

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

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CALIBRATION

Valid To : March. 21, 2029.

Accreditation No. : KC05-187

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

Field Code	Item of Calibration	on-site	Field Code	Item of Calibration	on-site	Field Code	Item of Calibration	on-site	
102. Linear dimension			10236	Coating thickness testers	Y	10514	Taper plug gauges	N	
10201	Balls	N	103. Angle			10517	Stylus type roughness testers	Y	
10206	Dial/cylinder gauge testers	N	10304	Bevel protractors	N	10518	Socket gauges	N	
10207	Doctor blades	N	10311	Plate/square/electric levels	N		for electric bulb		
10209	End bars	N	10318	Squareness testers,	N	10525	Thread plug gauges	N	
10210	Extensometers, linear displacement transducers	Y		right angle testers		10526	Taper thread plug gauges	N	
			10319	Cylindrical squares	N	10527	Thread ring gauges	N	
10211	Filler gauges	N	10320	Precision squares	N	10529	V-blocks, box blocks	N	
10212	Film applicators	N	104. Form			106. Various dimensional			
10213	Gap gauges	N	10401	Form testers	Y	10601	Inside/Outside/Gear tooth	Y	
10214	Gage Blocks, by comparison	N	10404	Optical flats	N		calipers, Calipergauges		
10216	Height gauges/measuring machines	Y	10405	Optical parallels	N	10603	Cylinder/bore gauges	Y	
			10406	Parallel blocks	N	10604	Depthgauges, Depthmicrometers	Y	
10220	Measuring machines, standard	Y	10407	Precision surface plates	Y	10605	Dial/digital gauges	Y	
			10409	Roundness measurement instruments	Y	10608	Grind gauges	N	
10223	Electronic micrometers	N		10412		Straight edges	N	10609	Microindicators, Test indicators
10224	Height micrometers, Riser blocks	Y	10413	Straight rules	N	10610	Micrometer heads		Y
			10227 Standard tape rules/ Peripheral gauges			N	105. Complex geometry		
10228	Cylindrical plug/pin gauges, thread measuring wire gauges	N	10501	Base gauges for electric bulb	N	10612	Inside micrometers	Y	
			10502	Bench centers	Y	10613	Outside micrometers	Y	
10229	Radius gauges	N	10503	Contact coordinate measuring machines	Y	10617	Standard sieves	N	
						10620	Welding gauges	N	
10230	Cylindrical ring gauges	N	10504	Non-contact coordinate measuring machines	Y	201. Mass			
10232	Step gauges	N				20102	Auto-hopper scale balances	Y	
10233	Thickness gauges, taper	N	10511	Measuring microscopes, Profile projectors	Y	20104	Axle weigher balances	N	
10234	Ultrasonic thickness gauges	Y				20105	Counter beam balances	Y	
10235	Ultrasonic/coating thickness specimens	N	10512	Micro measuring microscopes	N	20107	Dial swing scale balances	Y	
						20108	Direct reading balances	Y	

Field Code	Item of Calibration	on-site	Field Code	Item of Calibration	on-site	Field Code	Item of Calibration	on-site
20109	Electric balances	Y	21006	Leeb hardness testers	N	40307	Voltagr / Current Phase	Y
20110	Equal arm balances	Y	211. Impact				Angle Meters	
20112	Platform scale balances	Y	21102	Impact testers, Charpy	Y	40310	Power Factor Meters	Y
20113	Spring scale balances	Y	21103	Impact testers, izod	Y	40311	Power Meters, AC	Y
20114	Trip balances	Y	301. Time / Frequency			40312	Power Supplies, AC	Y
20116	Weights	Y	30103	General frequency sources	Y	40313	Puncture / Safety Testers	Y
202. Force			30104	Frequency meters/counters	N	40318	Voltmeters, AC	Y
20202	Force measuring devices	N	30106	Time Interval Meter / Stop Watches & Timer	Y	404. Other DC & LF Measurements		
20203	Tension/Compression testing machines	Y				40403	Calibrators, Multimeter	Y
203. Torque			302. Velocity & Revolution			40410	Line Frequency Meters	Y
20204	Push-pull gauges	Y	30201	Standard RPM Generators	Y	40411	Function Generators	Y
203. Torque			30202	Contact Type Tachometer	Y	40414	Impulse Generators, LF	Y
20303	Torque wrenches/drivers	Y	30203	Photo Tachometers / Stroboscopes	Y	40416	Leakage Current Testers	Y
20399	Others : Nut runners	N				40417	AC / DC Loads, Electronic Electronic	Y
204. Pressure			401. DC Voltage & Current			40419	Multimeters, Analogue/Digital	Y
20406	Absolute pressure gauges	Y	40101	Ammeters, DC	Y	40421	Oscilloscopes	Y
20407	Blood pressure gauges	Y	40103	Calibrators, DC Voltage /Current	Y			
20408	Compound pressure gauges	Y	40104	Calibrators, Temperature Simulation	Y	40424	Recorders, Volt / Current	Y
20411	Gauge pressure gauges	Y				40425	Relay Test Sets	Y
20412	Pressure transducers/ transmitters	Y	40105	Current Shunts, DC	Y	40426	Signal Generators, LF	Y
20413	Dial type vacuum gauges	Y	40106	Galvanometers / Null Detectors	Y	501. Contact thermometry		
206. Volume			40108	Power Supplies, DC	Y	50101	Temperature generators ; ovens, furnaces, isothermal liquid baths, ice-point baths, dry-black calibrators	Y
20601	Volumetric glasswares	N	40112	Voltmeters, DC	Y			
20602	Pycnometers	N	402. Resistance, Capacitance & Inductance			50102	Temperature indicators/ recorders/ controllers, temperature calibrators	Y
20605	Concrete air content meters	N	40205	Earth Testers	Y	50103	Glass thermometers; liquid-in-glass, Beckmann	N
20606	Piston type volume meters	N	40210	Insulation Testers	Y			
207. Density			40213	Resistance Bridges / Simuilar Instruments	Y	50104	Resistance thermometers; SPRT, IPRT, thermistors, etc.	N
20704	Salinity meters	N	40214	Resistance Meters	Y	50105	Thermal expansion thermometers ; bimetal, gas or liquid type	N
20707	Chloride meters	N						
210. Hardness			40215	Resistors	Y			
21001	Brinell hardness testers	Y	403. AC Voltage, Current & Power					
21002	Rockwell hardness testers	Y	40301	Ammeters, AC	Y	40303	Calibrators, AC Voltage/ Current	Y
21003	Shore hardness testers	Y	40302	Clamp Ammeters / Voltmeters	Y			
21004	Vickers hardness testers	Y						
21005	Durometer hardness testers	N						

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						
50107	Temperature transducers	N						
502. Non contact thermometry								
50204	Standard radiation thermometers	N						
50206	Blackboby furnaces	N						
503. Humidity								
50302	Relative humidity hygrometers; polimer thinfilm, hair, etc.	N						
50304	Temperature humidity recorders; Hygrothermograph, etc	N						
50305	Transducers; dew-point/relative humidity	N						
50306	Humidity generators; two-pressure, two-temperature, flow mixing humidity gererator, constant temperature and humidity chamber, etc.	Y						

Note

1. This laboratory provides calibration services in permanent standard laboratory and at on-site.
 2. Laboratory conducts on-site calibration should meet requirements of KOLAS-SR-007.
 3. On-site calibration is allowed to items with marking 'Y', not allowed to items with marking 'N'.
 4. Measurement uncertainty normally is quoted as an expanded uncertainty at a coverage probability of 95%, which usually requires the use of a coverage factor of $K=2$. It expresses the lowest uncertainty of measurement that can be provided by accredited calbration laboratories in normal conditions.
 5. Due to the calibration environment such as reference standards or customers' facilities, it is note that uncertainty of measurement on a calibration certificate may be expressed larger than measurement uncertainty on scope of accreditation in general.
 6. 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 ~ 100) mm	$\sqrt{(0.40 \mu\text{m})^2 + (4.2 \times 10^{-6} \times l_0)^2}$	Measuring machines standard / KCSI-LE49
Dial/cylinder gauge testers	10206	(0 ~ 100) mm	$\sqrt{(0.26 \mu\text{m})^2 + (3.2 \times 10^{-6} \times l_0)^2}$	Gauge blocks / KCSI-LE11
Doctor blades	10207	(0 ~ 10) mm	3.4 μm	Height micrometers / KCSI-LE12
End bars	10209	(25 ~ 1 000) mm	$\sqrt{(1.6 \mu\text{m})^2 + (3.0 \times 10^{-6} \times l_0)^2}$	Electronic micrometers, Gauge blocks / KCSI-LE13
Extensometers, linear displacement transducers	10210	(0 ~ 500) mm	$\sqrt{(0.40 \mu\text{m})^2 + (44 \times 10^{-6} \times l_0)^2}$	Gauge blocks / KCSI-LE14
Filler gauges	10211	(0 ~ 5) mm	0.61 μm	Measuring machines standard, Outside micrometers / KCSI-LE15
Film applicators	10212	(0 ~ 10) mm	3.5 μm	Height micrometers / KCSI-LE16
Gap gauges	10213	(0 ~ 300) mm	3.7 μm	Height micrometers / KCSI-LE17
Gage Blocks, by comparison	10214	(0.5 ~ 100) mm	$\sqrt{(85 \text{ nm})^2 + (1.2 \times 10^{-6} \times l_0)^2}$	Gauge blocks, Gauge block comparators / KCSI-LE63
Height gauges/measuring machines	10216	(0 ~ 1 000) mm	$\sqrt{(1.6 \mu\text{m})^2 + (3.0 \times 10^{-6} \times l_0)^2}$	Gauge blocks, Caliper testers / KCSI-LE18
Standard measuring machines	10220	(0 ~ 500) mm	$\sqrt{(0.22 \mu\text{m})^2 + (3.0 \times 10^{-6} \times l_0)^2}$	Gauge blocks / KCSI-LE19
Electronic micrometers	10223	$\pm(0 \sim 5)$ mm	0.14 μm	Gauge blocks / KCSI-LE20
Height micrometers, riser blocks Riser blocks/blocks Heads	10224	(0 ~ 600) mm (0 ~ 30) mm	$\sqrt{(1.6 \mu\text{m})^2 + (3.0 \times 10^{-6} \times l_0)^2}$ 1.7 μm	Gauge blocks / KCSI-LE21 / KCSI-LE22
Standard tape rules, peripheral gauges	10227	(0 ~ 50) m	$\sqrt{(0.73 \text{ mm})^2 + (3.3 \times 10^{-6} \times l_0)^2}$	Standard tape rules / KCSI-LE23
Cylindrical plug/pin gauges, Thread measuring wire gauges	10228	(0 ~ 200) mm	$\sqrt{(0.42 \mu\text{m})^2 + (4.2 \times 10^{-6} \times l_0)^2}$	Gauge blocks, Measuring machines standard / KCSI-LE50, KCSI-LE51
Radius gauges	10229	(0.1 ~ 100) mm	2.8 μm	Measuring microscopes / KCSI-LE24
Cylindrical ring gauges	10230	(0.5 ~ 150) mm	$\sqrt{(0.82 \mu\text{m})^2 + (3.0 \times 10^{-6} \times l_0)^2}$	Gauge blocks, Measuring machines standard / KCSI-LE52
Step gauges	10232	(0 ~ 1 010) mm	$\sqrt{(1.7 \mu\text{m})^2 + (3.0 \times 10^{-6} \times l_0)^2}$	Gauge blocks / KCSI-LE25

102. Linear dimension

Measured Quantity Instrument or Gauge	Field Code	Range	Measurement uncertainty (The Confidence Level is about 95 %)	Standard/Method of Measurement etc.
Taper thickness gauges	10233	(0 ~ 50) mm	0.029 mm	Measuring microscopes / KCSI-LE26
Ultrasonic thickness gauges	10234	(0 ~ 500) mm	9.5 μm	Ultrasonic thickness specimens / KCSI-LE27
Ultrasonic/coating thickness specimens Coating Flatness Ultrasonic	10235	(0 ~ 25) mm (0 ~ 500) mm	1.8 μm 1.3 μm $\sqrt{(1.9 \mu\text{m})^2 + (3.0 \times 10^{-6} \times l_0)^2}$	Gauge blocks, Measuring machines standard / KCSI-LE28 / KCSI-LE29
Coating thickness testers	10236	(0 ~ 15) mm	1.9 μm	Coating thickness specimens / KCSI-LE30

103. Angle

Measured Quantity Instrument or Gauge	Field Code	Range	Measurement uncertainty (The Confidence Level is about 95 %)	Standard/Method of Measurement etc.
Bevel protractors Angle accuracy Angle of Accessories Gradation accuracy	10304	(0 ~ 360)° (0 ~ 360)° (0 ~ 300) mm	4' 2' 0.16 mm	Angle gauge blocks / KCSI-LE69
Plate/square/electric levels Bubble Tube Type Electric Type Flatness of Base Squareness	10311	±1.4 mm/m ±1.4 mm/m (0 ~ 500) mm (0 ~ 450) mm	1.0" 0.7" 2.0 μm 5.9 μm/m	level comparators / KCSI-LE70
Squareness testers Squareness	10318	(0 ~ 480) mm	2.2 μm	Cylindrical squares / KCSI-LE67
Cylindrical squares Squareness Straightness	10319	(0 ~ 500) mm	2.3 μm 2.2 μm	Electronic micrometers / KCSI-LE20
Precision squares Squareness Straightness Parallelism of Precision squares	10320	(0 ~ 450) mm (0 ~ 450) mm (0 ~ 500) mm	2.3 μm 2.9 μm 2.5 μm	Squareness testers / KCSI-LE66

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 Vertical accuracy Horizontal accuracy	10401	(0 ~ 30) mm (0 ~ 50) mm	0.13 μm 1.0 μm	Gauge blocks, Specimens form standards / KCSI-LE31
Optical flats	10404	∅ (0 ~ 100) mm	0.12 μm	Optical flats, Monochromatic Light Unit / KCSI-LE32

104. Form

Measured Quantity Instrument or Gauge	Field Code	Range	Measurement uncertainty (The Confidence Level is about 95 %)	Standard/Method of Measurement etc.
Optical parallels Flatness Paralleism	10405	∅ (10 ~ 50) mm	0.06 μm 0.08 μm	Optical flats / KCSI-LE32
Parallel blocks Paralleism Flatness Length Difference	10406	(0 ~ 1 000) mm	1.6 μm 1.6 μm 2.3 μm	Electronic micrometers / KCSI-LE33
Precision surface plates	10407	(900 ~ 10 000) cm ² (10 000 ~ 40 000) cm ² (40 000 ~ 90 000) cm ²	3.0 μm 4.8 μm 6.4 μm	Electric levels / KCSI-LE34
Roundness measurement instruments Detector accuracy Rotation accuracy of circumference direction Rotation accuracy of shaft direction	10409	(0 ~ 100) μm 360° 360°	0.45 μm 0.020 μm 0.061 μm	Roundness standard specimen / KCSI-LE35
Straight edges Straightness Parallelism	10412	(0 ~ 1 000) mm	4.2 μm 3.2 μm	Electronic micrometers / KCSI-LE36
Straight rules	10413	(0 ~ 3 000) mm	$\sqrt{(0.15 \text{ mm})^2 + (3.3 \times 10^{-6} \times l_0)^2}$	Standard tape rules / KCSI-LE37

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 Pass Stop Bore Screw bore	10501	(1 ~ 50) mm	$\sqrt{(0.50 \text{ μm})^2 + (3.0 \times 10^{-6} \times l_0)^2}$ 3.0 μm	Gauge blocks, Measuring machines standard / KCSI-LE54
Bench centers Parallelism of both centers Difference of both centers Flatness of bed	10502	(0 ~ 400) mm	3.9 μm 3.9 μm 2.4 μm	Test bars, Electronic micrometers / KCSI-LE38
Contact coordinate measuring machines Detector, space accuracy Squareness Straightness	10503	(0 ~ 1 000) mm (0 ~ 500) mm (0 ~ 500) mm	$\sqrt{(0.90 \text{ μm})^2 + (3.4 \times 10^{-6} \times l_0)^2}$ 2.3 μm 2.8 μm	Step gauges, Precision squares / KCSI-LE39
Non-contact coordinate mea- suring machines Directed accuracy Squareness Angle	10504	(0 ~ 500) mm (0 ~ 180)°	$\sqrt{(0.52 \text{ μm})^2 + (2.4 \times 10^{-6} \times l_0)^2}$ 2.3 μm 3.4"	Standard scales, Precision squares, Angle gage blocks / KCSI-LE40

105. Complex geometry

Measured Quantity Instrument or Gauge	Field Code	Range	Measurement uncertainty (The Confidence Level is about 95 %)	Standard/Method of Measurement etc.
Measuring microscopes, profile projectors Directed accuracy Squareness Angle Scale errors Rotation angle of projection plane Reticle angle of projection plane	10511	(0 ~ 500) mm	$\sqrt{(0.58 \mu\text{m})^2 + (2.4 \times 10^{-6} \times l_0)^2}$ 1.3 μm 3.4" 0.015 % 1.1' 0.5'	Standard scales, Precision squares, Angle gage blocks / KCSI-LE41 / KCSI-LE42
Micro measuring microscopes	10512	(0 ~ 20) mm	0.86 μm	Standard scales / KCSI-LE55
Taper plug gauges Height Taper half angle Small diameter Great diameter	10514	(0 ~ 200) mm (0 ~ 65) [°] (2 ~ 200) mm (2 ~ 200) mm	2.7 μm 2.2" 1.6 μm 2.5 μm	Gauge blocks, Measuring machines standard / KCSI-LE56
Stylus type roughness testers Ra Rz h RSm	10517	(0 ~ 1) μm (1 ~ 3) μm (0 ~ 3) μm (3 ~ 10) μm (0 ~ 10) μm (0 ~ 200) μm	0.012 μm 0.027 μm 0.080 μm 0.25 μm 0.30 μm 2.1 μm	Roughness standard specimen / KCSI-LE43
Socket gauges for electric bulb Pass, Stop, Screw Bore	10518	(1 ~ 50) mm	$\sqrt{(0.46 \mu\text{m})^2 + (3.0 \times 10^{-6} \times l_0)^2}$	Gauge blocks, Measuring machines standard / KCSI-LE57
Thread plug gauges Effective diameter Outside diameter pitch Screw half angle	10525	(1 ~ 200) mm (1 ~ 200) mm (0.25 ~ 5.5) mm (0 ~ 45) [°]	2.8 μm 1.1 μm 1.3 μm 1.0'	Gauge blocks, Measuring machines standard / KCSI-LE58
Taper thread plug gauges Gauge length Notch and step length Taper half angle Small Outside diameter Great Outside diameter Small Effective diameter Great Effective diameter pitch Screw half angle	10526	(0 ~ 150) mm (0 ~ 150) mm (0 ~ 2) [°] (2 ~ 200) mm (2 ~ 200) mm (2 ~ 200) mm (2 ~ 200) mm (0.25 ~ 5.5) mm (0 ~ 45) [°]	2.7 μm 3.9 μm 5.5" 1.8 μm 2.6 μm 3.3 μm 3.8 μm 1.3 μm 1.0'	Gauge blocks, Measuring machines standard / KCSI-LE59
Thread ring gauges Effective diameter Inner diameter pitch	10527	(3 ~ 100) mm (3 ~ 100) mm (0.6 ~ 5) mm	1.8 μm 2.1 μm 1.5 μm	Measuring machines standard, Cylindrical ring gauges / KCSI-LE60

105. Complex geometry

Measured Quantity Instrument or Gauge	Field Code	Range	Measurement uncertainty (The Confidence Level is about 95 %)	Standard/Method of Measurement etc.
V-blocks, Boxblocks Boxblocks The parallelism of upper surface for the undersurface The parallelism between the undersurface and the cylinder on the V surface Squareness V-blocks Flatness of base side Flatness of V surface The parallelism between the under surface and the cylinder on the V surface The gradient on the base side of V-groove The parallelism between the side and the cylinder on the V surface The mutual height difference of V surface for a pair of V blocks	10529	(0 ~ 300) mm	1.6 μm 5.1 μm 2.3 μm 1.6 μm 1.6 μm 5.1 μm 1.1 μm 5.1 μm 2.7 μm	Electronic micrometers, Test bars / KCSI-LE61

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/gear tooth calipers Caliper gauges	10601	(0 ~ 1 000) mm (1 000 ~ 2 000) mm (0 ~ 200) mm	$\sqrt{(7.8 \mu\text{m})^2 + (3.0 \times 10^{-6} \times l_0)^2}$ $\sqrt{(16 \mu\text{m})^2 + (3.1 \times 10^{-6} \times l_0)^2}$ $\sqrt{(0.71 \mu\text{m})^2 + (3.0 \times 10^{-6} \times l_0)^2}$	Gauge blocks, Caliper testers / KCSI-LE01 / KCSI-LE02
Cylinder/bore gauges	10603	(0 ~ 600) mm	0.87 μm	Dial gauge testers / KCSI-LE03
Depth gauges, depth micrometers Depth micrometers Depth gauges	10604	(0 ~ 300) mm (0 ~ 1 000) mm	$\sqrt{(0.71 \mu\text{m})^2 + (3.1 \times 10^{-6} \times l_0)^2}$ $\sqrt{(10 \mu\text{m})^2 + (3.9 \times 10^{-6} \times l_0)^2}$	Gauge blocks, Long gauge blocks / KCSI-LE04, KCSI-LE07
Dial/digital gauges	10605	(0 ~ 50) mm (50 ~ 100) mm	$\sqrt{(0.13 \mu\text{m})^2 + (44 \times 10^{-6} \times l_0)^2}$ $\sqrt{(0.71 \mu\text{m})^2 + (44 \times 10^{-6} \times l_0)^2}$	Gauge blocks, Dial gauge testers / KCSI-LE05

106. Various dimensional

Measured Quantity Instrument or Gauge	Field Code	Range	Measurement uncertainty (The Confidence Level is about 95 %)	Standard/Method of Measurement etc.
Grind gauges Depth of inclined plane Straightness	10608	(0 ~ 1) mm (0 ~ 100) mm	3.5 μm 2.2 μm	Height micrometers / KCSI-LE44
Micro indicators, test indicators	10609	(0 ~ 5) mm	0.87 μm	Dial gauge testers / KCSI-LE06, KCSI-LE10
Micrometer heads	10610	(0 ~ 100) mm	$\sqrt{(0.62 \mu\text{m})^2 + (3.0 \times 10^{-6} \times l_0)^2}$	Gauge blocks / KCSI-LE45
3-point micrometers	10611	(3.5 ~ 100) mm (100 ~ 200) mm	1.9 μm 2.4 μm	Cylindrical ring gauges / KCSI-LE62
Inside micrometers Micrometers, bar type	10612	(5 ~ 200) mm (50 ~ 1 100) mm	$\sqrt{(1.4 \mu\text{m})^2 + (3.0 \times 10^{-6} \times l_0)^2}$ $\sqrt{(1.7 \mu\text{m})^2 + (3.0 \times 10^{-6} \times l_0)^2}$	Gauge blocks / KCSI-LE08 / KCSI-LE46
Outside micrometers	10613	(0 ~ 25) mm (25 ~ 100) mm (100 ~ 500) mm (500 ~ 1 000) mm	$\sqrt{(0.12 \mu\text{m})^2 + (3.0 \times 10^{-6} \times l_0)^2}$ $\sqrt{(0.82 \mu\text{m})^2 + (3.0 \times 10^{-6} \times l_0)^2}$ $\sqrt{(0.91 \mu\text{m})^2 + (3.0 \times 10^{-6} \times l_0)^2}$ $\sqrt{(1.4 \mu\text{m})^2 + (3.0 \times 10^{-6} \times l_0)^2}$	Gauge blocks, Long gauge blocks / KCSI-LE09
Standard sieves Wire diameter sieve size Diameter of hole Distance of hole center	10617	(0.02 ~ 150) mm	2.7 μm 3.8 μm 2.7 μm 2.7 μm	Measuring microscope / KCSI-LE47
Welding gauges Length Angle	10620	(0 ~ 100) mm (0 ~ 90)°	0.1 mm 0.28°	Measuring microscope / KCSI-LE48

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 ~ 20) kg (20 ~ 200) kg (200 ~ 500) kg (500 ~ 1 000) kg (1 000 ~ 2 000) kg (2 000 ~ 5 000) kg (5 000 ~ 10 000) kg	5.1 g 10 g 50 g 0.10 kg 0.5 kg 1.0 kg 5.0 kg	Weights / KCSI-MA07
Axle weigher balances	20104	(500 ~ 1 000) kg (1 000 ~ 2 000) kg (2 000 ~ 5 000) kg (5 000 ~ 20 000) kg	1.0 kg 2.0 kg 5.0 kg 20 kg	Force measuring devices / KCSI-MA11
Counter beam balances	20105	(0 ~ 311) g (311 ~ 2 610) g (2 610 ~ 20 000) g	5.0 mg 50 mg 0.50 g	Weights / KCSI-MA04
Dial swing scale balances	20107	(0 ~ 100) kg (100 ~ 200) kg (200 ~ 500) kg (500 ~ 1 000) kg (1 000 ~ 2 000) kg	0.20 kg 0.50 kg 1.0 kg 2.0 kg 5.0 kg	Weights / KCSI-MA02
Direct reading balances	20108	(0 ~ 30) g (30 ~ 210) g (210 ~ 1 000) g	61 µg 0.18 mg 0.51 mg	Weights / KCSI-MA03
Electric balances	20109	(0 ~ 5) g (5 ~ 30) g (30 ~ 200) g (200 ~ 1 200) g (1.2 ~ 5) kg (5 ~ 20) kg (20 ~ 30) kg (30 ~ 60) kg (60 ~ 100) kg (100 ~ 200) kg (200 ~ 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 (30 000 ~ 60 000) kg	18 µg 53 µg 0.18 mg 0.62 mg 3.1 mg 13 mg 18 mg 0.10 g 0.9 g 2.1 g 7.8 g 15 g 23 g 0.87 kg 2.5 kg 6.1 kg 11 kg	Weights / KCSI-MA06
Equal arm balances	20110	(0 ~ 200) g (0.2 ~ 5) kg (5 ~ 30) kg	0.20 mg 2.7 mg 21 mg	Weights / KCSI-MA10

201. Mass

Measured Quantity Instrument or Gauge	Field Code	Range	Measurement uncertainty (The Confidence Level is about 95 %)	Standard/Method of Measurement etc.
Platform scale balances	20112	(0 ~ 5) kg (5 ~ 20) kg (20 ~ 100) kg (100 ~ 200) kg (200 ~ 500) kg (500 ~ 1 000) kg (1 000 ~ 2 000) kg (2 000 ~ 10 000) kg	51 mg 0.20 g 11 g 21 g 51 g 0.11 kg 1.0 kg 5.0 kg	Weights / KCSI-MA05
Spring scale balances	20113	(0 ~ 5) kg (5 ~ 20) kg (20 ~ 100) kg	2.0 g 5.0 g 50 g	Weights / KCSI-MA01
Trip balances	20114	(0 ~ 200) g (0.2 ~ 5) kg	11 mg 53 mg	Weights / KCSI-MA09
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 (50 kg ~ 1 000 kg) 50 kg 500 kg 1 000 kg	(F1 class) 6.4 μg 6.4 μg 6.4 μg 6.9 μg 6.9 μg 7.5 μg 8.3 μg 9.1 μg 11 μg 17 μg 19 μg 22 μg 26 μg 32 μg 40 μg 62 μg 0.12 mg 0.32 mg 0.62 mg 1.7 mg 3.2 mg 8.5 mg 13 mg (M2 class) 1.4 g 13 g 45 g	Standard weights, Mass comparator / KCSI-MA08

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	20202	(0.005 ~ 0.2) kN (0.2 ~ 5) kN (5 ~ 20) kN (20 ~ 50) kN (50 ~ 100) kN (100 ~ 200) kN (200 ~ 500) kN (500 ~ 1 000) kN	1.4×10^{-4} 7.0×10^{-5} 4.1×10^{-4} 3.8×10^{-4} 4.3×10^{-4} 3.5×10^{-4} 4.7×10^{-4} 4.8×10^{-4}	Force measuring devices / KCSI-FC03
Tension/Compression testing machines Tensile Compression	20203	(0.1 ~ 1 000) N (1 ~ 2) kN (2 ~ 5) kN (5 ~ 10) kN (10 ~ 20) kN (20 ~ 50) kN (50 ~ 100) kN (100 ~ 200) kN (200 ~ 500) kN (0.1 ~ 1 000) N (1 ~ 2) kN (2 ~ 5) kN (5 ~ 10) kN (10 ~ 30) kN (30 ~ 50) kN (50 ~ 100) kN (100 ~ 300) kN (300 ~ 500) kN (500 ~ 1 000) kN (1 ~ 2) MN (2 ~ 5) MN (5 ~ 10) MN	7.0×10^{-4} 1.0×10^{-3} 1.1×10^{-3} 1.1×10^{-3} 1.3×10^{-3} 1.3×10^{-3} 1.5×10^{-3} 1.5×10^{-3} 1.2×10^{-3} 7.0×10^{-4} 1.5×10^{-3} 1.0×10^{-3} 1.3×10^{-3} 1.1×10^{-3} 1.2×10^{-3} 1.4×10^{-3} 1.3×10^{-3} 1.3×10^{-3} 1.2×10^{-3} 2.3×10^{-3} 1.3×10^{-3} 1.3×10^{-3}	Weights, Electric force measuring device / KCSI-FC02
Push-pull gauges Tensile, Compression	20204	(1 ~ 1 000) N	1.0×10^{-3}	Standard weights / KCSI-FC01

203. Torque

Measured Quantity Instrument or Gauge	Field Code	Range	Measurement uncertainty (The Confidence Level is about 95 %)	Standard/Method of Measurement etc.
Torque wrenches/drivers	20303	(0.1 ~ 1) N·m (1 ~ 5) N·m (5 ~ 10) N·m (10 ~ 25) N·m (25 ~ 50) N·m (50 ~ 100) N·m (100 ~ 250) N·m (250 ~ 500) N·m (500 ~ 1 000) N·m (1 000 ~ 2 500) N·m	8.3×10^{-3} 6.2×10^{-3} 6.1×10^{-3} 5.6×10^{-3} 3.6×10^{-3} 5.2×10^{-3} 2.8×10^{-3} 6.6×10^{-3} 6.0×10^{-3} 5.0×10^{-3}	Torque testers, electrical / KCSI-TO01
Others : Nut runners air	20399	(2.5 ~ 25) N·m	9.7×10^{-3}	Nut runners / KCSI-TO02

204. Pressure

Measured Quantity Instrument or Gauge	Field Code	Range	Measurement uncertainty (The Confidence Level is about 95 %)	Standard/Method of Measurement etc.
Absolute pressure gauges	20406	5 kPa abs. ~ 3 500 kPa abs.	3.2×10^{-4}	Pressure controller / calibrator / KCSI-PS01
Blood pressure gauges	20407	(0 ~ 40) kPa	1.5×10^{-3}	Pressure controller / calibrator / KCSI-PS02
Compound pressure gauges	20408	-95 kPa ~ 3.5 MPa	3.5×10^{-4}	Pressure controller / calibrator / KCSI-PS03
Differential pressure gauges	20409	(0 ~ 250) kPa (0.25 ~ 5) MPa	2.0×10^{-4} 2.0×10^{-4}	Pressure controller / calibrator / KCSI-PS04
Gauge pressure gauges	20411	(0 ~ 250) kPa 250 kPa ~ 100 MPa	1.1×10^{-4} 1.0×10^{-4}	Pneumatic pressure ballances / Hydraulic pressure ballances Pressure controller / calibrator / KCSI-PS05
Pressure transducers/ transmitters	20412	5 kPa abs. ~ 3.5 MPa abs. (0 ~ 7) kPa 7 kPa ~ 5 MPa (5 ~ 100) MPa	4.5×10^{-4} 4.5×10^{-4} 4.0×10^{-4} 4.0×10^{-4}	Pneumatic pressure ballances / Hydraulic pressure ballances Pressure controller / calibrator / KCSI-PS06
Dial type vacuum gauges	20413	(-95 ~ 0) kPa	1.0×10^{-3}	Pressure controller / calibrator / KCSI-PS07

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 ~ 2) ml (2 ~ 10) ml (10 ~ 25) ml (25 ~ 50) ml (50 ~ 100) ml (100 ~ 250) ml (250 ~ 500) ml (500 ~ 1 000) ml (1 000 ~ 2 000) ml	1.2 μ l 2.2 μ l 5.2 μ l 7.5 μ l 10 μ l 42 μ l 84 μ l 0.15 ml 0.23 ml	Weights, Digital Balance / KCSI-VO01

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	(2 000 ~ 5 000) ml (5 000 ~ 10 000) ml	0.88 ml 1.8 ml	Weights, Digital Balance / KCSI-VO01
Pycnometers	20602	(0 ~ 100) mL (100 ~ 250) mL (250 ~ 500) mL	6.0 µl 10 µl 20 µl	Weights, Digital Balance / KCSI-VO01
Concrete air content meters	20605	(0 ~ 7 500) mL (0 ~ 10) %	0.06 %	Weights, Digital Balance / KCSI-AI01
Piston type volume meters	20606	(0 ~ 0.01) ml (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	24 nl 30 nl 36 nl 0.09 µl 0.17 µl 0.37 µl 0.74 µl 1.2 µl 2.9 µl 5.8 µl 12 µl 29 µl 58 µl	Weights, Digital Balance / KCSI-VO02

207. Density

Measured Quantity Instrument or Gauge	Field Code	Range	Measurement uncertainty (The Confidence Level is about 95 %)	Standard/Method of Measurement etc.
Salinity meters	20704	(0 ~ 1.5) % (1.5 ~ 15) % (15 ~ 30) %	0.018 % 0.028 % 0.080 %	Standard matter, Ion chromatograph / KCSI-DE02
Chloride meters	20707	(0 ~ 0.1) % (0.1 ~ 1.5) %	0.002 0 % 0.005 0 %	Standard matter, Ion chromatograph / KCSI-DE01

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	2.6 HBW 10/3 000 4.4 HBW 10/3 000	Brinell hardness test blocks / KCSI-HD04
Rockwell hardness testers	21002	(20 ~ 70) HRC (10 ~ 100) HRBW (70 ~ 94) HR15N (42 ~ 86) HR30N (67 ~ 93) HR15TW (29 ~ 82) HR30TW	0.42 HRC 0.73 HRBW 0.64 HR15N 0.70 HR30N 1.1 HR15TW 1.2 HR30TW	Rockwell hardness test blocks / KCSI-HD01
Shore hardness testers	21003	(5 ~ 105) HS	1.2 HS	Shore hardness test blocks / KCSI-HD02

210. Hardness

Measured Quantity Instrument or Gauge	Field Code	Range	Measurement uncertainty (The Confidence Level is about 95 %)	Standard/Method of Measurement etc.
Vickers hardness testers	21004	(95 ~ 250) HV 0.2 (400 ~ 600) HV 0.2 (700 ~ 950) HV 0.2 (95 ~ 250) HV 0.5 (400 ~ 600) HV 0.5 (700 ~ 950) HV 0.5 (95 ~ 250) HV 10 (400 ~ 600) HV 10 (700 ~ 950) HV 10 (95 ~ 250) HV 30 (400 ~ 600) HV 30 (700 ~ 950) HV 30	7.0 HV 0.2 17 HV 0.2 27 HV 0.2 6.4 HV 0.5 15 HV 0.5 22 HV 0.5 2.5 HV 10 5.0 HV 10 10 HV 10 3.3 HV 30 5.2 HV 30 8.7 HV 30	Vickers hardness test blocks / KCSI-HD03
Durometer hardness testers	21005	(0 ~ 100) HDA (0 ~ 100) HDD (0 ~ 100) HDAM (0 ~ 100) HDAO (0 ~ 100) HDB (0 ~ 100) HDC (0 ~ 100) HDDO (0 ~ 100) HDE (0 ~ 100) HDM (0 ~ 100) HDO (0 ~ 100) HDOO (0 ~ 100) HDOOO (0 ~ 100) HDOOO-S	0.4 HDA 0.4 HDD 0.4 HDAM 0.4 HDAO 0.4 HDB 0.4 HDC 0.4 HDDO 0.4 HDE 0.4 HDM 0.4 HDO 0.4 HDOO 0.4 HDOOO 0.4 HDOOO-S	Rubber hardness testing machines / KCSI-HD05
Leeb hardness testers	21006	(400 ~ 500) HLD (500 ~ 700) HLD (700 ~ 1 000) HLD	4.6 HLD 4.6 HLD 4.6 HLD	Leeb hardness test blocks / KCSI-HD06

211. Impact

Measured Quantity Instrument or Gauge	Field Code	Range	Measurement uncertainty (The Confidence Level is about 95 %)	Standard/Method of Measurement etc.
Charpy impact testers Metal Plastics	21102	(0 ~ 900) J (0 ~ 50) J	- -	Impact test gauge / KCSI-IM01
Izod impact testers Metal Plastics	21103	(0 ~ 900) J (0 ~ 50) J	- -	Impact test gauge / KCSI-IM02

301. Time / Frequency

Measured Quantity Instrument or Gauge	Field Code	Range	Measurement uncertainty (The Confidence Level is about 95 %)	Standard/Method of Measurement etc.
General frequency sources Frequency Time Base Frequency	30103	0.1 Hz ~ 10 MHz (10 ~ 30) MHz 10 MHz	6.2×10^{-7} 2.9×10^{-7} 7.7×10^{-12}	Frequency counters / KCSI-TL-02
Frequency meters/counters Time Base Frequency Input Frequency	30104	10 MHz (0.1 ~ 1) Hz (1 ~ 10) Hz (10 ~ 100) Hz (0.1 ~ 1) kHz (1 ~ 10) kHz (10 ~ 100) kHz (0.1 ~ 1) MHz (1 ~ 10) MHz (10 ~ 30) MHz	6.0×10^{-12} 3.9×10^{-4} 3.7×10^{-6} 4.1×10^{-7} 4.2×10^{-8} 3.8×10^{-9} 4.3×10^{-10} 4.7×10^{-11} 1.0×10^{-11} 9.7×10^{-12}	Frequency meters/counters / KCSI-TL-03
Time Interval Meter / Stop Watches, Timer Stop Watch Timer Count	30106	(1 ~ 86 400) s (0.01 ~ 100 000) s ≥ 1 count	3.1×10^{-7} 5.8×10^{-5} 1 count	Stop Watch Calibrators, Oscilloscope / KCSI-TL-01

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	6 min^{-1} (6 ~ 100) min^{-1} (100 ~ 1 000) min^{-1} (1 000 ~ 10 000) min^{-1} (10 000 ~ 20 000) min^{-1} (20 000 ~ 30 000) min^{-1}	0.021 min^{-1} 0.024 min^{-1} 0.24 min^{-1} 1.7 min^{-1} 2.6 min^{-1} 4.1 min^{-1}	Tacometer, Stroboscope. / KCSI-RL-03
Contact Type Tachometer Revolution Velocity Measurement	30202	(6 ~ 100) min^{-1} (100 ~ 2 000) min^{-1} (2 000 ~ 4 000) min^{-1}	0.11 min^{-1} 0.14 min^{-1} 0.15 min^{-1}	Frequency Counters, RPM Calibration System, Function Generators, / KCSI-RL-01
Photo tachometers Revolution Velocity Measurement (Photo-tachometer) Revolution Velocity Measurement (Stroboscope)	30203	(6 ~ 600) min^{-1} (600 ~ 6 000) min^{-1} (6 000 ~ 90 000) min^{-1} (90 000 ~ 420 000) min^{-1} (6 ~ 600) min^{-1} (600 ~ 6 000) min^{-1} (6 000 ~ 90 000) min^{-1} (90 000 ~ 420 000) min^{-1}	0.012 min^{-1} 0.12 min^{-1} 0.62 min^{-1} 1.2 min^{-1} 0.012 min^{-1} 0.12 min^{-1} 0.62 min^{-1} 1.2 min^{-1}	Frequency Counters, RPM Calibration System, Function Generators, / KCSI-RL-02

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.
Ammeters, DC DC Current	40101	(±) 0 μA (0 ~ 10) μA (10 ~ 100) μA (0.1 ~ 1) mA (1 ~ 100) mA (0.1 ~ 1) A (1 ~ 10) A (10 ~ 20) A (20 ~ 100) A	24 nA 2.5×10^{-3} 4.1×10^{-4} 1.8×10^{-4} 1.5×10^{-4} 2.8×10^{-4} 6.4×10^{-4} 1.2×10^{-3} 4.7×10^{-4}	Meter Calibrators, Current Amplifiers / KCSI-EL-01
Calibrators, DC Voltage/Current DC voltage DC Current Resistance	40103	(±) 0 mV (0 ~ 1) mV (1 ~ 10) mV (10 ~ 100) mV (0.1 ~ 1) V (1 ~ 10) V (10 ~ 100) V (100 ~ 1 000) V (±) 0 μA (0 ~ 10) μA (10 ~ 100) μA (0.1 ~ 1) mA (1 ~ 10) mA (10 ~ 100) mA (0.1 ~ 1) A (1 ~ 10) A (10 ~ 100) A 0 Ω (0 ~ 1) Ω (1 ~ 10) Ω (10 ~ 1 000) Ω (1 ~ 10) kΩ (10 ~ 100) kΩ (0.1 ~ 1) MΩ (1 ~ 10) MΩ	0.62 μV 6.2×10^{-4} 6.2×10^{-5} 1.4×10^{-5} 6.5×10^{-6} 5.2×10^{-6} 7.1×10^{-6} 9.1×10^{-6} 7.5 nA 7.5×10^{-4} 1.2×10^{-4} 4.3×10^{-5} 4.7×10^{-5} 7.2×10^{-5} 2.1×10^{-4} 5.2×10^{-4} 2.4×10^{-4} 59 μΩ 6.2×10^{-5} 1.4×10^{-5} 9.4×10^{-6} 8.7×10^{-6} 9.5×10^{-6} 1.2×10^{-5} 2.7×10^{-5}	Digital Multimeters, Active Shunts / KCSI-EL-02
Calibrators, Temperature Simulation Temperature(Measure)	40104	B Type 600 ℃ (600 ~ 1 000) ℃ (1 000 ~ 1 600) ℃	0.46 ℃ 0.35 ℃ 0.31 ℃	Digital Multimeters, Meter Calibrators, Standard Resistors, / KCSI-EL-03

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.
Calibrators, Temperature Simulation Temperature(Measure)	40104	E Type		Digital Multimeters, Meter Calibrators, Standard Resistors, / KCSI-EL-03
		-196 ℃	0.51 ℃	
		(-196 ~ 0) ℃	0.16 ℃	
		(0 ~ 1 000) ℃	0.22 ℃	
		J Type		
		-196 ℃	0.28 ℃	
		(-196 ~ 0) ℃	0.16 ℃	
		(0 ~ 1 200) ℃	0.24 ℃	
		K Type		
		-196 ℃	0.34 ℃	
		(-196 ~ 0) ℃	0.18 ℃	
		(0 ~ 1 370) ℃	0.41 ℃	
		N Type		
		-196 ℃	0.31 ℃	
		(-196 ~ 0) ℃	0.17 ℃	
		(0 ~ 1 300) ℃	0.22 ℃	
		R Type		
		0 ℃	0.50 ℃	
		(0 ~ 800) ℃	0.27 ℃	
		(800 ~ 1 600) ℃	0.31 ℃	
		S Type		
		0 ℃	0.50 ℃	
		(0 ~ 800) ℃	0.32 ℃	
		(800 ~ 1 600) ℃	0.35 ℃	
T Type				
-196 ℃	0.49 ℃			
(-196 ~ 0) ℃	0.14 ℃			
(0 ~ 400) ℃	0.12 ℃			
C Type				
0 ℃	0.49 ℃			
(0 ~ 1 000) ℃	0.14 ℃			
(1 000 ~ 2 300) ℃	0.13 ℃			
PT100(385) Type				
-196 ℃	0.052 ℃			
(-196 ~ 0) ℃	0.072 ℃			
(0 ~ 800) ℃	0.24 ℃			
PT100(3916) Type				
-196 ℃	0.25 ℃			
(-196 ~ 0) ℃	0.062 ℃			
(0 ~ 600) ℃	0.11 ℃			

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.
Calibrators, Temperature Simulation	40104			Digital Multimeters,
DC Voltage(Measure)		(±) 0 mV (0 ~ 100) mV (0.1 ~ 1) V (1 ~ 10) V (10 ~ 100) V (100 ~ 300) V	1.4 μV 3.2×10^{-5} 1.5×10^{-5} 1.6×10^{-5} 2.1×10^{-5} 3.0×10^{-5}	Meter Calibrators, Standard Resistors, / KCSI-EL-03
DC Current(Measure)		(±) 0 mA (0 ~ 1) mA (1 ~ 100) mA	0.71 μA 7.2×10^{-4} 1.5×10^{-4}	
AC Voltage(Measure)		(0.05 ~ 1) kHz (1 ~ 100) V (100 ~ 300) V	2.3×10^{-4} 3.1×10^{-4}	
Resistance(Measure)		1 Ω (1 ~ 10) Ω (0.01 ~ 100) kΩ	7.5×10^{-5} 1.5×10^{-5} 1.4×10^{-5}	
Temperature(Source)				
T/C		-9.835 mV (-9.835 ~ -8.095) mV (-8.095 ~ -0.226) mV (-0.226 ~ 0) mV (0 ~ 4.834) mV (4.834 ~ 13.820) mV (13.820 ~ 18.257) mV (18.257 ~ 18.693) mV (18.693 ~ 20.872) mV (20.872 ~ 21.101) mV (21.101 ~ 69.553) mV (69.553 ~ 76.373) mV	0.73 μV 0.74 μV 0.73 μV 0.81 μV 0.74 μV 0.75 μV 0.78 μV 0.75 μV 1.4 μV 1.3 μV 1.4 μV 1.5 μV	
RTD		(0 ~ 1.058) Ω (1.058 ~ 10.000) Ω (10.000 ~ 17.140) Ω (17.140 ~ 18.520) Ω (18.520 ~ 19.116) Ω (19.116 ~ 100.000) Ω (100.000 ~ 185.201) Ω (185.201 ~ 287.400) Ω (287.400 ~ 390.481) Ω (390.481 ~ 1 000) Ω (1 000 ~ 3 296.401) Ω	22 μΩ 1.3×10^{-5} 1.2×10^{-5} 1.1×10^{-5} 1.0×10^{-5} 9.4×10^{-6} 8.6×10^{-6} 1.9×10^{-5} 1.5×10^{-5} 9.4×10^{-6} 1.2×10^{-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.
Calibrators, Temperature Simulation DC Voltage(Source) DC current(Source) Resistance(Source)	40104	(±) 0 mV (0 ~ 1) mV (1 ~ 10) mV (10 ~ 100) mV (0.1 ~ 1) V (1 ~ 10) V (10 ~ 100) V (±) 0 mA (0 ~ 1) mA (1 ~ 10) mA (10 ~ 100) mA 0 Ω (0 ~ 1) Ω (1 ~ 10) Ω (0.001 ~ 100) kΩ	0.84 μV 8.5×10^{-4} 8.5×10^{-5} 1.5×10^{-5} 8.7×10^{-6} 7.8×10^{-6} 9.2×10^{-6} 0.073 μA 7.3×10^{-5} 4.9×10^{-5} 7.5×10^{-5} 0.58 mΩ 5.8×10^{-4} 6.0×10^{-5} 5.9×10^{-5}	Digital Multimeters, Meter Calibrators, Standard Resistors, / KCSI-EL-03
Current Shunts, DC Resistance	40105	10 μΩ (0.01 ~ 0.1) mΩ (0.1 ~ 1) mΩ (1 ~ 10) mΩ (10 ~ 100) mΩ (0.1 ~ 10) Ω (10 ~ 100) Ω (0.1 ~ 1) kΩ (1 ~ 100) kΩ	8.7×10^{-4} 4.8×10^{-4} 4.7×10^{-4} 5.6×10^{-4} 2.5×10^{-4} 1.3×10^{-4} 1.6×10^{-4} 1.7×10^{-4} 3.6×10^{-4}	Meter Calibrators, Current Amplifiers, Digital Multimeters, / KCSI-EL-04
Galvanometers / Null Detectors DC Voltage DC current	40106	(±) 0 mV (0 ~ 1) mV (0.001 ~ 1 000) V (±) 0 A (0 ~ 1) A	5.9 μV 5.9×10^{-3} 5.8×10^{-3} 0.58 μA 5.8×10^{-3}	Meter Calibrators, /KCSI-EL-05
Power Supplies, DC DC Voltage	40108	(±) 0 V (0 ~ 1) V (1 ~ 10) V (10 ~ 100) V (100 ~ 1 000) V	61 μV 7.1×10^{-5} 6.9×10^{-5} 8.1×10^{-5} 8.6×10^{-5}	Digital Multimeters, Active Shunts Electronic Loads, True RMS Voltmeters, / KCSI-EL-06

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.
Power Supplies, DC DC current	40108	(±) 0 mA (0 ~ 0.01) mA (0.01 ~ 0.1) mA (0.1 ~ 1) mA (1 ~ 10) mA (10 ~ 100) mA (0.1 ~ 1) A (1 ~ 20) A (20 ~ 100) A (100 ~ 200) A (200 ~ 400) A (400 ~ 600) A (600 ~ 800) A (800 ~ 1 000) A	51 nA 5.4×10^{-3} 9.6×10^{-4} 6.7×10^{-4} 8.3×10^{-4} 6.6×10^{-4} 8.6×10^{-4} 2.5×10^{-4} 2.6×10^{-4} 2.9×10^{-3} 1.5×10^{-3} 1.0×10^{-3} 7.6×10^{-4} 6.2×10^{-4}	Digital Multimeters, Active Shunts Electronic Loads, True RMS Voltmeters, / KCSI-EL-06
Load Regulation Power Voltage Regulation		-10 % ~ 10 % -10 % ~ 10 %	0.012 % 0.009 %	
Voltmeters, DC DC Voltage	40112	(±) 0 mV (0 ~ 10) mV (10 ~ 100) mV (0.1 ~ 1) V (1 ~ 10) V (10 ~ 1 000) V	1.3 μV 1.5×10^{-4} 3.6×10^{-5} 1.6×10^{-5} 1.7×10^{-5} 2.3×10^{-5}	Meter Calibrators, / KCSI-EL-07

402. Resistance, Capacitance & Inductance

Measured Quantity Instrument or Gauge	Field Code	Range	Measurement uncertainty (The Confidence Level is about 95 %)	Standard/Method of Measurement etc.
Earth Testers DC Resistance AC Resistance	40205	1 mΩ ~ 100 kΩ 60 Hz (1 ~ 100) mΩ 100 mΩ ~ 1 kΩ	7.1×10^{-4} 1.5×10^{-3} 1.4×10^{-3}	Meter Calibrators, Decade Resistances, / KCSI-EL-08
AC Voltage		60 Hz (1 ~ 100) V (100 ~ 1 000) V	7.5×10^{-4} 7.9×10^{-4}	
AC Current		60 Hz 1 A (1 ~ 100) A	1.8×10^{-3} 1.9×10^{-3}	
Timer		1 s (1 ~ 10) s (10 ~ 100) s (100 ~ 1 000) s	9.1×10^{-2} 9.2×10^{-3} 1.0×10^{-3} 2.0×10^{-4}	

402. Resistance, Capacitance & Inductance

Measured Quantity Instrument or Gauge	Field Code	Range	Measurement uncertainty (The Confidence Level is about 95 %)	Standard/Method of Measurement etc.
Insulation Testers Test Voltage AC Voltage DC Voltage Resistance	40210	10 V (10 ~ 1 000) V (1 000 ~ 5 000) V 60 Hz (1 ~ 100) V (100 ~ 1 000) V 0 V (0 ~ 1 000) V (1 ~ 10) kΩ (10 ~ 1 000) kΩ (1 ~ 10) MΩ (10 ~ 100) MΩ (0.1 ~ 1) GΩ (1 ~ 1 000) GΩ	5.8×10^{-4} 5.9×10^{-4} 6.6×10^{-3} 2.6×10^{-4} 3.7×10^{-4} 0.71 mV 7.1×10^{-4} 7.1×10^{-4} 7.9×10^{-4} 1.4×10^{-3} 2.5×10^{-3} 6.0×10^{-3} 1.2×10^{-2}	High Voltage Meter, Meter Calibrators, Digital Multimeters, / KCSI-EL-09
Resistance Bridges / Simular Instruments Resistance(Rheostat Arm) Resistance(Ratio Arm)	40213	1 mΩ (1 ~ 10) mΩ (10 ~ 100) mΩ (0.1 ~ 100) Ω (0.1 ~ 10) kΩ (1 ~ 100) mΩ (0.1 ~ 1) Ω (1 ~ 10) Ω (10 ~ 100) Ω (0.1 ~ 100) kΩ (0.1 ~ 1) MΩ	7.3×10^{-4} 7.4×10^{-4} 1.1×10^{-4} 7.2×10^{-5} 7.1×10^{-5} 6.0×10^{-5} 2.7×10^{-5} 1.4×10^{-5} 1.2×10^{-5} 1.3×10^{-5} 1.8×10^{-5}	Digital Multimeters, Standard Resistors, Decade Resistances, / KCSI-EL-10
Resistance Meters DC Resistance AC Resistance	40214	(1 ~ 100) mΩ (0.1 ~ 1) Ω (1 ~ 10) Ω (0.01 ~ 100) kΩ (0.1 ~ 1) MΩ (1 ~ 10) MΩ (10 ~ 100) MΩ (0.1 ~ 1) GΩ (1 ~ 1 000) GΩ 60 Hz ~ 1 kHz (1 ~ 100) mΩ (0.1 ~ 1 000) Ω	6.3×10^{-5} 2.7×10^{-5} 1.3×10^{-5} 1.2×10^{-5} 1.8×10^{-5} 3.0×10^{-5} 2.4×10^{-3} 6.0×10^{-3} 1.2×10^{-2} 1.3×10^{-3} 1.2×10^{-3}	Standard Resistors, Decade Resistances, / KCSI-EL-11

402. Resistance, Capacitance & Inductance

Measured Quantity Instrument or Gauge	Field Code	Range	Measurement uncertainty (The Confidence Level is about 95 %)	Standard/Method of Measurement etc.
Resistor Resistance	40215	1 mΩ (1 ~ 10) mΩ (10 ~ 100) mΩ (0.1 ~ 1) Ω (1 ~ 10) Ω (0.01 ~ 10) kΩ (10 ~ 100) kΩ (0.1 ~ 1) MΩ (1 ~ 10) MΩ (10 ~ 100) MΩ (0.1 ~ 1) GΩ (1 ~ 10) GΩ	5.7×10^{-4} 2.9×10^{-4} 2.5×10^{-4} 2.2×10^{-5} 1.4×10^{-5} 1.2×10^{-5} 1.3×10^{-5} 1.4×10^{-5} 2.0×10^{-5} 7.7×10^{-5} 4.1×10^{-4} 1.7×10^{-3}	Digital Multimeters, Meter Calibrators /KCSI-EL-12

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.
Ammeters, AC AC Current	40301	10 μA 10 Hz (0.01 ~ 1) kHz (1 ~ 10) kHz (10 ~ 100) μA 10 Hz (0.01 ~ 1) kHz (1 ~ 10) kHz (0.1 ~ 1) mA 10 Hz (0.01 ~ 1) kHz (1 ~ 10) kHz (1 ~ 10) mA 10 Hz (0.01 ~ 1) kHz (1 ~ 10) kHz (10 ~ 100) mA 10 Hz (0.01 ~ 1) kHz (1 ~ 10) kHz (0.1 ~ 1) A 10 Hz (0.01 ~ 1) kHz (1 ~ 10) kHz	1.5×10^{-2} 1.4×10^{-2} 3.3×10^{-2} 3.5×10^{-3} 2.7×10^{-3} 1.2×10^{-2} 2.5×10^{-3} 1.4×10^{-3} 6.2×10^{-3} 2.4×10^{-3} 7.0×10^{-4} 2.7×10^{-3} 2.4×10^{-3} 7.0×10^{-4} 3.5×10^{-3} 2.2×10^{-3} 7.0×10^{-4} 3.5×10^{-3}	Meter Calibrators, Current Amplifiers, / KCSI-EL-13

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.
Ammeters, AC AC Current	40301	(1 ~ 10) A 45 Hz (0.045 ~ 1) kHz (1 ~ 10) kHz (10 ~ 20) A (45 ~ 100) Hz (0.1 ~ 1) kHz (1 ~ 10) kHz (20 ~ 100) A (0.05 ~ 1) kHz	 9.3×10^{-4} 1.4×10^{-3} 3.5×10^{-2} 1.7×10^{-3} 2.1×10^{-3} 3.5×10^{-2} 3.0×10^{-3}	Meter Calibrators, Current Amplifiers, / KCSI-EL-13
Clamp Ammeters / Voltmeters DC Current AC Current DC Voltage AC Voltage Resistance	40302	0 mA (0 ~ 100) mA (0.1 ~ 1) A (1 ~ 10) A (10 ~ 100) A (100 ~ 500) A (500 ~ 1 000) A 60 Hz 1 mA (0.001 ~ 1) A (1 ~ 10) A 20 A (20 ~ 100) A (100 ~ 500) A (500 ~ 1 000) A 0 mV (0 ~ 10) mV (10 ~ 100) mV (0.1 ~ 1) V (1 ~ 10) V (10 ~ 1 000) V 60 Hz 10 mV (10 ~ 100) mV (0.1 ~ 100) V (100 ~ 1 000) V 1 Ω (1 ~ 10) Ω (0.01 ~ 10) k Ω (0.01 ~ 1) M Ω (1 ~ 10) M Ω	0.71 μ A 7.2×10^{-4} 7.5×10^{-4} 9.0×10^{-4} 3.5×10^{-3} 3.1×10^{-3} 3.2×10^{-3} 1.4×10^{-3} 9.3×10^{-4} 1.1×10^{-3} 3.3×10^{-3} 3.7×10^{-3} 3.4×10^{-3} 3.3×10^{-3} 1.1 μ V 1.4×10^{-4} 3.2×10^{-5} 1.5×10^{-5} 1.6×10^{-5} 2.1×10^{-5} 8.6×10^{-4} 2.4×10^{-4} 2.2×10^{-4} 3.2×10^{-4} 7.5×10^{-5} 7.2×10^{-5} 7.1×10^{-5} 7.2×10^{-5} 7.4×10^{-5}	Meter Calibrators, Turn Coil, Standard Resistors, Decade Resistances / KCSI-EL-14

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.	
Calibrators, AC Voltage / Current AC Voltage	40303	1 mV		Digital Multimeters, Active Shunts / KCSI-EL-15	
		10 Hz	4.4×10^{-2}		
		(0.01 ~ 10) kHz	1.6×10^{-2}		
		(10 ~ 100) kHz	6.0×10^{-3}		
		(1 ~ 10) mV			
		10 Hz	4.4×10^{-3}		
		(0.01 ~ 10) kHz	1.6×10^{-3}		
		(10 ~ 100) kHz	6.3×10^{-3}		
		(10 ~ 100) mV			
		10 Hz	5.1×10^{-4}		
		(0.01 ~ 1) kHz	2.0×10^{-4}		
		(1 ~ 10) kHz	2.1×10^{-4}		
		(10 ~ 100) kHz	1.1×10^{-3}		
		(0.1 ~ 10) V			
		10 Hz	4.2×10^{-4}		
		(0.01 ~ 1) kHz	1.1×10^{-4}		
		(1 ~ 10) kHz	1.3×10^{-4}		
		(10 ~ 100) kHz	7.2×10^{-4}		
		(10 ~ 100) V			
		10 Hz	4.2×10^{-4}		
		(0.01 ~ 1) kHz	1.2×10^{-4}		
		(1 ~ 10) kHz	1.3×10^{-4}		
		(10 ~ 100) kHz	7.4×10^{-4}		
		(100 ~ 1 000) V			
		(0.050 ~ 1) kHz	1.5×10^{-4}		
		AC Current	30 μ A		
			10 Hz		1.9×10^{-3}
			(0.01 ~ 1) kHz		1.2×10^{-3}
			(1 ~ 10) kHz		6.7×10^{-3}
			(30 ~ 100) μ A		
			10 Hz		6.9×10^{-4}
			(0.01 ~ 1) kHz		5.4×10^{-4}
			(1 ~ 10) kHz		2.0×10^{-3}
(0.1 ~ 1) mA					
10 Hz	5.9×10^{-4}				
(0.01 ~ 1) kHz	5.1×10^{-4}				
(1 ~ 10) kHz	2.1×10^{-3}				
(1 ~ 10) mA					
10 Hz	5.9×10^{-4}				
(0.01 ~ 1) kHz	5.1×10^{-4}				
(1 ~ 10) kHz	1.9×10^{-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.
Calibrators, AC Voltage / Current AC Current	40303	(10 ~ 100) mA 10 Hz (0.01 ~ 1) kHz (1 ~ 10) kHz (0.1 ~ 1) A (0.01 ~ 1) kHz (1 ~ 10) kHz (1 ~ 10) A (0.040 ~ 1) kHz (10 ~ 20) A (0.040 ~ 1) kHz (20 ~ 100) A (0.050 ~ 1) kHz	5.8×10^{-4} 4.8×10^{-4} 1.5×10^{-3} 8.7×10^{-4} 8.1×10^{-3} 1.2×10^{-3} 1.6×10^{-3} 1.9×10^{-3}	Digital Multimeters, Active Shunts / KCSI-EL-15
Voltage / Current Phase Angle Meters Phase Angle	40307	(±) (0 ~ 20) ° (20 ~ 30) ° (30 ~ 40) ° (40 ~ 50) ° (50 ~ 60) ° (60 ~ 65) ° (65 ~ 70) ° (70 ~ 75) ° (75 ~ 90) °	1.2×10^{-3} 1.6×10^{-3} 2.1×10^{-3} 2.6×10^{-3} 3.2×10^{-3} 4.2×10^{-3} 5.9×10^{-3} 9.1×10^{-3} 1.8×10^{-2}	Power Meter Calibrators / KCSI-EL-16
Power Factor Meters Power Factor(LEAD / LAG)	40310	(50 ~ 60) Hz 0.1 0.1 ~ 0.2 0.2 ~ 0.3 0.3 ~ 0.4 0.4 ~ 0.5 0.5 ~ 0.6 0.6 ~ 0.7 0.7 ~ 0.8 0.8 ~ 0.9 0.9 ~ 1	1.9×10^{-2} 9.5×10^{-3} 6.0×10^{-3} 4.5×10^{-3} 3.4×10^{-3} 2.7×10^{-3} 2.0×10^{-3} 1.6×10^{-3} 1.1×10^{-3} 6.1×10^{-4}	Power Meter Calibrators / KCSI-EL-17
Power Meters, AC Active Power	40311	(50 ~ 60) Hz 10 W (10 ~ 100) W (0.1 ~ 1) kW (1 ~ 10) kW (10 ~ 240) kW	1.9×10^{-3} 9.7×10^{-4} 1.1×10^{-3} 3.2×10^{-3} 3.1×10^{-3}	Power Meter Calibrators, Meter Calibrators / KCSI-EL-18

403. AC Voltage, Current & Power

Measured Quantity Instrument or Gauge	Field Code	Range	Measurement uncertainty (The Confidence Level is about 95 %)	Standard/Method of Measurement etc.
Power Meters, AC AC Voltage AC Current Power Factor(LEAD / LAG)	40311	(50 ~ 60) Hz (1 ~ 100) V (100 ~ 1 000) V (50 ~ 60) Hz (10 ~ 1 000) mA (1 ~ 10) A (10 ~ 20) A (20 ~ 100) A (100 ~ 500) A (500 ~ 1 000) A (50 ~ 60) Hz 0.1 0.1 ~ 0.2 0.2 ~ 0.3 0.3 ~ 0.4 0.4 ~ 0.5 0.5 ~ 0.6 0.6 ~ 0.7 0.7 ~ 0.8 0.8 ~ 0.9 0.9 ~ 1	 2.3×10^{-4} 3.3×10^{-4} 6.1×10^{-4} 5.2×10^{-4} 1.5×10^{-3} 3.4×10^{-3} 3.0×10^{-3} 3.3×10^{-3} 1.9×10^{-2} 9.5×10^{-3} 6.0×10^{-3} 4.5×10^{-3} 3.4×10^{-3} 2.7×10^{-3} 2.0×10^{-3} 1.6×10^{-3} 1.1×10^{-3} 6.1×10^{-4}	Power Meter Calibrators, Meter Calibrators / KCSI-EL-18
Power Supplies, AC AC Voltage AC Current Frequency	40312	(0.05 ~ 1) kHz 1 V (1 ~ 100) V (100 ~ 1 000) V (0.05 ~ 1) kHz (0.001 ~ 1) A (1 ~ 100) A 40 Hz (40 ~ 1 000) Hz	 1.4×10^{-3} 1.3×10^{-3} 1.2×10^{-3} 1.8×10^{-3} 1.9×10^{-3} 1.5×10^{-5} 5.8×10^{-6}	Digital Multimeters, Electronic Loads, Active Shunts / KCSI-EL-19
Puncture / Safety Testers DC Voltage	40313	0 V (0 ~ 10) V (10 ~ 100) V (100 ~ 500) V (500 ~ 1 000) V (1 ~ 5) kV (5 ~ 10) kV (10 ~ 100) kV	 5.8 mV 5.8×10^{-4} 5.9×10^{-4} 1.2×10^{-3} 5.8×10^{-3} 6.6×10^{-3} 8.2×10^{-3} 8.3×10^{-3}	Leakage Current Testers, High Voltage Testers / KCSI-EL-20

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 AC Voltage	40313	60 Hz		Leakage Current Testers, High Voltage Testers / KCSI-EL-20
		(10 ~ 100) V	1.3×10^{-3}	
		(100 ~ 500) V	1.7×10^{-3}	
		(500 ~ 1 000) V	5.9×10^{-3}	
		(1 ~ 5) kV	1.2×10^{-2}	
		(5 ~ 100) kV	1.4×10^{-2}	
DC Current		0 mA	3.0 μ A	
		(0 ~ 0.5) mA	6.0×10^{-3}	
		(0.5 ~ 1) mA	5.9×10^{-3}	
		(1 ~ 2) mA	6.5×10^{-3}	
		(2 ~ 5) mA	6.0×10^{-3}	
		(5 ~ 100) mA	5.9×10^{-3}	
AC Current		60 Hz		
		0.5 mA	6.8×10^{-3}	
		(0.5 ~ 1) mA	6.2×10^{-3}	
		(1 ~ 2) mA	9.0×10^{-3}	
		(2 ~ 5) mA	6.8×10^{-3}	
	(5 ~ 10) mA	6.4×10^{-3}		
	(5 ~ 100) mA	6.1×10^{-3}		
Operating Time	1 s	9.1×10^{-2}		
	(1 ~ 10) s	9.2×10^{-3}		
	(10 ~ 100) s	1.0×10^{-3}		
	(100 ~ 1 000) s	2.0×10^{-4}		
Voltmeters, AC AC Voltage	40318	1 mV		Meter Calibrators / KCSI-EL-21
		10 Hz	8.2×10^{-3}	
		(0.01 ~ 10) kHz	7.5×10^{-3}	
		(10 ~ 100) kHz	1.9×10^{-2}	
		(1 ~ 10) mV		
		10 Hz	1.7×10^{-3}	
		(0.01 ~ 10) kHz	9.6×10^{-4}	
		(10 ~ 100) kHz	5.5×10^{-3}	
		(10 ~ 100) mV		
		10 Hz	4.6×10^{-4}	
		(0.01 ~ 10) kHz	2.7×10^{-4}	
		(10 ~ 100) kHz	1.3×10^{-3}	
		(0.1 ~ 1) V		
		10 Hz	4.2×10^{-4}	
		(0.01 ~ 10) kHz	2.5×10^{-4}	
	(10 ~ 100) kHz	9.6×10^{-4}		

403. AC Voltage, Current & Power

Measured Quantity Instrument or Gauge	Field Code	Range	Measurement uncertainty (The Confidence Level is about 95 %)	Standard/Method of Measurement etc.
Voltmeters, AC AC Voltage	40318	(1 ~ 10) V 10 Hz (0.01 ~ 10) kHz (10 ~ 100) kHz (10 ~ 100) V 45 Hz (0.45 ~ 10) kHz (10 ~ 100) kHz	 4.3×10^{-4} 2.5×10^{-4} 1.3×10^{-3} 2.5×10^{-4} 3.1×10^{-4} 2.9×10^{-3}	Meter Calibrators / KCSI-EL-21

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.
Calibrators, Multimeter DC Voltage DC Current Resistance	40403	(±) 0 mV (0 ~ 1) mV (1 ~ 10) mV (10 ~ 100) mV (0.1 ~ 1) V (1 ~ 10) V (10 ~ 100) V (100 ~ 1 000) V (±) 0 µA (0 ~ 10) µA (10 ~ 100) µA (0.1 ~ 1) mA (1 ~ 10) mA (10 ~ 100) mA (0.1 ~ 1) A (1 ~ 10) A (10 ~ 20) A 0 Ω (0 ~ 1) Ω (1 ~ 10) Ω (10 ~ 1 000) Ω (1 ~ 10) kΩ (10 ~ 100) kΩ (0.1 ~ 1) MΩ (1 ~ 10) MΩ (10 ~ 100) MΩ (100 ~ 1 000) MΩ	 0.62 µV 6.2×10^{-4} 6.2×10^{-5} 1.4×10^{-5} 6.5×10^{-6} 5.2×10^{-6} 7.1×10^{-6} 9.1×10^{-6} 7.5 nA 7.5×10^{-4} 1.2×10^{-4} 4.3×10^{-5} 4.7×10^{-5} 7.2×10^{-5} 2.1×10^{-4} 5.2×10^{-4} 4.7×10^{-4} 59 µΩ 6.2×10^{-5} 1.4×10^{-5} 9.4×10^{-6} 8.7×10^{-6} 9.5×10^{-6} 1.2×10^{-5} 2.7×10^{-5} 1.6×10^{-4} 1.6×10^{-3}	Digital Multimeters / KCSI-EL-22

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.
Calibrators, Multimeter	40403			Digital Multimeters
		AC Voltage	1 mV 10 Hz (0.01 ~ 10) kHz (10 ~ 100) kHz (1 ~ 10) mV 10 Hz (0.01 ~ 10) kHz (10 ~ 100) kHz (10 ~ 100) mV 10 Hz (0.01 ~ 1) kHz (1 ~ 10) kHz (10 ~ 100) kHz (0.1 ~ 10) V 10 Hz (0.01 ~ 1) kHz (1 ~ 10) kHz (10 ~ 100) kHz (10 ~ 100) V 10 Hz (0.01 ~ 1) kHz (1 ~ 10) kHz (10 ~ 100) kHz (100 ~ 1 000) V (0.050~ 1) kHz AC Current 30 μA 10 Hz (0.01 ~ 1) kHz (1 ~ 10) kHz (30 ~ 100) μA 10 Hz (0.01 ~ 1) kHz (1 ~ 10) kHz (0.1 ~ 1) mA 10 Hz (0.01 ~ 1) kHz (1 ~ 10) kHz (1 ~ 10) mA 10 Hz (0.01 ~ 1) kHz (1 ~ 10) kHz	4.4×10^{-2} 1.6×10^{-2} 6.0×10^{-2} 4.4×10^{-3} 1.6×10^{-3} 6.3×10^{-3} 5.1×10^{-4} 2.0×10^{-4} 2.1×10^{-4} 1.1×10^{-3} 4.2×10^{-4} 1.1×10^{-4} 1.3×10^{-4} 7.2×10^{-4} 4.2×10^{-4} 1.2×10^{-4} 1.3×10^{-4} 7.4×10^{-4} 1.5×10^{-4} 1.9×10^{-3} 1.2×10^{-3} 6.7×10^{-3} 6.9×10^{-4} 5.4×10^{-4} 2.0×10^{-3} 5.9×10^{-4} 5.1×10^{-4} 2.1×10^{-3} 5.9×10^{-4} 5.1×10^{-4} 1.9×10^{-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.
Calibrators, Multimeter	40403	(10 ~ 100) mA 10 Hz (0.01 ~ 1) kHz (1 ~ 10) kHz (0.1 ~ 1) A (0.01 ~ 1) kHz (1 ~ 10) kHz (1 ~ 10) A (0.040 ~ 1) kHz (10 ~ 20) A (0.040 ~ 1) kHz	5.8×10^{-4} 4.8×10^{-4} 1.5×10^{-3} 8.7×10^{-4} 8.1×10^{-3} 1.2×10^{-3} 1.6×10^{-3}	Digital Multimeters / KCSI-EL-22
Line Frequency Meters Frequency	40410	10 Hz (10 ~ 1 000) Hz	9.3×10^{-5} 7.1×10^{-5}	AC Voltage Current Standards, Function Generators, / KCSI-EL-23
Function Generators Frequency Flatness Attenuation Rise & Fall Time DC Offset	40411	0.1 Hz ~ 100 MHz 1 V 20 Hz (20 ~ 100) Hz (0.1 ~ 100) kHz (0.1 ~ 1) MHz (1 ~ 10) MHz 1 kHz -70 dB (-70 ~ -60) dB (-60 ~ -50) dB (-50 ~ -40) dB (-40 ~ 50) dB 1 ns (1 ~ 1 000) ns (±) (1 ~ 10) V (10 ~ 20) V	5.8×10^{-7} 1.2×10^{-2} 6.2×10^{-3} 6.2×10^{-3} 9.3×10^{-3} 4.1×10^{-2} 0.32 dB 0.31 dB 0.21 dB 0.20 dB 0.16 dB 5.1×10^{-2} 2.2×10^{-2} 5.8×10^{-4} 2.9×10^{-3}	Frequency Counters, Digital Multimeters, True RMS Voltmeters, Oscilloscopes / KCSI-EL-24
Impulse Generators, LF Pulse Voltage Rise Time&Pulse repeatability	40414	(0.1 ~ 30) kV 10 ns ~ 10 ms	4.7×10^{-2} 2.2×10^{-2}	Oscilloscopes, High Voltage Probes / KCSI-EL-25
Leakage Current Testers DC Current	40416	0 µA (0 ~ 10) µA (10 ~ 100) µA (0.1 ~ 1) mA (1 ~ 100) mA	0.025 µA 2.6×10^{-3} 4.2×10^{-4} 1.9×10^{-4} 1.7×10^{-4}	AC Voltage Current Standards, Meter Calibrators, / KCSI-EL-26

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 AC Current	40416	(0.05 ~ 1) kHz		Oscilloscopes, High Voltage Probes / KCSI-EL-25 AC Voltage Current Standards, Meter Calibrators, / KCSI-EL-26		
		10 μA	1.4×10^{-2}			
		(10 ~ 100) μA	2.7×10^{-3}			
		(0.1 ~ 1) mA	1.4×10^{-3}			
		(1 ~ 100) mA	7.0×10^{-3}			
DC Voltage		0 V	$7.7 \mu\text{V}$			
		(0 ~ 1) V	1.7×10^{-5}			
		(1 ~ 10) V	1.8×10^{-5}			
		(10 ~ 1 000) V	2.4×10^{-5}			
AC Voltage		(0.05 ~ 1) kHz				
		(1 ~ 100) V	2.6×10^{-4}			
		(100 ~ 1 000) V	3.7×10^{-4}			
Resistance	(1 ~ 10) kΩ	5.8×10^{-4}				
AC / DC Loads, Electronic DC Voltage	40417	0 mV	$1.3 \mu\text{V}$	Meter Calibrators, Digital Multimeters, DC Power Supplies, Active Shunts, Oscilloscopes / KCSI-EL-27		
		(0 ~ 10) mV	1.5×10^{-4}			
		(10 ~ 100) mV	7.7×10^{-5}			
		(0.1 ~ 10) V	7.2×10^{-5}			
		(10 ~ 1 000) V	7.3×10^{-5}			
DC Current		0 mA	$1.8 \mu\text{A}$			
		(0 ~ 100) mA	1.8×10^{-4}			
		(0.1 ~ 1) A	2.7×10^{-4}			
		(1 ~ 10) A	3.3×10^{-4}			
		(10 ~ 100) A	6.1×10^{-4}			
Multimeters, Analogue / Digital DC Voltage		40419	(±)			Meter Calibrators, Decade Resistances, Standard Resistors / KCSI-EL-28,29,30
			0 mV		$1.2 \mu\text{V}$	
	(0 ~ 10) mV		1.5×10^{-4}			
	(10 ~ 100) mV		3.6×10^{-5}			
	(0.1 ~ 1) V		1.6×10^{-5}			
	(1 ~ 10) V		1.7×10^{-5}			
	(10 ~ 1 000) V		2.3×10^{-5}			
DC Current	(±)					
	0 μA		24 nA			
	(0 ~ 1) μA		2.4×10^{-3}			
	(1 ~ 10) μA		2.5×10^{-3}			
	(10 ~ 100) μA		4.1×10^{-4}			
	(0.1 ~ 1) mA	1.8×10^{-4}				
Multimeters, Analogue / Digital DC Current	(1 ~ 100) mA	1.5×10^{-4}				
	(0.1 ~ 1) A	2.8×10^{-4}				
	(1 ~ 10) A	6.4×10^{-4}				
	(10 ~ 20) A	1.2×10^{-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.
Multimeters, Analogue / Digital	40419			Meter Calibrators, Decade Resistances, Standard Resistors / KCSI-EL-28,29,30
Resistance		1 Ω	2.7×10^{-5}	
		(1 ~ 10) Ω	1.3×10^{-5}	
		(0.01 ~ 100) kΩ	1.2×10^{-5}	
		(0.1 ~ 1) MΩ	1.8×10^{-5}	
		(1 ~ 10) MΩ	2.5×10^{-5}	
		(10 ~ 100) MΩ	5.3×10^{-4}	
AC Voltage		1 mV		
		10 Hz	8.2×10^{-3}	
		(0.01 ~ 10) kHz	7.5×10^{-3}	
		(10 ~ 100) kHz	1.9×10^{-2}	
		(1 ~ 10) mV		
		10 Hz	1.7×10^{-3}	
		(0.01 ~ 10) kHz	9.6×10^{-4}	
		(10 ~ 100) kHz	5.5×10^{-3}	
		(10 ~ 100) mV		
		10 Hz	4.5×10^{-4}	
		(0.01 ~ 10) kHz	2.7×10^{-4}	
		(10 ~ 100) kHz	1.3×10^{-3}	
		(0.1 ~ 1) V		
		10 Hz	4.1×10^{-4}	
		(0.01 ~ 10) kHz	2.5×10^{-4}	
		(10 ~ 100) kHz	9.6×10^{-4}	
		(1 ~ 10) V		
		10 Hz	4.3×10^{-4}	
		(0.01 ~ 10) kHz	2.5×10^{-4}	
		(10 ~ 100) kHz	1.3×10^{-3}	
		(10 ~ 100) V		
		45 Hz	2.5×10^{-4}	
		(0.045 ~ 10) kHz	3.1×10^{-4}	
		(10 ~ 100) kHz	2.9×10^{-3}	
		(100 ~ 1 000) V		
		(0.045 ~ 10) kHz	3.7×10^{-4}	
AC Current		10 μA		
		10 Hz	1.5×10^{-2}	
		(0.01 ~ 1) kHz	1.4×10^{-2}	
		(1 ~ 10) kHz	3.3×10^{-2}	
AC Current		(30 ~ 100) μA		
		10 Hz	3.5×10^{-3}	
		(0.01 ~ 1) kHz	2.7×10^{-3}	
		(1 ~ 10) kHz	1.2×10^{-2}	
		(0.1 ~ 1) mA		
		10 Hz	2.5×10^{-3}	
		(0.01 ~ 1) kHz	1.4×10^{-3}	
		(1 ~ 10) kHz	6.2×10^{-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.	
Multimeters, Analogue / Digital AC Current	40419	(1 ~ 10) mA		Meter Calibrators, Decade Resistances, Standard Resistors / KCSI-EL-28,29,30	
		10 Hz	2.4×10^{-3}		
		(0.01 ~ 1) kHz	7.0×10^{-4}		
		(1 ~ 10) kHz	2.7×10^{-3}		
		(10 ~ 100) mA			
		10 Hz	2.4×10^{-3}		
		(0.01 ~ 1) kHz	7.0×10^{-4}		
		(1 ~ 10) kHz	3.5×10^{-3}		
		(0.1 ~ 1) A			
		10 Hz	2.2×10^{-3}		
		(0.01 ~ 1) kHz	7.0×10^{-4}		
		(1 ~ 10) kHz	3.5×10^{-3}		
		(1 ~ 10) A			
		45 Hz	9.3×10^{-4}		
		(0.045 ~ 1) kHz	1.4×10^{-3}		
		(1 ~ 10) kHz	3.5×10^{-2}		
		(10 ~ 20) A			
		(45 ~ 100) Hz	1.7×10^{-3}		
		(0.1 ~ 1) kHz	2.1×10^{-3}		
		(1 ~ 10) kHz	3.5×10^{-3}		
Frequency		1 Hz	6.0×10^{-4}		
		(1 ~ 10) Hz	6.1×10^{-5}		
		(10 ~ 100) Hz	8.4×10^{-6}		
		(0.000 1 ~ 10) MHz	6.0×10^{-6}		
Oscilloscopes DC Voltage	40421	1 mV	4.7×10^{-2}	Oscilloscopes Calibrators, Frequency Counters, Oscilloscopes / KCSI-EL-31	
		(1 ~ 20) mV	2.9×10^{-3}		
		(20 ~ 100) mV	1.1×10^{-3}		
		(0.1 ~ 2) V	6.5×10^{-4}		
		(2 ~ 10) V	5.9×10^{-4}		
		(10 ~ 120) V	5.8×10^{-4}		
AC Voltage(Square wave)			1 mV		4.8×10^{-2}
			(1 ~ 20) mV		3.5×10^{-3}
			(20 ~ 100) mV		1.7×10^{-3}
			(0.1 ~ 120) V		1.2×10^{-3}
Bandwidth			50 kHz		2.5×10^{-2}
			(0.05 ~ 200) MHz		4.5×10^{-2}
			(200 ~ 600) MHz		5.2×10^{-2}
			(600 ~ 1 000) MHz		7.3×10^{-2}
Time			1 ns		7.1×10^{-4}
			(1 ~ 2) ns		3.6×10^{-4}
			(2 ~ 5) ns		1.4×10^{-4}
			(5 ~ 10) ns		7.1×10^{-4}

404. Other DC & LF Measurements

Measured Quantity Instrument or Gauge	Field Code	Range	Measurement uncertainty (The Confidence Level is about 95 %)	Standard/Method of Measurement etc.
Oscilloscopes Time	40421	(10 ~ 20) ns (20 ~ 50) ns (50 ~ 100) ns (100 ~ 200) ns (200 ~ 500) ns (0.5 ~ 1) μs (1 ~ 2) μs (2 ~ 5) μs (5 ~ 10) μs (10 ~ 20) μs (20 ~ 50) μs (50 ~ 100) μs (100 ~ 200) μs (200 ~ 500) μs (0.5 ~ 1) ms (1 ~ 2) ms (2 ~ 5) ms (5 ~ 10) ms (10 ~ 20) ms (20 ~ 50) ms (50 ~ 100) ms (100 ~ 200) ms (200 ~ 500) ms (0.5 ~ 1) s (1 ~ 2) s (2 ~ 5) s (5 ~ 10) s	3.6×10^{-4} 1.4×10^{-4} 7.1×10^{-4} 3.6×10^{-4} 1.4×10^{-4} 7.1×10^{-4} 3.6×10^{-4} 1.4×10^{-4} 7.1×10^{-4} 3.6×10^{-4} 1.4×10^{-4} 7.1×10^{-4} 3.6×10^{-4} 1.4×10^{-4} 7.1×10^{-4} 3.6×10^{-4} 1.7×10^{-4} 7.2×10^{-4} 4.4×10^{-4} 6.4×10^{-4} 1.4×10^{-3} 2.4×10^{-3} 6.0×10^{-3} 5.9×10^{-3}	Oscilloscopes Calibrators, Frequency Counters, Oscilloscopes / KCSI-EL-31
Input Impedance Measure		50 Ω 75 Ω 1 MΩ	2.4×10^{-4} 1.9×10^{-4} 7.2×10^{-4}	
Oscilloscopes CAL Output Amplitude CAL Output Frequency		(0.04 ~ 20) kHz (0.1 ~ 1) V (1 ~ 12) V 40 Hz (0.04 ~ 10) kHz (10 ~ 20) kHz	1.3×10^{-3} 3.3×10^{-3} 1.8×10^{-5} 7.1×10^{-6} 3.6×10^{-5}	
Recorders, Volt / Current DC Voltage	40424	(±) 0 mV (0 ~ 10) mV (10 ~ 100) mV (0.1 ~ 1) V	$1.2 \mu\text{V}$ 1.5×10^{-4} 3.6×10^{-5} 1.7×10^{-5}	Meter Calibrators / KCSI-EL-32

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.
Recorders, Volt / Current	40424			Meter Calibrators / KCSI-EL-32
DC Voltage		(1 ~ 100) V	1.8×10^{-5}	
		(100 ~ 1 000) V	2.4×10^{-5}	
DC Current		(±)		
		0 μA	24 nA	
		(0 ~ 10) μA	2.5×10^{-3}	
		(10 ~ 100) μA	4.2×10^{-4}	
		(0.1 ~ 1) mA	1.9×10^{-4}	
		(1 ~ 100) mA	1.7×10^{-4}	
		(0.1 ~ 1) A	2.9×10^{-4}	
		(1 ~ 10) A	6.4×10^{-4}	
		(10 ~ 20) A	1.3×10^{-3}	
AC Voltage		60 Hz		
		10 mV	9.6×10^{-4}	
		(10 ~ 100) mV	2.8×10^{-4}	
		(0.1 ~ 100) V	2.6×10^{-4}	
		(100 ~ 1 000) V	3.7×10^{-4}	
AC Current		60 Hz		
		10 μA	1.4×10^{-2}	
		(10 ~ 100) μA	2.7×10^{-3}	
		(0.1 ~ 1) mA	1.4×10^{-3}	
		(0.001 ~ 1) A	7.0×10^{-4}	
		(1 ~ 10) A	1.4×10^{-3}	
		(10 ~ 20) A	2.1×10^{-3}	
Relay Test Sets	40425			Digital Multimeters, Active Shunts, Oscilloscopes / KCSI-EL-33
DC Voltage		0 V	0.58 mV	
		(0 ~ 1) V	5.9×10^{-4}	
		(1 ~ 10) V	5.8×10^{-4}	
		(10 ~ 1 000) V	5.9×10^{-4}	
DC Current		0 mA	1.8 μA	
		(0 ~ 1) mA	8.8×10^{-4}	
		(1 ~ 10) mA	1.1×10^{-3}	
		(10 ~ 100) mA	8.8×10^{-4}	
		(0.1 ~ 1) A	1.1×10^{-3}	
		(1 ~ 10) A	2.1×10^{-3}	
		(10 ~ 20) A	4.0×10^{-4}	
		(20 ~ 100) A	6.6×10^{-4}	
AC Voltage		(0.04 ~ 1) kHz		
		(1 ~ 1 000) V	1.3×10^{-3}	
AC Current		(0.04 ~ 1) kHz		
		(0.1 ~ 10) A	2.2×10^{-3}	
		(10 ~ 20) A	3.0×10^{-3}	
		(20 ~ 100) A	2.2×10^{-3}	
Operating Time		(0.001 ~ 10) s	1.8×10^{-2}	
		(10 ~ 60) s	2.2×10^{-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.
Signal Generators, LF	40426	Frequency	10 Hz ~ 10 MHz	Frequency Counters, Digital Multimeters, True RMS Voltmeters, / KCSI-EL-34
Flatness		1 V	5.8×10^{-4}	
		20 Hz	1.2×10^{-2}	
		(0.02 ~ 100) kHz	6.2×10^{-3}	
		(0.1 ~ 1) MHz	9.3×10^{-3}	
		(1 ~ 10) MHz	4.1×10^{-2}	
Attenuation		1 kHz		
		-60 dB	0.31 dB	
		(-60 ~ -40) dB	0.20 dB	
		(-40 ~ 50) dB	0.16 dB	

501. Contact thermometry

Measured Quantity Instrument or Gauge	Field Code	Range	Measurement uncertainty (The Confidence Level is about 95 %)	Standard/Method of Measurement etc.
Temperature generators: ovens, furnaces, isothermal liquid baths, ice-point baths, dry-block calibrators ice-point baths	50101	(-196 ~ 250) °C (250 ~ 650) °C (650 ~ 1 100) °C (1 100 ~ 1 200) °C 0 °C	0.09 °C 0.10 °C 1.7 °C 2.8 °C 0.02 °C	SPRT, STC / KCSI-TE01
Temperature indicators /recorders/ controllers Sensor inclusion Sensor exclusion	50102	(-196 ~ 250) °C (250 ~ 1 100) °C (1 100 ~ 1 200) °C (-196 ~ 1 200) °C (-196 ~ 500) °C	0.08 °C 1.7 °C 2.9 °C 0.39 °C 0.08 °C	SPRT, STC / KCSI-TE03 Calibrator / KCSI-TE03
Glass thermometers	50103	(-40 ~ 250) °C	0.10 °C	SPRT / KCSI-TE04
Resistance thermometers IPRT	50104	(-196 ~ 250) °C	0.12 °C	SPRT / KCSI-TE06
Thermal expansion thermometers Bimetal	50105	(-40 ~ 250) °C	0.3 °C	SPRT / KCSI-TE08
Thermomecoules base metal	50106	(-196 ~ 250) °C (250 ~ 1 100) °C (1 100 ~ 1 200) °C	0.42 °C 1.4 °C 2.8 °C	SPRT,STC / KCSI-TE09
Temperature transducers	50107	(-196 ~ 250) °C (250 ~ 800) °C (800 ~ 1 200) °C	0.86 °C 1.6 °C 2.8 °C	SPRT,STC / KCSI-TE10

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.
Standard radiation thermometers	50204	(0 ~ 200) °C (200 ~ 500) °C (500 ~ 800) °C (800 ~ 1000) °C	1.1 °C 1.3 °C 2.7 °C 3.3 °C	Standard radiation thermometers / KCSI-TN01
Blackbody furnaces	50206	(0 ~ 100) °C (100 ~ 500) °C (500 ~ 1000) °C	1.2 °C 1.4 °C 3.0 °C	Standard radiation thermometers / KCSI-TN02

503. Humidity

Measured Quantity Instrument or Gauge	Field Code	Range	Measurement uncertainty (The Confidence Level is about 95 %)	Standard/Method of Measurement etc.
Relative humidity hygrometers Hair hygrometers Polymer thin film hygrometers	50302	(20 ~ 95) % R.H. (0 ~ 50) °C (20 ~ 95) % R.H. (-40 ~ 100) °C	4.5 % R.H. 0.7 °C 2.7 % R.H. 0.7 °C	Dew point instruments / KCSI-HU02 Dew point instruments / KCSI-HU04
Temperature humidity recorders; Hygrothermograph, etc.	50304	(20 ~ 95) % R.H. (-20 ~ 80) °C	4.6 % R.H. 1.2 °C	Dew point instruments / KCSI-HU06
Transducers; dew-point/ relative humidity Relative humidity	50305	(20 ~ 95) % R.H.	3.0 % R.H.	Dew point instruments / KCSI-HU07
Humidity generators; constant temperature and Humidity Chamber, etc.	50306	(20 ~ 60) % R.H. (60 ~ 95) % R.H. (-70 ~ 180) °C	3.0 % R.H. 4.6 % R.H. 0.9 °C	Dew point instruments / KCSI-HU08

(Note 1) The range whichever is greater above 500 g and up to 5 kg.

(Note 2) The numeral without unit ($7.0 \times 10^{-4} = 0.070 \%$) at index column of CMC indicates the relative uncertainty value expressed as a form of exponent.

The end.