×10^{-3}	
		(300 ~ 500) kHz	2.0×10^{-3}	
		500 kHz ~ 1 MHz	3.6×10^{-3}	
		(0.1 ~ 1) V		
		10 Hz	3.3×10^{-4}	
		10 Hz ~ 50 kHz	1.4×10^{-4}	
		(50 ~ 100) kHz	1.5×10^{-4}	
		(100 ~ 300) kHz	4.9×10^{-4}	
		(300 ~ 500) kHz	1.4×10^{-3}	
		500 kHz ~ 1 MHz	2.4×10^{-3}	
		(1 ~ 10) V		
		10 Hz	3.3×10^{-4}	
		10 Hz ~ 50 kHz	1.4×10^{-4}	
		(50 ~ 100) kHz	1.4×10^{-4}	
		(100 ~ 300) kHz	3.9×10^{-4}	
		(300 ~ 500) kHz	1.4×10^{-3}	
		500 kHz ~ 1 MHz	2.2×10^{-3}	
		(10 ~ 100) V		
		10 Hz	3.4×10^{-4}	
		10 Hz ~ 50 kHz	1.4×10^{-4}	
		(50 ~ 100) kHz	2.2×10^{-4}	
		(100 ~ 1 000) V		
		50 Hz ~ 1 kHz	1.1×10^{-4}	
Resistance		100 mΩ ~ 10 kΩ	6.3×10^{-5}	
Input Voltage to Output Current Display(U1)		(4.75 ~ 21) mA		
		20 Hz	3.6×10^{-4}	
		(20 ~ 500) Hz	1.8×10^{-4}	
		500 Hz ~ 1 kHz	6.3×10^{-4}	
		(1 ~ 100) kHz	4.4×10^{-4}	
		(100 ~ 200) kHz	4.9×10^{-4}	
		(200 ~ 500) kHz	1.4×10^{-3}	
		500 kHz ~ 1 MHz	2.2×10^{-3}	

404. Other DC & LF measurements

Measured Quantity Instrument or Gauge	Field Code	Range	Measurement uncertainty (The Confidence Level is about 95 %)	Standard/Method of Measurement etc.
Leakage current testers	40416			Calibrator/ SICT-CP-40416
Input Voltage to Output Current Display(U2)		(0.013 71 ~ 6.14) mA		
		20 Hz	3.5×10^{-4}	
		(20 ~ 500) Hz	1.8×10^{-4}	
		500 Hz ~ 1 kHz	1.2×10^{-4}	
		(1 ~ 100) kHz	8.9×10^{-4}	
		(100 ~ 200) kHz	3.9×10^{-4}	
		(200 ~ 500) kHz	1.4×10^{-3}	
		500 kHz ~ 1 MHz	2.2×10^{-3}	
Input Voltage to Output Current Display(U3)		(0.033 14 ~ 7.89) mA		
		20 Hz	3.5×10^{-4}	
		(20 ~ 500) Hz	1.8×10^{-4}	
		500 Hz ~ 1 kHz	1.1×10^{-4}	
		(1 ~ 100) kHz	9.2×10^{-4}	
		(100 ~ 200) kHz	3.8×10^{-4}	
		(200 ~ 500) kHz	1.4×10^{-3}	
		500 kHz ~ 1 MHz	2.2×10^{-3}	
Input Voltage to Output Voltage Ratio(U1)		(1 ~ 4)		
		20 Hz ~ 100 kHz	1.3×10^{-4}	
		(100 ~ 200) kHz	4.2×10^{-4}	
		(200 ~ 500) kHz	1.5×10^{-3}	
		500 kHz ~ 1 MHz	2.6×10^{-3}	
Input Voltage to Output Voltage Ratio(U2)		(3.43 ~ 1 382)		
		20 Hz ~ 100 kHz	1.4×10^{-4}	
		(100 ~ 200) kHz	4.7×10^{-4}	
		(200 ~ 500) kHz	1.8×10^{-3}	
		500 kHz ~ 1 MHz	3.8×10^{-3}	
Input Voltage to Output Voltage Ratio(U3)		(2.65 ~ 572)		
		20 Hz ~ 100 kHz	1.3×10^{-4}	
		(100 ~ 200) kHz	4.3×10^{-4}	
		(200 ~ 500) kHz	1.5×10^{-3}	
		500 kHz ~ 1 MHz	3.2×10^{-3}	
Impedance		(497.8 ~ 2 000.1) Ω		
		20 Hz ~ 100 kHz	1.3×10^{-4}	
		(100 ~ 200) kHz	4.2×10^{-4}	
		(200 ~ 500) kHz	1.5×10^{-3}	
		500 kHz ~ 1 MHz	2.6×10^{-3}	
		(1.715 ~ 1 382) k Ω		
		20 Hz ~ 100 kHz	1.4×10^{-4}	
		(100 ~ 200) kHz	4.7×10^{-4}	
		(200 ~ 500) kHz	1.8×10^{-3}	
		500 kHz ~ 1 MHz	1.9×10^{-3}	
		(1.325 ~ 286) k Ω		
		20 Hz ~ 100 kHz	1.3×10^{-4}	
		(100 ~ 200) kHz	3.5×10^{-4}	
		(200 ~ 500) kHz	1.5×10^{-3}	
		500 kHz ~ 1 MHz	3.1×10^{-3}	
mAs Meter		1 mAs	1.2×10^{-3}	
		(1 ~ 2 000) mAs	1.0×10^{-3}	
		(2 000 ~ 9 999) mAs	1.1×10^{-3}	

404. Other DC & LF measurements

Measured Quantity Instrument or Gauge	Field Code	Range	Measurement uncertainty (The Confidence Level is about 95 %)	Standard/Method of Measurement etc.
Electronic AC/DC loads	40417			Calibrator/ SICT-CP-40417
DC Voltage		0 mV	0.058 mV	
		(0 ~ 5) mV	5.8×10^{-2}	
		(5 ~ 20) mV	5.8×10^{-3}	
		(20 ~ 100) mV	1.2×10^{-3}	
		(0.1 ~ 1) V	6.2×10^{-5}	
		(1 ~ 2) V	3.3×10^{-5}	
		(2 ~ 4) V	2.1×10^{-5}	
		(4 ~ 7) V	1.4×10^{-5}	
		(7 ~ 9) V	9.9×10^{-6}	
		(9 ~ 10) V	7.9×10^{-6}	
		(10 ~ 50) V	3.1×10^{-5}	
		(50 ~ 100) V	9.7×10^{-6}	
		(100 ~ 200) V	3.3×10^{-5}	
		(200 ~ 400) V	2.5×10^{-5}	
		(400 ~ 1 000) V	1.6×10^{-5}	
		0 mA	0.058 μ A	
		(0 ~ 2) mA	5.8×10^{-5}	
		(2 ~ 5) mA	1.9×10^{-5}	
		(5 ~ 20) mA	5.8×10^{-5}	
		(20 ~ 50) mA	1.9×10^{-5}	
		(50 ~ 100) mA	5.8×10^{-5}	
		(0.1 ~ 0.2) A	2.9×10^{-4}	
		(0.2 ~ 0.4) A	1.9×10^{-4}	
		(0.4 ~ 0.6) A	1.2×10^{-4}	
		(0.6 ~ 0.8) A	8.3×10^{-5}	
		(0.8 ~ 1) A	6.5×10^{-5}	
		(1 ~ 3) A	4.4×10^{-5}	
		(3 ~ 6) A	2.3×10^{-5}	
		(6 ~ 10) A	1.4×10^{-5}	
		(10 ~ 40) A	3.9×10^{-5}	
		(40 ~ 100) A	3.1×10^{-5}	
		(100 ~ 1 000) A	1.3×10^{-4}	
		(1 000 ~ 3 000) A	4.8×10^{-4}	
Charge voltage		0 mV	0.058 mV	
		(0 ~ 5) mV	5.8×10^{-2}	
		(5 ~ 20) mV	5.8×10^{-3}	
		(20 ~ 100) mV	1.2×10^{-3}	
		(0.1 ~ 1) V	6.2×10^{-5}	
		(1 ~ 2) V	3.3×10^{-5}	
		(2 ~ 4) V	2.1×10^{-5}	
		(4 ~ 7) V	1.4×10^{-5}	
		(7 ~ 9) V	9.9×10^{-6}	
		(9 ~ 10) V	7.9×10^{-6}	
		(10 ~ 50) V	3.1×10^{-5}	
		(50 ~ 100) V	9.7×10^{-6}	
		(100 ~ 200) V	3.3×10^{-5}	
		(200 ~ 400) V	2.5×10^{-5}	
		(400 ~ 1 000) V	1.6×10^{-5}	
		(1 000 ~ 1 200) V	1.0×10^{-3}	
		(1 200 ~ 1 400) V	9.1×10^{-4}	
		(1 400 ~ 1 500) V	8.4×10^{-4}	

404. Other DC & LF measurements

Measured Quantity Instrument or Gauge	Field Code	Range	Measurement uncertainty (The Confidence Level is about 95 %)	Standard/Method of Measurement etc.
Electronic AC/DC loads Charge and Discharge Current	40417	(±) 0 mA (0 ~ 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 ~ 10) A (10 ~ 40) A (40 ~ 100) A (100 ~ 1 000) A (1 000 ~ 3 000) A	0.058 µA 5.8×10^{-5} 1.9×10^{-5} 5.8×10^{-5} 1.9×10^{-5} 5.8×10^{-5} 2.9×10^{-4} 1.9×10^{-4} 1.2×10^{-4} 8.3×10^{-5} 6.5×10^{-5} 4.4×10^{-5} 2.3×10^{-5} 1.4×10^{-5} 3.9×10^{-5} 3.1×10^{-5} 1.3×10^{-4} 4.8×10^{-4}	Calibrator/ SICT-CP-40417
Resistance		0.1 Ω (0.1 ~ 1) Ω (1 ~ 2) Ω (2 ~ 4) Ω (4 ~ 500) Ω (0.5 ~ 2) kΩ (2 ~ 10) kΩ	0.58 mΩ 2.1×10^{-3} 4.0×10^{-3} 2.3×10^{-3} 1.6×10^{-3} 9.0×10^{-4} 2.1×10^{-4}	
AC Voltage		0.001 V (40 ~ 400) Hz (0.001 ~ 0.1) V (40 ~ 400) Hz (0.1 ~ 0.2) V (40 ~ 400) Hz (0.2 ~ 0.5) V (40 ~ 400) Hz (0.5 ~ 2) V (40 ~ 400) Hz (2 ~ 3) V (40 ~ 400) Hz (3 ~ 7) V (40 ~ 400) Hz (7 ~ 20) V (40 ~ 50) Hz (50 ~ 400) Hz	0.61 mV 6.1×10^{-3} 3.1×10^{-3} 1.2×10^{-3} 6.2×10^{-4} 2.8×10^{-4} 2.3×10^{-4} 1.5×10^{-4} 9.8×10^{-5}	

404. Other DC & LF measurements

Measured Quantity Instrument or Gauge	Field Code	Range	Measurement uncertainty (The Confidence Level is about 95 %)	Standard/Method of Measurement etc.
Electronic AC/DC loads	40417	AC Voltage	(20 ~ 80) V (40 ~ 50) Hz (50 ~ 400) Hz (80 ~ 200) V (40 ~ 400) Hz (200 ~ 500) V (50 ~ 400) Hz	Calibrator/ SICT-CP-40417
			2.1×10^{-4} 1.2×10^{-4}	
			1.3×10^{-4}	
			1.8×10^{-4}	
AC Current		1 mA (40 ~ 400) Hz	0.58 mA	
		(1 ~ 100) mA (40 ~ 400) Hz	5.8×10^{-2}	
		(100 mA ~ 0.2 A) (40 ~ 400) Hz	3.0×10^{-3}	
		(0.2 ~ 0.6) A (40 ~ 400) Hz	2.0×10^{-3}	
		(0.6 ~ 2) A (40 ~ 400) Hz	9.4×10^{-4}	
		(2 ~ 5) A (40 ~ 400) Hz	1.2×10^{-3}	
		(5 ~ 20) A (40 ~ 400) Hz	1.0×10^{-3}	
AC Resistance		1 Ω (40 ~ 400) Hz	1.0 m Ω	
		(1 ~ 50) Ω (40 ~ 400) Hz	1.5×10^{-3}	
		(50 ~ 100) Ω (40 ~ 400) Hz	1.1×10^{-3}	
		(100 Ω ~ 10 k Ω) (40 ~ 400) Hz	1.7×10^{-3}	
Modulation meters	40418	Frequency Modulation	0.1 Hz ~ 400 kHz	Measuring Receiver/ SICT-CP-40418
Amplitude Modulation		(0.1 ~ 100) %	1.2×10^{-2}	
Phase Modulation		(0.1 ~ 400) rad	1.2×10^{-2}	

404. Other DC & LF measurements

Measured Quantity Instrument or Gauge	Field Code	Range	Measurement uncertainty (The Confidence Level is about 95 %)	Standard/Method of Measurement etc.
Analogue/digital multimeters	40419	(±)		Calibrator/ SICT-CP-40419
DC Voltage		0 mV	0.43 μ V	
		(0 ~ 1) mV	4.6×10^{-4}	
		(1 ~ 2) mV	2.3×10^{-4}	
		(2 ~ 5) mV	9.4×10^{-5}	
		(5 ~ 10) mV	4.9×10^{-5}	
		(10 ~ 15) mV	3.4×10^{-5}	
		(15 ~ 20) mV	2.6×10^{-5}	
		(20 ~ 50) mV	1.3×10^{-5}	
		(50 ~ 200) mV	8.3×10^{-6}	
		(200 ~ 500) mV	4.8×10^{-6}	
		500 mV ~ 2 V	3.8×10^{-6}	
		(2 ~ 5) V	2.6×10^{-6}	
		(5 ~ 10) V	2.3×10^{-6}	
		(10 ~ 20) V	5.8×10^{-6}	
		(20 ~ 50) V	4.0×10^{-6}	
		(50 ~ 100) V	3.5×10^{-6}	
		(100 ~ 200) V	7.8×10^{-6}	
		(200 ~ 500) V	5.2×10^{-6}	
		(500 ~ 1 000) V	4.5×10^{-6}	
AC Voltage		0.6 mV		
		1 kHz	4.1 μ V	
		1 mV		
		10 Hz	4.2 μ V	
		10 Hz ~ 20 kHz	4.1 μ V	
		(20 ~ 50) kHz	4.2 μ V	
		(50 ~ 100) kHz	5.5 μ V	
		(100 ~ 300) kHz	11 μ V	
		(300 ~ 500) kHz	21 μ V	
		500 kHz ~ 1 MHz	23 μ V	
		(1 ~ 2) mV		
		10 Hz	2.2×10^{-3}	
		10 Hz ~ 20 kHz	2.1×10^{-3}	
		(20 ~ 50) kHz	2.2×10^{-3}	
		(50 ~ 100) kHz	2.9×10^{-3}	
		(100 ~ 300) kHz	5.9×10^{-3}	
		(300 ~ 500) kHz	1.1×10^{-2}	
		500 kHz ~ 1 MHz	1.3×10^{-2}	
		(2 ~ 5) mV		
		10 Hz	1.1×10^{-3}	
		(10 ~ 40) Hz	9.2×10^{-4}	
		40 Hz ~ 20 kHz	9.1×10^{-4}	
		(20 ~ 50) kHz	1.0×10^{-3}	
		(50 ~ 100) kHz	1.5×10^{-3}	
		(100 ~ 300) kHz	2.9×10^{-3}	
		(300 ~ 500) kHz	5.3×10^{-3}	
		500 kHz ~ 1 MHz	6.9×10^{-3}	

404. Other DC & LF measurements

Measured Quantity Instrument or Gauge	Field Code	Range	Measurement uncertainty (The Confidence Level is about 95 %)	Standard/Method of Measurement etc.
Analogue/digital multimeters AC Voltage	40419	(5 ~ 10) mV 10 Hz (10 ~ 40) Hz 40 Hz ~ 20 kHz (20 ~ 50) kHz (50 ~ 100) kHz (100 ~ 300) kHz (300 ~ 500) kHz 500 kHz ~ 1 MHz (10 ~ 15) mV 10 Hz (10 ~ 40) Hz 40 Hz ~ 20 kHz (20 ~ 50) kHz (50 ~ 100) kHz (100 ~ 300) kHz (300 ~ 500) kHz 500 kHz ~ 1 MHz (15 ~ 20) mV 10 Hz (10 ~ 40) Hz 40 Hz ~ 20 kHz (20 ~ 50) kHz (50 ~ 100) kHz (100 ~ 300) kHz (300 ~ 500) kHz 500 kHz ~ 1 MHz (20 ~ 50) mV 10 Hz (10 ~ 40) Hz 40 Hz ~ 20 kHz (20 ~ 50) kHz (50 ~ 100) kHz (100 ~ 300) kHz (300 ~ 500) kHz 500 kHz ~ 1 MHz (50 ~ 100) mV 10 Hz (10 ~ 40) Hz 40 Hz ~ 20 kHz (20 ~ 50) kHz (50 ~ 100) kHz (100 ~ 300) kHz (300 ~ 500) kHz 500 kHz ~ 1 MHz	6.3 × 10 ⁻⁴ 5.0 × 10 ⁻⁴ 4.9 × 10 ⁻⁴ 6.0 × 10 ⁻⁴ 9.5 × 10 ⁻⁴ 1.9 × 10 ⁻³ 3.2 × 10 ⁻³ 4.6 × 10 ⁻³ 4.8 × 10 ⁻⁴ 3.6 × 10 ⁻⁴ 3.5 × 10 ⁻⁴ 4.5 × 10 ⁻⁴ 7.6 × 10 ⁻⁴ 1.5 × 10 ⁻³ 2.5 × 10 ⁻³ 3.8 × 10 ⁻³ 4.1 × 10 ⁻⁴ 2.9 × 10 ⁻⁴ 2.8 × 10 ⁻⁴ 3.8 × 10 ⁻⁴ 6.7 × 10 ⁻⁴ 1.3 × 10 ⁻³ 2.1 × 10 ⁻³ 3.5 × 10 ⁻³ 4.7 × 10 ⁻⁴ 2.5 × 10 ⁻⁴ 2.1 × 10 ⁻⁴ 2.7 × 10 ⁻⁴ 6.7 × 10 ⁻⁴ 1.0 × 10 ⁻³ 1.7 × 10 ⁻³ 3.5 × 10 ⁻³ 3.3 × 10 ⁻⁴ 1.6 × 10 ⁻⁴ 1.3 × 10 ⁻⁴ 1.9 × 10 ⁻⁴ 4.8 × 10 ⁻⁴ 7.6 × 10 ⁻⁴ 1.4 × 10 ⁻³ 2.9 × 10 ⁻³	Calibrator/ SICT-CP-40419

404. Other DC & LF measurements

Measured Quantity Instrument or Gauge	Field Code	Range	Measurement uncertainty (The Confidence Level is about 95 %)	Standard/Method of Measurement etc.
Analogue/digital multimeters	40419			Calibrator/ SICT-CP-40419
AC Voltage		(100 ~ 150) mV 10 Hz	2.9×10^{-4}	
		(10 ~ 40) Hz	1.3×10^{-4}	
		40 Hz ~ 20 kHz	1.0×10^{-4}	
		(20 ~ 50) kHz	1.6×10^{-4}	
		(50 ~ 100) kHz	4.1×10^{-4}	
		(100 ~ 300) kHz	6.8×10^{-4}	
		(300 ~ 500) kHz	1.3×10^{-3}	
		500 kHz ~ 1 MHz	2.7×10^{-3}	
		(150 ~ 200) mV 10 Hz	2.6×10^{-4}	
		(10 ~ 40) Hz	1.2×10^{-4}	
		40 Hz ~ 20 kHz	9.1×10^{-5}	
		(20 ~ 50) kHz	1.4×10^{-4}	
		(50 ~ 100) kHz	3.8×10^{-4}	
		(100 ~ 300) kHz	6.4×10^{-4}	
		(300 ~ 500) kHz	1.2×10^{-3}	
		500 kHz ~ 1 MHz	2.6×10^{-3}	
		(200 ~ 500) mV 10 Hz	3.0×10^{-4}	
		(10 ~ 20) Hz	1.3×10^{-4}	
		(20 ~ 40) Hz	8.9×10^{-5}	
		40 Hz ~ 20 kHz	6.6×10^{-5}	
		(20 ~ 50) kHz	1.0×10^{-4}	
		(50 ~ 100) kHz	1.6×10^{-4}	
		(100 ~ 300) kHz	4.6×10^{-4}	
		(300 ~ 500) kHz	1.2×10^{-3}	
		500 kHz ~ 1 MHz	2.7×10^{-3}	
		(0.5 ~ 1) V 10 Hz	2.5×10^{-4}	
		(10 ~ 20) Hz	9.8×10^{-5}	
		(20 ~ 40) Hz	5.8×10^{-5}	
		40 Hz ~ 20 kHz	4.9×10^{-5}	
		(20 ~ 50) kHz	7.7×10^{-5}	
		(50 ~ 100) kHz	1.2×10^{-4}	
		(100 ~ 300) kHz	3.7×10^{-4}	
		(300 ~ 500) kHz	1.0×10^{-3}	
		500 kHz ~ 1 MHz	2.5×10^{-3}	
		(1 ~ 2) V 10 Hz	2.2×10^{-4}	
		(10 ~ 20) Hz	8.5×10^{-5}	
		(20 ~ 40) Hz	4.5×10^{-5}	
		40 Hz ~ 20 kHz	4.2×10^{-5}	
		(20 ~ 50) kHz	6.8×10^{-5}	
		(50 ~ 100) kHz	9.6×10^{-5}	
		(100 ~ 300) kHz	3.2×10^{-4}	
		(300 ~ 500) kHz	9.0×10^{-4}	
		500 kHz ~ 1 MHz	2.4×10^{-3}	

404. Other DC & LF measurements

Measured Quantity Instrument or Gauge	Field Code	Range	Measurement uncertainty (The Confidence Level is about 95 %)	Standard/Method of Measurement etc.
Analogue/digital multimeters AC Voltage	40419	(2 ~ 5) V 10 Hz (10 ~ 20) Hz (20 ~ 40) Hz 40 Hz ~ 20 kHz (20 ~ 50) kHz (50 ~ 100) kHz (100 ~ 300) kHz (300 ~ 500) kHz 500 kHz ~ 1 MHz (5 ~ 10) V 10 Hz (10 ~ 20) Hz (20 ~ 40) Hz 40 Hz ~ 20 kHz (20 ~ 50) kHz (50 ~ 100) kHz (100 ~ 300) kHz (300 ~ 500) kHz 500 kHz ~ 1 MHz (10 ~ 15) V 10 Hz (10 ~ 20) Hz (20 ~ 40) Hz 40 Hz ~ 20 kHz (20 ~ 50) kHz (50 ~ 100) kHz (100 ~ 300) kHz (300 ~ 500) kHz 500 kHz ~ 1 MHz (15 ~ 20) V 10 Hz (10 ~ 20) Hz (20 ~ 40) Hz 40 Hz ~ 20 kHz (20 ~ 50) kHz (50 ~ 100) kHz (100 ~ 300) kHz (300 ~ 500) kHz 500 kHz ~ 1 MHz (20 ~ 50) V 10 Hz (10 ~ 20) Hz (20 ~ 40) Hz 40 Hz ~ 20 kHz (20 ~ 50) kHz (50 ~ 100) kHz	3.1 × 10 ⁻⁴ 1.3 × 10 ⁻⁴ 8.3 × 10 ⁻⁵ 6.2 × 10 ⁻⁵ 1.0 × 10 ⁻⁴ 1.4 × 10 ⁻⁴ 4.3 × 10 ⁻⁴ 1.3 × 10 ⁻³ 2.2 × 10 ⁻³ 2.5 × 10 ⁻⁴ 9.9 × 10 ⁻⁵ 5.4 × 10 ⁻⁵ 4.7 × 10 ⁻⁵ 7.7 × 10 ⁻⁵ 1.1 × 10 ⁻⁴ 3.2 × 10 ⁻⁴ 1.0 × 10 ⁻³ 1.7 × 10 ⁻³ 2.3 × 10 ⁻⁴ 8.9 × 10 ⁻⁵ 4.6 × 10 ⁻⁵ 4.2 × 10 ⁻⁵ 7.1 × 10 ⁻⁵ 9.5 × 10 ⁻⁵ 2.9 × 10 ⁻⁴ 9.4 × 10 ⁻⁴ 1.5 × 10 ⁻³ 2.2 × 10 ⁻⁴ 8.5 × 10 ⁻⁵ 4.3 × 10 ⁻⁵ 4.1 × 10 ⁻⁵ 6.8 × 10 ⁻⁵ 9.0 × 10 ⁻⁵ 2.7 × 10 ⁻⁴ 9.1 × 10 ⁻⁴ 1.4 × 10 ⁻³ 3.2 × 10 ⁻⁴ 1.5 × 10 ⁻⁴ 9.8 × 10 ⁻⁵ 7.5 × 10 ⁻⁵ 1.1 × 10 ⁻⁴ 2.1 × 10 ⁻⁴	Calibrator/ SICT-CP-40419

404. Other DC & LF measurements

Measured Quantity Instrument or Gauge	Field Code	Range	Measurement uncertainty (The Confidence Level is about 95 %)	Standard/Method of Measurement etc.
Analogue/digital multimeters	40419			Calibrator/ SICT-CP-40419
AC Voltage		(50 ~ 100) V		
		10 Hz	2.5×10^{-4}	
		(10 ~ 20) Hz	1.0×10^{-4}	
		(20 ~ 40) Hz	6.5×10^{-5}	
		40 Hz ~ 20 kHz	5.6×10^{-5}	
		(20 ~ 50) kHz	8.5×10^{-4}	
		(50 ~ 100) kHz	1.6×10^{-4}	
		(100 ~ 200) V		
		10 Hz	2.3×10^{-4}	
		(10 ~ 20) Hz	9.1×10^{-5}	
		(20 ~ 40) Hz	5.6×10^{-5}	
		40 Hz ~ 20 kHz	5.2×10^{-5}	
		(20 ~ 50) kHz	7.9×10^{-5}	
		(50 ~ 100) kHz	1.4×10^{-4}	
		(200 ~ 500) V		
		50 Hz ~ 1 kHz	6.7×10^{-5}	
		(500 ~ 1 000) V		
		50 Hz ~ 1 kHz	6.3×10^{-5}	
Resistance		0 Ω	0.6 $\mu\Omega$	
		0 Ω ~ 10 k Ω	1.2×10^{-6}	
		(10 ~ 100) k Ω	1.4×10^{-6}	
		100 k Ω ~ 1 M Ω	7.2×10^{-6}	
		(1 ~ 10) M Ω	8.7×10^{-6}	
		(10 ~ 100) M Ω	1.5×10^{-5}	
		100 M Ω ~ 1 G Ω	2.9×10^{-4}	
DC Current		($\pm$)		
		0 nA	0.28 pA	
		(0 ~ 100) nA	8.5×10^{-4}	
		100 nA ~ 1 μ A	9.3×10^{-4}	
		(1 ~ 10) μ A	8.1×10^{-4}	
		(10 ~ 20) μ A	3.5×10^{-4}	
		(20 ~ 50) μ A	1.6×10^{-4}	
		(50 ~ 100) μ A	9.4×10^{-5}	
		(100 ~ 200) μ A	6.3×10^{-5}	
		(200 ~ 500) μ A	4.8×10^{-5}	
		500 μ A ~ 1 mA	3.5×10^{-5}	
		(1 ~ 1.5) mA	3.1×10^{-5}	
		(1.5 ~ 2) mA	2.9×10^{-5}	
		(2 ~ 5) mA	4.3×10^{-5}	
		(5 ~ 10) mA	3.2×10^{-5}	
		(10 ~ 15) mA	2.9×10^{-5}	
		(15 ~ 20) mA	2.8×10^{-5}	
		(20 ~ 50) mA	5.6×10^{-5}	
		(50 ~ 100) mA	4.4×10^{-5}	
		(100 ~ 150) mA	4.1×10^{-5}	

404. Other DC & LF measurements

Measured Quantity Instrument or Gauge	Field Code	Range	Measurement uncertainty (The Confidence Level is about 95 %)	Standard/Method of Measurement etc.
Analogue/digital multimeters	40419			Calibrator/ SICT-CP-40419
DC Current		(150 ~ 200) mA (200 ~ 500) mA 500 mA ~ 1 A (1 ~ 1.5) A (1.5 ~ 2) A (2 ~ 3) A (3 ~ 5) A (5 ~ 10) A (10 ~ 20) A (20 ~ 30) A	3.9×10^{-5} 9.3×10^{-5} 6.8×10^{-5} 6.1×10^{-5} 5.8×10^{-5} 3.5×10^{-4} 2.4×10^{-4} 1.6×10^{-4} 1.3×10^{-4} 2.4×10^{-4}	
AC Current		(20 μ A) 10 Hz (10 ~ 20) Hz (20 ~ 40) Hz 40 Hz ~ 1 kHz (1 ~ 5) kHz (5 ~ 10) kHz (20 ~ 50) μ A 10 Hz (10 ~ 20) Hz 20 Hz ~ 1 kHz (1 ~ 5) kHz (5 ~ 10) kHz (50 ~ 200) μ A 10 Hz (10 ~ 20) Hz 20 Hz ~ 1 kHz (1 ~ 5) kHz (5 ~ 10) kHz 200 μ A ~ 1 mA 10 Hz (10 ~ 20) Hz 20 Hz ~ 1 kHz (1 ~ 5) kHz (5 ~ 10) kHz (1 ~ 2) mA 10 Hz (10 ~ 20) Hz 20 Hz ~ 1 kHz (1 ~ 5) kHz (5 ~ 10) kHz (2 ~ 10) mA 10 Hz (10 ~ 20) Hz 20 Hz ~ 1 kHz (1 ~ 5) kHz (5 ~ 10) kHz	23 nA 15 nA 12 nA 11 nA 23 nA 81 nA 1.4×10^{-4} 9.0×10^{-5} 7.3×10^{-5} 1.5×10^{-4} 5.5×10^{-4} 2.9×10^{-4} 1.8×10^{-4} 1.4×10^{-4} 3.1×10^{-4} 1.1×10^{-3} 2.7×10^{-4} 1.8×10^{-4} 1.4×10^{-4} 3.0×10^{-4} 1.5×10^{-3} 2.4×10^{-4} 1.5×10^{-4} 1.2×10^{-4} 2.3×10^{-4} 1.1×10^{-3} 2.7×10^{-4} 1.8×10^{-4} 1.4×10^{-4} 2.8×10^{-4} 1.4×10^{-3}	

404. Other DC & LF measurements

Measured Quantity Instrument or Gauge	Field Code	Range	Measurement uncertainty (The Confidence Level is about 95 %)	Standard/Method of Measurement etc.
Analogue/digital multimeters	40419			Calibrator/ SICT-CP-40419
AC Current		(10 ~ 20) mA		
		10 Hz	2.4×10^{-4}	
		(10 ~ 20) Hz	1.5×10^{-4}	
		20 Hz ~ 1 kHz	1.2×10^{-4}	
		(1 ~ 5) kHz	2.1×10^{-4}	
		(5 ~ 10) kHz	1.1×10^{-3}	
		(20 ~ 100) mA		
		10 Hz	2.8×10^{-4}	
		(10 ~ 20) Hz	1.9×10^{-4}	
		20 Hz ~ 1 kHz	1.4×10^{-4}	
		(1 ~ 5) kHz	2.6×10^{-4}	
		(5 ~ 10) kHz	1.1×10^{-3}	
		(100 ~ 200) mA		
		10 Hz	2.4×10^{-4}	
		(10 ~ 20) Hz	1.6×10^{-4}	
		20 Hz ~ 1 kHz	1.1×10^{-4}	
		(1 ~ 5) kHz	2.0×10^{-4}	
		(5 ~ 10) kHz	9.0×10^{-3}	
		200 mA ~ 1 A		
		40 Hz ~ 1 kHz	2.8×10^{-4}	
		(1 ~ 5) kHz	5.0×10^{-4}	
		(5 ~ 10) kHz	5.3×10^{-3}	
		(1 ~ 2) A		
		40 Hz ~ 1 kHz	2.4×10^{-4}	
		(1 ~ 5) kHz	4.1×10^{-4}	
		(5 ~ 10) kHz	5.1×10^{-3}	
		(2 ~ 3) A		
		40 Hz ~ 1 kHz	4.4×10^{-4}	
		(1 ~ 10) kHz	3.3×10^{-3}	
		(3 ~ 5) A		
		40 Hz ~ 1 kHz	4.3×10^{-4}	
		(1 ~ 10) kHz	3.2×10^{-3}	
		(5 ~ 10) A		
		40 Hz ~ 1 kHz	4.1×10^{-4}	
		(1 ~ 10) kHz	3.1×10^{-3}	
		(10 ~ 20) A		
		(40 ~ 60) Hz	5.9×10^{-4}	
		(60 ~ 100) Hz	7.0×10^{-4}	
		100 Hz ~ 1 kHz	1.3×10^{-3}	
		(1 ~ 10) kHz	2.3×10^{-3}	
		(20 ~ 30) A		
		(40 ~ 60) Hz	7.7×10^{-4}	
		(60 ~ 100) Hz	1.2×10^{-4}	
		100 Hz ~ 1 kHz	3.9×10^{-3}	
		(1 ~ 10) kHz	4.5×10^{-3}	

404. Other DC & LF measurements

Measured Quantity Instrument or Gauge	Field Code	Range	Measurement uncertainty (The Confidence Level is about 95 %)	Standard/Method of Measurement etc.
Analogue/digital multimeters Frequency (Digital Smampling) AC Voltage	40419	10 Hz ~ 10 MHz 0.1 Hz ~ 3 kHz 1 mV (1 ~ 2) mV (2 ~ 3) mV (3 ~ 5) mV (5 ~ 10) mV (10 ~ 20) mV (20 ~ 30) mV (30 ~ 50) mV (50 ~ 100) mV (100 ~ 200) mV (200 ~ 300) mV (300 ~ 500) mV (0.5 ~ 1) V (1 ~ 2) V (2 ~ 3) V (3 ~ 5) V (5 ~ 10) V (10 ~ 30) V 10 Hz ~ 3 kHz (30 ~ 50) V (50 ~ 100) V (100 ~ 200) V 50 Hz ~ 1 kHz (200 ~ 1 000) V	6.4×10^{-7} 8.4×10^{-4} 4.2×10^{-4} 2.8×10^{-4} 1.7×10^{-4} 8.8×10^{-5} 4.8×10^{-5} 3.6×10^{-5} 3.0×10^{-5} 2.6×10^{-5} 4.8×10^{-5} 3.6×10^{-5} 2.8×10^{-5} 2.4×10^{-5} 4.8×10^{-5} 3.6×10^{-5} 3.0×10^{-5} 2.6×10^{-5} 3.6×10^{-5} 2.8×10^{-5} 2.4×10^{-5} 4.8×10^{-5} 2.4×10^{-5}	Calibrator/ SICT-CP-40419
Noise meters AC Voltage Test	40420	600 μV 1 kHz 600 μV ~ 20 mV (10 ~ 40) Hz 40 Hz ~ 20 kHz (20 ~ 100) kHz (100 ~ 300) kHz 300 kHz ~ 1 MHz (20 ~ 200) mV (10 ~ 40) Hz 40 Hz ~ 20 kHz (20 ~ 100) kHz 100 kHz ~ 1 MHz 200 mV ~ 2 V (10 ~ 40) Hz 40 Hz ~ 20 kHz (20 ~ 100) kHz (100 ~ 300) kHz 300 kHz ~ 1 MHz	7.8×10^{-3} 2.6×10^{-3} 2.4×10^{-3} 3.5×10^{-3} 7.0×10^{-3} 1.5×10^{-2} 5.2×10^{-4} 3.4×10^{-4} 8.8×10^{-4} 4.3×10^{-3} 3.0×10^{-4} 6.2×10^{-5} 1.2×10^{-4} 4.4×10^{-4} 2.2×10^{-3}	Calibrator/ SICT-CP-40420

404. Other DC & LF measurements

Measured Quantity Instrument or Gauge		Field Code	Range	Measurement uncertainty (The Confidence Level is about 95 %)	Standard/Method of Measurement etc.
Noise meters	AC Voltage Test	40420	(2 ~ 20) V (10 ~ 40) Hz 40 Hz ~ 100 kHz (100 ~ 300) kHz 300 kHz ~ 1 MHz (20 ~ 200) V (10 ~ 40) Hz 40 Hz ~ 20 kHz (20 ~ 100) kHz (200 ~ 500) V 50 Hz ~ 1 kHz (500 ~ 1 000) V 50 Hz ~ 1 kHz (25 ~ 500) mV (1 ~ 30) MHz 500 mV ~ 2 V (0.1 ~ 30) MHz	3.0×10^{-4} 1.2×10^{-4} 3.3×10^{-4} 1.9×10^{-3} 2.8×10^{-4} 6.8×10^{-5} 1.8×10^{-4} 3.8×10^{-4} 3.7×10^{-4} 2.2×10^{-2} 2.1×10^{-2}	Calibrator/ SICT-CP-40420
	Weighting Test		(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	0.12 dB 0.12 dB 0.12 dB 0.12 dB	
	AC Voltage Output		10 mV 1 kHz 10 mV ~ 1 V 20 Hz ~ 1 kHz (1 ~ 10) kHz (10 ~ 100) kHz	2.8×10^{-3} 8.5×10^{-5} 1.3×10^{-4} 7.0×10^{-4}	
	DC Voltage Output		0 mV 100 mV ~ 1 V	0.73 μ V 9.5×10^{-6}	
Oscilloscopes	Impedance Measure	40421	50 Ω 75 Ω 1 M Ω	3.6×10^{-5} 2.8×10^{-5} 2.7×10^{-5}	Calibration Generator/ SICT-CP-40421
	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	0.78 μ V 8.0×10^{-4} 4.0×10^{-4} 1.4×10^{-4} 4.5×10^{-5} 1.1×10^{-5} 9.0×10^{-6} 9.1×10^{-6}	

404. Other DC & LF measurements

Measured Quantity Instrument or Gauge	Field Code	Range	Measurement uncertainty (The Confidence Level is about 95 %)	Standard/Method of Measurement etc.
Oscilloscopes	40421			Calibration Generator/ SICT-CP-40421
AC Voltage(Square wave)		(1 kHz) 1 mV (1 ~ 25) mV 25 mV ~ 0.5 V (0.5 ~ 2.2) V (2.2 ~ 130) V	6.5×10^{-3} 8.5×10^{-4} 8.7×10^{-4} 6.5×10^{-4} 8.4×10^{-4}	
Time Marker		100 ps (100 ~ 200) ps 200 ps ~ 20 ms 20 ms ~ 5 s	6.1×10^{-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	1.0×10^{-4} 5.1×10^{-5}	
CAL Output Frequency		100 Hz ~ 10 MHz	6.1×10^{-7}	
Sinewave Signal Generator Level		50 kHz 50 kHz~ 1 MHz 1 MHz ~ 4 GHz (4 ~ 18) GHz (18 ~ 25) GHz (25 ~ 33) GHz (33 ~ 40) GHz	2.3×10^{-2} 4.5×10^{-2} 2.7×10^{-2} 3.7×10^{-2} 4.7×10^{-2} 6.9×10^{-2} 7.2×10^{-2}	
AC Voltage(Sine wave)		(10 ~ 40) Hz 2 mV (2 ~ 20) mV (20 ~ 200) mV 200 mV ~ 20 V (20 ~ 100) V 40 Hz ~ 1 kHz 2 mV (2 ~ 20) mV (20 ~ 800) mV 800 mV ~ 20 V (20 ~ 200) V (1 ~ 50) kHz 2 mV (2 ~ 20) mV (20 ~ 200) mV 200 mV ~ 20 V (20 ~ 100) V (50 ~ 100) kHz 2 mV (2 ~ 20) mV (20 ~ 200) mV 200 mV ~ 20 V (20 ~ 100) V	$5.2 \mu\text{V}$ 1.9×10^{-3} 6.6×10^{-4} 4.2×10^{-4} 4.4×10^{-4} $4.9 \mu\text{V}$ 1.7×10^{-3} 3.1×10^{-4} 8.5×10^{-5} 1.3×10^{-4} $5.2 \mu\text{V}$ 1.9×10^{-3} 4.6×10^{-4} 1.3×10^{-4} 1.6×10^{-4} $7.0 \mu\text{V}$ 2.7×10^{-3} 8.9×10^{-4} 1.9×10^{-4} 2.9×10^{-4}	

404. Other DC & LF measurements

Measured Quantity Instrument or Gauge	Field Code	Range	Measurement uncertainty (The Confidence Level is about 95 %)	Standard/Method of Measurement etc.
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 0 μV ~ 1 mV (1 ~ 10) mV (10 ~ 100) mV (0.1 ~ 1) V (1 ~ 10) V (10 ~ 100) V (100 ~ 1 000) V	0.49 μV 5.2×10^{-4} 5.9×10^{-5} 1.3×10^{-5} 6.7×10^{-6} 4.3×10^{-6} 6.3×10^{-6} 8.7×10^{-6}	Calibrator/ SICT-CP-40424
DC Current		(±) 0 pA (0 ~ 1) pA (1 ~ 10) pA (10 ~ 100) pA 100 pA ~ 100 nA 100 nA ~ 1 μA (1 ~ 10) μA (10 ~ 100) μA 100 μA ~ 10 mA (10 ~ 200) mA 200 mA ~ 1 A (1 ~ 100) A	12 fA 2.4×10^{-2} 9.3×10^{-3} 2.3×10^{-3} 8.5×10^{-4} 9.3×10^{-4} 2.8×10^{-5} 2.2×10^{-5} 1.8×10^{-5} 1.1×10^{-5} 2.0×10^{-5} 1.5×10^{-4}	
Relay test sets DC Voltage	40425	1 mV 1 mV ~ 1 V (1 ~ 100) V (100 ~ 1 000) V	4.1×10^{-4} 3.3×10^{-4} 3.3×10^{-5} 2.2×10^{-5}	Digital Multimeter/ SICT-CP-40425
DC Current		1 mA (1 mA ~ 1 A) (1 ~ 10) A (10 ~ 100) A (100 ~ 1 000) A	5.9×10^{-5} 2.4×10^{-4} 2.5×10^{-4} 4.0×10^{-4} 2.3×10^{-3}	
AC Voltage		1 mV 20 Hz ~ 10 kHz (10 ~ 100) kHz (1 ~ 100) mV 20 Hz ~ 10 kHz (10 ~ 100) kHz (100 mV ~ 1 V) 20 Hz ~ 10 kHz (10 ~ 100) kHz 100 kHz ~ 1 MHz (1 ~ 10) V 20 Hz ~ 10 kHz (10 ~ 100) kHz 100 kHz ~ 1 MHz	2.9×10^{-3} 7.6×10^{-3} 2.1×10^{-4} 1.1×10^{-3} 4.9×10^{-4} 1.2×10^{-3} 2.1×10^{-2} 2.1×10^{-4} 1.1×10^{-3} 2.1×10^{-2}	

404. Other DC & LF measurements

Measured Quantity Instrument or Gauge	Field Code	Range	Measurement uncertainty (The Confidence Level is about 95 %)	Standard/Method of Measurement etc.
Relay test sets	40425	AC Voltage	(10 ~ 100) V 20 Hz ~ 10 kHz (10 ~ 100) kHz (100 ~ 1 000) V 50 Hz ~ 10 kHz (10 ~ 30) kHz	Digital Multimeter/ SICT-CP-40425
			1.7×10^{-4} 1.1×10^{-3}	
			1.9×10^{-4} 4.4×10^{-4}	
		AC Current	1 mA 40 Hz ~ 10 kHz	
			8.6×10^{-4}	
			(1 ~ 100) mA 40 Hz ~ 10 kHz	
			6.4×10^{-4}	
			(100 mA ~ 1 A) 40 Hz ~ 10 kHz	
			7.1×10^{-4}	
			(1 ~ 10) A 40 Hz ~ 10 kHz	
			9.9×10^{-4}	
	40426		(10 ~ 100) A 40 Hz ~ 10 kHz	Audio Analyzer, Digital Multimeter/ SICT-CP-40426
			2.2×10^{-4}	
			(100 ~ 1 000) A 60 Hz	
			2.2×10^{-3}	
		Timer	(1 ~ 100) s	
			5.8×10^{-6}	
LF signal generators		Frequency Test	(0.1 ~ 1) Hz 1 Hz ~ 100 MHz	
			5.8×10^{-7} 5.8×10^{-9}	
		Output Level Test	(10 ~ 100) Hz 1 mV (1 ~ 10) mV 10 mV ~ 100 V	
			8.7×10^{-4} 1.3×10^{-4} 7.6×10^{-5}	
			100 Hz ~ 10 kHz 1 mV (1 ~ 10) mV 10 mV ~ 100 V	
			8.7×10^{-4} 1.1×10^{-4} 3.3×10^{-5}	
			(10 ~ 100) kHz 1 mV (1 ~ 10) mV 10 mV ~ 100 V	
			8.6×10^{-4} 1.1×10^{-4} 8.0×10^{-5}	
		DC Offset	(±) 0 mV (0 ~ 1) mV (1 ~ 10) mV 10 mV ~ 20 V	
			$0.65 \mu\text{V}$ $0.77 \mu\text{V}$ 7.8×10^{-5} 5.8×10^{-5}	

404. Other DC & LF measurements

Measured Quantity Instrument or Gauge	Field Code	Range	Measurement uncertainty (The Confidence Level is about 95 %)	Standard/Method of Measurement etc.
LF signal generators Output Level Flatness Test	40426	100 mV (10 ~ 100) Hz 100 Hz ~ 10 kHz (10 ~ 100) kHz 100 mV ~ 1 V (10 ~ 100) Hz 100 Hz ~ 10 kHz (10 ~ 100) kHz (1 ~ 10) V (10 ~ 100) Hz 100 Hz ~ 10 kHz (10 ~ 100) kHz (10 ~ 30) V (10 ~ 100) Hz 100 Hz ~ 10 kHz (10 ~ 100) kHz	0.10 dB 0.084 dB 0.10 dB 0.001 0 dB 0.000 82 dB 0.000 93 dB 0.010 dB 0.008 2 dB 0.009 4 dB 0.022 dB 0.013 dB 0.024 dB	Audio Analyzer, Digital Multimeter/ SICT-CP-40426
Attenuator Test		10 Hz ~ 100 kHz (0 ~ 80) dB	0.006 1 dB	
Distortion		20 Hz ~ 1 kHz (0.010 ~ 3.16) % (1 ~ 100) kHz (0.010 ~ 3.16) %	1.5×10^{-1} 3.0×10^{-1}	
Rise/Fall Time		(0.1 ~ 1) ns (1 ~ 10) ns (10 ~ 100) ns (0.1 ~ 100) μ s	4.6×10^{-2} 4.7×10^{-3} 7.7×10^{-4} 6.2×10^{-4}	
Duty cycle		(1 ~ 99) %	0.006 1 %	
LF spectrum analyzers Reference Frequency	40427	10 MHz	7.6×10^{-12}	Synthesizer Function Generator/ SICT-CP-40427
Center Frequency		(10 ~ 100) Hz 100 Hz ~ 1 kHz (1 ~ 10) kHz 10 kHz ~ 10 MHz (10 ~ 100) MHz 100 MHz ~ 1 GHz	6.1×10^{-5} 6.1×10^{-6} 6.1×10^{-7} 6.1×10^{-8} 6.1×10^{-9} 6.1×10^{-8}	
Frequency Range		(10 ~ 100) Hz 100 Hz ~ 100 kHz 100 kHz ~ 1 MHz (1 ~ 10) MHz (10 ~ 100) MHz 100 MHz ~ 1 GHz	1.1×10^{-3} 1.1×10^{-4} 1.1×10^{-5} 1.1×10^{-6} 1.1×10^{-7} 1.1×10^{-8}	

404. Other DC & LF measurements

Measured Quantity Instrument or Gauge	Field Code	Range	Measurement uncertainty (The Confidence Level is about 95 %)	Standard/Method of Measurement etc.
LF spectrum analyzers	40427			Synthesizer Function Generator/ SICT-CP-40427
Resolution Bandwidth		100 Hz ~ 1 MHz	3.4×10^{-2}	
Absolute Amplitude		(-60 dBV)		
		10 Hz	0.043 dB	
		10 Hz ~ 10 kHz	0.042 dB	
		(10 ~ 100) kHz	0.056 dB	
		(-60 ~ -50) dBV		
		10 Hz	0.017 dB	
		10 Hz ~ 10 kHz	0.015 dB	
		(10 ~ 100) kHz	0.023 dB	
		(-50 ~ -40) dBV		
		10 Hz	0.009 0 dB	
		10 Hz ~ 10 kHz	0.009 8 dB	
		(10 ~ 100) kHz	0.012 dB	
		(-40 ~ -30) dBV		
		10 Hz	0.009 0 dB	
		10 Hz ~ 10 kHz	0.006 8 dB	
		(10 ~ 100) kHz	0.011 dB	
		(-30 ~ 30) dBV		
		10 Hz	0.016 dB	
		10 Hz ~ 10 kHz	0.006 3 dB	
		(10 ~ 100) kHz	0.007 8 dB	
Referency Level		(-60 dBV)		
		10 Hz ~ 100 kHz	0.17 dB	
		(-60 ~ 30) dBV		
		10 Hz ~ 100 kHz	0.16 dB	
Frequency Response		10 Hz	0.009 1 dB	
		10 Hz ~ 100 kHz	0.008 7 dB	
Logscale Fidelity		(0 ~ -60) dB	0.009 2 dB	
		(-60 ~ -70) dB	0.012 dB	
		(-70 ~ -80) dB	0.016 dB	
		(-80 ~ -90) dB	0.042 dB	
Output frequency		10 Hz ~ 300 MHz	6.1×10^{-11}	
Input Impedance		50 Ω	1.0×10^{-5}	
		75 Ω	9.3×10^{-6}	
		1 M Ω	1.0×10^{-5}	
Output Voltage		10 mV	4.2×10^{-4}	
		10 mV ~ 5 V	8.8×10^{-5}	
Output Offset Voltage		(-30 ~ 30) V	8.1×10^{-6}	
Output Voltage Flatness		10 Hz ~ 100 kHz	0.000 67 dB	

404. Other DC & LF measurements

Measured Quantity Instrument or Gauge	Field Code	Range	Measurement uncertainty (The Confidence Level is about 95 %)	Standard/Method of Measurement etc.
Spot generators	40428			Audio Analyzer, Digital Multimeter/ SICT-CP-40428
Frequency		(0.1 ~ 1) Hz 1 Hz ~ 100 kHz	5.8×10^{-7} 5.8×10^{-9}	
Output Level		(10 ~ 100) Hz 1 mV (1 ~ 10) mV 100 mV ~ 10 V 100 Hz ~ 10 kHz 1 mV (1 ~ 10) mV 100 mV ~ 10 V (10 ~ 100) kHz 1 mV (1 ~ 10) mV 100 mV ~ 10 V	8.7×10^{-4} 1.3×10^{-4} 7.6×10^{-5} 8.7×10^{-4} 1.1×10^{-4} 3.3×10^{-5} 8.6×10^{-4} 1.1×10^{-4} 7.5×10^{-5}	
Output Level Flatness		(100 mV) (10 ~ 100) Hz 100 Hz ~ 10 kHz (10 ~ 100) kHz 100 mV ~ 10 V (10 ~ 100) Hz 100 Hz ~ 100 kHz	0.10 dB 0.084 dB 0.10 dB 0.001 0 dB 0.000 94 dB	
Attenuation		10 Hz ~ 10 kHz (0 ~ 80) dB	0.006 1 dB	
Distortion		20 Hz ~ 1 kHz (0.010 ~ 3.16) % (1 ~ 100) kHz (0.010 ~ 3.16) %	1.5×10^{-1} 3.0×10^{-1}	
Sweep generators	40429			Audio Analyzer, Digital Multimeter/ SICT-CP-40429
Frequency		(0.1 ~ 1) Hz 1 Hz ~ 100 kHz	5.8×10^{-7} 5.8×10^{-9}	
Output Level Test		(10 ~ 100) Hz 1 mV (1 ~ 10) mV 100 mV ~ 10 V 100 Hz ~ 10 kHz 1 mV (1 ~ 10) mV 100 mV ~ 10 V (10 ~ 100) kHz 1 mV (1 ~ 10) mV 100 mV ~ 10 V	8.7×10^{-4} 1.3×10^{-4} 7.6×10^{-5} 8.7×10^{-4} 1.1×10^{-4} 3.3×10^{-5} 8.6×10^{-4} 1.1×10^{-4} 7.5×10^{-5}	

404. Other DC & LF measurements

Measured Quantity Instrument or Gauge	Field Code	Range	Measurement uncertainty (The Confidence Level is about 95 %)	Standard/Method of Measurement etc.
Sweep generators Output Level Flatness Attenuation Distortion	40429	(100 mV) (10 ~ 100) Hz 100 Hz ~ 10 kHz (10 ~ 100) kHz 100 mV ~ 10 V (10 ~ 100) Hz 100 Hz ~ 100 kHz 10 Hz ~ 10 kHz (0 ~ 80) dB 20 Hz ~ 1 kHz (0.010 ~ 3.16) % (1 ~ 100) kHz (0.010 ~ 3.16) %	0.10 dB 0.084 dB 0.10 dB 0.001 0 dB 0.000 94 dB 0.006 1 dB 1.5×10^{-1} 3.0×10^{-1}	Audio Analyzer, Digital Multimeter/ SICT-CP-40429
Signal transducers Voltage Current	40430	100 000 : 1 ~ 1 : 1 1 : 1 ~ 1 : 100 000 100 000 : 1 ~ 1 : 1 1 : 1 ~ 1 : 100 000	6.7×10^{-6} 6.7×10^{-6} 6.7×10^{-6} 6.7×10^{-6}	Digital Multimeter/ SICT-CP-40430
Transistor curve tracers DC Voltage(Source) DC Current(Source) DC Voltage(Measure)	40432	0 mV 0 mV ~ 1 V (1 ~ 10) V (10 ~ 1 000) V 0 nA 0 nA ~ 10 μ A 10 μ A ~ 10 mA (10 ~ 100) mA 100 mA ~ 10 A 0 mV 0 mV ~ 1 V (1 ~ 1 000) V	0.30 μ V 9.3×10^{-6} 7.3×10^{-6} 8.2×10^{-6} 0.28 pA 3.5×10^{-4} 2.3×10^{-4} 6.6×10^{-5} 3.2×10^{-4} 0.50 μ V 1.5×10^{-5} 6.4×10^{-5}	Digital Multimeter/ SICT-CP-40432
AC/DC high voltage generators DC Voltage AC Voltage	40434	($\pm$) 0 kV (0 ~ 0.5) kV (0.5 ~ 1) kV (1 ~ 200) kV 50 Hz 0.01 kV (0.01 ~ 0.5) kV (0.5 ~ 1) kV (1 ~ 200) kV 60 Hz 0.01 kV (0.01 ~ 0.5) kV (0.5 ~ 1) kV (1 ~ 200) kV	0.61 V 1.3×10^{-3} 6.6×10^{-4} 1.4×10^{-3} 0.61 V 1.3×10^{-3} 6.5×10^{-4} 2.9×10^{-3} 0.61 V 1.2×10^{-3} 6.5×10^{-4} 2.9×10^{-3}	High Voltage Digital Meter/ SICT-CP-40434

404. Other DC & LF measurements

Measured Quantity Instrument or Gauge	Field Code	Range	Measurement uncertainty (The Confidence Level is about 95 %)	Standard/Method of Measurement etc.
AC/DC high voltage probes DC Voltage	40435	(±) 0 kV (0 ~ 0.5) kV (0.5 ~ 1) kV (1 ~ 100) kV	0.21 V 4.2×10^{-4} 2.1×10^{-4} 1.4×10^{-3}	DC Power Supply/ SICT-CP-40435
AC Voltage		50 Hz 0.01 kV (0.01 ~ 0.5) kV (0.5 ~ 1) kV (1 ~ 100) kV	2.1 V 4.2×10^{-3} 2.2×10^{-3} 3.1×10^{-3}	
전압비		60 Hz 0.01 kV (0.01 ~ 0.5) kV (0.5 ~ 1) kV (1 ~ 100) kV	2.1 V 4.2×10^{-3} 2.2×10^{-3} 3.1×10^{-3}	
		(±) (1 ~ 100) kV 100 ~ 100 000 : 1	1.4×10^{-3}	
		50 Hz (1 ~ 100) kV 100 ~ 100 000 : 1	3.2×10^{-3}	
		60 Hz (1 ~ 100) kV 100 ~ 100 000 : 1	3.2×10^{-3}	
Logic analyzers DC Voltage	40436	0 mV 0 mV ~ 1 V (0.1 ~ 10) V	0.81 μV 1.5×10^{-5} 8.8×10^{-6}	Calibrator/ SICT-CP-40436
Clock frequency		10 MHz	5.8×10^{-11}	
Telephone testers L1, L2 Output Voltage	40437	1 mV 1 mV ~ 1 V (1 ~ 100) V (100 ~ 1 000) V	0.19 μV 8.0×10^{-6} 7.7×10^{-6} 8.0×10^{-6}	Tone Pulse Simulator/ SICT-CP-40437
Loop Current		100 μA ~ 10 mA (10 ~ 100) mA 100 mA ~ 1 A (1 ~ 10) A	1.4×10^{-5} 4.5×10^{-5} 2.1×10^{-4} 4.6×10^{-4}	
Ring Output Voltage		10 Hz ~ 20 kHz 100 mV ~ 1 V (1 ~ 10) V (10 ~ 1 000) V	4.6×10^{-4} 9.8×10^{-5} 3.4×10^{-4}	
Ring Frequency		1 Hz (1 ~ 100) Hz (100 ~ 500) Hz (500 ~ 1 000) Hz	0.021 μHz 6.1×10^{-6} 5.8×10^{-6} 1.2×10^{-6}	
D.T.M.F & Pulse		(-35.5 ~ 10) dBm	0.086 dB	
D.T.M.F & Frequency		(697 ~ 1 477) Hz	1.7×10^{-7}	

404. Other DC & LF measurements

Measured Quantity Instrument or Gauge	Field Code	Range	Measurement uncertainty (The Confidence Level is about 95 %)	Standard/Method of Measurement etc.
Video signal analyzers	40438			Video Amplitude Calibration Fixture/ SICT-CP-40438
Color Bar Decoding Accuracy(Gain)		(0 ~ 5) mV (5 ~ 10) mV (10 ~ 100) mV (100 ~ 200) mV (200 ~ 500) mV (500 ~ 1 000) mV	2.5×10^{-1} 5.0×10^{-2} 8.2×10^{-2} 4.1×10^{-2} 2.1×10^{-2} 8.5×10^{-3}	
Frequency		20 Hz ~ 5 MHz	5.8×10^{-6}	
Color Bar Decoding Accuracy(Phase)		(0 ~ 360)*	0.70*	
Measure Square Wave		(0 ~ 5) mV (5 ~ 10) mV (10 ~ 100) mV (100 ~ 300) mV (300 ~ 400) mV (400 ~ 600) mV (600 ~ 999.9) mV	9.4×10^{-2} 2.0×10^{-2} 9.9×10^{-3} 2.1×10^{-3} 1.5×10^{-3} 1.2×10^{-3} 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 ~ 5) MHz	4.0×10^{-7}	
vertical Gain		(0 ~ 5) mV (5 ~ 10) mV (10 ~ 100) mV (100 ~ 300) mV (300 ~ 600) mV (600 ~ 999.9) mV	9.4×10^{-2} 2.0×10^{-2} 9.9×10^{-3} 2.1×10^{-3} 1.5×10^{-3} 9.4×10^{-4}	
Horizontal Frequency		(20 ~ 100) Hz 100 Hz ~ 10 kHz 10 kHz ~ 10 MHz	3.1×10^{-3} 6.1×10^{-4} 6.1×10^{-5}	
Gain Frequency Response		Flat, Luminance, Chroma at (20 Hz ~ 20 MHz) 700 mV	7.0×10^{-3}	
Transient Response		(0 ~ 1 000) mV	1.3×10^{-2}	
(Video Noise) Luminance Volt Level		(0 ~ -30) dB	4.8×10^{-1}	
Chrominance AM/PM Level		(0 ~ -30) dB	6.7×10^{-1}	
Luminance Volt Level		(0 ~ 1 000) mV	1.7×10^{-5}	
Luminance Input Level		(0 ~ 1 000) mV	1.8×10^{-5}	
Chrominance Input Level		(0 ~ 1 000) mV	1.7×10^{-5}	

405. Low frequency electric & magnetic fields

Measured Quantity Instrument or Gauge	Field Code	Range	Measurement uncertainty (The Confidence Level is about 95 %)	Standard/Method of Measurement etc.
Flux meters Flux	40503	0.1 mWb ~ 10 Wb	5.8×10^{-3}	Flux sources/ SICT-CP-40503
Flux sources Flux	40504	0.1 mWb (0.1 ~ 0.5) mWb (0.5 ~ 1) mWb (1 ~ 5) mWb (5 ~ 50) mWb 50 mWb ~ 0.1 Wb (0.1 ~ 10) Wb	2.0×10^{-2} 8.0×10^{-3} 2.1×10^{-3} 7.4×10^{-4} 4.1×10^{-3} 6.2×10^{-5} 1.0×10^{-5}	GPS receiver, Frequency counter/ SICT-CP-40504
Magnetometers Gauss	40508	0 mT (0 ~ 0.1) mT (0.1 ~ 0.5) mT (0.5 ~ 3) mT (3 ~ 20) mT (20 ~ 1 700) mT	0.02 mT 6.0×10^{-2} 1.3×10^{-2} 7.1×10^{-3} 3.0×10^{-3} 1.3×10^{-3}	Helmholtz coil, Standard magnets/ SICT-CP-40508
Reference/standard magnets Gauss	40510	(1.5 ~ 30) mT (30 ~ 1 000) mT	6.8×10^{-3} 8.4×10^{-4}	Gaussmeters/ SICT-CP-40510

406. Radio frequency measurement

Measured Quantity Instrument or Gauge	Field Code	Range	Measurement uncertainty (The Confidence Level is about 95 %)	Standard/Method of Measurement etc.
RF amplifiers	40601	Gain		Power Sensor, Attenuator/ SICT-CP-40601
		10 Hz ~ 10 kHz (0 ~ 80) dB	0.07 dB	
		10 kHz ~ 10 GHz (0 ~ 40) dB (40 ~ 80) dB	0.08 dB 0.12 dB	
		(10 ~ 18) GHz (0 ~ 40) dB (40 ~ 80) dB	0.09 dB 0.14 dB	
		(18 ~ 30) GHz (0 ~ 60) dB (60 ~ 70) dB (70 ~ 80) dB	0.20 dB 0.31 dB 0.75 dB	
		(30 ~ 40) GHz (0 ~ 60) dB (60 ~ 70) dB (70 ~ 80) dB	0.26 dB 0.35 dB 0.76 dB	
		(40 ~ 50) GHz (0 ~ 60) dB (60 ~ 70) dB (70 ~ 80) dB	0.41 dB 0.47 dB 0.82 dB	
		(50 ~ 67) GHz (0 ~ 20) dB (20 ~ 45) dB	0.36 dB 0.45 dB	
		Harmonics (9 kHz ~ 40 GHz) (0 ~ 100) dBc	0.90 dB	
		Reflection coefficient (0 ~ 1) 10 Hz ~ 2 GHz (2 ~ 20) GHz (20 ~ 40) GHz (40 ~ 50) GHz (50 ~ 67) GHz	4.7×10^{-3} 9.2×10^{-3} 1.5×10^{-2} 1.9×10^{-2} 3.3×10^{-2}	
		SWR (1 ~ ∞) 10 Hz ~ 2 GHz (2 ~ 20) GHz (20 ~ 40) GHz (40 ~ 50) GHz (50 ~ 67) GHz	9.5×10^{-3} 1.9×10^{-2} 3.1×10^{-2} 3.9×10^{-2} 6.7×10^{-2}	

406. Radio frequency measurement

Measured Quantity Instrument or Gauge	Field Code	Range	Measurement uncertainty (The Confidence Level is about 95 %)	Standard/Method of Measurement etc.
Coaxial attenuators	40602	(10 Hz ~ 1 kHz)		Power Sensor, Directional Coupler/ SICT-CP-40602
Attenuation		(0 ~ 40) dB	0.063 dB	
		(40 ~ 50) dB	0.070 dB	
		(50 ~ 70) dB	0.12 dB	
		(1 kHz ~ 9 kHz)		
		(0 ~ 40) dB	0.063 dB	
		(40 ~ 50) dB	0.068 dB	
		(50 ~ 70) dB	0.11 dB	
		(9 kHz ~ 26.5 GHz)		
		(0 ~ 10) dB	0.064 dB	
		(10 ~ 30) dB	0.069 dB	
		(30 ~ 40) dB	0.073 dB	
		(40 ~ 50) dB	0.076 dB	
		(50 ~ 60) dB	0.081dB	
		(60 ~ 70) dB	0.085 dB	
		(70 ~ 80) dB	0.090 dB	
		(80 ~ 90) dB	0.095 dB	
		(90 ~ 110) dB	0.11 dB	
		(110 ~ 120) dB	0.12 dB	
		(26.5 ~ 45) GHz		
		(0 ~ 20) dB	0.22 dB	
		(20 ~ 70) dB	0.25 dB	
		(45 ~ 67) GHz		
		(0 ~ 10) dB	0.23 dB	
		(10 ~ 50) dB	0.26 dB	
		(50 ~ 60) dB	0.27 dB	
		(60 ~ 70) dB	0.32 dB	
Reflection coefficient		(0 ~ 1)		
		10 Hz ~ 2 GHz	0.004 7	
		(2 ~ 20) GHz	0.009 2	
		(20 ~ 40) GHz	0.015	
		(40 ~ 50) GHz	0.019	
		(50 ~ 67) GHz	0.033	
SWR		(1 ~ ∞)		
		10 Hz ~ 2 GHz	0.009 5	
		(2 ~ 20) GHz	0.019	
		(20 ~ 40) GHz	0.031	
		(40 ~ 50) GHz	0.039	
		(50 ~ 67) GHz	0.067	

406. Radio frequency measurement

Measured Quantity Instrument or Gauge	Field Code	Range	Measurement uncertainty (The Confidence Level is about 95 %)	Standard/Method of Measurement etc.
Burst pulse generators	40605	50 Ω ($\pm$)		Digital Oscilloscope/ SICT-CP-40605
Burst Volatage		5 V	2.0×10^{-2}	
		(5 ~ 100) V	1.6×10^{-2}	
		(0.1 ~ 8) kV	2.0×10^{-2}	
		1 k Ω ($\pm$)		
		5 V	4.0×10^{-2}	
		5 V ~ 8 kV	3.9×10^{-2}	
Rise/Fall Time		1 ns	2.0×10^{-2}	
		(1 ~ 2) ns	6.8×10^{-3}	
		(2 ~ 4) ns	2.6×10^{-3}	
		4 ns ~ 1 μ s	1.5×10^{-3}	
		(1 ~ 2) μ s	6.2×10^{-3}	
		(2 ~ 4) μ s	2.6×10^{-3}	
		(4 ~ 10) μ s	1.3×10^{-3}	
Pulse Width	40606	1 ns	6.0×10^{-3}	Verification Kit/ SICT-CP-40606
		(1 ~ 2) ns	3.1×10^{-3}	
		2 ns ~ 200 ms	1.5×10^{-3}	
Time measurement by section		1 ns	6.0×10^{-3}	
		(1 ~ 2) ns	3.1×10^{-3}	
		2 ns ~ 400 ms	1.5×10^{-3}	
		400 ms ~ 10 s	1.2×10^{-3}	
Repeat Frequency		1 Hz ~ 25 MHz	1.6×10^{-3}	
Attenuator calibrators	40607	(0 ~ 10) dB	0.024 dB	Digital Multimeter/ SICT-CP-40607
Attenuation		(10 ~ 20) dB	0.025 dB	
		(20 ~ 30) dB	0.027 dB	
		(30 ~ 40) dB	0.029 dB	
		(40 ~ 50) dB	0.032 dB	
		(50 ~ 60) dB	0.034 dB	
		(60 ~ 70) dB	0.037 dB	
		(70 ~ 80) dB	0.040 dB	
		(80 ~ 90) dB	0.043 dB	
		(90 ~ 100) dB	0.046 dB	
		(100 ~ 110) dB	0.049 dB	
		(110 ~ 120) dB	0.053 dB	
RF power meter calibrators	40607	3 μ W	0.1 nW	Digital Multimeter/ SICT-CP-40607
Output Power		10 μ W	0.2 nW	
		30 μ W	0.5 nW	
		100 μ W	1 nW	
		300 μ W	4 nW	
		1 mW	0.18 μ W	
		3 mW	0.19 μ W	
		10 mW	0.2 μ W	
		30 mW	0.3 μ W	
		100 mW	1 μ W	

406. Radio frequency measurement

Measured Quantity Instrument or Gauge	Field Code	Range	Measurement uncertainty (The Confidence Level is about 95 %)	Standard/Method of Measurement etc.
EMC transducers ; current probes, absorbing clamps, etc. Transfer Impedance Insertion Loss Electric Magnetic Near-Field Reflection coefficient SWR	40608	10 Hz ~ 50 MHz (50 ~ 200) MHz 200 MHz ~ 3 GHz 30 MHz ~ 1 GHz 100 kHz ~ 1 GHz (0 ~ 1) 10 Hz ~ 1 GHz (1 ~ 3) GHz (1 ~ ∞) 10 Hz ~ 1 GHz (1 ~ 3) GHz	0.60 dB 1.1 dB 1.9 dB 1.9 dB 1.9 dB 4.2×10^{-3} 6.0×10^{-3} 9.0×10^{-3} 1.3×10^{-2}	Power Senso, Network analyzer/ SICT-CP-40608
Coaxial directional couplers/ splitters Coupling Factor	40610	(10 Hz ~ 10 kHz) (0 ~ 40) dB (40 ~ 50) dB (50 ~ 70) dB (10 kHz ~ 100 kHz) (0 ~ 30) dB (30 ~ 50) dB (50 ~ 70) dB (100 kHz ~ 15 GHz) (0 ~ 40) dB (40 ~ 50) dB (50 ~ 70) dB (15 GHz ~ 18 GHz) (0 ~ 70) dB (18 GHz ~ 26.5 GHz) (0 ~ 70) dB (26.5 GHz ~ 45 GHz) (0 ~ 20) dB (20 ~ 70) dB (45 GHz ~ 67 GHz) (0 ~ 10) dB (10 ~ 50) dB (50 ~ 60) dB (60 ~ 70) dB	0.063 dB 0.070 dB 0.12 dB 0.064 dB 0.087 dB 0.098 dB 0.092 dB 0.095 dB 0.11 dB 0.12 dB 0.17 dB 0.22 dB 0.25 dB 0.23 dB 0.25 dB 0.27 dB 0.32 dB	Power Sensor, Synthesized Sweeper/ SICT-CP-40610

406. Radio frequency measurement

Measured Quantity Instrument or Gauge	Field Code	Range	Measurement uncertainty (The Confidence Level is about 95 %)	Standard/Method of Measurement etc.
Coaxial directional couplers/ splitters	40610	(0 ~ 1) 10 Hz ~ 2 GHz (2 ~ 20) GHz (20 ~ 40) GHz (40 ~ 50) GHz (50 ~ 67) GHz	0.004 7 0.009 2 0.015 0.019 0.033	Power Sensor, Synthesized Sweeper/
Reflection coefficient				
SWR		(1 ~ ∞) 10 Hz ~ 2 GHz (2 ~ 20) GHz (20 ~ 40) GHz (40 ~ 50) GHz (50 ~ 67) GHz	0.009 5 0.019 0.031 0.039 0.067	
Electrostatic discharge generators	40613	(±) (3.75 ~ 7.5) A (7.5 ~ 15) A (15 ~ 22.5) A (22.5 ~ 30.0) A (30.0 ~ 67.5) A (67.5 ~ 93.8) A (93.8 ~ 150) A	5.0×10^{-2} 5.2×10^{-2} 4.5×10^{-2} 5.1×10^{-2} 5.3×10^{-2} 4.5×10^{-2} 5.9×10^{-2}	Digital Oscilloscope/ SICT-CP-40613
Peak Current(Ip)				
Current I1 (30 ~ 60) ns		(±) 2 A (2 ~ 8) A (8 ~ 16) A (16 ~ 36) A (36 ~ 50) A (50 ~ 80) A	4.4×10^{-2} 5.3×10^{-2} 4.9×10^{-2} 5.0×10^{-2} 4.4×10^{-2} 5.8×10^{-2}	
Current I2 (60 ~ 130) ns		(±) 1 A (1 ~ 2) A (2 ~ 6) A (6 ~ 8) A (8 ~ 15) A (15 ~ 18) A (18 ~ 25) A (25 ~ 40) A	5.1×10^{-2} 5.5×10^{-2} 6.0×10^{-2} 5.5×10^{-2} 6.6×10^{-2} 5.4×10^{-2} 4.9×10^{-2} 6.9×10^{-2}	
Current I3 (360 ~ 800) ns		(±) 0.275 A (0.275 ~ 4.13) A (4.13 ~ 4.95) A (4.95 ~ 6.88) A (6.88 ~ 8.25) A (8.25 ~ 11) A	1.5×10^{-1} 2.2×10^{-1} 1.6×10^{-1} 1.4×10^{-1} 2.7×10^{-1} 2.1×10^{-1}	

406. Radio frequency measurement

Measured Quantity Instrument or Gauge	Field Code	Range	Measurement uncertainty (The Confidence Level is about 95 %)	Standard/Method of Measurement etc.
Electrostatic discharge generators Current I4 (30 ~ 65) ns	40613	(±) 0.15 A (0.15 ~ 0.3) A (0.3 ~ 0.9) A (0.9 ~ 1.2) A (1.2 ~ 2.7) A (2.7 ~ 3.75) A (3.75 ~ 4.5) A (4.5 ~ 6) A	1.6×10^{-1} 2.0×10^{-1} 2.9×10^{-1} 2.6×10^{-1} 2.9×10^{-1} 1.6×10^{-1} 2.5×10^{-1} 2.2×10^{-1}	Digital Oscilloscope/ SICT-CP-40613
Semiconductor Peak Current HBM		(±) 20 mA (20 ~ 83.3) mA (0.083 3 ~ 1.33) A (1.33 ~ 6.66) A	2.9×10^{-2} 3.1×10^{-2} 3.6×10^{-2} 2.7×10^{-2}	
Semiconductor Peak Current MM		(±) 0.219 A (0.219 ~ 14) A (14 ~ 35) A	3.5×10^{-2} 3.5×10^{-2} 3.0×10^{-2}	
Time		0.1 ns 0.1 ns ~ 1 ms	2.7×10^{-2} 2.4×10^{-2}	
Peak Voltage		(±) 1 kV (1 ~ 6) kV (6 ~ 35) kV	4.1×10^{-2} 3.2×10^{-2} 2.9×10^{-2}	
EMC receivers	40614	100 kHz ~ 100 MHz	6.1×10^{-10}	Network Analyzer, Pulse Generator/ SICT-CP-40614
Reference accuracy				
Reflection coefficient		(0 ~ 1) 9 kHz ~ 2 GHz (2 ~ 20) GHz (20 ~ 40) GHz (40 ~ 50) GHz	 0.004 6 0.009 2 0.015 0.018	
SWR		(1 ~ ∞) 9 kHz ~ 2 GHz (2 ~ 20) GHz (20 ~ 40) GHz (40 ~ 50) GHz	 0.009 2 0.018 0.029 0.037	
Response to Sine-wave Voltage		10 Hz ~ 5 kHz 5 kHz ~ 2 GHz (2 ~ 18) GHz (18 ~ 26.5) GHz (26.5 ~ 40) GHz (40 ~ 50) GHz	 0.01 dB 0.11 dB 0.15 dB 0.20 dB 0.26 dB 0.30 dB	
Variation with Repetition Frequency relative calibration		9 kHz ~ 1 GHz	0.88 dB	

406. Radio frequency measurement

Measured Quantity Instrument or Gauge	Field Code	Range	Measurement uncertainty (The Confidence Level is about 95 %)	Standard/Method of Measurement etc.
EMC receivers	40614			Network Analyzer, Pulse Generator/ SICT-CP-40614
Amplitude relationship absolute calibration		9 kHz ~ 1 GHz	0.88 dB	
Overall pass-band selectivity		9 kHz ~ 1 GHz	0.14 dB	
Intermediate frequency rejection ratio		9 kHz ~ 40 GHz	0.14 dB	
Image frequency rejection ratio		9 kHz ~ 40 GHz	0.14 dB	
Other spurious responses		9 kHz ~ 40 GHz	0.14 dB	
Random Noise		DC ~ 40 GHz	0.32 dB	
IF bandwidth accuracy		(-6 dB) 1 Hz ~ 20 MHz	3.0×10^{-3}	
		(-60 dB) 1 Hz ~ 20 MHz	3.3×10^{-4}	
IF bandwidth selectivity		1 Hz ~ 20 MHz	3.0×10^{-3}	
RF filters	40615			Network Analyzer/ SICT-CP-40615
Reject Frequency		(9 ~ 90) kHz	0.024 kHz	
		(90 ~ 900) kHz	0.24 kHz	
		900 kHz ~ 900 MHz	0.025 MHz	
		900 MHz ~ 18 GHz	0.068 MHz	
		(18 ~ 50) GHz	0.12 MHz	
Insertion Loss		(9 kHz ~ 8 GHz)		
		(0 ~ 10) dB	0.13 dB	
		(10 ~ 20) dB	0.14 dB	
		(20 ~ 40) dB	0.15 dB	
		(40 ~ 50) dB	0.16 dB	
		(50 ~ 60) dB	0.18 dB	
		(60 ~ 70) dB	0.23 dB	
		(70 ~ 80) dB	0.66 dB	
		(80 ~ 90) dB	1.7 dB	
		(90 ~ 100) dB	4.3 dB	
		(8 ~ 18) GHz		
		(0 ~ 10) dB	0.23 dB	
		(10 ~ 30) dB	0.24 dB	
		(30 ~ 50) dB	0.25 dB	
		(50 ~ 60) dB	0.26 dB	
		(60 ~ 70) dB	0.31 dB	
		(70 ~ 80) dB	0.73 dB	
		(80 ~ 90) dB	1.7 dB	
		(90 ~ 100) dB	4.3 dB	
		(18 ~ 50) GHz		
		(0 ~ 10) dB	0.48 dB	
		(10 ~ 20) dB	0.51 dB	
		(20 ~ 30) dB	0.52 dB	
		(20 ~ 40) dB	0.53 dB	
		(40 ~ 50) dB	0.54 dB	
		(50 ~ 60) dB	0.59 dB	
		(60 ~ 70) dB	0.78 dB	
		(70 ~ 80) dB	1.6 dB	
		(80 ~ 90) dB	2.8 dB	
		(90 ~ 100) dB	6.0 dB	

406. Radio frequency measurement

Measured Quantity Instrument or Gauge	Field Code	Range	Measurement uncertainty (The Confidence Level is about 95 %)	Standard/Method of Measurement etc.
RF impedance meters RF Level	40616	(100 kHz ~ 18 GHz) (35 ~ 20) dBm	0.15 dB	Performance Kit/ SICT-CP-40616
Frequency		(20 Hz ~ 18 GHz) (20 ~ -60) dBm (-60 ~ -70) dBm	0.13 dB 0.15 dB	
Load Measurement		9 kHz ~ 0.1 MHz 0.1 MHz ~ 18 GHz	6.8×10^{-10} 6.2×10^{-11}	
		9 kHz ~ 500 MHz 500 MHz ~ 1 GHz (1 ~ 3.0) GHz (3.0 ~ 18) GHz	0.40 Ω 0.34 Ω 0.40 Ω 1.1 Ω	
RF impulse generators Pulse Level	40617	9 kHz ~ 1 GHz	0.35 dB	Digital Oscilloscope/ SICT-CP-40617
Line impedance stabilization networks; LISN, CDN, ISN, etc.	40618			Impedance/Gain-Phase Analyzer, Calibration Kit/ SICT-CP-40618
Impedance		9 kHz ~ 1 GHz	2.0×10^{-2}	
Phase		9 kHz ~ 1 GHz	1.2°	
Insertion Loss		9 kHz ~ 30 MHz 30 MHz ~ 1 GHz	0.08 dB 0.09 dB	
Decoupling Attenuation Isolation		(0 ~ 20) dB 9 kHz ~ 1 GHz	0.13 dB	
		(20 ~ 50) dB 9 kHz ~ 1 GHz	0.18 dB	
		(50 ~ 60) dB 9 kHz ~ 1 GHz	0.22 dB	
		(60 ~ 70) dB 9 kHz ~ 1 MHz 1 MHz ~ 1 GHz	0.33 dB 0.29 dB	
Decoupling Attenuation Isolation		(70 ~ 80) dB 9 kHz ~ 1 MHz 1 MHz ~ 1 GHz	0.70 dB 0.48 dB	
		(80 ~ 90) dB 9 kHz ~ 1 MHz 1 MHz ~ 1 GHz	1.8 dB 1.0 dB	
		(90 ~ 100) dB 9 kHz ~ 1 MHz 1 MHz ~ 1 GHz	4.5 dB 2.5 dB	

406. Radio frequency measurement

Measured Quantity Instrument or Gauge	Field Code	Range	Measurement uncertainty (The Confidence Level is about 95 %)	Standard/Method of Measurement etc.
Line impedance stabilization networks; LISN, CDN, ISN, etc. (Coupling Decoupling network) Impedance Insertion loss Reflection coefficient SWR	40618	9 kHz ~ 1 GHz 9 kHz ~ 1 GHz (0 ~ 1) 9 kHz ~ 1 GHz (1 ~ ∞) 9 kHz ~ 1 GHz	 2.0 × 10 ⁻² 0.11 dB 0.004 6 0.009 2	Impedance/Gain-Phase Analyzer, Calibration Kit/ SICT-CP-40618
Coaxial standard mismatches (Coaxial standard mismatches) Reflection coefficient SWR (Calibration kit) Magnitude of reflection coefficient (Calibration kit) Magnitude of reflection coefficient SWR	40619	 (0 ~ 1) 10 Hz ~ 2 GHz (2 ~ 20) GHz (20 ~ 40) GHz (40 ~ 50) GHz (50 ~ 67) GHz (1 ~ ∞) 10 Hz ~ 2 GHz (2 ~ 20) GHz (20 ~ 40) GHz (40 ~ 50) GHz (50 ~ 67) GHz (Termination) 9 kHz ~ 2 GHz (2 ~ 20) GHz (20 ~ 40) GHz (40 ~ 50) GHz (50 ~ 67) GHz (Short, Open circuit) 9 kHz ~ 45 MHz 45 MHz ~ 2 GHz (2 ~ 20) GHz (20 ~ 40) GHz (40 ~ 50) GHz (50 ~ 67) GHz (1 ~ 1.01) 9 kHz ~ 2 GHz (2 ~ 20) GHz (20 ~ 40) GHz (40 ~ 50) GHz (50 ~ 67) GHz	 0.004 7 0.009 2 0.015 0.019 0.033 0.009 5 0.019 0.031 0.039 0.067 0.004 7 0.009 2 0.015 0.019 0.033 0.020 0.016 0.026 0.044 0.056 0.066 0.009 5 0.019 0.031 0.039 0.067	Network Analyzer, Calibration Kit/ SICT-CP-40619-1 SICT-CP-40619-2

406. Radio frequency measurement

Measured Quantity Instrument or Gauge	Field Code	Range	Measurement uncertainty (The Confidence Level is about 95 %)	Standard/Method of Measurement etc.
Coaxial standard mismatches	40619	(1.01 ~ 1.05) 9 kHz ~ 2 GHz (2 ~ 20) GHz (20 ~ 40) GHz (40 ~ 50) GHz (50 ~ 67) GHz	0.011 0.020 0.032 0.040 0.070	Network Analyzer, Calibration Kit/ SICT-CP-40619-1
SWR		(1.05 ~ 1.2) 9 kHz ~ 45 MHz 45 MHz ~ 2 GHz (2 ~ 20) GHz (20 ~ 40) GHz (40 ~ 50) GHz (50 ~ 67) GHz	0.015 0.014 0.024 0.039 0.049 0.083	
		(1.2 ~ 1.5) 9 kHz ~ 45 MHz 45 MHz ~ 2 GHz (2 ~ 20) GHz (20 ~ 40) GHz (40 ~ 50) GHz (50 ~ 67) GHz	0.023 0.021 0.035 0.054 0.066 0.12	
		(1.5 ~ 2) 9 kHz ~ 45 MHz 45 MHz ~ 2 GHz (2 ~ 20) GHz (20 ~ 40) GHz (40 ~ 50) GHz (50 ~ 67) GHz	0.040 0.036 0.055 0.086 0.11 0.18	
		(2 ~ 3) 9 kHz ~ 45 MHz 45 MHz ~ 2 GHz (2 ~ 20) GHz (20 ~ 40) GHz (40 ~ 50) GHz (50 ~ 67) GHz	0.096 0.076 0.12 0.20 0.24 0.35	
		(3 ~ 9) 9 kHz ~ 45 MHz 45 MHz ~ 2 GHz (2 ~ 20) GHz (20 ~ 40) GHz (40 ~ 50) GHz (50 ~ 67) GHz	0.80 0.70 1.1 1.8 2.2 2.8	
Phase of reflection coefficient		(Termination) 9 kHz ~ 67 GHz	180°	
		(Short, Open circuit) 9 kHz ~ 45 MHz 45 MHz ~ 2 GHz (2 ~ 20) GHz (20 ~ 40) GHz (40 ~ 50) GHz (50 ~ 67) GHz	1.2° 0.87° 1.5° 2.6° 3.2° 3.8°	

406. Radio frequency measurement

Measured Quantity Instrument or Gauge	Field Code	Range	Measurement uncertainty (The Confidence Level is about 95 %)	Standard/Method of Measurement etc.
Mobile communication test sets	40621			Measuring Receiver, RF Signal Generator/ SICT-CP-40621
Frequency Modulation		CW : 100 kHz ~ 50 GHz Rate : 10 Hz ~ 100 kHz 0.1 Hz ~ 5 MHz	1.2×10^{-2}	
Amplitude Modulation		CW : 100 kHz ~ 50 GHz Rate : 10 Hz ~ 100 kHz (0.1 ~ 100) %	1.2×10^{-2}	
Phase Modulation		CW : 100 kHz ~ 50 GHz Rate : 10 Hz ~ 100 kHz (0.1 ~ 1 000) rad	1.2×10^{-2}	
Distortion Harmonics of Modulation Rate Signal		(0 ~ 20) %	2.4×10^{-2}	
RF Output Level (High range level)		(35 ~ 20) dBm 100 kHz ~ 8 GHz (8 ~ 10) GHz (10 ~ 12) GHz (12 ~ 18) GHz	0.10 dB 0.12 dB 0.14 dB 0.15 dB	
		(20 ~ -30) dBm 9 kHz ~ 1 GHz (1 ~ 14) GHz (14 ~ 18) GHz (18 ~ 28) GHz (28 ~ 38) GHz (38 ~ 46) GHz (46 ~ 50) GHz	0.06 dB 0.07 dB 0.08 dB 0.10 dB 0.12 dB 0.13 dB 0.18 dB	
RF Output Level (High range level)		(-30 ~ -60) dBm 9 kHz ~ 1 GHz (1 ~ 14) GHz (14 ~ 18) GHz (18 ~ 30) GHz (30 ~ 38) GHz (38 ~ 46) GHz (46 ~ 50) GHz	0.06 dB 0.07 dB 0.08 dB 0.11 dB 0.13 dB 0.19 dB 0.21 dB	
RF Output Level (Low range Absolute TRFL)		(9 kHz ~ 4.2 GHz) 30 dBm ~ 0 dBm 0 dBm ~ -40 dBm -40 dBm ~ -80 dBm -80 dBm ~ -120 dBm	0.14 dB 0.14 dB 0.16 dB 0.18 dB	
		(4.2 GHz ~ 8 GHz) 30 dBm ~ 0 dBm 0 dBm ~ -40 dBm -40 dBm ~ -80 dBm -80 dBm ~ -120 dBm	0.19 dB 0.17 dB 0.19 dB 0.21 dB	
		(8 GHz ~ 12.4 GHz) 30 dBm ~ 0 dBm 0 dBm ~ -40 dBm -40 dBm ~ -80 dBm -80 dBm ~ -120 dBm	0.21 dB 0.19 dB 0.21 dB 0.23 dB	

406. Radio frequency measurement

Measured Quantity Instrument or Gauge	Field Code	Range	Measurement uncertainty (The Confidence Level is about 95 %)	Standard/Method of Measurement etc.
Mobile communication test sets	40621			Measuring Receiver, RF Signal SICT-CP-40621
RF Output Level (Low range Absolute TRFL)		(12.4 GHz ~ 18 GHz) 30 dBm ~ 0 dBm 0 dBm ~ -40 dBm -40 dBm ~ -80 dBm -80 dBm ~ -120 dBm	0.21 dB 0.22 dB 0.24 dB 0.26 dB	
		(18 GHz ~ 26.5 GHz) 30 dBm ~ 0 dBm 0 dBm ~ -40 dBm -40 dBm ~ -80 dBm -80 dBm ~ -120 dBm	0.28 dB 0.29 dB 0.30 dB 0.32 dB	
Harmonic		(0 ~ -100) dBC	0.38 dB	
Frequency Output Accuracy		9 kHz ~ 50 GHz	6.1×10^{-10}	
AC Output Level		(10 Hz ~ 100 kHz) (1 ~ 10) mV (10 ~ 100) mV (0.1 ~ 10) V (10 ~ 100) V	2.6×10^{-3} 6.3×10^{-4} 6.5×10^{-4} 6.6×10^{-4}	
DC Output Level		(1 ~ 10) mV (10 ~ 100) mV (0.1 ~ 1) V (1 ~ 10) V (10 ~ 100) V	4.1×10^{-4} 4.1×10^{-5} 6.8×10^{-6} 3.6×10^{-6} 5.3×10^{-6}	
AC Input Level		(10 Hz ~ 100 kHz) (1 ~ 10) mV (10 ~ 100) mV (0.1 ~ 1) V (1 ~ 10) V (10 ~ 100) V	7.2×10^{-3} 1.9×10^{-3} 1.2×10^{-3} 4.0×10^{-4} 4.3×10^{-4}	
DC Input Level		(1 ~ 10) mV (10 ~ 100) mV (0.1 ~ 10) V (10 ~ 100) V	1.5×10^{-3} 1.5×10^{-4} 6.4×10^{-5} 8.0×10^{-5}	
RF Input Level		(9 kHz ~ 18 GHz) (10 ~ -70) dBm (18 ~ 50) GHz (10 ~ -70) dBm	0.14 dB 0.29 dB	
Reflection coefficient		(0 ~ 1) 9 kHz ~ 2 GHz (2 ~ 20) GHz (20 ~ 40) GHz (40 ~ 50) GHz	 0.004 6 0.009 2 0.015 0.018	
SWR		(1 ~ ∞) 9 kHz ~ 2 GHz (2 ~ 20) GHz (20 ~ 40) GHz (40 ~ 50) GHz	 0.009 2 0.018 0.029 0.037	

406. Radio frequency measurement

Measured Quantity Instrument or Gauge	Field Code	Range	Measurement uncertainty (The Confidence Level is about 95 %)	Standard/Method of Measurement etc.
Modulation meters	40622			Measuring Receiver/ SICT-CP-40622
Amplitude Modulation		0 kHz (0 ~ 400) kHz	1 Hz 1.2×10^{-2}	
Frequency Modulation		0 % (0 ~ 100) %	0.01 % 1.2×10^{-2}	
Phase Modulation		0 rad (0 ~ 400) rad	1.2 rad 1.2×10^{-2}	
Network analyzers	40623			Power Sensor, Verification Kit/ SICT-CP-40623
Frequency Output Accuracy		5 Hz ~ 60 GHz	6.1×10^{-10}	
RF Output Level Accuracy		(20 ~ -30) dBm		
		5 Hz ~ 100 Hz	0.01 dB	
		100 Hz ~ 1 GHz	0.06 dB	
		(1 ~ 13) GHz	0.07 dB	
		(13 ~ 18) GHz	0.08 dB	
		(18 ~ 26.5) GHz	0.10 dB	
		(26.5 ~ 30) GHz	0.11 dB	
		(30 ~ 45) GHz	0.15 dB	
		(45 ~ 55) GHz	0.23 dB	
		(55 ~ 75) GHz	0.30 dB	
		(75 ~ 100) GHz	0.35 dB	
		(100 ~ 110) GHz	0.40 dB	
		(-30 ~ -60) dBm		
		9 kHz ~ 1 GHz	0.06 dB	
		(1 ~ 18) GHz	0.07 dB	
		(18 ~ 26.5) GHz	0.10 dB	
		(26.5 ~ 30) GHz	0.11 dB	
		(30 ~ 40) GHz	0.15 dB	
		(40 ~ 50) GHz	0.21 dB	
Dynamic Accuracy		(100 kHz ~ 18 GHz)		
		(0 ~ 10) dB	0.091 dB	
		(10 ~ 20) dB	0.093 dB	
		(20 ~ 40) dB	0.095 dB	
		(40 ~ 60) dB	0.12 dB	
		(60 ~ 80) dB	0.14 dB	
		(80 ~ 90) dB	0.15 dB	
		(90 ~ 100) dB	0.16 dB	
Attenuation Accuracy		(20 dB)		
		300 kHz ~ 45 MHz	0.051 dB	
		45 MHz ~ 2 GHz	0.053 dB	
		(2 ~ 7.5) GHz	0.056 dB	
		(7.5 ~ 26.5) GHz	0.057 dB	
		(40 dB)		
		300 kHz ~ 45 MHz	0.055 dB	
		45 MHz ~ 6 GHz	0.060 dB	
		(6 ~ 15) GHz	0.064 dB	
		(15 ~ 26.5) GHz	0.065 dB	

406. Radio frequency measurement

Measured Quantity Instrument or Gauge	Field Code	Range	Measurement uncertainty (The Confidence Level is about 95 %)	Standard/Method of Measurement etc.
Network analyzers	40623	($\pm 180^\circ$) 300 kHz ~ 45 MHz 45 MHz ~ 9.0 GHz (9.0 ~ 15.0) GHz (15.0 ~ 20.0) GHz (20.0 ~ 26.5) GHz	0.31° 0.26° 0.28° 0.35° 0.42°	Power Sensor, Verification Kit/ SICT-CP-40623
VSWR		(30 kHz ~ 2 GHz) 1.05 1.20 1.50 2.00 (2 ~ 18) GHz 1.05 1.20 1.50 2.00	0.012 0.012 0.013 0.019 0.019 0.019 0.019 0.023	
Noise figure meters	40624	10 MHz ~ 26.5 GHz	4.4×10^{-5}	Noise Source/ SICT-CP-40624
Tuning Accuracy		10 MHz	6.1×10^{-10}	
Referency frequency		9 kHz ~ 1 GHz (1 ~ 20) GHz (20 ~ 26.5) GHz	0.009 1 0.021 0.033	
Input VSWR		(0 ~ 28) V	0.000 19 V	
DC voltage		(0 ~ 30) dB	0.083 dB	
Range		10 MHz ~ 7 GHz (7 ~ 18) GHz (18 ~ 26.5) GHz	0.27 dB 0.35 dB 0.54 dB	
Noise Figure				
Noise generators	40625	(-80 ~ -130) dBm/Hz	0.12 dB	Spectrum Analyzer/ SICT-CP-40625
Noise Power		(0 ~ 50) dB	0.25 dB	
Scale Fidelity				
Noise impulse simulators	40626	($\pm$) 0.1 kV (0.1 ~ 5) kV	4.0×10^{-2} 3.5×10^{-2}	Digital Oscilloscope/ SICT-CP-40626
Peak Voltage		1 ns (1 ~ 2) ns (2 ~ 4) ns	6.0×10^{-3} 3.1×10^{-3} 1.5×10^{-3}	
Rise/Fall Time		10 ns (10 ~ 1 000) ns	2.0×10^{-3} 1.5×10^{-3}	
Pulse Width				
RF phase noise meters	40627	(Carrier Frequency) 100 MHz ~ 18 GHz	1.0 dB	RF Signal analyzer/ SICT-CP-40627
RF phase noise		(Offset Frequency) 10 Hz ~ 100 MHz	1.0 dB	

406. Radio frequency measurement

Measured Quantity Instrument or Gauge	Field Code	Range	Measurement uncertainty (The Confidence Level is about 95 %)	Standard/Method of Measurement etc.	
Coaxial noise sources	ENR	40628	(4.5 ~ 16) dB (0.01 ~ 0.1) GHz (0.1 ~ 4) GHz (4 ~ 11) GHz (11 ~ 13) GHz (13 ~ 18) GHz (12 ~ 17) dB (0.01 ~ 2) GHz (2 ~ 7) GHz (7 ~ 12) GHz (12 ~ 18) GHz (18 ~ 26.5) GHz	0.23 dB 0.22 dB 0.23 dB 0.24 dB 0.25 dB 0.32 dB 0.34 dB 0.38 dB 0.41 dB 0.43 dB	Coaxial noise sources, Noise figure analyzer/ SICT-CP-40628
	SWR		(0 ~ 1) (0.01 ~ 2) GHz (2 ~ 20) GHz (20 ~ 26.5) GHz	0.004 6 0.009 2 0.015	
RF power meters	High power	40635	(0.1 ~ 500) W 10 kHz ~ 250 MHz	2.5×10^{-2}	Range Calibrator/ SICT-CP-40635
			(0.1 ~ 150) W (80 ~ 1 000) MHz	2.7×10^{-2}	
			(0.1 ~ 10) W (1 000 ~ 4 200) MHz	2.8×10^{-2}	
	Zero Carryover		(10 ~ 100) μW (0.1 ~ 1) mW (1 ~ 100) mW	3 nW 3 μW 0.01 mW	
	Power		3 μW ~ 100 mW	1.7×10^{-3}	
	Calibration Factor		(88 ~ 100) %	0.5×10^{-3}	
	Power Ref. Output		50 MHz, 1 mW	8 μW	
Diode power sensors	Calibration Factor	40636	(1 ~ 10) μW 9 kHz ~ 100 kHz 100 kHz ~ 10 GHz (10 ~ 18) GHz (18 ~ 26.5) GHz (26.5 ~ 40) GHz (40 ~ 50) GHz (10 μW ~ 10 mW) 9 kHz ~ 100 kHz 100 kHz ~ 10 GHz (10 ~ 18) GHz (18 ~ 26.5) GHz (26.5 ~ 40) GHz (40 ~ 50) GHz (50 ~ 67) GHz	7.0×10^{-3} 2.3×10^{-2} 2.4×10^{-2} 2.9×10^{-2} 3.9×10^{-2} 4.3×10^{-2} 4.0×10^{-3} 2.3×10^{-2} 2.4×10^{-2} 2.8×10^{-2} 3.0×10^{-2} 3.4×10^{-2} 3.1×10^{-2}	Therimistor Mount, Synthesized Sweeper/ SICT-CP-40636

406. Radio frequency measurement

Measured Quantity Instrument or Gauge	Field Code	Range	Measurement uncertainty (The Confidence Level is about 95 %)	Standard/Method of Measurement etc.
Diode power sensors Reflection coefficient	40636	(0 ~ 1) 9 kHz ~ 2 GHz (2 ~ 20) GHz (20 ~ 40) GHz (40 ~ 50) GHz (50 ~ 67) GHz	0.004 6 0.009 2 0.015 0.018 0.033	Therimistor Mount, Synthesized Sweeper/ SICT-CP-40636
SWR		(1 ~ ∞) 9 kHz ~ 2 GHz (2 ~ 20) GHz (20 ~ 40) GHz (40 ~ 50) GHz (50 ~ 67) GHz	0.009 2 0.018 0.029 0.037 0.065	
Thermocouple power sensors Calibration Factor	40637	(1 ~ 10) μW 9 kHz ~ 100 kHz 100 kHz ~ 10 GHz (10 ~ 18) GHz (18 ~ 26.5) GHz (26.5 ~ 40) GHz (40 ~ 50) GHz	7.0×10^{-3} 2.3×10^{-2} 2.4×10^{-2} 2.9×10^{-2} 3.9×10^{-2} 4.3×10^{-2}	Therimistor Mount, Synthesized Sweeper/ SICT-CP-40637
		(10 μW ~ 10 mW) 9 kHz ~ 100 kHz 100 kHz ~ 10 GHz (10 ~ 18) GHz (18 ~ 26.5) GHz (26.5 ~ 40) GHz (40 ~ 50) GHz (50 ~ 67) GHz	4.0×10^{-3} 2.3×10^{-2} 2.4×10^{-2} 2.8×10^{-2} 3.0×10^{-2} 3.4×10^{-2} 3.1×10^{-2}	
Reflection coefficient		(0 ~ 1) 9 kHz ~ 2 GHz (2 ~ 20) GHz (20 ~ 40) GHz (40 ~ 50) GHz (50 ~ 67) GHz	0.004 6 0.009 2 0.015 0.018 0.033	
SWR		(1 ~ ∞) 9 kHz ~ 2 GHz (2 ~ 20) GHz (20 ~ 40) GHz (40 ~ 50) GHz (50 ~ 67) GHz	0.009 2 0.018 0.029 0.037 0.065	

406. Radio frequency measurement

Measured Quantity Instrument or Gauge	Field Code	Range	Measurement uncertainty (The Confidence Level is about 95 %)	Standard/Method of Measurement etc.
Pulse generators	40638			Digital Oscilloscope/ SICT-CP-40638
Period		100 ps ~ 1 s	5.8×10^{-9}	
Frequency		1 Hz ~ 1 GHz (1 ~ 3.35) GHz	5.8×10^{-9} 1.7×10^{-8}	
Width		100 ps ~ 1 s	1.2×10^{-3}	
Delay Time		100 ps ~ 1 s	1.2×10^{-3}	
Double Pulse		100 ps ~ 1 s	1.2×10^{-3}	
Duty Cycle		(1 ~ 99) %	0.006 %	
DC Level		$\pm(10 \text{ mV} \sim 100 \text{ V})$	5.8×10^{-4}	
Output Level		(100 Hz ~ 10 kHz) (10 ~ -20) dBm	0.018 dB	
Radar test sets	40639			Signal Analyzer, SART Generator, EPIRB Generator/ SICT-CP-40639
(Ship) RF Level		(20 ~ -30) dBm 20 Hz ~ 1 GHz (1 ~ 14) GHz (14 ~ 18) GHz	0.06 dB 0.07 dB 0.08 dB	
		(-30 ~ -60) dBm 9 kHz ~ 1 GHz (1 ~ 14) GHz (14 ~ 18) GHz	0.06 dB 0.07 dB 0.08 dB	
		(-60 ~ -80) dBm 9 kHz ~ 4.2 GHz (4.2 ~ 8) GHz (8 ~ 12.4) GHz (12.4 ~ 18) GHz	0.16 dB 0.19 dB 0.21 dB 0.24 dB	
		(-80 ~ -120) dBm 9 kHz ~ 4.2 GHz (4.2 ~ 8) GHz (8 ~ 12.4) GHz (12.4 ~ 18) GHz	0.18 dB 0.21 dB 0.23 dB 0.26 dB	
Amplitude Modulation		CW 100 kHz ~18 GHz rate 10 Hz ~ 100 kHz (0.1 ~ 100) %	1.2×10^{-2}	
Frequency Modulation		CW 100 kHz ~18 GHz rate 10 Hz ~ 100 kHz (0.1 ~ 400) kHz	1.2×10^{-2}	
Phase Modulation		CW 100 kHz ~18 GHz rate 10 Hz ~ 100 kHz (0.1 ~ 400) rad	1.2×10^{-2}	

406. Radio frequency measurement

Measured Quantity Instrument or Gauge	Field Code	Range	Measurement uncertainty (The Confidence Level is about 95 %)	Standard/Method of Measurement etc.
Radar test sets	40639			Signal Analyzer, SART Generator, EPIRB Generator/ SICT-CP-40639
Distortion of Modulation		(0 ~ 2) %	2.4×10^{-2}	
Hamonics		(9 kHz ~ 18 GHz) (-10 ~ -110) dBc	0.38 dB	
Frequency		5 kHz ~ 18 GHz	6.1×10^{-10}	
Pulse Period		1 ns ~ 10 ms	1.1×10^{-2}	
High power		(0.1 ~ 500) W 10 kHz ~ 250 MHz	2.5×10^{-2}	
		(0.1 ~ 150) W (80 ~ 1 000) MHz	2.7×10^{-2}	
		(0.1 ~ 10) W (1 000 ~ 4 200) MHz	2.8×10^{-2}	
(flight) Frequency(VOR/ILS/DME)		(74.6 ~ 1 150) MHz	8.2×10^{-8}	
Amplitude Modulation(VOR/ILS)		Localizer (108.1 ~ 111.95) MHz (0.1 ~ 20) %	0.62 %	
		Glideslope (330.95 ~ 334.70) MHz (20 ~ 40) %	0.84 %	
		Marker Beacon (74.6 ~ 75.4) MHz (40 ~ 95) %	1.4 %	
		VOR (108 ~ 117.95) MHz (0.1 ~ 30) %	0.62 %	
고주파 레벨(VOR/ILS)		Localizer (108.1 ~ 111.95) MHz (10 ~ -30) dBm (-30 ~ -50) dBm (-50 ~ -70) dBm (-70 ~ -100) dBm (-100 ~ -120) dBm	0.19 dB 0.23 dB 0.24 dB 0.34 dB 0.35 dB	
		Glideslope (330.95 ~ 334.70) MHz (10 ~ -30) dBm (-30 ~ -50) dBm (-50 ~ -70) dBm (-70 ~ -100) dBm (-100 ~ -120) dBm	0.19 dB 0.23 dB 0.24 dB 0.34 dB 0.35 dB	

406. Radio frequency measurement

Measured Quantity Instrument or Gauge	Field Code	Range	Measurement uncertainty (The Confidence Level is about 95 %)	Standard/Method of Measurement etc.
Radar test sets DDM(VOR/ILS)	40639	Localizer (108.1 ~ 111.95) MHz -0.200 -0.155 -0.093 CENTER(0.000) 0.093 0.155 0.200 Glideslope (330.95 ~ 334.70) MHz 0.400 0.175 0.091 CENTER(0.000) -0.091 -0.175 -0.400	0.006 0 0.004 6 0.002 8 0.000 4 0.002 8 0.004 7 0.006 0 0.012 0.005 2 0.002 7 0.000 4 0.002 7 0.005 2 0.012	Signal Analyzer, SART Generator, EPIRB Generator/ SICT-CP-40639
SDM(VOR/ILS)		Localizer (108.1 ~ 111.95) MHz (0 ~ 40) % Glideslope (330.95 ~ 334.70) MHz (40 ~ 80) %	0.87 % 1.2 %	
BEARING ANGLE(VOR)		VOR (108 ~ 117.95) MHz (0 ~ 360)°	0.04°	
RF signal generators Frequency Modulation	40640	CW : 100 kHz ~ 50 GHz Rate : 10 Hz ~ 100 kHz 0.1 Hz ~ 5 MHz	1.2×10^{-2}	Measuring Receiver/ SICT-CP-40640
Amplitude Modulation		CW : 100 kHz ~ 50 GHz Rate : 10 Hz ~ 100 kHz (0.1 ~ 100) %	1.2×10^{-2}	
Phase Modulation		CW : 100 kHz ~ 50 GHz Rate : 10 Hz ~ 100 kHz (0.1 ~ 1 000) rad	1.2×10^{-2}	
Distortion Harmonics of Modulation Rate Signal		(0 ~ 20) %	2.4×10^{-2}	
RF Output Level (High range level)		(57 ~ 54) dBm 100 kHz ~ 500 MHz (54 ~ 51) dBm 100 kHz ~ 500 MHz 500 MHz ~ 2 GHz	0.14 dB 0.13 dB 0.18 dB	

406. Radio frequency measurement

Measured Quantity Instrument or Gauge	Field Code	Range	Measurement uncertainty (The Confidence Level is about 95 %)	Standard/Method of Measurement etc.
RF signal generators	40640			Measuring Receiver/ SICT-CP-40640
RF Output Level (High range level)		(51 ~ 35) dBm		
		100 kHz ~ 8 GHz	0.14 dB	
		(8 ~ 10) GHz	0.15 dB	
		(10 ~ 12) GHz	0.16 dB	
		(12 ~ 18) GHz	0.17 dB	
		(35 ~ 20) dBm		
		100 kHz ~ 8 GHz	0.10 dB	
		(8 ~ 10) GHz	0.11 dB	
		(10 ~ 12) GHz	0.13 dB	
		(12 ~ 18) GHz	0.14 dB	
		(20 ~ -30) dBm		
		20 Hz ~ 1 GHz	0.06 dB	
		(1 ~ 18) GHz	0.08 dB	
		(18 ~ 28) GHz	0.10 dB	
		(28 ~ 38) GHz	0.11 dB	
		(38 ~ 48) GHz	0.14 dB	
		(48 ~ 50) GHz	0.18 dB	
		(50 ~ 55) GHz	0.25 dB	
		(55 ~ 75) GHz	0.30 dB	
		(75 ~ 100) GHz	0.36 dB	
		(100 ~ 110) GHz	0.40 dB	
		(-30 ~ -60) dBm		
		20 Hz ~ 1 GHz	0.06 dB	
		(1 ~ 11) GHz	0.07 dB	
		(11 ~ 18) GHz	0.08 dB	
		(18 ~ 26.5) GHz	0.10 dB	
		(26.5 ~ 32) GHz	0.12 dB	
		(32 ~ 40) GHz	0.14 dB	
		(40 ~ 48) GHz	0.16 dB	
		(48 ~ 55) GHz	0.25 dB	
		(55 ~ 75) GHz	0.30 dB	
		(75 ~ 100) GHz	0.36 dB	
		(100 ~ 110) GHz	0.40 dB	
		-60 dBm		
		9 kHz ~ 11 GHz	0.07 dB	
		(11 ~ 18) GHz	0.08 dB	
		(18 ~ 26.5) GHz	0.11 dB	
		(26.5 ~ 28) GHz	0.12 dB	
		(28 ~ 35) GHz	0.13 dB	
		(35 ~ 40) GHz	0.15 dB	
		(40 ~ 45) GHz	0.19 dB	
		(45 ~ 50) GHz	0.21 dB	

406. Radio frequency measurement

Measured Quantity Instrument or Gauge	Field Code	Range	Measurement uncertainty (The Confidence Level is about 95 %)	Standard/Method of Measurement etc.
RF signal generators RF Output Level (Low range Absolute TRFL)	40640	(9 kHz ~ 4.2 GHz) 30 dBm ~ 0 dBm 0 dBm ~ -40 dBm -40 dBm ~ -80 dBm -80 dBm ~ -120 dBm	0.14 dB 0.14 dB 0.16 dB 0.18 dB	Measuring Receiver/ SICT-CP-40640
		(4.2 GHz ~ 8 GHz) 30 dBm ~ 0 dBm 0 dBm ~ -40 dBm -40 dBm ~ -80 dBm -80 dBm ~ -120 dBm	0.19 dB 0.17 dB 0.19 dB 0.21 dB	
RF Output Level (Low range Absolute TRFL)		(8 GHz ~ 12.4 GHz) 30 dBm ~ 0 dBm 0 dBm ~ -40 dBm -40 dBm ~ -80 dBm -80 dBm ~ -120 dBm	0.21 dB 0.19 dB 0.21 dB 0.23 dB	
		(12.4 GHz ~ 18 GHz) 30 dBm ~ 0 dBm 0 dBm ~ -40 dBm -40 dBm ~ -80 dBm -80 dBm ~ -120 dBm	0.22 dB 0.22 dB 0.24 dB 0.26 dB	
		(18 GHz ~ 26.5 GHz) 30 dBm ~ 0 dBm 0 dBm ~ -40 dBm -40 dBm ~ -80 dBm -80 dBm ~ -120 dBm	0.28 dB 0.29 dB 0.30 dB 0.32 dB	
Harmonic		(-10 ~ -110) dBc	0.38 dB	
Output Frequency		20 Hz ~ 60 GHz	6.1×10^{-10}	
Pulse Modulation		(100 kHz ~ 12 000 MHz) Period (1 μ s ~ 1 s) ton (100 ns ~ 1 000 μ s) PRR (1 Hz ~ 1 MHz)	2.0×10^{-3} 2.0×10^{-3} 2.0×10^{-3}	
RF spectrum analyzers	40641	3 Hz ~ 100 kHz 100 kHz ~ 10 MHz 10 MHz ~ 67 GHz	0.61 mHz 61 mHz 0.61 kHz	Power Sensor, Synthesized Sweeper/ SICT-CP-40641
Frequency count function accuracy		3 Hz ~ 100 kHz 100 kHz ~ 10 MHz 10 MHz ~ 67 GHz	0.61 mHz 61 mHz 0.61 kHz	
Frequency span accuracy		10 Hz ~ 10 kHz 10 kHz ~ 67 GHz	6.1×10^{-4} 6.1×10^{-5}	
Resolution bandwidth accuracy		1 Hz ~ 100 MHz	6.1×10^{-4}	
Resolution bandwidth selectivity		1 Hz ~ 100 MHz	3.2×10^{-3}	

406. Radio frequency measurement

Measured Quantity Instrument or Gauge	Field Code	Range	Measurement uncertainty (The Confidence Level is about 95 %)	Standard/Method of Measurement etc.
RF spectrum analyzers	40641			Power Sensor, Synthesized Sweeper/ SICT-CP-40641
Resolution bandwidth switching accuracy		1 Hz ~ 100 MHz	0.023 dB	
Scale switching accuracy		(1 ~ 10) dB	0.023 dB	
Scale fidelity accuracy		(0 ~ -10) dB	0.089 dB	
		(-10 ~ -30) dB	0.093 dB	
		(-30 ~ -40) dB	0.095 dB	
		(-40 ~ -50) dB	0.098 dB	
		(-50 ~ -60) dB	0.10 dB	
		(-60 ~ -70) dB	0.11 dB	
		(-70 ~ -90) dB	0.13 dB	
		(-90 ~ -100) dB	0.15 dB	
		Frequency response accuracy	(5 ~ 100) Hz	
100 Hz ~ 300 MHz			0.11 dB	
300 MHz ~ 17 GHz			0.12 dB	
(17 ~ 18) GHz			0.14 dB	
(18 ~ 19) GHz			0.16 dB	
(19 ~ 23) GHz			0.20 dB	
(23 ~ 27) GHz			0.22 dB	
(27 ~ 30) GHz			0.25 dB	
(30 ~ 45) GHz			0.26 dB	
(45 ~ 67) GHz			0.28 dB	
Average noise accuracy		DC ~ 50 GHz	0.15 dB	
Sideband noise accuracy		(-30 ~ 30) kHz	0.15 dB	
Calibrator output frequency accuracy		DC ~ 1 GHz	6.1×10^{-9}	
Calibrator output amplitude accuracy		(20 ~ -20) dBm	0.06 dB	
RF speed guns	40642			Signal Generator/ SICT-CP-40642
		5 m/s (5 ~ 3 000) m/s	0.01 m/s 0.01 m/s	
Surge generators	40643			Digital Oscilloscope/ SICT-CP-40643
(Surge generator)				
Surge Voltage		(±)		
		5 mV	3.2×10^{-2}	
		5 mV ~ 2 V	3.0×10^{-2}	
		(2 ~ 5) V	4.0×10^{-2}	
		5 V ~ 800 kV	3.7×10^{-2}	
Surge Current		(±)		
		5 A	3.3×10^{-2}	
		5 A ~ 200 kA	3.6×10^{-2}	
Rise/Fall Time		1 μs	1.7×10^{-3}	
		(1 ~ 4) μs	4.5×10^{-3}	
		4 μs ~ 10 s	2.0×10^{-3}	
Pulse Width		1 μs	1.2×10^{-3}	
		1 μs ~ 10 s	2.0×10^{-3}	

406. Radio frequency measurement

Measured Quantity Instrument or Gauge	Field Code	Range	Measurement uncertainty (The Confidence Level is about 95 %)	Standard/Method of Measurement etc.
Surge generators Time measurement by section Pulse Period Phase Shifting (Partial Discharge Calibrator) Charge Pulse Voltage	40643	1 ns (1 ~ 2) ns 2 ns ~ 10 s 1 Hz ~ 25 MHz at 50 Hz (0 ~ 360)° at 60 Hz (0 ~ 360)° (±) 5 mV 5 mV ~ 50 V	6.0×10^{-3} 3.0×10^{-3} 2.0×10^{-3} 1.6×10^{-3} 1.2° 1.4° 3.2×10^{-2} 3.0×10^{-2}	Digital Oscilloscope/ SICT-CP-40643
SWR meters Frequency Output Level SWR	40644	9 kHz ~ 18 GHz 30 kHz ~ 100 MHz 100 MHz ~ 10 GHz (10 ~ 18) GHz (30 kHz ~ 30 MHz) 1.05 1.20 1.50 2.00 (30 MHz ~ 2 GHz) 1.05 1.20 1.50 2.00 (2 ~ 18) GHz 1.05 1.20 1.50 2.00	6.4×10^{-5} 0.08 dB 0.08 dB 0.08 dB 0.012 0.013 0.015 0.021 0.014 0.014 0.015 0.021 0.021 0.021 0.021 0.024	Coaxial Mismatch/ SICT-CP-40644
RF terminations (Open,Short,Phase) (Reflection coefficient)	40645	(±180°) 5 Hz ~ 2 GHz (2 ~ 20) GHz (20 ~ 40) GHz (40 ~ 50) GHz (0 ~ 1) 5 Hz ~ 100 kHz 100 kHz ~ 500 MHz 500 MHz ~ 20 GHz (20 ~ 40) GHz (40 ~ 50) GHz	0.49° 0.61° 0.95° 1.2° 0.004 3 0.006 0 0.009 5 0.016 0.019	Network Analyzer, Coaxial Mismatch/ SICT-CP-40645

406. Radio frequency measurement

Measured Quantity Instrument or Gauge	Field Code	Range	Measurement uncertainty (The Confidence Level is about 95 %)	Standard/Method of Measurement etc.
RF terminations	40645	(1 ~ ∞)		Network Analyzer, Coaxial Mismatch/ SICT-CP-40645
(SWR)		5 Hz ~ 100 kHz	0.008 6	
		100 kHz ~ 500 MHz	0.012	
		500 MHz ~ 20 GHz	0.019	
		(20 ~ 40) GHz	0.032	
		(40 ~ 50) GHz	0.038	
(Impedance)		(0.000 0 ~ 0.047 6)		
		5 Hz ~ 500 MHz	0.64 Ω	
		500 MHz ~ 20 GHz	1.0 Ω	
		(20 ~ 40) GHz	1.6 Ω	
		(40 ~ 50) GHz	2.0 Ω	
		(0.047 6 ~ 0.090 9)		
		5 Hz ~ 500 MHz	0.71 Ω	
		500 MHz ~ 20 GHz	1.1 Ω	
		(20 ~ 40) GHz	1.8 Ω	
		(40 ~ 50) GHz	2.2 Ω	
		(0.090 9 ~ 0.166 7)		
		5 Hz ~ 500 MHz	0.84 Ω	
		500 MHz ~ 20 GHz	1.3 Ω	
		(20 ~ 40) GHz	2.1 Ω	
		(40 ~ 50) GHz	2.7 Ω	
		(0.166 7 ~ 0.230 8)		
		5 Hz ~ 500 MHz	0.99 Ω	
		500 MHz ~ 20 GHz	1.6 Ω	
		(20 ~ 40) GHz	2.5 Ω	
		(40 ~ 50) GHz	3.1 Ω	
		(0.230 8 ~ 0.285 7)		
		5 Hz ~ 500 MHz	1.1 Ω	
		500 MHz ~ 20 GHz	1.8 Ω	
		(20 ~ 40) GHz	2.9 Ω	
		(40 ~ 50) GHz	3.6 Ω	
		(0.285 7 ~ 0.333 4)		
		5 Hz ~ 500 MHz	1.3 Ω	
		500 MHz ~ 20 GHz	2.1 Ω	
		(20 ~ 40) GHz	3.3 Ω	
		(40 ~ 50) GHz	4.2 Ω	
(Impedance phase)		(0.000 0 ~ 0.047 6, ±180°)		
		5 Hz ~ 500 MHz	0.68°	
		500 MHz ~ 20 GHz	1.1°	
		(20 ~ 40) GHz	1.7°	
		(40 ~ 50) GHz	2.2°	
		(0.047 6 ~ 0.090 9, ±180°)		
		5 Hz ~ 500 MHz	0.66°	
		500 MHz ~ 20 GHz	1.1°	
		(20 ~ 40) GHz	1.7°	
		(40 ~ 50) GHz	2.1°	

406. Radio frequency measurement

Measured Quantity Instrument or Gauge	Field Code	Range	Measurement uncertainty (The Confidence Level is about 95 %)	Standard/Method of Measurement etc.
RF terminations (Impedance phase)	40645	(0.090 9 ~ 0.166 7, $\pm 180^\circ$) 5 Hz ~ 500 MHz 500 MHz ~ 20 GHz (20 ~ 40) GHz (40 ~ 50) GHz (0.166 7 ~ 0.230 8, $\pm 180^\circ$) 5 Hz ~ 500 MHz 500 MHz ~ 20 GHz (20 ~ 40) GHz (40 ~ 50) GHz (0.230 8 ~ 0.285 7, $\pm 180^\circ$) 5 Hz ~ 500 MHz 500 MHz ~ 20 GHz (20 ~ 40) GHz (40 ~ 50) GHz (0.285 7 ~ 0.333 4, $\pm 180^\circ$) 5 Hz ~ 500 MHz 500 MHz ~ 20 GHz (20 ~ 40) GHz (40 ~ 50) GHz	0.65° 1.0° 1.6° 2.1° 0.64° 1.0° 1.6° 2.0° 0.62° 0.98° 1.6° 2.0° 0.60° 1.0° 1.5° 1.9°	Network Analyzer, Coaxial Mismatch/ SICT-CP-40645
Coaxial thermistor mounts Cal Factor Reflection coefficient SWR	40646	(1 ~ 10) μ W (9 ~ 100) kHz 100 kHz ~ 10 GHz (10 ~ 18) GHz (18 ~ 26.5) GHz (26.5 ~ 40) GHz (10 μ W ~ 10 mW) (9 ~ 100) kHz 100 kHz ~ 10 GHz (10 ~ 18) GHz (18 ~ 26.5) GHz (26.5 ~ 40) GHz (0 ~ 1) 9 kHz ~ 2 GHz (2 ~ 20) GHz (20 ~ 40) GHz (40 ~ 50) GHz (50 ~ 67) GHz (1 ~ ∞) 9 kHz ~ 2 GHz (2 ~ 20) GHz (20 ~ 40) GHz (40 ~ 50) GHz (50 ~ 67) GHz	 0.7×10^{-2} 3.0×10^{-2} 3.2×10^{-2} 3.5×10^{-2} 4.4×10^{-2} 0.4×10^{-2} 2.3×10^{-2} 2.5×10^{-2} 2.8×10^{-2} 3.0×10^{-2} 0.004 6 0.009 2 0.015 0.018 0.033 0.009 2 0.018 0.029 0.037 0.065	Therimistor Mount, Synthesized Sweeper/ SICT-CP-40646

406. Radio frequency measurement

Measured Quantity Instrument or Gauge	Field Code	Range	Measurement uncertainty (The Confidence Level is about 95 %)	Standard/Method of Measurement etc.
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	6.6 mV 2.6 mV 0.82 mV 0.74 mV 0.66 mV 0.58 mV 0.48 mV 0.40 mV 0.33 mV 0.29 mV 0.27 mV 0.18 mV 0.099 mV 0.043 mV 0.021 mV 0.023 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	6.6 mV 2.6 mV 0.82 mV 0.28 mV 0.10 mV 0.044 mV 0.022 mV 0.024 mV	Signal Generator/ SICT-CP-40651
RF Phase		(0 ~ 270)°	0.006°	
Field strength meters Center frequency	40652	9 kHz (9 ~ 100) kHz 0.1 MHz ~ 18 GHz	6.8×10^{-8} 6.2×10^{-9} 3.5×10^{-9}	Signal Generator/ SICT-CP-40652
Scale Fidelity		(0 ~ -40) dB (-40 ~ -70) dB (-70 ~ -90) dB (-90 ~ -100) dB	0.11 dB 0.12 dB 0.15 dB 0.17 dB	
Frequency response		9 kHz (9 ~ 100) kHz 0.1 MHz ~ 18 GHz	0.05 dB 0.05 dB 0.06 dB	
AM/FM test sources Output frequency	40653	(10 ~ 560) MHz	6.2×10^{-10}	Measuring Receiver/ SICT-CP-40653

406. Radio frequency measurement

Measured Quantity Instrument or Gauge	Field Code	Range	Measurement uncertainty (The Confidence Level is about 95 %)	Standard/Method of Measurement etc.
Dip simulators	40654			Digital Oscilloscope/ SICT-CP-40654
DC Voltage		1 V (1 ~ 5) V (5 ~ 10) V (10 ~ 50) V (50 ~ 100) V (100 ~ 500) V	1.1×10^{-5} 6.4×10^{-6} 5.4×10^{-6} 9.3×10^{-6} 8.0×10^{-6} 1.1×10^{-5}	
AC Voltage		(50 ~ 60) Hz 50 V (50 ~ 100) V (100 ~ 500) V	5.0×10^{-5} 2.5×10^{-5} 1.6×10^{-4}	
Frequency		50 Hz 60 Hz	7.6×10^{-6} 7.7×10^{-6}	
Dip DC Voltage		(0 ~ 50) V 0 % (0 ~ 120) %	0.2 V 3.4×10^{-2}	
Dip AC Voltage		(50 Hz ~ 60 Hz, 0 V ~ 400 V) 0 % (0 ~ 120) %	0.92 V 3.4×10^{-2}	
Time measurement by section		100 ns ~ 2 μ s (2 ~ 4) μ s (4 ~ 400) μ s (0.4 ~ 2) ms 2 ms ~ 5 s	1.8×10^{-3} 2.0×10^{-3} 1.6×10^{-3} 2.0×10^{-3} 1.8×10^{-3}	
Inrush Current		(5 ~ 1 000) A	3.6×10^{-2}	
Phase Shifting		at 50 Hz (0 ~ 360)° at 60 Hz (0 ~ 360)°	1.2° 1.4°	

407. Field strength & antenna

Measured Quantity Instrument or Gauge	Field Code	Range	Measurement uncertainty (The Confidence Level is about 95 %)	Standard/Method of Measurement etc.
Probes Electric Field Probe	40702	4 kHz (1 ~ 300) V/m	0.12	RF Power Meter, Multi Meter/ SICT-CP-40702
		4 kHz ~ 9 kHz (1 ~ 300) V/m	0.12	
Magnetic Field Probe	40702	9 kHz (1 ~ 750) V/m	0.12	
		9 kHz ~ 300 MHz (1 ~ 750) V/m	0.12	
		300 MHz ~ 400 MHz (1 ~ 300) V/m	0.12	
		400 MHz ~ 6 GHz (1 ~ 150) V/m	0.18	
		6 GHz ~ 10 GHz (1 ~ 100) V/m	0.18	
		10 GHz ~ 18 GHz (2 ~ 100) V/m	0.18	
		18 GHz ~ 40 GHz (2 ~ 100) V/m	0.18	
		10 Hz (0.39 ~ 1 000) A/m	0.07	
		10 Hz ~ 1 kHz (0.39 ~ 1 000) A/m	0.07	
		1 kHz ~ 10 kHz (0.39 ~ 600) A/m	0.07	
		10 kHz ~ 30 kHz (2.65 ~ 390) mA/m (0.39 ~ 100) A/m	0.12 0.07	
		30 kHz ~ 150 kHz (2.65 ~ 390) mA/m (0.39 ~ 20) A/m	0.12 0.07	
		150 kHz ~ 200 kHz (2.65 ~ 390) mA/m (0.39 ~ 10) A/m	0.12 0.07	
		200 kHz ~ 300 MHz 2.65 mA/m ~ 1.98 A/m	0.12	
		300 MHz ~ 400 MHz 2.65 mA/m ~ 0.72 A/m	0.12	
		400 MHz ~ 1 GHz 2.65 mA/m ~ 0.39 A/m	0.12	

407. Field strength & antenna

Measured Quantity Instrument or Gauge	Field Code	Range	Measurement uncertainty (The Confidence Level is about 95 %)	Standard/Method of Measurement etc.
Dipole antennas (Dipole Antenna) Antenna Factor Voltage Standing Wave Ratio Antenna Pattern (Biconical Antenna) Antenna Factor Voltage Standing Wave Ratio Antenna Pattern (Log Periodic Antenna) Antenna Factor Voltage Standing Wave Ratio Antenna Pattern	40703	1 GHz ~ 18 GHz (1 ~ ∞) 20 MHz ~ 1 GHz 1 GHz ~ 18 GHz 1 GHz ~ 18 GHz 1 GHz ~ 40 GHz 1 GHz ~ 18 GHz (1 ~ ∞) 20 MHz ~ 1 GHz 1 GHz ~ 18 GHz 18 GHz ~ 40 GHz 1 GHz ~ 40 GHz	1.1 dB 0.022 0.039 1.4 dB 1.2 dB 0.022 0.039 0.041 1.4 dB 1.2 dB 0.022 0.039 0.041 1.4 dB	Network analyzer/ SICT-CP-40703 ancillary facilities(Chungju)
Loop antennas Antenna Factor ValidationFactor	40704	10 Hz ~ 30 MHz 9 kHz ~ 30 MHz	1.2 dB 0.93 dB	Signal generatorl, Signal analyzer/ SICT-CP-40704
Monopole antennas Antenna Factor	40705	10 Hz ~ 30 MHz	1.4 dB	Signal generatorl, Signal analyzer/ SICT-CP-40705
Horn antennas Antenna Factor Voltage Standing Wave Ratio Antenna Pattern	40707	200 MHz ~ 18 GHz 18 GHz ~ 40 GHz (1 ~ ∞) 200 MHz ~ 1 GHz 1 GHz ~ 18 GHz 18 GHz ~ 40 GHz 200 MHz ~ 700 MHz 700 MHz ~ 40 GHz	1.1 dB 1.4 dB 0.022 0.039 0.041 1.5 dB 1.4 dB	Network analyzer/ SICT-CP-40707 ancillary facilities(Chungju)

501. Contact thermometry

[illegible]

501. Contact thermometry

Measured Quantity Instrument or Gauge	Field Code	Range	Measurement uncertainty (The Confidence Level is about 95 %)	Standard/Method of Measurement etc.
Resistance thermometers; SPRT, IPRT, thermistors, etc.	50104	(-196 ~ 100) °C (100 ~ 400) °C (400 ~ 500) °C (500 ~ 660) °C (Fixed point) Ar TP Hg TP H ₂ O TP Ga MP In FP Sn FP Zn FP Al FP Ag FP	0.019 °C 0.020 °C 0.021 °C 0.025 °C 1.3 mK 0.7 mK 0.32 mK 0.6 mK 1.0 mK 1.0 mK 1.3 mK 2.5 mK 16 mK	SPRT, Fixed point/ SICT-CP-50104
Thermal expansion thermometers; bimetal, gas or liquid type	50105	(-196 ~ -70) °C (-70 ~ 100) °C (100 ~ 200) °C (200 ~ 500) °C (500 ~ 650) °C	0.6 °C 0.2 °C 0.3 °C 0.6 °C 1.2 °C	SPRT/ SICT-CP-50105
Thermomecouples: noble metal, base metal, pure metal, special type, etc.	50106	0 °C (0 ~ 600) °C (600 ~ 1 100) °C (1 100 ~ 1 300) °C (1 300 ~ 1 600) °C (-196 ~ -90) °C (-90 ~ 300) °C (300 ~ 600) °C (600 ~ 660) °C (660 ~ 900) °C (900 ~ 1 100) °C (1 100 ~ 1 350) °C (Fixed point) H ₂ O ICE Point Sn FP Zn FP Al FP Ag FP Cu FP Co-C MP Fe MP	0.6 °C 0.5 °C 0.6 °C 1.7 °C 2.1 °C 0.4 °C 0.2 °C 0.4 °C 0.5 °C 1.1 °C 1.4 °C 2.5 °C 0.3 °C 0.2 °C 0.2 °C 0.2 °C 0.3 °C 0.3 °C 1.1 °C 1.6 °C	SPRT,Fixed point, STANDARD TC/ SICT-CP-50106

501. Contact thermometry

Measured Quantity Instrument or Gauge	Field Code	Range	Measurement uncertainty (The Confidence Level is about 95 %)	Standard/Method of Measurement etc.
Temperature transducers	50107	(-196 ~ 0) °C (0 ~ 500) °C (500 ~ 660) °C (660 ~ 1 100) °C (1 100 ~ 1 200) °C (1 200 ~ 1 600) °C	0.14 °C 0.15 °C 0.16 °C 0.7 °C 2.1 °C 2.2 °C	SPRT, THERMOCOUPLE,MULTIMETER/ SICT-CP-50107
Primary fixed-point cells and apparatus	50108	-38.834 4 °C (Hg) 0.01 °C (TPW) 29.764 6 °C (Ga) 231.928 °C (Sn) 419.527 °C (Zn) 660.323 °C (Al)	0.61 mK 0.21 mK 0.5 mK 0.8 mK 1.1 mK 2.3 mK	Triple-Point Cell/ SICT-CP-50108

502. non contact thermometry

Measured Quantity Instrument or Gauge	Field Code	Range	Measurement uncertainty (The Confidence Level is about 95 %)	Standard/Method of Measurement etc.
Optical pyrometers	50203	(900 ~ 1 400) °C (1 400 ~ 1 800) °C	4 °C 5 °C	Standard Lamp/ SICT-CP-50203
Standard radiation thermometers	50204	(-40 ~ -20) °C (-20 ~ 100) °C (100 ~ 200) °C (200 ~ 300) °C (300 ~ 400) °C (400 ~ 500) °C (500 ~ 600) °C (600 ~ 800) °C (800 ~ 1 000) °C (1 000 ~ 1 100) °C (1 100 ~ 1 200) °C (1 200 ~ 1 300) °C (1 300 ~ 1 400) °C (1 400 ~ 1 500) °C (1 500 ~ 1 600) °C (1 600 ~ 1 700) °C (1 700 ~ 1 800) °C (1 800 ~ 1 900) °C (1 900 ~ 2 000) °C (2 000 ~ 2 100) °C (2 100 ~ 2 200) °C (2 200 ~ 2 300) °C (2 300 ~ 2 400) °C	0.5 °C 0.4 °C 0.5 °C 0.6 °C 0.7 °C 0.8 °C 1.0 °C 1.1 °C 1.2 °C 1.3 °C 1.4 °C 1.5 °C 1.6 °C 1.7 °C 1.8 °C 1.9 °C 2.1 °C 2.3 °C 2.5 °C 3.9 °C 4.0 °C 4.2 °C 4.3 °C	Transfer Standard Pyrometer/ SICT-CP-50204
Thermal image apparatus	50205	(-40 ~ -20) °C (-20 ~ 100) °C (100 ~ 200) °C (200 ~ 300) °C (300 ~ 400) °C (400 ~ 500) °C (500 ~ 800) °C (800 ~ 1 000) °C (1 000 ~ 1 100) °C (1 100 ~ 1 200) °C (1 200 ~ 1 300) °C (1 300 ~ 1 400) °C (1 400 ~ 1 500) °C (1 500 ~ 1 600) °C (1 600 ~ 1 700) °C (1 700 ~ 1 800) °C (1 800 ~ 1 900) °C (1 900 ~ 2 000) °C (2 000 ~ 2 100) °C (2 100 ~ 2 200) °C (2 200 ~ 2 300) °C (2 300 ~ 2 400) °C	0.5 °C 0.4 °C 0.5 °C 0.6 °C 0.7 °C 0.8 °C 1.1 °C 1.2 °C 1.3 °C 1.4 °C 1.5 °C 1.6 °C 1.7 °C 1.8 °C 1.9 °C 2.1 °C 2.3 °C 2.5 °C 3.9 °C 4.0 °C 4.2 °C 4.3 °C	Transfer Standard Pyrometer/ SICT-CP-50205

502. non contact thermometry

Measured Quantity Instrument or Gauge	Field Code	Range	Measurement uncertainty (The Confidence Level is about 95 %)	Standard/Method of Measurement etc.
Blackbody furnaces	50206	(-40 ~ 150) °C (150 ~ 200) °C (200 ~ 400) °C (400 ~ 500) °C (500 ~ 1 000) °C (1 000 ~ 1 100) °C (1 100 ~ 1 300) °C (1 300 ~ 1 400) °C (1 400 ~ 1 500) °C (1 500 ~ 1 600) °C (1 600 ~ 1 700) °C (1 700 ~ 1 800) °C (1 800 ~ 1 900) °C (1 900 ~ 2 000) °C (2 000 ~ 2 100) °C (2 100 ~ 2 200) °C (2 200 ~ 2 300) °C (2 300 ~ 2 400) °C	0.4 °C 0.5 °C 0.6 °C 0.7 °C 1.0 °C 1.1 °C 1.3 °C 1.4 °C 1.6 °C 1.7 °C 1.8 °C 1.9 °C 2.1 °C 2.3 °C 3.7 °C 3.8 °C 4.0 °C 4.2 °C	Transfer Standard Pyrometer/ SICT-CP-50206
Others; ear thermometers, etc.	50207	(30 ~ 45) °C	0.1 °C	Standard prt/ SICT-CP-50207

503. Humidity

Measured Quantity Instrument or Gauge	Field Code	Range	Measurement uncertainty (The Confidence Level is about 95 %)	Standard/Method of Measurement etc.
Dew-point hygrometers; chilled mirror, alumina thin film, etc.	50301	(-90 ~ -80) °C D.P. (-80 ~ -60) °C D.P. (-60 ~ -40) °C D.P. (-40 ~ -20) °C D.P. (-20 ~ 20) °C D.P. (20 ~ 60) °C D.P. (60 ~ 80) °C D.P. (80 ~ 95) °C D.P.	0.37 °C D.P. 0.21 °C D.P. 0.16 °C D.P. 0.15 °C D.P. 0.13 °C D.P. 0.14 °C D.P. 0.15 °C D.P. 0.16 °C D.P.	Dewpoint Meter/ SICT-CP-50301
Relative humidity hygrometers; polimer thin film, hair, etc. humidity Temperature	50302	(3 ~ 30) % R.H. (30 ~ 60) % R.H. (60 ~ 90) % R.H. (90 ~ 98) % R.H. (-80 ~ -40) °C (-40 ~ 0) °C (0 ~ 80) °C (80 ~ 100) °C (100 ~ 180) °C	1.3 % R.H. 1.4 % R.H. 1.5 % R.H. 1.6 % R.H. 1.0 °C 0.5 °C 0.3 °C 0.5 °C 1.6 °C	Dewpoint Meter/ SICT-CP-50302
Psychrometers; Assmann ventilated, PRT type, etc. (assmann ventilated) humidity Temperature (PRT type) humidity Temperature	50303	(10 ~ 40) % R.H. (40 ~ 70) % R.H. (70 ~ 95) % R.H. (0 ~ 50) °C (10 ~ 30) % R.H. (30 ~ 60) % R.H. (60 ~ 90) % R.H. (90 ~ 98) % R.H. (0 ~ 80) °C (80 ~ 100) °C	1.4 % R.H. 1.5 % R.H. 1.6 % R.H. 0.3 °C 1.3 % R.H. 1.4 % R.H. 1.5 % R.H. 1.6 % R.H. 0.3 °C 0.5 °C	Dewpoint Meter/ SICT-CP-50303
Temperature humidity recorders; hygrothermograph, etc. Humidity Temperature	50304	(5 ~ 60) % R.H. (60 ~ 95) % R.H. (-20 ~ 80) °C	2.0 % R.H. 2.1 % R.H. 0.6 °C	Dewpoint Meter/ SICT-CP-50304

503. Humidity

Measured Quantity Instrument or Gauge	Field Code	Range	Measurement uncertainty (The Confidence Level is about 95 %)	Standard/Method of Measurement etc.
Transducers; dew-point /relative humidity (Dew-point Transducers) Dew point (Relative humidity Transducers) Humidity Temperature	50305	 (-90 ~ -80) °C D.P. (-80 ~ -60) °C D.P. (-60 ~ -40) °C D.P. (-40 ~ -20) °C D.P. (-20 ~ 60) °C D.P. (60 ~ 80) °C D.P. (80 ~ 95) °C D.P. (3 ~ 30) % R.H. (30 ~ 60) % R.H. (60 ~ 90) % R.H. (90 ~ 98) % R.H. (-80 ~ -40) °C (-40 ~ 0) °C (0 ~ 80) °C (80 ~ 100) °C (100 ~ 180) °C	 0.37 °C D.P. 0.22 °C D.P. 0.18 °C D.P. 0.17 °C D.P. 0.15 °C D.P. 0.16 °C D.P. 0.17 °C D.P. 1.3 % R.H. 1.4 % R.H. 1.5 % R.H. 1.6 % R.H. 1.0 °C 0.5 °C 0.3 °C 0.5 °C 1.6 °C	Dewpoint Meter/ SICT-CP-50305
Humidity generators; two-pressure, two-temperature, flow mixing humidity generator, constant temperature and humidity chamber, etc. Dew point Humidity Temperature	50306	 (-90 ~ -80) °C D.P. (-80 ~ -70) °C D.P. (-70 ~ -50) °C D.P. (-50 ~ -30) °C D.P. (-30 ~ 80) °C D.P. (80 ~ 95) °C D.P. (3 ~ 10) % R.H. (10 ~ 40) % R.H. (40 ~ 50) % R.H. (50 ~ 60) % R.H. (60 ~ 80) % R.H. (80 ~ 98) % R.H. (-90 ~ 50) °C (50 ~ 100) °C (100 ~ 200) °C	 0.37 °C D.P. 0.21 °C D.P. 0.17 °C D.P. 0.16 °C D.P. 0.15 °C D.P. 0.16 °C D.P. 1.2 % R.H. 1.3 % R.H. 1.4 % R.H. 1.5 % R.H. 1.6 % R.H. 1.7 % R.H. 0.4 °C 0.5 °C 0.6 °C	Dewpoint Meter/ SICT-CP-50306

504. Moisture

Measured Quantity Instrument or Gauge	Field Code	Range	Measurement uncertainty (The Confidence Level is about 95 %)	Standard/Method of Measurement etc.
Cereal moisture meters Moisture	50401	(9 ~ 20) % M.C.	0.7 % M.C.	Balance/ SICT-CP-50401
Wood moisture meters Moisture	50402	(8 ~ 25) % M.C.	2.5 % M.C.	Balance/ SICT-CP-50402
Paper moisture meters Moisture	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	Measurement uncertainty (The Confidence Level is about 95 %)	Standard/Method of Measurement etc.
Sound calibrators	60102	(200 ~ 300) Hz	0.08 dB	Reference microphone/ SICT-CP-60102
Pistonphones				
Sound Pressure Level Calibrators		(200 ~ 300) Hz	0.08 dB	
		(900 ~ 1 100) Hz	0.08 dB	
Multifunction Acoustic Calibrators		(28 ~ 35) Hz	0.12 dB	
		(35 ~ 90) Hz	0.09 dB	
		(90 ~ 4 500) Hz	0.08 dB	
		(4 500 ~ 9 000) Hz	0.09 dB	
		(9 000 ~ 14 000) Hz	0.13 dB	
		(14 000 ~ 17 000) Hz	0.21 dB	
Microphones	60104	20 Hz	0.15 dB	Reference microphone/ SICT-CP-60104
		(20 ~ 25) Hz	0.13 dB	
		(25 ~ 31.5) Hz	0.12 dB	
		(31.5 ~ 50) Hz	0.10 dB	
		(50 ~ 63) Hz	0.09 dB	
		(63 ~ 8 000) Hz	0.08 dB	
		(8 000 ~ 10 000) Hz	0.09 dB	
		(10 000 ~ 12 500) Hz	0.10 dB	
		(12 500 ~ 16 000) Hz	0.12 dB	
		(16 000 ~ 20 000) Hz	0.16 dB	
Sound level meters	60106	20 Hz	0.5 dB	Reference microphone/ SICT-CP-60106
		(20 ~ 50) Hz	0.4 dB	
		(50 ~ 160) Hz	0.3 dB	
		(160 ~ 2 000) Hz	0.2 dB	
		(2 000 ~ 8 000) Hz	0.3 dB	
		(8 000 ~ 16 000) Hz	0.4 dB	
		(16 000 ~ 20 000) Hz	0.5 dB	

603. Vibration

Measured Quantity Instrument or Gauge	Field Code	Range	Measurement uncertainty (The Confidence Level is about 95 %)	Standard/Method of Measurement etc.
Vibration calibrators	60301	(10 ~ 5 000) Hz	1.6×10^{-2}	Reference Accelerometer/ SICT-CP-60301
Vibration transducers Vibration transducers sensitivity Shock transducers sensitivity	60302	(0.2 ~ 0.3) Hz (0.3 ~ 20) Hz (20 ~ 2 500) Hz (2 500 ~ 5 000) Hz (5 000 ~ 10 000) Hz (10 000 ~ 15 000) Hz (15 000 ~ 20 000) Hz Pulse duration : (5 ~ 30) ms (5 ~ 200) m/s ² Pulse duration : (0.1 ~ 5) ms (200 ~ 2 000) m/s ² (2 000 ~ 20 000) m/s ² (20 000 ~ 100 000) m/s ²	1.3×10^{-2} 1.2×10^{-2} 1.0×10^{-2} 1.5×10^{-2} 1.7×10^{-2} 2.2×10^{-2} 3.2×10^{-2} 1.2×10^{-2} 1.0×10^{-2} 1.9×10^{-2} 3.3×10^{-2}	Reference Accelerometer/ SICT-CP-60302
Vibration measuring instruments (Vibration measuring instruments) Acceleration Velocity Displacement (Shock measuring instruments, recorders, etc.) Shock acceleration	60303	(10 ~ 20) Hz (20 ~ 1 250) Hz (1 250 ~ 5 000) Hz (10 ~ 20) Hz (20 ~ 1 000) Hz (1 000 ~ 2 500) Hz (10 ~ 160) Hz (160 ~ 315) Hz (315 ~ 630) Hz Pulse duration : (2.7 ~ 30) ms (5 ~ 10) m/s ² (10 ~ 1 000) m/s ² Pulse duration : (0.5 ~ 2.7) ms (1 000 ~ 4 000) m/s ²	1.5×10^{-2} 1.4×10^{-2} 1.5×10^{-2} 1.5×10^{-2} 1.4×10^{-2} 1.5×10^{-2} 1.3×10^{-2} 2.0×10^{-2} 3.1×10^{-2} 2.3×10^{-2} 1.7×10^{-2} 2.5×10^{-2}	Reference Accelerometer/ SICT-CP-60303

701. Photometry

Measured Quantity Instrument or Gauge	Field Code	Range	Measurement uncertainty (The Confidence Level is about 95 %)	Standard/Method of Measurement etc.
Illuminance meters Illuminance	70101	0.5 lx (0.5 ~ 20 000) lx	1.3×10^{-2} 1.7×10^{-2}	Illuminance Meters/ SICT-CP-70101
Luminance meters Luminance	70102	1 cd/m ² (1 ~ 10) cd/m ² (10 ~ 3 000) cd/m ² (3 000 ~ 15 000) cd/m ²	2.1×10^{-2} 1.7×10^{-2} 1.4×10^{-2} 1.7×10^{-2}	Luminance Standard Sources/ SICT-CP-70102
Total luminous flux meters Total luminous flux	70103	(67.6 ~ 4 740) lm	2.4×10^{-2}	Total Luminous Flux Standard Lamps/SICT-CP-70103
Luminous intensity meters Luminance	70104	(71 ~ 3 191) cd	2.2×10^{-2}	Luminous Intensity Standard Lamps, Illuminance Meters / SICT-CP-70104

702. Property of detectors & sources

Measured Quantity Instrument or Gauge	Field Code	Range	Measurement uncertainty (The Confidence Level is about 95 %)	Standard/Method of Measurement etc.
Color temperature meters Color temperature Chromaticity	70202	(2 677 ~ 3 333) K x y	25 K 0.004 0.004	Color Tmperature Standard Lamps/ SICT-CP-70202
Color temperature standard lamps Color temperature Chromaticity	70203	(2 677 ~ 3 333) K x y	27 K 0.005 0.005	Spectroradiometers/ SICT-CP-70203
Colorimeters; source color Luminance Chromaticity	70204	1 cd/m ² (1 ~ 10) cd/m ² (10 ~ 3 000) cd/m ² (3 000 ~ 15 000) cd/m ² (WHITE) x y (RED) x y (GREEN) x y (BLUE) x y (CIE A standard light source) x y	2.1 × 10 ⁻² 1.7 × 10 ⁻² 1.4 × 10 ⁻² 1.7 × 10 ⁻² 0.004 0.004 0.004 0.004 0.004 0.004 0.004 0.004 0.003 0.003	Luminance Standard Sources/ SICT-CP-70204
Laser power meters	70207	(405 nm) (0.75 ~ 9) mW (660 nm) (0.7 ~ 47) mW (785 nm) (0.7 ~ 47) mW (1 080 nm) (1.1 ~ 40) W	1.2 × 10 ⁻² 1.2 × 10 ⁻² 1.2 × 10 ⁻² 3.3 × 10 ⁻²	Optical Power Meters/ SICT-CP-70207
Standard LED light sources Total luminous flux	70208	(67.6 ~ 70.6) lm	3.2 × 10 ⁻²	Toral Spectral Radiant Flux Meters/ SICT-CP-70208
Total luminous flux standard lamps Total luminous flux	70209	(67.6 ~ 4 740) lm	3.0 × 10 ⁻²	Total Luminous Flux Standard Lamps/ SICT-CP-70209

702. Property of detectors & sources

Measured Quantity Instrument or Gauge	Field Code	Range	Measurement uncertainty (The Confidence Level is about 95 %)	Standard/Method of Measurement etc.
Optical detectors Relative spectral responsivity	70210	(0 ~ 1) 300 nm (300 ~ 305) nm (305 ~ 310) nm (310 ~ 320) nm (320 ~ 370) nm (370 ~ 440) nm (440 ~ 525) nm (525 ~ 630) nm (630 ~ 955) nm (955 ~ 990) nm (990 ~ 1 095) nm (1 095 ~ 1 100) nm	8.1×10^{-2} 7.0×10^{-2} 6.1×10^{-2} 5.2×10^{-2} 3.9×10^{-2} 3.0×10^{-2} 1.4×10^{-2} 1.0×10^{-2} 1.2×10^{-2} 2.9×10^{-2} 4.0×10^{-2} 5.3×10^{-2}	Photodiodes/ SICT-CP-70210
Pyranometers and pyrhemimeters Irradiance responsivity	70211	(250 ~ 2 500) nm (1 000 $\pm$ 150) W/m ²	4.2×10^{-2}	Standard pyranometers/ SICT-CP-70211
Display color analyzers; luminance, chromaticity, white balance, etc. Luminance Chromaticity	70213	1 cd/m ² (1 ~ 5) cd/m ² (5 ~ 200) cd/m ² (WHITE) x y (RED) x y (GREEN) x y (BLUE) x y	2.4×10^{-2} 1.9×10^{-2} 1.7×10^{-2} 0.006 8 0.006 8 0.006 2 0.006 2 0.006 2 0.006 2 0.004 1 0.004 1	Luminance Meters/ SICT-CP-70213
Luminous intensity standard lamps Luminous intensity	70214	(10 ~ 20 000) cd	4.0×10^{-2}	Spectroradiometers/ SICT-CP-70214
Spectral irradiance standard lamps Illuminance Spectral irradiance	70215	(802 ~ 6 420) lx (Deuterium arc lamp) 200 nm (200 ~ 205) nm (205 ~ 400) nm (Tungsten halogen lamp) 250 nm (250 ~ 295) nm (295 ~ 345) nm (345 ~ 375) nm (375 ~ 2 295) nm (2 295 ~ 2 345) nm (2 345 ~ 2 400) nm	2.8×10^{-2} 5.4×10^{-2} 5.2×10^{-2} 4.8×10^{-2} 5.5×10^{-2} 5.2×10^{-2} 4.6×10^{-2} 4.3×10^{-2} 3.9×10^{-2} 4.1×10^{-2} 4.7×10^{-2}	Spectral Irradiance Standard Lamps/ SICT-CP-70215

702. Property of detectors & sources

Measured Quantity Instrument or Gauge	Field Code	Range	Measurement uncertainty (The Confidence Level is about 95 %)	Standard/Method of Measurement etc.
Total spectral radiant flux standard lamps Total spectral radiant flux	70216	350 nm (350 ~ 380) nm (380 ~ 395) nm (395 ~ 445) nm (445 ~ 545) nm (545 ~ 850) nm	4.0×10^{-2} 3.8×10^{-2} 3.5×10^{-2} 3.3×10^{-2} 3.0×10^{-2} 2.9×10^{-2}	Total Spectral Radiant Flux Standard Lamps/ SICT-CP-70216
Luminance standard sources Luminance Chromaticity	70217	1 cd/m ² (1 ~ 10) cd/m ² (10 ~ 3 000) cd/m ² (3 000 ~ 15 000) cd/m ² (WHITE) x y (RED) x y (GREEN) x y (BLUE) x y (CIE A standard light source) x y	2.3×10^{-2} 1.9×10^{-2} 1.6×10^{-2} 1.9×10^{-2} 0.005 0.005 0.005 0.005 0.005 0.005 0.005 0.005 0.004 0.004	Luminance Standard Sources/ SICT-CP-70217
Spectral radiance standard sources Spectral radiance	70218	300 nm (300 ~ 305) nm (305 ~ 310) nm (310 ~ 315) nm (315 ~ 320) nm (320 ~ 325) nm (325 ~ 330) nm (330 ~ 335) nm (335 ~ 340) nm (340 ~ 345) nm (345 ~ 365) nm (365 ~ 405) nm (405 ~ 1 325) nm (1 325 ~ 1 350) nm (1 350 ~ 1 450) nm (1 450 ~ 1 475) nm (1 475 ~ 1 600) nm	3.8×10^{-1} 2.9×10^{-1} 2.5×10^{-1} 2.0×10^{-1} 1.6×10^{-1} 1.2×10^{-1} 8.6×10^{-2} 7.6×10^{-2} 6.4×10^{-2} 5.4×10^{-2} 4.6×10^{-2} 3.9×10^{-2} 3.3×10^{-2} 4.1×10^{-2} 5.4×10^{-2} 4.5×10^{-2} 3.8×10^{-2}	Spectral Radiance Standard Sources/ SICT-CP-70218
UV irradiance meters Irradiance (UV Meter)	70219	(254 nm) 50 μW/cm ² 50 μW/cm ² ~ 3 mW/cm ² (365 nm) 10 μW/cm ² 10 μW/cm ² ~ 230 mW/cm ² (405 nm) 10 μW/cm ² 10 μW/cm ² ~ 1 mW/cm ² (1 ~ 230) mW/cm ²	3.8×10^{-2} 3.8×10^{-2} 3.9×10^{-2} 3.8×10^{-2} 4.0×10^{-2} 4.0×10^{-2} 3.7×10^{-2}	UV Meter Standard Detectors/ SICT-CP-70219

702. Property of detectors & sources

102. Property of detectors & sources				
Measured Quantity Instrument or Gauge	Field Code	Range	Measurement uncertainty (The Confidence Level is about 95 %)	Standard/Method of Measurement etc.
Spectral irradiance meters	70220			Spectral Irradiance Standard Lamps/ SICT-CP-70220
Wavelength		(250 ~ 2 030) nm	0.3 nm	
Illuminance		(802 ~ 6 420) lx	2.1×10^{-2}	
Spectral Irradiance		200 nm	4.9×10^{-2}	
		(200 ~ 205) nm	4.8×10^{-2}	
		(205 ~ 345) nm	4.5×10^{-2}	
		(345 ~ 375) nm	4.0×10^{-2}	
		(375 ~ 550) nm	3.6×10^{-2}	
		(550 ~ 1 595) nm	3.3×10^{-2}	
		(1 595 ~ 2 295) nm	3.5×10^{-2}	
	(2 295 ~ 2 345) nm	3.9×10^{-2}		
	(2 345 ~ 2 400) nm	4.5×10^{-2}		
Total spectral radiant flux meters	70221			Total Spectral Radiant Flux Standard Lamps/ SICT-CP-70221
Wavelength		(350 ~ 850) nm	0.25 nm	
Total spectral radiant flux		350 nm	2.4×10^{-2}	
		(350 ~ 365) nm	2.3×10^{-2}	
		(365 ~ 395) nm	1.9×10^{-2}	
		(395 ~ 445) nm	1.6×10^{-2}	
		(445 ~ 615) nm	1.4×10^{-2}	
	(615 ~ 850) nm	1.5×10^{-2}		
Spectral radiance meters	70222			Spectral Radiance Standard Sources/ SICT-CP-70222
Wavelength		(350 ~ 1 694) nm	0.25 nm	
Spectral radiance		300 nm	3.8×10^{-1}	
		(300 ~ 305) nm	2.9×10^{-1}	
		(305 ~ 310) nm	2.5×10^{-1}	
		(310 ~ 315) nm	2.0×10^{-1}	
		(315 ~ 320) nm	1.6×10^{-1}	
		(320 ~ 325) nm	1.2×10^{-1}	
		(325 ~ 330) nm	8.5×10^{-2}	
		(330 ~ 335) nm	7.5×10^{-2}	
		(335 ~ 340) nm	6.3×10^{-2}	
		(340 ~ 345) nm	5.3×10^{-2}	
		(345 ~ 360) nm	4.5×10^{-2}	
		(360 ~ 380) nm	3.8×10^{-2}	
		(380 ~ 1 335) nm	3.3×10^{-2}	
		(1 335 ~ 1 350) nm	4.0×10^{-2}	
		(1 350 ~ 1 400) nm	4.8×10^{-2}	
		(1 400 ~ 1 445) nm	5.3×10^{-2}	
		(1 445 ~ 1 475) nm	4.5×10^{-2}	
		(1 475 ~ 1 495) nm	3.7×10^{-2}	
			(1 495 ~ 1 600) nm	

703. Property of materials

Measured Quantity Instrument or Gauge	Field Code	Range	Measurement uncertainty (The Confidence Level is about 95 %)	Standard/Method of Measurement etc.
Colorimeters; material color	70301			Color Standard Tiles/ SICT-CP-70301
Included Reflectance Std. Light Source Type A(2°, 10°), C(2°, 10°), D65(2°, 10°)				
1. White	X		9.0×10^{-3}	
	Y		9.0×10^{-3}	
	Z		9.0×10^{-3}	
2. l,Gray	X		9.0×10^{-3}	
	Y		9.0×10^{-3}	
	Z		9.0×10^{-3}	
3. m,Gray	X		9.0×10^{-3}	
	Y		9.0×10^{-3}	
	Z		1.0×10^{-2}	
4. d,Gray	X		1.0×10^{-2}	
	Y		1.0×10^{-2}	
	Z		1.0×10^{-2}	
5. Red	X		1.0×10^{-2}	
	Y		1.0×10^{-2}	
	Z		1.7×10^{-2}	
6. Yellow	X		9.0×10^{-3}	
	Y		9.0×10^{-3}	
	Z		1.6×10^{-2}	
7. Green	X		9.0×10^{-3}	
	Y		9.0×10^{-3}	
	Z		1.0×10^{-2}	
8. Cyan	X		9.0×10^{-3}	
	Y		9.0×10^{-3}	
	Z		9.0×10^{-3}	
Included Reflectance Std. Light Source Type A(2°, 10°), C(2°, 10°), D65(2°, 10°)				
1. White	L*		0.31	
	a*		0.09	
	b*		0.08	
2. l,Gray	L*		0.28	
	a*		0.08	
	b*		0.07	
3. m,Gray	L*		0.22	
	a*		0.06	
	b*		0.06	
4. d,Gray	L*		0.16	
	a*		0.05	
	b*		0.06	
5. Red	L*		0.20	
	a*		0.19	
	b*		0.18	
6. Yellow	L*		0.29	
	a*		0.13	
	b*		0.32	
7. Green	L*		0.24	
	a*		0.12	
	b*		0.09	
8. Cyan	L*		0.21	
	a*		0.11	
	b*		0.12	

703. Property of materials

Measured Quantity Instrument or Gauge	Field Code	Range	Measurement uncertainty (The Confidence Level is about 95 %)	Standard/Method of Measurement etc.
Colorimeters; material color	70301			Color Standard Tiles/ SICT-CP-70301
Included Reflectance Std. Light Source Type A(2°, 10°), C(2°, 10°), D65(2°, 10°)				
1. White	x		1.3×10^{-3}	
	y		1.3×10^{-3}	
2. l,Gray	x		1.3×10^{-3}	
	y		1.3×10^{-3}	
3. m,Gray	x		1.3×10^{-3}	
	y		1.3×10^{-3}	
4. d,Gray	x		1.4×10^{-3}	
	y		1.3×10^{-3}	
5. Red	x		2.0×10^{-3}	
	y		1.3×10^{-3}	
6. Yellow	x		1.0×10^{-3}	
	y		1.2×10^{-3}	
7. Green	x		1.4×10^{-3}	
	y		1.0×10^{-3}	
8. Cyan	x		2.0×10^{-3}	
	y		1.7×10^{-3}	
Exclude Reflectance Std. Light Source Type A(2°, 10°), C(2°, 10°), D65(2°, 10°)				
1. White	X		9.0×10^{-3}	
	Y		9.0×10^{-3}	
	Z		9.0×10^{-3}	
2. l,Gray	X		9.0×10^{-3}	
	Y		9.0×10^{-3}	
	Z		9.0×10^{-3}	
3. m,Gray	X		9.0×10^{-3}	
	Y		9.0×10^{-3}	
	Z		1.0×10^{-2}	
4. d,Gray	X		1.1×10^{-2}	
	Y		1.0×10^{-2}	
	Z		1.3×10^{-2}	
5. Red	X		1.1×10^{-2}	
	Y		1.1×10^{-2}	
	Z		2.5×10^{-2}	
6. Yellow	X		9.0×10^{-3}	
	Y		9.0×10^{-3}	
	Z		2.0×10^{-2}	
7. Green	X		9.0×10^{-3}	
	Y		9.0×10^{-3}	
	Z		1.2×10^{-2}	
8. Cyan	X		9.0×10^{-3}	
	Y		1.0×10^{-2}	
	Z		9.0×10^{-3}	

703. Property of materials

Measured Quantity Instrument or Gauge	Field Code	Range	Measurement uncertainty (The Confidence Level is about 95 %)	Standard/Method of Measurement etc.
Colorimeters; material color	70301			Color Standard Tiles/ SICT-CP-70301
Exclude Reflectance Std. Light Source Type A(2°, 10°), C(2°, 10°), D65(2°, 10°)				
1. White	L*		0.30	
	a*		0.09	
	b*		0.08	
2. l,Gray	L*		0.31	
	a*		0.08	
	b*		0.06	
3. m,Gray	L*		0.21	
	a*		0.06	
	b*		0.05	
4. d,Gray	L*		0.15	
	a*		0.05	
	b*		0.05	
5. Red	L*		0.20	
	a*		0.24	
	b*		0.28	
6. Yellow	L*		0.28	
	a*		0.13	
	b*		0.41	
7. Green	L*		0.22	
	a*		0.12	
	b*		0.09	
8. Cyan	L*		0.20	
	a*		0.11	
	b*		0.13	
Exclude Reflectance Std. Light Source Type A(2°, 10°), C(2°, 10°), D65(2°, 10°)				
1. White	x		1.4×10^{-3}	
	y		1.3×10^{-3}	
2. l,Gray	x		1.3×10^{-3}	
	y		1.3×10^{-3}	
3. m,Gray	x		1.4×10^{-3}	
	y		1.3×10^{-3}	
4. d,Gray	x		1.3×10^{-3}	
	y		1.3×10^{-3}	
5. Red	x		3.0×10^{-3}	
	y		1.3×10^{-3}	
6. Yellow	x		1.1×10^{-3}	
	y		1.1×10^{-3}	
7. Green	x		1.5×10^{-3}	
	y		1.0×10^{-3}	
8. Cyan	x		2.1×10^{-3}	
	y		1.8×10^{-3}	

703. Property of materials

Measured Quantity Instrument or Gauge	Field Code	Range	Measurement uncertainty (The Confidence Level is about 95 %)	Standard/Method of Measurement etc.
Colorimeters; material color	70301			Color Standard Tiles/ SICT-CP-70301
Transmittance Std. Light Source Type A(2°, 10°), C(2°, 10°), D65(2°, 10°)				
1. E-LA200	X		4.0×10^{-3}	
	Y		4.0×10^{-3}	
	Z		9.0×10^{-3}	
2. G533	X		7.0×10^{-3}	
	Y		5.0×10^{-3}	
	Z		1.3×10^{-2}	
3. B460	X		5.0×10^{-3}	
	Y		4.0×10^{-3}	
	Z		3.0×10^{-3}	
4. ND 25	X		3.0×10^{-3}	
	Y		3.0×10^{-3}	
	Z		5.0×10^{-3}	
5. ND 40	X		3.0×10^{-3}	
	Y		3.0×10^{-3}	
	Z		3.0×10^{-3}	
6. ND 50	X		3.0×10^{-3}	
	Y		3.0×10^{-3}	
	Z		3.0×10^{-3}	
7. ND 70	X		3.0×10^{-3}	
	Y		2.0×10^{-3}	
	Z		3.0×10^{-3}	
Transmittance Std. Light Source Type A(2°, 10°), C(2°, 10°), D65(2°, 10°)				
1. E-LA200	L*		0.11	
	a*		0.11	
	b*		0.16	
2. G533	L*		0.14	
	a*		0.12	
	b*		0.19	
3. B460	L*		0.12	
	a*		0.07	
	b*		0.17	
4. ND 25	L*		0.07	
	a*		0.05	
	b*		0.07	
5. ND 40	L*		0.08	
	a*		0.05	
	b*		0.06	
6. ND 50	L*		0.10	
	a*		0.05	
	b*		0.05	
7. ND 70	L*		0.09	
	a*		0.05	
	b*		0.05	

703. Property of materials

Measured Quantity Instrument or Gauge	Field Code	Range	Measurement uncertainty (The Confidence Level is about 95 %)	Standard/Method of Measurement etc.
Colorimeters; material color Transmittance Std. Light Source Type A(2°, 10°), C(2°, 10°), D65(2°, 10°) 1. E-LA200 2. G533 3. B460 4. ND 25 5. ND 40 6. ND 50 7. ND 70	70301	x y x y x y x y x y x y	1.0×10^{-3} 1.1×10^{-3} 1.6×10^{-3} 1.6×10^{-3} 2.1×10^{-3} 1.7×10^{-3} 1.4×10^{-3} 1.3×10^{-3} 1.4×10^{-3} 1.3×10^{-3} 1.4×10^{-3} 1.3×10^{-3} 1.4×10^{-3}	Color Standard Tiles/ SICT-CP-70301
Color standard tiles Included Reflectance Std. Light Source Type A(2°, 10°), C(2°, 10°), D65(2°, 10°) 1. White 2. l,Gray 3. m,Gray 4. d,Gray 5. Red 6. Yellow 7. Green 8. Cyan	70304	X Y Z X Y Z X Y Z X Y Z X Y Z X Y Z X Y Z X Y Z	0.81 0.75 0.84 0.56 0.54 0.67 0.44 0.46 0.55 0.10 0.10 0.14 0.28 0.24 0.13 0.66 0.57 0.22 0.33 0.43 0.32 0.18 0.20 0.42	Color Standard Tiles/ SICT-CP-70304

703. Property of materials

Measured Quantity Instrument or Gauge	Field Code	Range	Measurement uncertainty (The Confidence Level is about 95 %)	Standard/Method of Measurement etc.
Color standard tiles	70304			Color Standard Tiles/ SICT-CP-70304
Included Reflectance Std. Light Source Type A(2°, 10°), C(2°, 10°), D65(2°, 10°)				
1. White	L*		0.30	
	a*		0.10	
	b*		0.08	
2. l,Gray	L*		0.26	
	a*		0.08	
	b*		0.07	
3. m,Gray	L*		0.21	
	a*		0.06	
	b*		0.06	
4. d,Gray	L*		0.15	
	a*		0.05	
	b*		0.04	
5. Red	L*		0.19	
	a*		0.19	
	b*		0.17	
6. Yellow	L*		0.28	
	a*		0.12	
	b*		0.31	
7. Green	L*		0.20	
	a*		0.11	
	b*		0.09	
8. Cyan	L*		0.20	
	a*		0.10	
	b*		0.11	
Included Reflectance Std. Light Source Type A(2°, 10°), C(2°, 10°), D65(2°, 10°)				
1. White	x		0.001 1	
	y		0.001 0	
2. l,Gray	x		0.001 1	
	y		0.001 1	
3. m,Gray	x		0.001 0	
	y		0.001 1	
4. d,Gray	x		0.001 1	
	y		0.001 1	
5. Red	x		0.001 3	
	y		0.001 0	
6. Yellow	x		0.001 1	
	y		0.001 1	
7. Green	x		0.001 1	
	y		0.001 1	
8. Cyan	x		0.001 1	
	y		0.001 1	

703. Property of materials

Measured Quantity Instrument or Gauge	Field Code	Range	Measurement uncertainty (The Confidence Level is about 95 %)	Standard/Method of Measurement etc.
Color standard tiles	70304			Color Standard Tiles/ SICT-CP-70304
Exclude Reflectance Std. Light Source Type A(2°, 10°), C(2°, 10°), D65(2°, 10°)				
1. White	X		0.77	
	Y		0.72	
	Z		0.81	
2. l,Gray	X		0.52	
	Y		0.49	
	Z		0.55	
3. m,Gray	X		0.20	
	Y		0.18	
	Z		0.22	
4. d,Gray	X		0.05	
	Y		0.05	
	Z		0.06	
5. Red	X		0.25	
	Y		0.13	
	Z		0.08	
6. Yellow	X		0.62	
	Y		0.53	
	Z		0.13	
7. Green	X		0.12	
	Y		0.16	
	Z		0.12	
8. Cyan	X		0.13	
	Y		0.17	
	Z		0.37	
Exclude Reflectance Std. Light Source Type A(2°, 10°), C(2°, 10°), D65(2°, 10°)				
1. White	L*		0.30	
	a*		0.09	
	b*		0.08	
2. l,Gray	L*		0.27	
	a*		0.08	
	b*		0.07	
3. m,Gray	L*		0.20	
	a*		0.06	
	b*		0.05	
4. d,Gray	L*		0.13	
	a*		0.05	
	b*		0.05	
5. Red	L*		0.20	
	a*		0.23	
	b*		0.28	
6. Yellow	L*		0.58	
	a*		0.12	
	b*		0.41	
7. Green	L*		0.18	
	a*		0.12	
	b*		0.10	
8. Cyan	L*		0.19	
	a*		0.11	
	b*		0.13	

703. Property of materials

Measured Quantity Instrument or Gauge	Field Code	Range	Measurement uncertainty (The Confidence Level is about 95 %)	Standard/Method of Measurement etc.
Color standard tiles Exclude Reflectance Std. Light Source Type A(2°, 10°), C(2°, 10°), D65(2°, 10°) 1. White 2. l,Gray 3. m,Gray 4. d,Gray 5. Red 6. Yellow 7. Green 8. Cyan Absolute Spectral Reflectance White Plate (Include, Exclude Reflectance)	70304	x y x y x y x y x y x y x y x y 360 nm (360 ~ 830) nm	0.001 0 0.001 0 0.001 0 0.001 0 0.001 0 0.001 1 0.001 0 0.001 1 0.001 7 0.001 0 0.001 0 0.001 1 0.001 0 0.001 0 0.001 0 0.001 0 0.012 0.013	Color Standard Tiles/ SICT-CP-70304
Gloss meters Gloss	70306	20° 60° 85°	1.5×10^{-2} 1.2×10^{-2} 1.0×10^{-2}	Gloss Standard/ SICT-CP-70306
Gloss standard plates Gloss	70307	20° 60° 85°	1.6×10^{-2} 1.4×10^{-2} 1.2×10^{-2}	Gloss Meter/ SICT-CP-70307
Haze meters Haze Transmittance	70308	H-1 H-5 H-10 H-20 H-30 T-30 T-50 T-70 T-90	0.24 0.20 0.4 0.5 0.7 0.5 0.5 0.6 0.5	Haze Standard Plate, Transmittance Standard Plates/ SICT-CP-70308
Lens meters Vertex diopter	70312	-25 m ⁻¹ -20 m ⁻¹ -15 m ⁻¹ -10 m ⁻¹ -5 m ⁻¹ 5 m ⁻¹ 10 m ⁻¹ 15 m ⁻¹ 20 m ⁻¹ 25 m ⁻¹	0.07 m ⁻¹ 0.06 m ⁻¹ 0.04 m ⁻¹ 0.03 m ⁻¹ 0.02 m ⁻¹ 0.02 m ⁻¹ 0.02 m ⁻¹ 0.04 m ⁻¹ 0.05 m ⁻¹ 0.07 m ⁻¹	Reference Lens/ SICT-CP-70312

703. Property of materials

Measured Quantity Instrument or Gauge	Field Code	Range	Measurement uncertainty (The Confidence Level is about 95 %)	Standard/Method of Measurement etc.
Optical densitometers Density	70315	1 Step ~ 10 Step 11 Step 11 Step ~ 15 Step	0.03 0.06 0.11	Density CRM/ SICT-CP-70315
Reflectance meters Reflectance	70319	380 nm (380 ~ 480) nm (480 ~ 780) nm	8.4×10^{-3} 9.1×10^{-3} 7.8×10^{-3}	Absolute Spectral Reflectance White Standard Plates/ SICT-CP-70319
Refractometers Refracto	70321	1.332 99 nD (1.332 99 ~ 1.505 80) nD CRM 1.51 nD CRM 1.62 nD	0.000 06 nD 0.000 06 nD 0.000 2 nD 0.000 2 nD	Reference Refracto CRM/ SICT-CP-70321
Transmittance meters Transmittance	70323	(Filter No 10) 250 nm 300 nm 350 nm 400 nm 450 nm 500 nm 550 nm 600 nm 650 nm 700 nm 750 nm (Filter No 50) 250 nm 300 nm 350 nm 400 nm 450 nm 500 nm 550 nm 600 nm 650 nm 700 nm 750 nm (Filter No 90) 250 nm 300 nm 350 nm 400 nm 450 nm 500 nm 550 nm 600 nm 650 nm 700 nm 750 nm	9.8×10^{-3} 8.1×10^{-3} 8.1×10^{-3} 5.5×10^{-3} 5.4×10^{-3} 5.3×10^{-3} 5.2×10^{-3} 5.2×10^{-3} 5.3×10^{-3} 5.3×10^{-3} 5.5×10^{-3} 8.0×10^{-3} 8.0×10^{-3} 7.7×10^{-3} 5.1×10^{-3} 5.1×10^{-3} 5.1×10^{-3} 5.1×10^{-3} 5.1×10^{-3} 5.0×10^{-3} 5.1×10^{-3} 5.1×10^{-3} 8.0×10^{-3} 8.0×10^{-3} 7.6×10^{-3} 5.1×10^{-3} 5.0×10^{-3} 5.0×10^{-3} 5.0×10^{-3} 5.1×10^{-3} 5.0×10^{-3} 5.1×10^{-3} 5.2×10^{-3}	Transmittance Filter/ SICT-CP-70323

703. Property of materials

Measured Quantity Instrument or Gauge	Field Code	Range	Measurement uncertainty (The Confidence Level is about 95 %)	Standard/Method of Measurement etc.
Spectrophotometers including FT-IR spectrophotometers	70325			Wavelength Filters, Transmittance Filters, Absolute Spectral Reflectance White Standard Plates, Wavenumber Filters/ SICT-CP-70325
Wavelength		(240.7 ~ 976.1) nm (990.2 ~ 2 536.5) nm	0.4 nm 0.5 nm	
Transmittance		(Filter No 10) 250 nm 300 nm 350 nm 400 nm 450 nm 500 nm 550 nm 600 nm 650 nm 700 nm 750 nm 800 nm 900 nm 1 000 nm 1 200 nm 1 400 nm 1 600 nm 1 800 nm 2 000 nm 2 200 nm 2 400 nm 2 450 nm (Filter No 30) 250 nm 300 nm 350 nm 400 nm 450 nm 500 nm 550 nm 600 nm 650 nm 700 nm 750 nm 800 nm 900 nm 1 000 nm 1 200 nm 1 400 nm 1 600 nm 1 800 nm 2 000 nm 2 200 nm 2 400 nm 2 450 nm	 8.4×10^{-3} 8.5×10^{-3} 8.2×10^{-3} 5.7×10^{-3} 5.7×10^{-3} 6.0×10^{-3} 6.2×10^{-3} 5.9×10^{-3} 5.4×10^{-3} 5.8×10^{-3} 6.0×10^{-3} 6.9×10^{-3} 7.2×10^{-3} 7.5×10^{-3} 7.8×10^{-3} 6.9×10^{-3} 6.9×10^{-3} 7.3×10^{-3} 7.3×10^{-3} 9.1×10^{-3} 8.0×10^{-3} 1.2×10^{-2} 8.2×10^{-3} 8.4×10^{-3} 7.9×10^{-3} 5.6×10^{-3} 5.7×10^{-3} 5.6×10^{-3} 5.6×10^{-3} 5.6×10^{-3} 5.6×10^{-3} 5.6×10^{-3} 6.8×10^{-3} 6.9×10^{-3} 6.7×10^{-3} 6.7×10^{-3} 6.6×10^{-3} 6.7×10^{-3} 6.7×10^{-3} 6.7×10^{-3} 7.1×10^{-3} 6.5×10^{-3} 6.6×10^{-3}	

703. Property of materials

Measured Quantity Instrument or Gauge	Field Code	Range	Measurement uncertainty (The Confidence Level is about 95 %)	Standard/Method of Measurement etc.
Spectrophotometers including FT-IR spectrophotometers	70325			Wavelength Filters, Transmittance Filters, Absolute Spectral Reflectance White Standard Plates, Wavenumber Filters/ SICT-CP-70325
Transmittance		(Filter No 40)		
		250 nm	8.8×10^{-3}	
		300 nm	8.4×10^{-3}	
		350 nm	8.1×10^{-3}	
		400 nm	7.8×10^{-3}	
		450 nm	7.9×10^{-3}	
		500 nm	7.9×10^{-3}	
		550 nm	8.4×10^{-3}	
		600 nm	7.9×10^{-3}	
		650 nm	7.7×10^{-3}	
		700 nm	7.8×10^{-3}	
		750 nm	7.8×10^{-3}	
		(Filter No 50)		
		250 nm	8.3×10^{-3}	
		300 nm	8.2×10^{-3}	
		350 nm	8.0×10^{-3}	
		400 nm	5.3×10^{-3}	
		450 nm	5.3×10^{-3}	
		500 nm	5.2×10^{-3}	
		550 nm	5.4×10^{-3}	
		600 nm	5.2×10^{-3}	
		650 nm	5.1×10^{-3}	
		700 nm	5.2×10^{-3}	
		750 nm	5.2×10^{-3}	
		(Filter No 90)		
		250 nm	8.1×10^{-3}	
		300 nm	8.1×10^{-3}	
		350 nm	7.8×10^{-3}	
		400 nm	5.2×10^{-3}	
		450 nm	5.3×10^{-3}	
		500 nm	5.1×10^{-3}	
		550 nm	5.1×10^{-3}	
		600 nm	5.2×10^{-3}	
		650 nm	5.1×10^{-3}	
		700 nm	5.2×10^{-3}	
		750 nm	5.3×10^{-3}	
		800 nm	7.0×10^{-3}	
		900 nm	6.9×10^{-3}	
		1 000 nm	7.0×10^{-3}	
		1 200 nm	6.5×10^{-3}	
		1 400 nm	6.3×10^{-3}	
		1 600 nm	6.4×10^{-3}	
		1 800 nm	6.4×10^{-3}	
		2 000 nm	6.8×10^{-3}	
		2 200 nm	7.1×10^{-3}	
		2 400 nm	7.1×10^{-3}	
		2 450 nm	6.5×10^{-3}	

703. Property of materials

Measured Quantity Instrument or Gauge	Field Code	Range	Measurement uncertainty (The Confidence Level is about 95 %)	Standard/Method of Measurement etc.
Spectrophotometers including FT-IR spectrophotometers	70325			Wavelength Filters, Transmittance Filters, Absolute Spectral Reflectance White Standard Plates, Wavenumber Filters/ SICT-CP-70325
Transmittance		(Filter No 1) 440 nm 465 nm 546 nm 590 nm 635 nm (Filter No 3) 440 nm 465 nm 546 nm 590 nm 635 nm	 1.4×10^{-2} 8.9×10^{-3} 9.7×10^{-3} 1.2×10^{-2} 1.0×10^{-2} 8.8×10^{-3} 6.0×10^{-3} 6.0×10^{-3} 6.2×10^{-3} 6.4×10^{-3}	
Absorbance		(Filter No 10) 250 nm 300 nm 350 nm 400 nm 450 nm 500 nm 550 nm 600 nm 650 nm 700 nm 750 nm 800 nm 900 nm 1 000 nm 1 200 nm 1 400 nm 1 600 nm 1 800 nm 2 000 nm 2 200 nm 2 400 nm 2 450 nm (Filter No 30) 250 nm 300 nm 350 nm 400 nm 450 nm 500 nm 550 nm 600 nm 650 nm 700 nm 750 nm 800 nm 900 nm	 0.003 6 0.003 6 0.003 5 0.002 3 0.002 3 0.002 3 0.002 3 0.002 4 0.002 3 0.002 3 0.002 3 0.002 9 0.002 9 0.002 9 0.002 8 0.002 8 0.002 8 0.002 8 0.002 8 0.002 8 0.003 0 0.003 0 0.004 2 0.003 6 0.003 6 0.003 4 0.002 3 0.002 3 0.002 3 0.002 3 0.002 3 0.002 3 0.002 3 0.002 3 0.002 9 0.002 9	

703. Property of materials

Measured Quantity Instrument or Gauge	Field Code	Range	Measurement uncertainty (The Confidence Level is about 95 %)	Standard/Method of Measurement etc.
Spectrophotometers including FT-IR spectrophotometers	70325			Wavelength Filters, Transmittance Filters, Absolute Spectral Reflectance White Standard Plates, Wavenumber Filters/ SICT-CP-70325
Absorbance		(Filter No 30)		
		1 000 nm	0.002 8	
		1 200 nm	0.002 8	
		1 400 nm	0.002 8	
		1 600 nm	0.002 8	
		1 800 nm	0.002 8	
		2 000 nm	0.002 8	
		2 200 nm	0.003 0	
		2 400 nm	0.002 9	
		2 450 nm	0.002 9	
		(Filter No 40)		
		250 nm	0.003 9	
		300 nm	0.003 9	
		350 nm	0.003 7	
		400 nm	0.002 7	
		450 nm	0.002 7	
		500 nm	0.002 7	
		550 nm	0.002 7	
		600 nm	0.002 8	
		650 nm	0.002 6	
		700 nm	0.002 7	
		750 nm	0.002 7	
		(Filter No 50)		
		250 nm	0.003 7	
		300 nm	0.003 6	
		350 nm	0.003 4	
		400 nm	0.002 3	
		450 nm	0.002 3	
		500 nm	0.002 4	
		550 nm	0.002 6	
		600 nm	0.002 4	
		650 nm	0.002 4	
		700 nm	0.002 5	
		750 nm	0.002 4	
		(Filter No 90)		
		250 nm	0.003 6	
		300 nm	0.003 7	
		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 4	
		650 nm	0.002 3	
		700 nm	0.002 3	
		750 nm	0.002 3	
		800 nm	0.002 8	
		900 nm	0.003 0	

703. Property of materials

Measured Quantity Instrument or Gauge	Field Code	Range	Measurement uncertainty (The Confidence Level is about 95 %)	Standard/Method of Measurement etc.
Spectrophotometers including FT-IR spectrophotometers	70325			Wavelength Filters, Transmittance Filters, Absolute Spectral Reflectance White Standard Plates, Wavenumber Filters/ SICT-CP-70325
Absorbance		(Filter No 90) 1 000 nm 1 200 nm 1 400 nm 1 600 nm 1 800 nm 2 000 nm 2 200 nm 2 400 nm 2 450 nm (Filter No 1) 440 nm 465 nm 546 nm 590 nm 635 nm (Filter No 3) 440 nm 465 nm 546 nm 590 nm 635 nm	0.002 8 0.002 8 0.002 8 0.002 8 0.002 8 0.002 8 0.002 9 0.002 8 0.002 9 0.004 1 0.002 4 0.002 9 0.003 0 0.002 8 0.003 1 0.002 4 0.002 5 0.002 7 0.002 7	
Spectral Reflectance		250 nm (250 ~ 2 380) nm (2 380 ~ 2 400) nm	1.1×10^{-2} 1.2×10^{-2} 3.5×10^{-2}	
Wavenumber		544.9 cm ⁻¹ 842.1 cm ⁻¹ 906.82 cm ⁻¹ 1 028.42 cm ⁻¹ 1 069.27 cm ⁻¹ 1 154.62 cm ⁻¹ 1 583.04 cm ⁻¹ 1 601.38 cm ⁻¹ 2 850.20 cm ⁻¹ 3 001.40 cm ⁻¹ 3 026.44 cm ⁻¹ 3 060.14 cm ⁻¹ 3 082.22 cm ⁻¹	2.5 cm ⁻¹ 1.3 cm ⁻¹ 0.12 cm ⁻¹ 0.28 cm ⁻¹ 0.78 cm ⁻¹ 0.12 cm ⁻¹ 0.12 cm ⁻¹ 0.13 cm ⁻¹ 0.14 cm ⁻¹ 0.12 cm ⁻¹ 0.12 cm ⁻¹ 0.12 cm ⁻¹ 0.12 cm ⁻¹	

703. Property of materials

Measured Quantity Instrument or Gauge	Field Code	Range	Measurement uncertainty (The Confidence Level is about 95 %)	Standard/Method of Measurement etc.
Wavelength reference materials; absorption cell, bandpass filter, etc.	70326			Spectrophotometers, Absolute Spectral Reflectance White Standard Plates/ SICT-CP-70326
Wavelength		(240 ~ 750) nm	0.5 nm	
Transmittance		(0.1 ~ 0.3)		
		250 nm	8.9×10^{-3}	
		300 nm	9.3×10^{-3}	
		350 nm	8.4×10^{-3}	
		400 nm	6.8×10^{-3}	
		450 nm	6.9×10^{-3}	
		500 nm	6.8×10^{-3}	
		550 nm	6.9×10^{-3}	
		600 nm	7.0×10^{-3}	
		650 nm	6.6×10^{-3}	
		700 nm	7.0×10^{-3}	
		750 nm	6.7×10^{-3}	
		(0.3 ~ 0.5)		
		250 nm	8.5×10^{-3}	
		300 nm	8.4×10^{-3}	
		350 nm	8.2×10^{-3}	
		400 nm	5.7×10^{-3}	
		450 nm	5.8×10^{-3}	
		500 nm	5.9×10^{-3}	
		550 nm	6.0×10^{-3}	
		600 nm	5.8×10^{-3}	
		650 nm	5.7×10^{-3}	
		700 nm	5.6×10^{-3}	
		750 nm	5.7×10^{-3}	
		(0.5 ~ 0.9)		
		250 nm	8.1×10^{-3}	
		300 nm	8.1×10^{-3}	
		350 nm	8.0×10^{-3}	
		400 nm	5.6×10^{-3}	
		450 nm	5.4×10^{-3}	
		500 nm	5.5×10^{-3}	
		550 nm	5.5×10^{-3}	
		600 nm	5.5×10^{-3}	
		650 nm	5.6×10^{-3}	
		700 nm	5.5×10^{-3}	
		750 nm	5.6×10^{-3}	

703. Property of materials

Measured Quantity Instrument or Gauge	Field Code	Range	Measurement uncertainty (The Confidence Level is about 95 %)	Standard/Method of Measurement etc.
Wavelength reference materials; absorption cell, bandpass filter, etc.	70326			Spectrophotometers, Absolute Spectral Reflectance White Standard Plates/ SICT-CP-70326
Absorbance		(0.1 ~ 0.3)		
		250 nm	0.004 2	
		300 nm	0.004 2	
		350 nm	0.004 0	
		400 nm	0.003 3	
		450 nm	0.003 3	
		500 nm	0.003 3	
		550 nm	0.003 3	
		600 nm	0.003 3	
		650 nm	0.003 5	
		700 nm	0.003 4	
		750 nm	0.003 2	
		(0.3 ~ 0.5)		
		250 nm	0.004 1	
		300 nm	0.003 8	
		350 nm	0.003 7	
		400 nm	0.002 6	
		450 nm	0.002 7	
		500 nm	0.002 7	
		550 nm	0.002 7	
		600 nm	0.002 7	
		650 nm	0.002 6	
		700 nm	0.002 7	
		750 nm	0.002 7	
		(0.5 ~ 0.9)		
		250 nm	0.004 5	
		300 nm	0.004 6	
		350 nm	0.003 6	
		400 nm	0.002 6	
		450 nm	0.002 6	
		500 nm	0.002 6	
		550 nm	0.002 7	
		600 nm	0.002 7	
		650 nm	0.002 7	
		700 nm	0.002 6	
		750 nm	0.002 7	
Reflectance		(360 ~ 830) nm	1.2×10^{-2}	

704. Fiber optics

Measured Quantity Instrument or Gauge	Field Code	Range	Measurement uncertainty (The Confidence Level is about 95 %)	Standard/Method of Measurement etc.
Broadband light sources Wavelength output Optical power output	70402	1 310 nm, 1 550 nm 1 310 nm, 1 550 nm -60 dBm (-60 ~ 0) dBm	0.058 nm 0.060 dB 0.060 dB	Optical spectrum analyzer, Optical powermeter/ SICT-CP-70402
Optical attenuators Optical Attenuation	70410	1 310 nm, 1 550 nm (0 ~ 60) dB	0.06 dB	Optical powermeter, Optical power stabilized lasers and LDs/ SICT-CP-70410
Fiber-optic power meters Absolute optical power Non-Linearity	70412	1 310 nm -60 dBm (-60 ~ 0) dBm 1 550 nm -60 dBm (-60 ~ 0) dBm 1 310 nm, 1 550 nm -60 dBm (-60 ~ 0) dBm	0.068 dB 0.068 dB 0.069 dB 0.069 dB 0.03 dB 0.03 dB	Optical powermeter, Optical power stabilized lasers and LDs, Optical attenuator/ SICT-CP-70412
Optical loss testers Optical Attenuation	70413	1 310 nm, 1 550 nm (0 ~ 60) dB	0.03 dB	Optical attenuator/ SICT-CP-70413
Optical multimeters Absolute optical power Non-Linearity	70415	1 310 nm -60 dBm (-60 ~ 0) dBm 1 550 nm -60 dBm (-60 ~ 0) dBm 1 310 nm, 1 550 nm -60 dBm (-60 ~ 0) dBm	0.068 dB 0.068 dB 0.069 dB 0.069 dB 0.03 dB 0.03 dB	Optical powermeter, Optical power stabilized lasers and LDs, Optical attenuator/ SICT-CP-70415
Optical network analyzer (Optical multimeter) Absolute optical power (Optical spectrum analyzer) Wavelength Resolution	70416	1 310 nm -60 dBm (-60 ~ 0) dBm 1 550 nm -60 dBm (-60 ~ 0) dBm 1 310 nm 1 550 nm 1 310 nm, 1 550 nm 0.1 nm (0.1 ~ 1) nm	0.068 dB 0.068 dB 0.069 dB 0.069 dB 0.058 nm 0.058 nm 0.058 nm 0.058 nm	Optical powermeter, OTDR, Fiber reference, Wavelength meter Optical spectrum analyzer Optical attenuator Optical Returnloss generator/ SICT-CP-70416

704. Fiber optics

Measured Quantity Instrument or Gauge	Field Code	Range	Measurement uncertainty (The Confidence Level is about 95 %)	Standard/Method of Measurement etc.
Optical network analyzer	70416			Optical powermeter, OTDR, Fiber reference, Wavelength meter Optical spectrum analyzer Optical attenuator Optical Returnloss generator/ SICT-CP-70416
Absolute optical power		1 310 nm -60 dBm (-60 ~ 0) dBm	0.068 dB 0.068 dB	
		1 550 nm -60 dBm (-60 ~ 0) dBm	0.069 dB 0.069 dB	
(Optical attenuator) Optical Attenuation		1 310 nm, 1 550 nm (0 ~ 60) dB	0.06 dB	
(Return loss meter) Return loss		1 310 nm 20 dB, 30 dB 40 dB	0.6 dB 0.7 dB	
		1 550 nm 20 dB, 30 dB 40 dB	0.5 dB 0.6 dB	
(Optical time domain reflectometer) Wavelength output		1 310 nm, 1 550 nm	0.06 nm	
Optical Length		CRM 3 km Fiber 1 310 nm, 1 550 nm	0.09 m	
		CRM 13 km Fiber 1 310 nm, 1 550 nm	0.34 m	
Optical loss		1 310 nm CRM 7.3 dB Fiber CRM 2.9 dB Fiber	0.11 dB 0.10 dB	
		1 550 nm CRM 4.2 dB Fiber CRM 1.6 dB Fiber	0.10 dB 0.08 dB	
Optical spectrum analyzers	70417			Optical powermeter, Optical power stabilized lasers and LDs, Optical attenuator, Optical spectrum analyzer/ SICT-CP-70417
Wavelength		1 310 nm 1 550 nm	0.058 nm 0.058 nm	
Resolution		1 310 nm, 1 550 nm 0.1 nm (0.1 ~ 1) nm	0.058 nm 0.058 nm	
Absolute optical power		1 310 nm -60 dBm (-60 ~ 0) dBm	0.068 dB 0.068 dB	
		1 550 nm -60 dBm (-60 ~ 0) dBm	0.069 dB 0.069 dB	
Non-Linearity		1 310 nm, 1 550 nm -60 dBm (-60 ~ 0) dBm	0.03 dB 0.03 dB	

704. Fiber optics

Measured Quantity Instrument or Gauge	Field Code	Range	Measurement uncertainty (The Confidence Level is about 95 %)	Standard/Method of Measurement etc.
Optical time domain reflectometers; OTDR Wavelength output Optical Length Optical loss	70418	1 310 nm, 1 550 nm CRM 3 km Fiber 1 310 nm, 1 550 nm CRM 13 km Fiber 1 310 nm, 1 550 nm 1 310 nm CRM 7.3 dB Fiber CRM 2.9 dB Fiber 1 550 nm CRM 4.2 dB Fiber CRM 1.6 dB Fiber	0.06 nm 0.09 m 0.34 m 0.11 dB 0.10 dB 0.10 dB 0.08 dB	Optical length fiber reference, Optical fiberloss reference, Optical spectrum analyzer/ SICT-CP-70418
Return loss meters Return loss	70423	1 310 nm 20 dB, 30 dB 40 dB 1 550 nm 20 dB, 30 dB 40 dB	 0.6 dB 0.7 dB 0.5 dB 0.6 dB	Optical Returnloss generator SICT-CP-70423
Frequency stabilized lasers and LDs Wavelength optical power	70429	1 310 nm, 1 550 nm 1 310 nm, 1 550 nm -60 dBm (-60 ~ 0) dBm	4 pm 0.060 dB 0.060 dB	Wavelength meter, Optical powermeter/ SICT-CP-70429
ASE light sources Wavelength output Optical power output	70430	1 310 nm, 1 550 nm 1 310 nm, 1 550 nm -60 dBm (-60 ~ 0) dBm	0.058 nm 0.060 dB 0.060 dB	Optical spectrum analyzer, 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 -60 dBm (-60 ~ 0) dBm	4 pm 0.060 dB 0.060 dB	Wavelength meter, Optical powermeter/ SICT-CP-70433

901. Chemical analysis

Measured Quantity Instrument or Gauge	Field Code	Range	Measurement uncertainty (The Confidence Level is about 95 %)	Standard/Method of Measurement etc.
Breath alcohol analyzers	90101			Standard gas/ SICT-CP-90101
Dry process		(0.000 ~ 0.080) %BAC (0.080 ~ 0.190) %BAC	3.6×10^{-2} 2.2×10^{-2}	
Wet process		(0.000 ~ 0.080) %BAC (0.080 ~ 0.150) %BAC (0.150 ~ 0.400) %BAC	3.2×10^{-2} 1.7×10^{-2} 1.3×10^{-2}	
Environmental air quality monitoring instruments	90102			Standard gas/ SICT-CP-90102
		(0 ~ 700) $\mu\text{mol/mol}$	1.0×10^{-2}	
		(0.07 ~ 1.5) cmol/mol	2.0×10^{-2}	
		(1.5 ~ 20) cmol/mol	2.1×10^{-2}	
Carbon monoxide		(0 ~ 850) $\mu\text{mol/mol}$	2.2×10^{-2}	
Carbon dioxide		(0 ~ 0.50) cmol/mol	2.0×10^{-2}	
		(0.50 ~ 5.00) cmol/mol	2.2×10^{-2}	
		(5.00 ~ 19.00) cmol/mol	2.1×10^{-2}	
Nitrogen monoxide		(0 ~ 850) $\mu\text{mol/mol}$	2.2×10^{-2}	
Isobutane		(0 ~ 0.8) cmol/mol	2.4×10^{-2}	
Methane		(0 ~ 2.0) cmol/mol	2.1×10^{-2}	
Hydrogen sulfide		(0 ~ 45) $\mu\text{mol/mol}$	5.0×10^{-2}	
Propane		(0 ~ 2 000) $\mu\text{mol/mol}$	3.0×10^{-2}	
Isobutylene		(0 ~ 25) $\mu\text{mol/mol}$	1.0×10^{-2}	
Ammonia		(0 ~ 50) $\mu\text{mol/mol}$	5.0×10^{-2}	
Sulfur dioxide		5 $\mu\text{mol/mol}$	3.0×10^{-2}	
		(5 ~ 850) $\mu\text{mol/mol}$	2.2×10^{-2}	
Nitrogen dioxide		(0 ~ 100) $\mu\text{mol/mol}$	3.0×10^{-2}	
		(100 ~ 1 000) $\mu\text{mol/mol}$	2.2×10^{-2}	
Hydrogen		(0 ~ 500) $\mu\text{mol/mol}$	2.1×10^{-2}	
		(0.05 ~ 2.0) cmol/mol	2.2×10^{-2}	
Hydrogen chloride		(0 ~ 50) $\mu\text{mol/mol}$	5.1×10^{-2}	
Sulfur hexafluoride		(0 ~ 100) cmol/mol	0.1×10^{-2}	
Ozone		0.0 nmol/mol	2.2 nmol/mol	
		100.0 nmol/mol	2.6×10^{-2}	
		(100.0 ~ 1 000.0) nmol/mol	2.5×10^{-2}	
Gas analyzers	90103			Standard gas/ SICT-CP-90103
Oxygen		(0 ~ 700) $\mu\text{mol/mol}$	1.0×10^{-2}	
		(0.07 ~ 1.5) cmol/mol	2.0×10^{-2}	
		(1.5 ~ 20) cmol/mol	2.1×10^{-2}	
Carbon monoxide		(0 ~ 850) $\mu\text{mol/mol}$	2.2×10^{-2}	
Carbon dioxide		(0 ~ 0.50) cmol/mol	2.0×10^{-2}	
		(0.50 ~ 5.00) cmol/mol	2.2×10^{-2}	
		(5.00 ~ 19.00) cmol/mol	2.1×10^{-2}	
Nitrogen monoxide		(0 ~ 850) $\mu\text{mol/mol}$	2.2×10^{-2}	
Isobutane		(0 ~ 0.8) cmol/mol	2.4×10^{-2}	
Methane		(0 ~ 2.0) cmol/mol	2.1×10^{-2}	
Hydrogen sulfide		(0 ~ 45) $\mu\text{mol/mol}$	5.0×10^{-2}	
Propane		(0 ~ 2 000) $\mu\text{mol/mol}$	3.0×10^{-2}	
Isobutylene		(0 ~ 25) $\mu\text{mol/mol}$	1.0×10^{-2}	
Ammonia		(0 ~ 50) $\mu\text{mol/mol}$	5.0×10^{-2}	
Sulfur dioxide		5 $\mu\text{mol/mol}$	3.0×10^{-2}	
		(5 ~ 850) $\mu\text{mol/mol}$	2.2×10^{-2}	
Nitrogen dioxide		(0 ~ 100) $\mu\text{mol/mol}$	3.0×10^{-2}	
		(100 ~ 1 000) $\mu\text{mol/mol}$	2.2×10^{-2}	
Hydrogen		(0 ~ 500) $\mu\text{mol/mol}$	2.1×10^{-2}	
		(0.05 ~ 2.0) cmol/mol	2.2×10^{-2}	
Hydrogen chloride		(0 ~ 50) $\mu\text{mol/mol}$	5.1×10^{-2}	
Sulfur hexafluoride		(0 ~ 100) cmol/mol	0.1×10^{-2}	
Ozone		0.0 nmol/mol	2.2 nmol/mol	
		100.0 nmol/mol	2.6×10^{-2}	
		(100.0 ~ 1 000.0) nmol/mol	2.5×10^{-2}	

901. Chemical analysis

Measured Quantity Instrument or Gauge	Field Code	Range	Measurement uncertainty (The Confidence Level is about 95 %)	Standard/Method of Measurement etc.
Exhaust gas test instruments	90104			Standard gas/ SICT-CP-90104
Oxygen		(0 ~ 20) cmol/mol	2.1×10^{-2}	
Carbon monoxide		(0 ~ 5.0) cmol/mol	2.2×10^{-2}	
Carbon dioxide		(0 ~ 19) cmol/mol	2.2×10^{-2}	
Nitrogen monoxide		(0 ~ 2 000) μ mol/mol	2.0×10^{-2}	
Isobutane		(0 ~ 0.8) cmol/mol	2.4×10^{-2}	
Methane		(0 ~ 2.0) cmol/mol	2.1×10^{-2}	
Propane		(0 ~ 2 000) μ mol/mol	3.0×10^{-2}	
Ammonia		(0 ~ 50) μ mol/mol	5.0×10^{-2}	
Sulfur dioxide		5 μ mol/mol	3.0×10^{-2}	
		(5 ~ 850) μ mol/mol	2.2×10^{-2}	
Nitrogen dioxide		(0 ~ 100) μ mol/mol	3.1×10^{-2}	
		(100 ~ 1 000) μ mol/mol	2.1×10^{-2}	
Hydrogen		(0 ~ 500) μ mol/mol	2.1×10^{-2}	
		(0.05 ~ 2.0) cmol/mol	2.2×10^{-2}	
Others; pH meters, Electrical conductivity meters, Turbidity meters	90199			CRM/ SICT-CP-90199-1
Electrical conductivity meter		10 μ S/cm	0.9 μ S/cm	
		100 μ S/cm	2.2 μ S/cm	
		1 413 μ S/cm	5.0 μ S/cm	
		12.85 mS/cm	0.15 mS/cm	
		111.3 mS/cm	1.2 mS/cm	
		200.0 mS/cm	0.56 mS/cm	
pH meter		(4 ~ 10) pH	0.013 pH	SICT-CP-90199-2
Turbidity		1 NTU	0.05 NTU	SICT-CP-90199-3
		10 NTU	0.4 NTU	
		100 NTU	4 NTU	
		500 NTU	6 NTU	
		1 000 NTU	10 NTU	