

102. Linear dimension

Measured Quantity Instrument or Gauge	Field code	Range	Uncertainty of measurement (The Confidence Level is about 95 %)	Comments
Balls	10201	(5 ~ 25) mm	$\sqrt{(0.34\mu\text{m})^2+(3.2\times 10^{-6}\times L_0)^2}$	Measuring machines, standard / KRCMI-I-102-29
Dial/cylinder gauge testers	10206	(0 ~ 100) mm	$\sqrt{(0.20\mu\text{m})^2+(1.6\times 10^{-6}\times L_0)^2}$	Gauge blocks, Electronic micrometers / KRCMI-I-102-01
Distance meters; electrooptic/laser	10208	(0 ~ 40) m	$\sqrt{(0.19\mu\text{m})^2+(1.5\times 10^{-9}\times L_0)^2}$	Laser interferometers / KRCMI-I-102-037
End bars	10209	(25 ~ 500) mm (500 ~ 1 000) mm	$\sqrt{(0.25\mu\text{m})^2+(3.1\times 10^{-6}\times L_0)^2}$ $\sqrt{(1.02\mu\text{m})^2+(1.8\times 10^{-6}\times L_0)^2}$	Gauge blocks, Measuring machines, standard / KRCMI-I-102-03
Extensometers, linear displacement transducers Cylinder Wire	10210	(0 ~ 100) mm (0 ~ 2 000) mm	$\sqrt{(1.7\mu\text{m})^2+(0.2\times 10^{-6}\times L_0)^2}$ 2.9 mm	Dial/cylinder gauge testers Multimeter / KRCMI-I-102-24
Filler gauges	10211	(0.01 ~ 5) mm	0.8 μm	Outside micrometers / KRCMI-I-102-04
Gapgauges	10213	(5 ~ 200) mm	$\sqrt{(0.4\mu\text{m})^2+(3.1\times 10^{-6}\times L_0)^2}$	Measuring machines, standard, Cylindrical ring gauges / KRCMI-I-102-06
Gauge blocks, by comparison	10214	(0.5 ~ 100) mm	$\sqrt{(71\text{nm})^2+(1.2\times 10^{-6}\times L_0)^2}$	Gauge blocks, Gauge block comparators / KRCMI-I-102-07
Height gauges/measuring machines	10216	(0 ~ 600) mm (600 ~ 1 000) mm	$\sqrt{(0.6\mu\text{m})^2+(1.5\times 10^{-6}\times L_0)^2}$ $\sqrt{(7.7\mu\text{m})^2+(2.0\times 10^{-6}\times L_0)^2}$	Step gauges, Electronic micrometers, Precision surface plates / KRCMI-I-102-08
Measuring machines, standard	10220	(0 ~ 100) mm (100 ~ 500) mm	$\sqrt{(0.36\mu\text{m})^2+(1.3\times 10^{-6}\times L_0)^2}$ $\sqrt{(0.40\mu\text{m})^2+(1.4\times 10^{-6}\times L_0)^2}$	Gauge blocks, Optical flats, Optical parallels, Monochromatic Light Source / KRCMI-I-102-09
Electronic micrometers	10223	(0 ~ 250) μm	0.36 μm	Surface plate Gauge block/ KRCMI-I-102-10
Heightmicrometers, Riserblocks Head Block	10224	(0 ~ 20) mm (5 ~ 600) mm	0.66 μm $\sqrt{(1.4\mu\text{m})^2+(3.0\times 10^{-6}\times L_0)^2}$	Gauge blocks, Electronic micrometers, Precision surface plates / KRCMI-I-102-11
Laser scan micrometers	10225	(0.1 ~ 60) mm	0.56 μm	Cylindrical plug gauges, / KRCMI-I-102-28

102. Linear dimension

Measured Quantity Instrument or Gauge	Field code	Range	Uncertainty of measurement (The Confidence Level is about 95 %)	Comments
Standard taperules, Peripheral gauges	10227	(0 ~ 40) m (40 ~ 80) m (80 ~ 100) m	$\sqrt{(0.092\mu\text{m})^2+(1.5\times 10^{-9}\times l_0)^2}$ $\sqrt{(0.11\mu\text{m})^2+(1.5\times 10^{-9}\times l_0)^2}$ $\sqrt{(0.16\mu\text{m})^2+(1.5\times 10^{-9}\times l_0)^2}$	Standard taperules, Micrometer heads / KRCMI-I-102-15
Cylindrical plug/pin gauges, Thread measuring wire gauges Cylindrical plug gauge/pin gauges Thread measuring wire gauges	10228	(0 ~ 30) mm (30~ 150) mm (0.17 ~ 3.5) mm	1.4 μm $\sqrt{(0.24\mu\text{m})^2+(3.4\times 10^{-6}\times l_0)^2}$ 0.3 μm	Measuring machines, standard, Electronic micrometers, Gauge blocks / KRCMI-I-102-12
Radius gauges	10229	(0 ~ 100) mm	2 μm	Non-contact coordinate measuring machines / KRCMI-I-102-22
Cylindrical ring gauges	10230	(5 ~ 200) mm	$\sqrt{(0.62\mu\text{m})^2+(3.1\times 10^{-6}\times l_0)^2}$	Measuring machines, standard, Cylindrical ring gauges / KRCMI-I-102-13
Step blocks	10231	(0 ~ 200) μm	0.57 μm	Gauge block comparators / KRCMI-I-102-29
Step gauges Step gauges Caliper checker Outside Inside Depth Micrometer Checker Master Block Block Interval	10232	(0 ~ 310) mm (310 ~ 1 010) mm (0 ~ 600) mm (0 ~ 600) mm 25 mm (0 ~ 300) mm	$\sqrt{(0.54\mu\text{m})^2+(0.62\times 10^{-6}\times l_0)^2}$ $\sqrt{(0.88\mu\text{m})^2+(0.64\times 10^{-6}\times l_0)^2}$ $\sqrt{(0.58\mu\text{m})^2+(2.0\times 10^{-6}\times l_0)^2}$ $\sqrt{(0.82\mu\text{m})^2+(2.8\times 10^{-6}\times l_0)^2}$ 0.46 μm $\sqrt{(2.8\mu\text{m})^2+(1.7\times 10^{-6}\times l_0)^2}$	Gauge blocks, Electronic micrometers, Precision surface plates / KRCMI-I-102-16
Taper thickness gauges	10233	(0 ~ 100) mm	2 μm	Microscopes / KRCMI-I-102-25
Ultrasonic thickness gauges	10234	(0 ~ 250) mm	7.0 μm	Standard thickness Surface plate, Gauge block / KRCMI-I-102-17
Ultrasonic/coating thickness specimens Ultrasonic	10235	(2.5 ~ 300) mm	$\sqrt{(4.7\mu\text{m})^2+(1.3\times 10^{-6}\times l_0)^2}$	Gauge blocks, Electronic micrometers, Precision surface plates / KRCMI-I-102-23

102. Linear dimension

Measured Quantity Instrument or Gauge	Field code	Range	Uncertainty of measurement (The Confidence Level is about 95 %)	Comments
Coating thickness	10235	(10 ~ 500) μm (0.5 ~ 10) mm Flatness of zero metal plate	0.3 μm 1.5 μm 0.5 μm	Gauge blocks, Electronic micrometers, Precision surface plates / KRCMI-I-102-23
Coating thickness testers	10236	(0 ~ 1.5) mm	2.0 μm	Coating thickness specimens / KRCMI-I-102-18

103. Angle

Measured Quantity Instrument or Gauge	Field code	Range	Uncertainty of measurement (The Confidence Level is about 95 %)	Comments
Bevel protractors	10304	(0 ~ 180)°	0.6'	Angle gauge blocks / KRCMI-I-103-02
Plate/Square/Electric levels Electronical Precision flat Squareness Flatness	10311	(0 ~ 2) mm/m (2 ~ 9.7) mm/m ±2° (0 ~ 300) mm -	3.3 μm/m 6.7 μm/m 5.5 μm/m 2.5 μm 1.3 μm	Fine angle generators, Electronic micrometers, Squareness testers, Precision surface plates / KRCMI-I-103-03
Precision squares Perpendicularity Parallelism	10320	(0 ~ 450) mm (0 ~ 450) mm	3.0 μm 1.4 μm	Squareness testers, Right angle testers / KRCMI-I-103-01

104. Form

Measured Quantity Instrument or Gauge	Field code	Range	Uncertainty of measurement (The Confidence Level is about 95 %)	Comments
Form testers Height Width Angle	10401	(0 ~ 60) mm (0 ~ 50) mm (30 ~ 90)°	0.14 μm 1.0 μm 2"	Form standard specimens, Cylindrical plug gauges / KRCMI-I-104-07
Optical flats	10404	(25 ~ 75) mm (75 ~ 100) mm	0.10 μm 0.12 μm	Monochromatic Light Source, Optical flats / KRCMI-I-104-01
Optical parallels Flatness Parallelism	10405	(12 ~ 50) mm (12 ~ 50) mm	0.08 μm 0.10 μm	Monochromatic Light Source, Gauge block comparators Optical flats /KRCMI-I-104-02
Parallel blocks Parallelism Flatness Difference between height and width of a pair	10406	(0 ~ 200) mm (0 ~ 200) mm (0 ~ 400) μm	1.2 μm 1.2 μm 1.6 μm	Electronic micrometers, Precision surface plates / KRCMI-I-104-03
Precision surface plates	10407	(0 ~ 900) cm ² (900 ~ 2 500) cm ² (2 500 ~ 10 000) cm ² (10 000 ~ 40 000) cm ² (40 000 ~ 122 500) cm ² (122 500 ~ 202 500) cm ²	0.40 μm 0.61 μm 1.0 μm 1.6 μm 2.5 μm 2.7 μm	Electric levels / KRCMI-I-104-04
Roundness measurement instruments accuracy of Pick up rotate accuracy of circumferential direction rotate accuracy of axial direction straightness of column	10409	- 360° 360° (0 ~ 250) mm	0.51 μm 0.02 μm 0.07 μm 1.0 μm	Roundness standard, Roundness magnification standard specimens / KRCMI-I-104-08
Straight edges straightness Parallelism	10412	(0 ~ 250) mm (250 ~ 500) mm (500 ~ 750) mm (750 ~ 1 000) mm (1 000 ~ 2 000) mm (0 ~ 250) mm (250 ~ 500) mm (500 ~ 750) mm (750 ~ 1 000) mm (1 000 ~ 2 000) mm	4.4 μm 4.2 μm 4.4 μm 4.3 μm 7.3 μm 3.8 μm 3.8 μm 3.8 μm 3.8 μm 6.4 μm	Electronic micrometers, Precision surface plates, Electric levels / KRCMI-I-104-06
Straight rules	10413	(0 ~ 2 000) mm	$\sqrt{(0.068\text{mm})^2+(8.0\times 10^{-6}\times L_0)^2}$	Standard taper rules, Micrometer heads / KRCMI-I-104-05

105. Complex geometry

Measured Quantity Instrument or Gauge	Field code	Range	Uncertainty of measurement (The Confidence Level is about 95 %)	Comments
Contact coordinate measuring machines X,Y,Z-axis accuracy straightness Perpendicularity	10503	(0 ~ 1 000) mm (0 ~ 500) mm (0 ~ 500) mm	$\sqrt{(0.82\mu\text{m})^2+(6.6\times 10^{-6}\times l_0)^2}$ 3.0 μm 3.0 μm	Step gauges, Precision squares / KRCMI-I-105-03
Non-contact coordinate measuring machines X,Y-axis accuracy Perpendicularity	10504	(0 ~ 1 000) mm (0 ~ 500) mm	$\sqrt{(0.42\mu\text{m})^2+(3.0\times 10^{-6}\times l_0)^2}$ 2.0 μm	Standard scale, Precision squares / KRCMI-I-105-16
Gauge block accessories Round Type Jaw A Type Jaw B Type Jaw Scriber Point Center Point Base Block	10505	8 mm 8 mm Flatness Flatness eccentric distance 35 mm	$\sqrt{(0.12\mu\text{m})^2+(1.2\times 10^{-6}\times l_0)^2}$ $\sqrt{(0.12\mu\text{m})^2+(1.2\times 10^{-6}\times l_0)^2}$ 0.09 μm 0.09 μm 1.4 μm $\sqrt{(0.20\mu\text{m})^2+(1.2\times 10^{-6}\times l_0)^2}$	Gauge blocks, Gauge block comparators, Non-contact coordinate measuring machines, Precision surface plates / KRCMI-I-105-04
Measuring microscope, Profile projector X,Y-axis accuracy Perpendicularity	10511	(0 ~ 500) mm (0 ~ 500) mm	$\sqrt{(0.56\mu\text{m})^2+(2.6\times 10^{-6}\times l_0)^2}$ 2.0 μm	Standard scale, Precision squares / KRCMI-I-105-05
Taper plug gauges taper angle diameter of taper Ring minimum diameter of taper Ring maximum length of taper Ring	10514	(0 ~ 60) ° (0 ~ 200) mm (0 ~ 200) mm (0 ~ 250) mm	1.5' 6.9 μm 8.7 μm 4.4 μm	Measuring machines, standard, Balls / KRCMI-I-105-07
Taper ring gauges taper angle diameter of taper Ring minimum diameter of taper Ring maximum length of taper Ring	10515	(0 ~ 60) ° (1 ~ 30) mm (1 ~ 30) mm (1 ~ 200) mm	4' 3.9 μm 1.3 μm 6.1 μm	Measuring machines, standard, Balls / KRCMI-I-105-09
Stylus type roughness testers longitudinall magnification transversal magnification Ra Rz	10517	(0 ~ 120) μm (0 ~ 10) μm (0 ~ 3.2) μm (0 ~ 10.15) μm	0.9 μm 0.20 μm 0.007 μm 0.071 μm	Roughness standard specimens / KRCMI-I-105-10
Roughness standard /comparison specimens Ra Rz	10519	(0 ~ 3) μm (0 ~ 10) μm	0.01 μm 0.08 μm	Roughness standard specimens, Stylus type roughness testers / KRCMI-I-105-12

105. Complex geometry

Measured Quantity Instrument or Gauge	Field code	Range	Uncertainty of measurement (The Confidence Level is about 95 %)	Comments
Thread plug gauges effective diameter Pitch external diameter half-angle of thread	10525	(0.5 ~ 100) mm (0.15 ~ 4) mm (0.5 ~ 100) mm (1 ~ 45) °	1.6 μm 1.2 μm 0.52 μm 0.1'	Measuring machines, standard, Non-contact coordinate measuring machines, Thread measuring wire gauges / KRCMI-I-105-13
Thread ring gauges effective diameter Pitch internal diameter	10527	(6 ~ 100) mm (0.6 ~ 4) mm (5 ~ 100) mm	1.2 μm 0.28 μm 2.2 μm	Measuring machines, standard, Balls (Probe) / KRCMI-I-105-14
V-blocks, Box blocks flatness of base plate Flatness of V plate Parallelism of culinder on the base and V plate Inclination of V furrow about base Parallelism of culider on the side and V plate Height difference of pair	10529	(10 ~ 200) mm (10 ~ 200) mm (10 ~ 200) mm (10 ~ 200) mm (10 ~ 200) mm (10 ~ 200) mm	1.1 μm 1.1 μm 2.6 μm 0.8 μm 2.6 μm 2.6 μm	Electronic micrometers, Gauge blocks Height measuring machines / KRCMI-I-105-15

106. Various dimensional

Measured Quantity Instrument or Gauge	Field code	Range	Uncertainty of measurement (The Confidence Level is about 95 %)	Comments
Inside/Outside/Gear tooth calipers, Caliper gauges Inside/Outside calipers Caliper gauges	10601	(0 ~ 2 000) mm (0 ~ 50) mm (50 ~ 150) mm	$\sqrt{(14\mu\text{m})^2+(6.4\times 10^{-6}\times I_0)^2}$ $\sqrt{(0.8\mu\text{m})^2+(6.3\times 10^{-6}\times I_0)^2}$ $\sqrt{(2.5\mu\text{m})^2+(6.3\times 10^{-6}\times I_0)^2}$	Gauge blocks, Step gauges /KRCMI-I-106-01
Cylinder/Bore gauges Cylinder gauges Bore gauges	10603	(0 ~ 400) mm (0 ~ 100) mm	$\sqrt{(0.7\mu\text{m})^2+(1.5\times 10^{-6}\times I_0)^2}$ $\sqrt{(0.9\mu\text{m})^2+(2.0\times 10^{-6}\times I_0)^2}$	Dial gauge tester / KRCMI-I-106-04
Depth gauges, Depth micrometers Depth gauges Depth micrometers	10604	(0 ~ 50) mm (50 ~ 1 000) mm (0 ~ 300) mm	$\sqrt{(1.3\mu\text{m})^2+(6.8\times 10^{-6}\times I_0)^2}$ $\sqrt{(8.7\mu\text{m})^2+(6.7\times 10^{-6}\times I_0)^2}$ $\sqrt{(1.3\mu\text{m})^2+(2.6\times 10^{-6}\times I_0)^2}$	Gauge blocks, Precision surface plates /KRCMI-I-106-05
Dial/Digital gauges	10605	(0 ~ 100) mm	$\sqrt{(0.7\mu\text{m})^2+(15.2\times 10^{-6}\times I_0)^2}$	Dial/Cylinder gauge testers /KRCMI-I-106-06
Micro Indicators, Test Indicators Micro Indicators Test Indicators	10609	(0 ~ 3) mm	0.5 μm	Dial/Cylinder gauge testers /KRCMI-I-106-08
Micrometer heads	10610	(0 ~ 50) mm	$\sqrt{(0.6\mu\text{m})^2+(16\times 10^{-6}\times I_0)^2}$	Gauge blocks, Electronic micrometers KRCMI-I-106-09
3-points micrometers	10611	(ø 2 ~ ø 300) mm	$\sqrt{(1.3\mu\text{m})^2+(6.3\times 10^{-6}\times I_0)^2}$	Cylindrical ring gauges /KRCMI-I-106-15
Inside micrometers	10612	(5 ~ 1 000) mm	$\sqrt{(0.96\mu\text{m})^2+(2.0\times 10^{-6}\times I_0)^2}$	Gauge blocks, Gauge Block Accessories /KRCMI-I-106-12
Outside micrometers Outside micrometers V-anvil micrometers	10613	(0 ~ 25) mm (25 ~ 100) mm (100 ~ 2 000) mm (2.5 ~ 50) mm	$\sqrt{(0.2\mu\text{m})^2+(1.3\times 10^{-6}\times I_0)^2}$ $\sqrt{(1.0\mu\text{m})^2+(1.3\times 10^{-6}\times I_0)^2}$ $\sqrt{(1.5\mu\text{m})^2+(3.7\times 10^{-6}\times I_0)^2}$ 1.6 μm	Gauge blocks Cylindrical plug/pin gauge /KRCMI-I-106-13

106. Various dimensional

Measured Quantity Instrument or Gauge	Field code	Range	Uncertainty of measurement (The Confidence Level is about 95 %)	Comments
Standard sieves Diameter of wire opening of sieve	10617	(0 ~ 10) mm (0 ~ 100) mm	1.8 μm 2.1 μm	Non-contact coordinate measuring machines /KRCMI-I-106-17
Welding gauges Height deep scale thickness Angle thickness gauge	10620	(0 ~ 50) mm (0 ~ 50) mm (0 ~ 100) mm (0 ~ 20) mm (0 ~ 90) ° (0 ~ 10) mm	0.2 mm 0.2 mm 0.1 mm 0.2 mm 0.4 ° 0.1 mm	Non-contact coordinate measuring machines Gauge blocks, V-blocks, Cylindrical plug/pin gauge Precision surface plates /KRCMI-I-106-20

201. Mass

Measured Quantity Instrument or Gauge	Field code	Range	Uncertainty of measurement (The Confidence Level is about 95 %)	Comments
Counter beam balances	20105	(0 ~ 311) g (311 ~ 2 610) g 2 610 g ~ 20 kg	11 mg 0.11 g 1.1 g	Weight / KRCMI-I-201-02
Dial platform scale balances	20106	(0 ~ 1) kg (1 ~ 10) kg (10 ~ 50) kg (50 ~ 200) kg	0.68 g 6.8 g 68 g 0.14 kg	Weight / KRCMI-I-201-03
Dial swing scale balances	20107	(0 ~ 10) kg (10 ~ 50) kg (50 ~ 200) kg (200 ~ 1 000) kg	1.8 g 8.9 g 0.09 kg 0.44 kg	Weight / KRCMI-I-201-04
Direct reading balances	20108	(0 ~ 160) g (160 ~ 200) g	0.11 mg 0.15 mg	Weight / KRCMI-I-201-05
Electric balances	20109	(0 ~ 5) g (5 ~ 20) g (20 ~ 200) g (200 ~ 300) g (300 ~ 1 000) g (1 000 ~ 3 000) g (3 ~ 5) kg (5 ~ 6) kg (6 ~ 30) kg (30 ~ 40) kg (40 ~ 60) kg (60 ~ 200) kg (200 ~ 500) kg (500 ~ 1 000) kg	40 μg 63 μg 0.19 mg 0.24 mg 0.9 mg 2.1 mg 4.3 mg 5.5 mg 20 mg 29 mg 64 mg 1.5 g 5.4 g 53 g	Weight / KRCMI-I-201-06
Platform scale balances	20112	(0 ~ 50) kg (50 ~ 200) kg (200 ~ 500) kg (500 ~ 1 000) kg	19 g 0.11 kg 0.19 kg 0.46 kg	Weight / KRCMI-I-201-07
Spring scale balances	20113	(0 ~ 1) kg (1 ~ 10) kg (10 ~ 50) kg (50 ~ 100) kg	0.68 g 6.8 g 68 g 0.14 kg	Weight / KRCMI-I-201-08
Trip balances	20114	(0 ~ 200) g 200 g ~ 1 kg (1 ~ 5) kg	0.19 g 0.95 g 4.74 g	Weight / KRCMI-I-201-09
Weights	20116	1 mg ~ 20 kg 1 mg 2 mg 5 mg 10 mg 20 mg 50 mg 100 mg 200 mg	(Class F1) 3.1 μg 3.1 μg 3.2 μg 3.8 μg 3.9 μg 4.7 μg 5.8 μg 6.5 μg	Weight, Balances electric / KRCMI-I-201-10

201. Mass

Measured Quantity Instrument or Gauge	Field code	Range	Uncertainty of measurement (The Confidence Level is about 95 %)	Comments
Weights	20116	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	8.6 µg 12 µg 14 µg 18 µg 25 µg 29 µg 37 µg 57 µg 0.10 mg 0.29 mg 0.54 mg 1.6 mg 2.8 mg 5.5 mg 11 mg	Weight, Balances electric / KRCMI-I-201-10

202. Force

Measured Quantity Instrument or Gauge	Field code	Range	Uncertainty of measurement (The Confidence Level is about 95 %)	Comments
Tension/Compression testing machines	20203			Force measuring devices, electrical, Weights / KRCMI-I-202-02
Tension		(0.4 ~ 50) N	1.1×10^{-3}	
		(50 ~ 100) N	5.3×10^{-4}	
		(100 ~ 200) N	1.5×10^{-3}	
		(200 ~ 500) N	1.4×10^{-3}	
		(0.5 ~ 1) kN	8.9×10^{-4}	
		(1 ~ 3) kN	6.7×10^{-4}	
		(3 ~ 5) kN	2.1×10^{-3}	
Compression		(0.4 ~ 50) N	7.9×10^{-4}	
		(50 ~ 100) N	5.6×10^{-4}	
		(100 ~ 200) N	2.1×10^{-3}	
		(200 ~ 500) N	7.1×10^{-4}	
		(0.5 ~ 1) kN	8.8×10^{-4}	
		(1 ~ 2) kN	1.2×10^{-3}	
		(2 ~ 5) kN	1.2×10^{-3}	
		(5 ~ 10) kN	8.6×10^{-3}	
		(10 ~ 20) kN	9.6×10^{-4}	
		(20 ~ 50) kN	1.3×10^{-3}	
		(50 ~ 100) kN	1.0×10^{-3}	
		(100 ~ 200) kN	1.4×10^{-3}	
		(200 ~ 500) kN	9.6×10^{-4}	
		(0.5 ~ 1) MN	1.8×10^{-3}	
		(1 ~ 2) MN	1.5×10^{-3}	
		(2 ~ 3) MN	1.5×10^{-3}	
Push-pull gauges	20204	(2 ~ 1 000) N	7.3×10^{-4}	Weights / KRCMI-I-202-01

203. Torque

Measured Quantity Instrument or Gauge	Field code	Range	Uncertainty of measurement (The Confidence Level is about 95 %)	Comments
Torque measuring devices	20302	(1 ~ 10) N·m (10 ~ 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	2.6×10^{-3} 6.2×10^{-4} 1.7×10^{-3} 8.5×10^{-4} 3.7×10^{-4} 3.0×10^{-4} 1.8×10^{-4}	Torque standards deadweight type / KRCMI-I-203-03
Torque wrenches/drivers	20303	(0.000 1 ~ 0.01) N·m (0.01 ~ 0.06) N·m (0.06 ~ 0.6) N·m (0.6 ~ 6) N·m (6 ~ 20) N·m (20 ~ 50) N·m (50 ~ 100) N·m (100 ~ 200) N·m (200 ~ 500) N·m (500 ~ 1 000) N·m	6.7×10^{-3} 1.5×10^{-2} 1.1×10^{-2} 5.3×10^{-3} 8.3×10^{-3} 4.7×10^{-3} 7.4×10^{-3} 1.4×10^{-2} 5.9×10^{-3} 7.8×10^{-3}	Torque measuring devices / KRCMI-I-203-01

204. Pressure

Measured Quantity Instrument or Gauge	Field code	Range	Uncertainty of measurement (The Confidence Level is about 95 %)	Comments
Manometers	20402	(0 ~ 100) kPa	9.1×10^{-4}	air Dead Weight Tester / KRCMI-I-204-02
Pneumatic pressure ballances	20403	(4 ~ 200) kPa (0.2 ~ 3.5) MPa	8.6×10^{-5} 7.7×10^{-5}	air Dead Weight Tester / KRCMI-I-204-03
Hydraulic pressure ballances	20404	(0.1 ~ 120) MPa	5.7×10^{-5}	oil Dead Weight Tester / KRCMI-I-204-04
Absolute pressure gauges	20406	4 kPa abs. ~ 3 500 kPa abs.	8.1×10^{-5}	air Dead Weight Tester / KRCMI-I-204-05
Blood pressure gauge	20407	(0 ~ 40) kPa	2.1×10^{-3}	air Dead Weight Tester / KRCMI-I-204-06
Compound pressure gauges	20408	(-100 ~ 3 500) kPa	7.0×10^{-4}	air Dead Weight Tester / KRCMI-I-204-07
Differential pressure gauges	20409	(0 ~ 3 500) kPa	7.9×10^{-5}	air Dead Weight Tester / KRCMI-I-204-08
Gauge pressure gauges	20411	(0 ~ 3 500) kPa (3.5 ~ 20) MPa (20 ~ 120) MPa	7.9×10^{-5} 7.1×10^{-5} 5.9×10^{-5}	air Dead Weight Tester oil Dead Weight Tester / KRCMI-I-204-09
Pressure transducers/transmitters	20412	4 kPa abs. ~ 200 kPa abs. (200 ~ 3 500) kPa abs (0 ~ 120) MPa	4.6×10^{-4} 9.0×10^{-5} 7.3×10^{-5}	air Dead Weight Tester oil Dead Weight Tester / KRCMI-I-204-11
Dial type vacuum gauges	20413	(-100 ~ 0) kPa	8.8×10^{-4}	Air dead weight piston gage / KRCMI-I-204-12
Water Depth meters	20414	(0 ~ 3 500) kPa	5.6×10^{-4}	Water Depth meters /KRCMI-I-204-13

205. Vacuum

Measured Quantity Instrument or Gauge	Field code	Range	Uncertainty of measurement (The Confidence Level is about 95 %)	Comments
Capacitance diaphragm gauges	20501	(0 ~ 13.332) Pa abs (13.332 ~ 133.32) Pa abs (133.32 ~ 1 333.2) Pa abs (1 333.2 ~ 133 322) Pa abs	0.03 Pa 0.04 Pa 0.8 Pa 20 Pa	Capacitance diaphragm gauges / KRCMI-I-205-01
Thermal conductivity gauges; pirani, thermocouple, convectron etc.	20504	(0 ~ 13.332) Pa abs (13.332 ~ 133.32) Pa abs (133.32 ~ 1 333.2) Pa abs (1 333.2 ~ 133 322) Pa abs	0.1 Pa 0.8 Pa 1.1 Pa 0.08 kPa	Capacitance diaphragm gauges / KRCMI-I-205-02

206. Volume

Measured Quantity Instrument or Gauge	Field code	Range	Uncertainty of measurement (The Confidence Level is about 95 %)	Comments
Volumetric glasswares Burets	20601	(0 ~ 2) ml	1.8 μl	balance, weight / KRCMI-I-206-01
Cylinder		(2 ~ 10) ml	5.9 μl	
		(10 ~ 25) ml	12 μl	
		(25 ~ 50) ml	20 μl	
		(50 ~ 100) ml	29 μl	
		(0 ~ 5) ml	16 μl	
		(5 ~ 10) ml	18 μl	
		(10 ~ 25) ml	43 μl	
		(25 ~ 50) ml	86 μl	
		(50 ~ 100) ml	0.15 ml	
		(100 ~ 250) ml	0.34 ml	
(250 ~ 500) ml		0.65 ml		
Flask		(500 ~ 1 000) ml	1.3 ml	
		(1 000 ~ 2 000) ml	2.7 ml	
		(0 ~ 5) ml	7.3 μl	
		(5 ~ 10) ml	7.7 μl	
		(10 ~ 25) ml	12 μl	
		(25 ~ 50) ml	20 μl	
		(50 ~ 100) ml	34 μl	
		(100 ~ 250) ml	73 μl	
		(250 ~ 500) ml	0.13 ml	
		(500 ~ 1 000) ml	0.28 ml	
Pipet		(1 000 ~ 2 000) ml	0.49 ml	
		(0 ~ 1) ml	0.7 μl	
		(1 ~ 2) ml	0.9 μl	
	(2 ~ 5) ml	2.0 μl		
	(5 ~ 10) ml	2.9 μl		
	(10 ~ 25) ml	6.1 μl		
	(25 ~ 50) ml	14 μl		
	(50 ~ 100) ml	24 μl		
	(100 ~ 200) ml	30 μl		
	Concrete air content meters	20605	(0 ~ 10) %	0.07 %
Piston type volume meters	20606	(0 ~ 0.02) ml	0.06 μl	balance, weight / KRCMI-I-206-03
	(0.02 ~ 0.05) ml	0.14 μl		
	(0.05 ~ 0.1) ml	0.17 μl		
	(0.1 ~ 0.2) ml	0.57 μl		
	(0.2 ~ 0.5) ml	1.4 μl		
	(0.5 ~ 1) ml	1.7 μl		
	(1 ~ 2) ml	5.6 μl		
	(2 ~ 5) ml	14 μl		
	(5 ~ 10) ml	17 μl		
	(10 ~ 25) ml	71 μl		
	(25 ~ 50) ml	0.14 ml		
	(50 ~ 100) ml	0.17 ml		

209. Materiality / Fluid

Measured Quantity Instrument or Gauge	Field code	Range	Uncertainty of measurement (The Confidence Level is about 95 %)	Comments
Anemometers; hot-wire	20901	2 m/s ~ 5 m/s 5 m/s ~ 45 m/s	3.9×10^{-2} 3.5×10^{-2}	Wind tunnel, Pitot tube, Mano meter, MicroMano meter / KRCMI-I-209-01
Anemometers; pitot tube, etc.	20902	2 m/s ~ 5 m/s 5 m/s ~ 45 m/s	4.6×10^{-2} 4.9×10^{-2}	Wind tunnel, Pitot tube, Mano meter, MicroMano meter / KRCMI-I-209-02
Gas flowmeters; differential pressure	20908	0.002 m ³ /h ~ 300 m ³ /h	2.6×10^{-3}	Sonic Nozzle / KRCMI-I-209-04
Gas flowmeters; thermal mass, etc.	20911	0.002 m ³ /h ~ 300 m ³ /h	2.6×10^{-3}	Sonic Nozzle / KRCMI-I-209-04
Gas flowmeters; open channel, etc.	20914	0.002 m ³ /h ~ 300 m ³ /h	2.6×10^{-3}	Sonic Nozzle / KRCMI-I-209-04
Gas Flowmeters; turbine	20916	0.002 m ³ /h ~ 300 m ³ /h	2.6×10^{-3}	Sonic Nozzle / KRCMI-I-209-04
Gas flowmeters; ultrasonic	20918	0.002 m ³ /h ~ 300 m ³ /h	2.6×10^{-3}	Sonic Nozzle / KRCMI-I-209-04
Variable-Area Meters for Gas	20920	0.002 m ³ /h ~ 300 m ³ /h	2.6×10^{-3}	Sonic Nozzle / KRCMI-I-209-04
Vortex Flowmeters for Gas	20922	0.002 m ³ /h ~ 300 m ³ /h	2.6×10^{-3}	Sonic Nozzle / KRCMI-I-209-04
Anemometers; vane, etc	20925	2 m/s ~ 5 m/s 5 m/s ~ 45 m/s	4.6×10^{-2} 4.9×10^{-2}	Wind tunnel, Pitot tube, Mano meter, MicroMano meter / KRCMI-I-209-03

210. Hardness

Measured Quantity Instrument or Gauge	Field code	Range	Uncertainty of measurement (The Confidence Level is about 95 %)	Comments
Brinell hardness testers	21001	(100 ~ 250) HBW 10/3000 (250 ~ 450) HBW 10/3000 (450 ~ 650) HBW 10/3000	3.3 HBW 5.2 HBW 8.3 HBW	Brinell hardness reference block / KRCMI-I-210-01
Rockwell hardness tester	21002	(20 ~ 70) HRC (10 ~ 100) HRBW	0.40 HRC 0.70 HRBW	Rockwell hardness reference block / KRCMI-I-210-02
Shore hardness testers	21003	(20 ~ 100) HSD	1.5 HSD	Shore hardness reference block / KRCMI-I-210-03
Vickers hardness testers	21004	(100 ~ 300) HV 0.2 (300 ~ 650) HV 0.2 (650 ~ 850) HV 0.2 (100 ~ 300) HV 0.5 (300 ~ 650) HV 0.5 (650 ~ 850) HV 0.5 (100 ~ 300) HV 1 (300 ~ 650) HV 1 (650 ~ 850) HV 1 (100 ~ 300) HV 10 (300 ~ 650) HV 10 (650 ~ 850) HV 10 (100 ~ 300) HV 20 (300 ~ 650) HV 20 (650 ~ 850) HV 20	5.6 HV 0.2 17 HV 0.2 26 HV 0.2 4.8 HV 0.5 14 HV 0.5 24 HV 0.5 4.6 HV 1 14 HV 1 20 HV 1 2.5 HV 10 7.6 HV 10 10 HV 10 2.7 HV 20 6.1 HV 20 14 HV 20	Vickers hardness reference block / KRCMI-I-210-04
Durometer hardness testers	21005	(0 ~ 100) HDA (0 ~ 100) HDB (0 ~ 100) HDC (0 ~ 100) HDD (0 ~ 100) HDE (0 ~ 100) HDF (0 ~ 100) HDO (0 ~ 100) HDOO	0.6 HDA 0.6 HDB 0.5 HDC 0.5 HDD 0.6 HDE 0.6 HDF 0.6 HDO 0.7 HDOO	Durometer calibrator / KRCMI-I-210-05
Leeb hardness testers	21006	< 500 HLD (500 ~ 700) HLD > 700 HLD	4.6 HLD 4.5 HLD 4.4 HLD	Leeb hardness reference block / KRCMI-I-210-06

301. Time/ frequency

Measured Quantity Instrument or Gauge	Field code	Range	Uncertainty of measurement (The Confidence Level is about 95 %)	Comments
Frequency standards	30102	100 kHz ~ 10 MHz	1.2×10^{-12}	GPS Receiver Frequency Counter / KRCMI-I-301-01
General frequency sources	30103	0.001 Hz ~ 40 GHz	1.2×10^{-12}	GPS Receiver Frequency Counter / KRCMI-I-301-02
Frequency meters/counters Time base Osc.	30104	(1 ~ 10) MHz	1.2×10^{-12}	GPS Receiver Frequency Counter / KRCMI-I-301-03
Input Frequency		1 Hz ~ 18 GHz	5.8×10^{-11}	
Time interval meter/ Stop watches/Times timer	30106	(0.001 ~ 360 000) s	1.3×10^{-7}	Q Tester / KRCMI-I-301-04
time		(0.001 ~ 10 ⁸) s	2.6×10^{-7}	GPS Receiver Frequency Counter
time count		9 999	1	Stop Watch / KRCMI-I-301-05

302. Velocity & revolution

Measured Quantity Instrument or Gauge	Field code	Range	Uncertainty of measurement (The Confidence Level is about 95 %)	Comments
Standard RPM generators Revolutions	30201	(1 ~ 30) min ⁻¹	0.06 min ⁻¹	Frequency Counter Stroboscope Tachometer / KRCMI-I-302-01
		(30 ~ 100) min ⁻¹	0.07 min ⁻¹	
		(100 ~ 500) min ⁻¹	0.08 min ⁻¹	
		(500 ~ 4 000) min ⁻¹	0.2 min ⁻¹	
Centrifugal separator Revolutions		(100 ~ 9 000) min ⁻¹	0.6 min ⁻¹	
		(9 000 ~ 15 000) min ⁻¹	1 min ⁻¹	
Contact type tachometers Revolutions	30202	(6 ~ 100) min ⁻¹	0.06 min ⁻¹	RPM Calibration System G.P.S Receiver / KRCMI-I-302-02
		(100 ~ 4 000) min ⁻¹	0.1 min ⁻¹	
Photo tachometers/stroboscopes Revolutions	30203	(1 ~ 10) min ⁻¹	0.000 058 min ⁻¹	RPM Calibration System G.P.S Receiver Waveform Generator / KRCMI-I-302-03
		(10 ~ 100) min ⁻¹	0.000 58 min ⁻¹	
		(100 ~ 1 000) min ⁻¹	0.005 8 min ⁻¹	
		(1 000 ~ 100 000) min ⁻¹	0.058 min ⁻¹	
		(100 000 ~ 600 000) min ⁻¹	0.58 min ⁻¹	
		(30 ~ 1 000) min ⁻¹	0.005 8 min ⁻¹	
stroboscopes Revolutions		(1 000 ~ 100 000) min ⁻¹	0.058 min ⁻¹	
		(100 000 ~ 500 000) min ⁻¹	0.58 min ⁻¹	
Speed meters Speed	30204	3.6 m/h ~ 1 km/h	0.000 1 km/h	RPM Calibration System G.P.S Receiver Tachometer / KRCMI-I-302-04
		(1 ~ 250) km/h	0.01 km/h	
		(250 ~ 5 000) km/h	0.1 km/h	
		(5 000 ~ 10 800) km/h	1 km/h	

401. DC voltage & current

Measured Quantity Instrument or Gauge	Field code	Range	Uncertainty of measurement (The Confidence Level is about 95 %)	Comments
DC ammeters	40101	±(10 ~ 100) pA	2.6×10^{-3}	Meter Calibrator Transconductance Amplifier / KRCMI-I-401-01 / KRCMI-I-401-02
		±(100 ~ 1 000) pA	6.9×10^{-5}	
		±(1 ~ 10) nA	6.9×10^{-5}	
		±(10 ~ 100) nA	6.2×10^{-5}	
		±(0.1 ~ 1) μA	6.2×10^{-5}	
		±(1 ~ 10) μA	8.3×10^{-5}	
		±(10 ~ 100) μA	1.2×10^{-4}	
		±(0.1 ~ 1) mA	4.9×10^{-5}	
		±(1 ~ 10) mA	4.6×10^{-5}	
		±(10 ~ 100) mA	6.1×10^{-5}	
		±(0.1 ~ 1) A	1.1×10^{-4}	
±(1 ~ 10) A	4.7×10^{-5}			
±(10 ~ 100) A	4.6×10^{-4}			
Transconductance amplifiers DC Current AC Current	40102	±(0.1 ~ 1) mA	8.0×10^{-6}	Meter Calibrator Digital Multimeter Active Shunt Standard resistance AC Measurement Standard Current Shunt / KRCMI-I-401-03
		±(1 ~ 10) mA	8.0×10^{-6}	
		±(10 ~ 100) mA	8.0×10^{-6}	
		±(0.1 ~ 1) A	1.6×10^{-5}	
		±(1 ~ 10) A	1.6×10^{-5}	
		±(10 ~ 50) A	1.4×10^{-5}	
		±(50 ~ 1 000) A	3.0×10^{-4}	
		(10 ~ 40) Hz		
		(0.1 ~ 1) mA	5.0×10^{-5}	
		(1 ~ 10) mA	4.0×10^{-5}	
		(10 ~ 100) mA	5.0×10^{-5}	
		(0.1 ~ 1) A	5.0×10^{-5}	
		(1 ~ 10) A	5.0×10^{-5}	
		(10 ~ 20) A	5.0×10^{-5}	
		(20 ~ 100) A	7.0×10^{-5}	
		(40 ~ 500) Hz		
		(0.1 ~ 1) mA	5.0×10^{-5}	
		(1 ~ 10) mA	4.0×10^{-5}	
		(10 ~ 100) mA	5.0×10^{-5}	
		(0.1 ~ 1) A	5.0×10^{-5}	
		(1 ~ 10) A	5.0×10^{-5}	
		(10 ~ 20) A	5.0×10^{-5}	
		(20 ~ 100) A	7.0×10^{-5}	
		(50 ~ 60) Hz		
		(40 ~ 200) A	4.0×10^{-4}	
		(200 ~ 1000) A	3.2×10^{-4}	
		(0.5 ~ 1) kHz		
		(0.1 ~ 1) mA	5.0×10^{-5}	
(1 ~ 10) mA	4.0×10^{-5}			
(10 ~ 100) mA	5.0×10^{-5}			

401. DC voltage & current

Measured Quantity Instrument or Gauge	Field code	Range	Uncertainty of measurement (The Confidence Level is about 95 %)	Comments
Transconductance amplifiers AC Current	40102	(0.1 ~ 1) A (1 ~ 10) A (10 ~ 20) A (20 ~ 100) A (1 ~ 10) kHz (1 ~ 10) mA (10 ~ 100) mA (0.1 ~ 1) A (1 ~ 10) A (10 ~ 20) A	5.0×10^{-5} 5.0×10^{-5} 5.0×10^{-5} 7.0×10^{-5} 4.0×10^{-5} 5.0×10^{-5} 5.0×10^{-5} 1.1×10^{-4} 1.1×10^{-4}	Meter Calibrator Digital Multimeter Active Shunt Standard resistance AC Measurement Standard Current Shunt / KRCMI-I-401-03
Dc voltage/current calibrators DC Voltage AC Voltage	40103	± 1 mV $\pm(1 \sim 10)$ mV $\pm(10 \sim 100)$ mV $\pm(0.1 \sim 1)$ V $\pm(1 \sim 10)$ V $\pm(10 \sim 100)$ V $\pm(100 \sim 1\ 000)$ V $\pm(1 \sim 100)$ μ A $\pm(0.1 \sim 1)$ mA $\pm(1 \sim 10)$ mA $\pm(10 \sim 100)$ mA $\pm(0.1 \sim 1)$ A $\pm(1 \sim 10)$ A $\pm(10 \sim 20)$ A $\pm(20 \sim 100)$ A	0.35μ V 3.5×10^{-6} 4.3×10^{-6} 1.8×10^{-6} 1.2×10^{-6} 2.3×10^{-6} 2.2×10^{-6} 8.2×10^{-6} 8.2×10^{-6} 8.2×10^{-6} 8.2×10^{-6} 1.6×10^{-5} 1.6×10^{-5} 1.4×10^{-5} 1.6×10^{-5}	Digital Multimeter Active Shunt Meter Calibrator Standard resistance / KRCMI-I-401-04
Electrical temperature calibrators Voltage(MEASURE) Current(MEASURE) Resistance(MEASURE) Voltage(Source)	40104	$\pm(1 \sim 10)$ mV $\pm(10 \sim 100)$ mV $\pm(0.1 \sim 1)$ V $\pm(1 \sim 10)$ V $\pm(10 \sim 100)$ V $\pm(1 \sim 10)$ mA $\pm(10 \sim 100)$ mA 0 Ω (0 ~ 1) Ω (1 ~ 10) Ω (10 ~ 100) Ω (0.1 ~ 1) k Ω (1 ~ 10) k Ω $\pm(1 \sim 10)$ mV $\pm(10 \sim 100)$ mV $\pm(0.1 \sim 1)$ V $\pm(1 \sim 10)$ V $\pm(10 \sim 100)$ V	8.0×10^{-5} 8.0×10^{-6} 7.0×10^{-6} 7.0×10^{-6} 7.0×10^{-6} 1.5×10^{-5} 1.6×10^{-5} 8 μ Ω 3.8×10^{-5} 1.0×10^{-5} 9.0×10^{-6} 9.0×10^{-6} 9.0×10^{-6} 8.0×10^{-5} 9.0×10^{-6} 3.0×10^{-6} 3.0×10^{-6} 5.0×10^{-6}	Digital multi meter / KRCMI-I-401-05

401. DC voltage & current

Measured Quantity Instrument or Gauge	Field code	Range	Uncertainty of measurement (The Confidence Level is about 95 %)	Comments
Electrical temperature calibrators Current(Source) Resistance(Source)	40104	$\pm(1 \sim 10) \text{ mA}$ $\pm(10 \sim 100) \text{ mA}$ $0 \ \Omega$ $(0 \sim 1) \ \Omega$ $(1 \sim 10) \ \Omega$ $(10 \sim 100) \ \Omega$ $(0.1 \sim 1) \text{ k}\Omega$ $(1 \sim 10) \text{ k}\Omega$	2.2×10^{-5} 4.2×10^{-5} $12 \ \mu\Omega$ 1.5×10^{-5} 8.0×10^{-6} 5.0×10^{-6} 4.0×10^{-6} 4.0×10^{-6}	Digital multi meter / KRCMI-I-401-05
DC current shunts	40105	$25 \ \mu\Omega$ $(0.025 \sim 1) \text{ m}\Omega$ $(1 \sim 10) \text{ m}\Omega$ $(10 \sim 100) \text{ m}\Omega$ $(0.1 \sim 1) \ \Omega$ $(1 \sim 10) \ \Omega$ $(10 \sim 100) \ \Omega$ $(0.1 \sim 1) \text{ k}\Omega$ $(1 \sim 10) \text{ k}\Omega$ $(10 \sim 100) \text{ k}\Omega$	$8.5 \ \text{n}\Omega$ 3.5×10^{-6} 1.2×10^{-6} 2.7×10^{-6} 1.4×10^{-6} 1.4×10^{-6} 1.4×10^{-6} 1.3×10^{-6} 1.3×10^{-6} 4.0×10^{-6}	DCC RESISTANCE BRIDGE Standard resistance Meter Calibrator Transconductance Amplifier Digital multi meter / KRCMI-I-401-06
Galvanometers/null detectors DC Voltage	40106	$\pm 1 \ \mu\text{V}$ $\pm(1 \sim 3) \ \mu\text{V}$ $\pm(3 \sim 10) \ \mu\text{V}$ $\pm(10 \sim 30) \ \mu\text{V}$ $\pm(30 \sim 100) \ \mu\text{V}$ $\pm(100 \sim 300) \ \mu\text{V}$ $\pm(0.3 \sim 1) \text{ mV}$ $\pm(1 \sim 3) \text{ mV}$ $\pm(3 \sim 10) \text{ mV}$ $\pm(10 \sim 30) \text{ mV}$ $\pm(30 \sim 100) \text{ mV}$ $\pm(100 \sim 300) \text{ mV}$ $\pm(0.3 \sim 1) \text{ V}$ $\pm(1 \sim 3) \text{ V}$ $\pm(3 \sim 10) \text{ V}$ $\pm(10 \sim 30) \text{ V}$ $\pm(30 \sim 100) \text{ V}$ $\pm(100 \sim 300) \text{ V}$ $\pm(300 \sim 1\ 000) \text{ V}$	5.8×10^{-4} 5.3×10^{-4} 4.2×10^{-4} 2.8×10^{-4} 4.2×10^{-4} 2.8×10^{-4} 4.2×10^{-4} 2.8×10^{-4} 4.1×10^{-4} 2.7×10^{-4} 4.1×10^{-4} 2.7×10^{-4} 4.1×10^{-4} 2.7×10^{-4} 4.1×10^{-4} 2.7×10^{-4} 4.1×10^{-4} 2.7×10^{-4} 4.1×10^{-4}	Meter Calibrator Divider / KRCMI-I-401-07
Potentiometers DC Voltage	40107	$\pm 100 \ \mu\text{V}$ $\pm(0.1 \sim 1) \text{ mV}$ $\pm(1 \sim 10) \text{ mV}$ $\pm(10 \sim 100) \text{ mV}$ $\pm(0.1 \sim 1) \text{ V}$ $\pm(1 \sim 10) \text{ V}$ $\pm(10 \sim 100) \text{ V}$ $\pm(100 \sim 1\ 000) \text{ V}$	4.2×10^{-4} 4.2×10^{-4} 4.1×10^{-4} 4.1×10^{-4} 4.1×10^{-4} 4.1×10^{-4} 4.1×10^{-4} 4.1×10^{-4}	Meter Calibrator Divider / KRCMI-I-401-09

401. DC voltage & current

Measured Quantity Instrument or Gauge	Field code	Range	Uncertainty of measurement (The Confidence Level is about 95 %)	Comments
DC power supplies DC Voltage	40108	±10 mV ±(10 ~ 100) mV ±(0.1 ~ 1) V ±(1 ~ 10) V ±(10 ~ 100) V ±(100 ~ 1 000) V	0.54 μV 4.7×10^{-6} 8.4×10^{-6} 6.1×10^{-6} 8.9×10^{-6} 9.1×10^{-6}	Digital Multimeter Active Shunt / KRCMI-I-401-10
DC Current		±(1 ~ 10) mA ±(10 ~ 100) mA ±(100 mA ~ 1 A) ±(1 ~ 10) A ±(10 ~ 100) A ±(100 ~ 300) A ±(300 ~ 600) A ±(600 ~ 1 000) A	5.8×10^{-4} 6.2×10^{-5} 6.3×10^{-5} 2.9×10^{-5} 3.5×10^{-5} 2.1×10^{-4} 2.2×10^{-4} 2.5×10^{-4}	
DC voltage dividers DC Voltage	40110	Ratio 0.001 ~ 1 DC Voltage 10mV ~ 1 kV	2.0×10^{-6}	Meter Calibrator Divider / KRCMI-I-401-13
DC voltage standards DC Voltage	40111	1 V 1.018 V 10 V	0.78 μV 0.76 μV 7.4 μV	DC volt meter DC REFERENCE STD / KRCMI-I-401-14
DC voltmeters DC Voltage	40112	± 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	61 nV 6.1×10^{-5} 7.0×10^{-6} 3.4×10^{-6} 1.8×10^{-6} 1.5×10^{-6} 2.5×10^{-6} 2.6×10^{-6}	Meter Calibrator / KRCMI-I-401-01
Voltmeters, static DC Voltage	40113	±(0 ~ 1) kV ±(1 ~ 5) kV ±(5 ~ 10) kV ±(10 ~ 15) kV ±(15 ~ 20) kV ±(20 ~ 25) kV ±(25 ~ 30) kV ±(30 ~ 35) kV ±(35 ~ 40) kV	6.1×10^{-4} 1.1×10^{-3} 1.1×10^{-3} 1.1×10^{-3} 1.1×10^{-3} 4.1×10^{-3} 4.1×10^{-3} 4.0×10^{-3} 4.0×10^{-3}	Meter Calibrator Dc high voltage supply High voltage Digital Meter / KRCMI-I-401-12

402. Resistance, Capacitance and Inductance

Measured Quantity Instrument or Gauge	Field code	Range	Uncertainty of measurement (The Confidence Level is about 95 %)	Comments
Capacitance bridges/indicators	40201	1 kHz		Standard Air Capacitor Set / KRCMI-I-402-01
		1 pF	3.5×10^{-4}	
		(1 ~ 10) pF	2.6×10^{-5}	
		(10 ~ 100) pF	2.6×10^{-5}	
		(0.1 ~ 1) nF	3.0×10^{-5}	
		(1 ~ 10) nF	9.0×10^{-5}	
		(10 ~ 100) nF	9.0×10^{-5}	
		(0.1 ~ 1) μ F	1.2×10^{-4}	
		10 kHz		
		10 nF	2.5×10^{-4}	
		(10 ~ 100) nF	2.5×10^{-4}	
		(0.1 ~ 1) μ F	2.7×10^{-4}	
		100 kHz		
		10 nF	2.5×10^{-4}	
		(10 ~ 100) nF	2.5×10^{-4}	
		(0.1 ~ 1) μ F	2.7×10^{-4}	
		1 MHz		
		1 pF	4.4×10^{-4}	
		(1 ~ 10) pF	4.2×10^{-4}	
		(10 ~ 100) pF	4.2×10^{-4}	
		(0.1 ~ 1) nF	4.3×10^{-4}	
		2 MHz		
		1 pF	4.9×10^{-4}	
		(1 ~ 10) pF	4.2×10^{-4}	
		(10 ~ 100) pF	4.2×10^{-4}	
		(0.1 ~ 1) nF	4.5×10^{-4}	
		3 MHz		
		1 pF	5.9×10^{-4}	
		(1 ~ 10) pF	4.2×10^{-4}	
		(10 ~ 100) pF	4.3×10^{-4}	
		(0.1 ~ 1) nF	5.2×10^{-4}	
		4 MHz		
		1 pF	7.6×10^{-4}	
		(1 ~ 10) pF	4.2×10^{-4}	
		(10 ~ 100) pF	4.3×10^{-4}	
		(0.1 ~ 1) nF	6.1×10^{-4}	
5 MHz				
1 pF	9.8×10^{-4}			
(1 ~ 10) pF	4.2×10^{-4}			
(10 ~ 100) pF	4.5×10^{-4}			
(0.1 ~ 1) nF	7.6×10^{-4}			

402. Resistance, Capacitance and Inductance

Measured Quantity Instrument or Gauge	Field code	Range	Uncertainty of measurement (The Confidence Level is about 95 %)	Comments
Capacitance bridges/indicators	40201	10 MHz 1 pF (1 ~ 10) pF (10 ~ 100) pF (0.1 ~ 1) nF 13 MHz 1 pF (1 ~ 10) pF (10 ~ 100) pF (0.1 ~ 1) nF	3.4×10^{-3} 2.4×10^{-3} 2.4×10^{-3} 3.2×10^{-3} 4.4×10^{-3} 2.4×10^{-3} 2.4×10^{-3} 3.8×10^{-3}	Standard Air Capacitor Set / KRCMI-I-402-01
FREQUENCY		100 Hz ~ 100 MHz	1.0×10^{-6}	
Decade capacitors	40202	1 kHz 1 pF (1 ~ 10) pF (10 ~ 100) pF (0.1 ~ 1) nF (1 ~ 10) nF (10 ~ 100) nF (0.1 ~ 1) μ F (1 ~ 10) μ F	0.56 fF 4.5×10^{-4} 4.5×10^{-4} 4.5×10^{-4} 3.0×10^{-4} 2.8×10^{-4} 2.8×10^{-4} 8.5×10^{-4}	RLC Digibridge / KRCMI-I-402-02
Standard capacitors	40204	1 kHz 1 pF 10 pF 100 pF 1 nF 10 nF 100 nF 1 μ F	3.5×10^{-4} 5.0×10^{-5} 5.0×10^{-5} 5.0×10^{-5} 9.0×10^{-5} 9.0×10^{-5} 1.2×10^{-4}	Capacitance Bridge / KRCMI-I-402-03
Earth testers	40205	Resistor 1 m Ω (1 ~ 10) m Ω (10 ~ 100) m Ω (0.1 ~ 1) Ω (1 ~ 10) Ω (10 ~ 100) Ω (0.1 ~ 100) k Ω AC Voltage 60 Hz 1 V (1 ~ 1 000) V AC Current 60 Hz 1 A 1 A ~ 40 A 40 A ~ 80 A 80 A ~ 100 A	1.0×10^{-4} 1.0×10^{-4} 1.0×10^{-4} 2.0×10^{-4} 1.0×10^{-4} 1.0×10^{-4} 1.0×10^{-4} 1.0×10^{-4} 1.0×10^{-4} 1.0×10^{-3} 1.3×10^{-3} 1.0×10^{-3} 1.1×10^{-3}	Decade Resistor Meter Calibrator / KRCMI-I-402-04

402. Resistance, Capacitance and Inductance

Measured Quantity Instrument or Gauge	Field code	Range	Uncertainty of measurement (The Confidence Level is about 95 %)	Comments	
Inductance bridges/indicators Inductance	40206	1 kHz		Standard Inductor / KRCMI-I-402-12	
		100 μH	1.9×10^{-4}		
		(0.1 ~ 1) mH	1.3×10^{-4}		
		(1 ~ 10) mH	1.3×10^{-4}		
		(10 ~ 100) mH	1.3×10^{-4}		
		(0.1 ~ 1) H	1.3×10^{-4}		
		(1 ~ 10) H	1.5×10^{-4}		
Frequency		60 Hz ~ 100 MHz	1.0×10^{-6}		
Standard inductor	40208	1 kHz		Digital Multimeter / KRCMI-I-402-05	
		100 μH	1.0×10^{-4}		
		1 mH	1.0×10^{-4}		
		10 mH	1.0×10^{-4}		
		100 mH	1.0×10^{-4}		
		1 H	1.0×10^{-4}		
		10 H	1.0×10^{-4}		
Decade inductor		1 kHz		RLC Digibridge / KRCMI-I-402-06	
		100 μH	46 nH		
		(0.1 ~ 1) mH	3.5×10^{-4}		
		(1 ~ 10) mH	3.5×10^{-4}		
		(10 ~ 100) mH	3.5×10^{-4}		
		(0.1 ~ 1) H	3.5×10^{-4}		
		(1 ~ 10) H	3.5×10^{-4}		
Mega ohm testers	40210	(1 ~ 10) kΩ	1.0×10^{-4}	Decade Resistor Digital Multimeter / KRCMI-I-402-07	
		(10 ~ 100) kΩ	1.0×10^{-4}		
		(0.1 ~ 1) MΩ	1.0×10^{-4}		
		(1 ~ 10) MΩ	2.0×10^{-4}		
		(10 ~ 100) MΩ	3.0×10^{-4}		
		(0.1 ~ 1) GΩ	3.0×10^{-4}		
		(1 ~ 10) GΩ	9.0×10^{-4}		
		(10 ~ 100) GΩ	1.5×10^{-3}		
		(0.1 ~ 1) TΩ	2.8×10^{-3}		
		(1 ~ 10) TΩ	5.5×10^{-3}		
		(1 ~ 10) V	1.0×10^{-5}		
		(10 ~ 50) V	2.0×10^{-5}		
		(50 ~ 100) V	1.0×10^{-5}		
		(100 ~ 500) V	2.0×10^{-5}		
		(0.5 ~ 1) kV	1.0×10^{-5}		
		(1 ~ 5) kV	6.4×10^{-3}		
		(1 ~ 10) kV	6.2×10^{-3}		
DC Voltage(Output Volage)			60 Hz		
			(1 ~ 1 000) V		1.0×10^{-4}
AC Voltage		(1 ~ 1 000) V	1.0×10^{-4}		
DC Voltage		(1 ~ 1 000) V	1.0×10^{-4}		

402. Resistance, Capacitance and Inductance

Measured Quantity Instrument or Gauge	Field code	Range	Uncertainty of measurement (The Confidence Level is about 95 %)	Comments
Resistance bridges/similar Resistance bridge Measuring arm Ratio arm	40213	1 mΩ	1.1×10^{-2}	Standard Resistor / KRCMI-I-402-08
		(1 ~ 10) mΩ	1.1×10^{-3}	
		(10 ~ 100) mΩ	2.0×10^{-4}	
		(0.1 ~ 1) Ω	2.0×10^{-5}	
		(1 ~ 10) Ω	6.0×10^{-6}	
		(10 ~ 100) Ω	1.1×10^{-5}	
		(0.1 ~ 1) kΩ	1.1×10^{-5}	
		(1 ~ 10) kΩ	1.1×10^{-5}	
		(10 ~ 100) kΩ	1.1×10^{-5}	
		(0.1 ~ 1) MΩ	2.0×10^{-5}	
		(1 ~ 10) MΩ	2.0×10^{-5}	
		(10 ~ 100) MΩ	4.0×10^{-5}	
		(0.1 ~ 1) GΩ	1.7×10^{-4}	
		(1 ~ 10) mΩ	2.2×10^{-6}	
		(10 ~ 100) mΩ	2.2×10^{-6}	
		(0.1 ~ 1) Ω	4.3×10^{-7}	
		(1 ~ 10) Ω	4.3×10^{-7}	
		(10 ~ 100) Ω	4.3×10^{-7}	
		(0.1 ~ 1) kΩ	4.3×10^{-7}	
		(1 ~ 10) kΩ	3.5×10^{-7}	
		(10 ~ 100) kΩ	6.9×10^{-7}	
		(0.1 ~ 1) MΩ	8.4×10^{-7}	
(1 ~ 10) MΩ	2.0×10^{-6}			
(10 ~ 100) MΩ	4.6×10^{-6}			
(0.1 ~ 1) GΩ	5.7×10^{-6}			
Resistance meters Ohmmeter	40214	25 μΩ	1.2×10^{-3}	Standard Resistor / KRCMI-I-402-09
	(25 ~ 50) μΩ	6.0×10^{-4}		
	(50 ~ 100) μΩ	3.0×10^{-5}		
	(0.1 ~ 1) mΩ	2.0×10^{-5}		
	(1 ~ 10) mΩ	2.0×10^{-5}		
	(10 ~ 100) mΩ	3.0×10^{-6}		
	(0.1 ~ 1) Ω	3.0×10^{-6}		
	(1 ~ 10) Ω	3.0×10^{-6}		
	(10 ~ 100) Ω	3.0×10^{-6}		
	(0.1 ~ 1) kΩ	3.0×10^{-6}		
	(1 ~ 10) kΩ	3.0×10^{-6}		
	(10 ~ 100) kΩ	5.0×10^{-6}		
	(0.1 ~ 1) MΩ	6.0×10^{-6}		
	(1 ~ 10) MΩ	9.0×10^{-6}		
	(10 ~ 100) MΩ	2.5×10^{-5}		
	(0.1 ~ 1) GΩ	4.0×10^{-5}		
	(1 ~ 10) GΩ	9.0×10^{-4}		
	(10 ~ 100) GΩ	1.5×10^{-3}		
	(0.1 ~ 1) TΩ	2.8×10^{-3}		
	(1 ~ 10) TΩ	5.5×10^{-3}		

402. Resistance, Capacitance and Inductance

Measured Quantity Instrument or Gauge	Field code	Range	Uncertainty of measurement (The Confidence Level is about 95 %)	Comments
Resistance meters AC Ohmmeter	40214	1 kHz 1 Ω 10 Ω 100 Ω 1 kΩ 10 kΩ 100 kΩ 1 MΩ	3.1×10^{-4} 3.1×10^{-4} 3.1×10^{-4} 3.1×10^{-4} 1.4×10^{-4} 1.4×10^{-4} 2.5×10^{-4}	Standard Resistor / KRCMI-I-402-09
Resistors Standard resistor	40215	1 mΩ (1 ~ 10) mΩ (10 ~ 100) mΩ (0.1 ~ 1) Ω (1 ~ 10) Ω (10 ~ 100) Ω (0.1 ~ 1) kΩ (1 ~ 10) kΩ (10 ~ 100) kΩ (0.1 ~ 1) MΩ (1 ~ 10) MΩ (10 ~ 100) MΩ (0.1 ~ 1) GΩ (1 ~ 10) GΩ (10 ~ 100) GΩ (0.1 ~ 1) TΩ (1 ~ 10) TΩ (10 ~ 100) TΩ	4.0×10^{-6} 4.0×10^{-6} 2.0×10^{-6} 2.3×10^{-6} 2.3×10^{-6} 2.3×10^{-6} 2.3×10^{-6} 2.3×10^{-6} 4.6×10^{-6} 4.0×10^{-6} 8.0×10^{-6} 1.7×10^{-5} 3.1×10^{-5} 3.0×10^{-4} 4.0×10^{-4} 2.0×10^{-3} 6.0×10^{-3} 7.0×10^{-3}	Resistance Measuring System / KRCMI-I-402-10
AC Standard resistor		1 kHz 1 Ω 10 Ω 100 Ω 1 kΩ 10 kΩ 100 kΩ 1 MΩ 100 kHz 1 kΩ 10 kΩ 100 kΩ	3.1×10^{-4} 3.1×10^{-4} 3.1×10^{-4} 3.1×10^{-4} 1.4×10^{-4} 1.4×10^{-4} 2.5×10^{-4} 4.1×10^{-4} 4.1×10^{-4} 4.1×10^{-4}	RLC Digibridge Standard Resistor / KRCMI-I-402-10
Decade resistor		0 Ω (1 ~ 10) mΩ (10 ~ 100) mΩ (0.1 ~ 1) Ω (1 ~ 10) Ω (10 ~ 100) Ω (0.1 ~ 1) kΩ	0.08 μΩ 5.0×10^{-4} 1.5×10^{-4} 1.5×10^{-4} 1.7×10^{-5} 1.1×10^{-5} 1.0×10^{-5}	Digital Multimeter / KRCMI-I-402-11

402. Resistance, Capacitance and Inductance

Measured Quantity Instrument or Gauge	Field code	Range	Uncertainty of measurement (The Confidence Level is about 95 %)	Comments
Resistors Decade resistor	40215	(1 ~ 10) kΩ (10 ~ 100) kΩ (0.1 ~ 1) MΩ (1 ~ 10) MΩ (10 ~ 100) MΩ (0.1 ~ 1) GΩ (1 ~ 10) GΩ (10 ~ 100) GΩ (0.1 ~ 1) TΩ (1 ~ 10) TΩ	1.0×10^{-5} 1.0×10^{-5} 1.5×10^{-5} 1.5×10^{-5} 7.5×10^{-5} 6.0×10^{-4} 1.0×10^{-3} 1.3×10^{-3} 5.0×10^{-3} 6.7×10^{-3}	Digital Multimeter / KRCMI-I-402-11
Impedance bridges/LCR meters Frequency AC Voltage DC Bias Inductance Capacitance	40217	100 Hz ~ 100 MHz 1 kHz 100 mV (0.1 ~ 1) V (1 ~ 10) V (10 ~ 50) V ±(10 ~ 100) mV ±(0.1 ~ 10) V ±(10 ~ 50) V 1 kHz 100 μH 1 mH ~ 10 mH 10 mH ~ 100 mH 100 mH ~ 1 H 1 H ~ 10 H 1 kHz 1 pF 10 pF 100 pF 1 000 pF 10 nF 100 nF 1 μF 10 μF 10 kHz 10 nF 100 nF 1 μF 100 kHz 10 nF	1.0×10^{-6} 1.8×10^{-4} 1.0×10^{-4} 1.0×10^{-4} 1.8×10^{-4} 1.0×10^{-5} 1.0×10^{-5} 2.0×10^{-5} 1.9×10^{-4} 1.3×10^{-4} 1.3×10^{-4} 1.3×10^{-4} 1.5×10^{-4} 3.5×10^{-4} 3.5×10^{-4} 3.5×10^{-4} 3.5×10^{-4} 8.0×10^{-5} 8.0×10^{-5} 1.2×10^{-4} 8.0×10^{-4} 2.5×10^{-4} 2.5×10^{-4} 2.5×10^{-4} 2.5×10^{-4} 2.5×10^{-4}	Standard Inductor Series Standard Capacitor Series Standard Resistor set Digital Multi Meter / KRCMI-I-402- 13

402. Resistance, Capacitance and Inductance

Measured Quantity Instrument or Gauge	Field code	Range	Uncertainty of measurement (The Confidence Level is about 95 %)	Comments
Impedance bridges/LCR meters Capacitance	40217	100 nF	2.5×10^{-4}	Standard Inductor Series Standard Capacitor Series Standard Resistor set Digital Multi Meter / KRCMI-I-402- 13
		1 μ F	2.5×10^{-4}	
		1 MHz		
		1 pF	4.3×10^{-4}	
		10 pF	4.2×10^{-4}	
		100 pF	4.2×10^{-4}	
		1 000 pF	4.3×10^{-4}	
		2 MHz		
		1 pF	4.8×10^{-4}	
		10 pF	4.2×10^{-4}	
		100 pF	4.2×10^{-4}	
		1 000 pF	4.5×10^{-4}	
		3 MHz		
		1 pF	5.9×10^{-4}	
		10 pF	4.2×10^{-4}	
		100 pF	4.3×10^{-4}	
		1 000 pF	5.1×10^{-4}	
		4 MHz		
		1 pF	7.6×10^{-4}	
		10 pF	4.2×10^{-4}	
		100 pF	4.3×10^{-4}	
		1 000 pF	6.1×10^{-4}	
		5 MHz		
		1 pF	9.8×10^{-4}	
		10 pF	4.2×10^{-4}	
		100 pF	4.5×10^{-4}	
		1 000 pF	7.6×10^{-4}	
		10 MHz		
		1 pF	3.4×10^{-3}	
		10 pF	2.4×10^{-3}	
		100 pF	2.4×10^{-3}	
		1 000 pF	3.1×10^{-3}	
		13 MHz		
		1 pF	4.4×10^{-3}	
		10 pF	2.4×10^{-3}	
		100 pF	2.4×10^{-3}	
		1 000 pF	3.8×10^{-3}	

402. Resistance, Capacitance and Inductance

Measured Quantity Instrument or Gauge	Field code	Range	Uncertainty of measurement (The Confidence Level is about 95 %)	Comments
Impedance bridges/LCR meters Resistance	40217	1 kHz		Standard Inductor Series Standard Capacitor Series Standard Resistor set Digital Multi Meter / KRCMI-I-402- 13
		1 Ω	3.1×10^{-4}	
		10 Ω	3.1×10^{-4}	
		100 Ω	3.1×10^{-4}	
		1 kΩ	3.1×10^{-4}	
		10 kΩ	1.4×10^{-4}	
		100 kΩ	1.4×10^{-4}	
		1 MΩ	2.6×10^{-4}	
		100 kHz		
		1 kΩ	4.0×10^{-4}	
		10 kΩ	4.0×10^{-4}	
		100 kΩ	4.0×10^{-4}	
		1 MHz		
		10 Ω	4.0×10^{-4}	
		100 Ω	4.0×10^{-4}	
		1 kΩ	4.0×10^{-4}	
		10 kΩ	4.0×10^{-4}	
		100 kΩ	4.0×10^{-4}	
		2 MHz		
		10 Ω	6.0×10^{-4}	
		100 Ω	5.0×10^{-4}	
		1 kΩ	4.0×10^{-4}	
		3 MHz		
		10 Ω	7.0×10^{-4}	
		100 Ω	6.0×10^{-4}	
		1 kΩ	4.0×10^{-4}	
		4 MHz		
		10 Ω	7.0×10^{-4}	
		100 Ω	6.0×10^{-4}	
		1 kΩ	5.0×10^{-4}	
		5 MHz		
		10 Ω	1.0×10^{-3}	
		100 Ω	7.0×10^{-4}	
		1 kΩ	6.0×10^{-4}	
10 MHz				
10 Ω	4.1×10^{-3}			

402. Resistance, Capacitance and Inductance

Measured Quantity Instrument or Gauge	Field code	Range	Uncertainty of measurement (The Confidence Level is about 95 %)	Comments
Impedance bridges/LCR meters Resistance Schering Bridge Capacitance tan δ	40217	100 Ω	2.0×10^{-3}	Standard Inductor Series Standard Capacitor Series Standard Resistor set Digital Multi Meter / KRCMI-I-402- 13
		1 kΩ	2.1×10^{-3}	
		13 MHz		
		10 Ω	6.2×10^{-3}	
		100 Ω	3.1×10^{-3}	
		1 kΩ	3.1×10^{-3}	
		(50 ~ 60) Hz		
		1 000 pF	1.0×10^{-4}	
		60 Hz		
		0.001	5.1×10^{-5}	
		0.005	5.1×10^{-5}	
		0.0001	5.1×10^{-5}	
		0.0005	5.1×10^{-5}	
		0.00001	5.1×10^{-5}	
0.00005	5.1×10^{-5}			

403. AC voltage, current & power

Measured Quantity Instrument or Gauge	Field code	Range	Uncertainty of measurement (The Confidence Level is about 95 %)	Comments
Ammeters/AC AC current	40301	40 Hz ~ 10 kHz (0.1 ~ 10) mA (10 ~ 100) mA (0.1 ~ 1) A (1 ~ 10) A 50 Hz ~ 60 Hz (10 ~ 20) A (20 ~ 50) A (50 ~ 100) A (100 ~ 200) A	 1.9×10^{-4} 1.9×10^{-4} 1.9×10^{-4} 3.6×10^{-4} 6.0×10^{-4} 5.2×10^{-4} 5.0×10^{-4} 5.5×10^{-4}	Meter Calibrator Transconductance Amplifier / KRCMI-I-403-01
Ammeters/voltmeters, AC clamp DC voltage DC current AC voltage AC current	40302	0 V (0 ~ 1 000) V 0 μ A (0 ~ 100) μ A (0.1 ~ 100) mA (0.1 ~ 1) A (1 ~ 10) A (10 ~ 20) A (20 ~ 50) A (50 ~ 100) A (100 ~ 1 000) A (1 000 ~ 2 500) A (2 500 ~ 5 000) A 40 Hz ~ 100 kHz 1 mV (1 ~ 20) mV (20 ~ 100) mV (0.1 ~ 1) V (1 ~ 10) V (10 ~ 100) V 50 Hz ~ 1 kHz (100 ~ 1 000) V 10 Hz ~ 10 kHz 1 mA (1 ~ 10) mA (10 ~ 100) mA (0.1 ~ 1) A (1 ~ 10) A (50 ~ 60) Hz (10 ~ 20) A	 72μ V 1.0×10^{-4} 12 nA 2.3×10^{-3} 2.3×10^{-3} 2.3×10^{-3} 2.4×10^{-3} 2.5×10^{-3} 2.6×10^{-3} 2.6×10^{-3} 2.5×10^{-3} 2.4×10^{-3} 2.4×10^{-3} 0.74μ V 2.3×10^{-4} 6.5×10^{-5} 1.0×10^{-5} 5.8×10^{-4} 1.0×10^{-4} 1.0×10^{-4} 3.0μ A 2.3×10^{-3} 2.3×10^{-3} 2.3×10^{-3} 2.4×10^{-3} 3.3×10^{-3}	Meter Calibrator Current Coil Transconductance Amplifier / KRCMI-I-403-02

403. AC voltage, current & power

Measured Quantity Instrument or Gauge	Field code	Range	Uncertainty of measurement (The Confidence Level is about 95 %)	Comments
<p>Ammeters/voltmeters, AC clamp AC current</p> <p>Resistance</p>	40302	<p>(20 ~ 50) A (50 ~ 150) A (150 ~ 200) A (200 ~ 600) A (600 ~ 800) A (800 ~ 1 000) A (1 000 ~ 6 000) A</p> <p>(10 ~ 100) mΩ (0.1 ~ 1) Ω (1 ~ 1 000) Ω (1 ~ 1 000) kΩ (1 ~ 100) MΩ</p>	<p>2.4×10^{-3} 2.4×10^{-3} 2.4×10^{-3} 2.4×10^{-3} 2.5×10^{-3} 2.5×10^{-3} 3.8×10^{-3}</p> <p>3.0×10^{-4} 1.2×10^{-4} 1.0×10^{-4} 1.0×10^{-4} 1.0×10^{-4}</p>	<p>Meter Calibrator Current Coil Transconductance Amplifier / KRCMI-I-403-02</p>
<p>Calibrators, AC voltage/current AC voltage</p> <p>AC current</p>	40303	<p>(2 ~ 100) mV 10 Hz ~ 20 kHz 20 kHz ~ 100 kHz 100 kHz ~ 1 MHz</p> <p>(0.1 ~ 1.0) V 10 Hz ~ 50 kHz 50 kHz ~ 100 kHz 100 kHz ~ 500 kHz 500 kHz ~ 1 MHz</p> <p>(1.0 ~ 10) V 10 Hz ~ 100 kHz 100 kHz ~ 1 MHz</p> <p>(10 ~ 100) V 40 Hz ~ 50 kHz 50 kHz ~ 100 kHz</p> <p>(100 ~ 1 000) V 50 Hz ~ 20 kHz</p> <p>100 μA 60 Hz 1 kHz</p> <p>(0.1 ~ 1.0) mA 40 Hz ~ 10 kHz</p> <p>(1.0 ~ 10) mA 40 Hz ~ 10 kHz</p> <p>10 mA ~ 1.0 A 40 Hz ~ 10 kHz</p>	<p>5.0×10^{-5} 8.0×10^{-5} 2.4×10^{-4}</p> <p>5.0×10^{-5} 6.0×10^{-5} 1.6×10^{-4} 1.7×10^{-4}</p> <p>5.0×10^{-5} 1.6×10^{-4}</p> <p>5.0×10^{-5} 6.0×10^{-5}</p> <p>5.0×10^{-5}</p> <p>1.3×10^{-4} 7.0×10^{-5}</p> <p>5.0×10^{-5}</p> <p>4.0×10^{-5}</p> <p>5.0×10^{-5}</p>	<p>Digital Multimeter Active Shunt / KRCMI-I-403-03</p>

403. AC voltage, current & power

Measured Quantity Instrument or Gauge	Field code	Range	Uncertainty of measurement (The Confidence Level is about 95 %)	Comments
Calibrators, AC voltage/current AC current	40303	(1.0 ~ 10) A 40 Hz ~ 1 kHz 1 KHz ~ 10 kHz (10 ~ 100) A 40 Hz ~ 1 kHz (50 ~ 60) Hz (100 ~ 150) A (150 ~ 200) A	 5.0×10^{-5} 1.1×10^{-4} 7.0×10^{-5} 4.7×10^{-4} 4.0×10^{-4}	Digital Multimeter Active Shunt / KRCMI-I-403-03
Electrical Power Standard DC voltage DC current AC voltage AC current DC POWER active power	40304	1 mV (1 ~ 10) mV (0.01 ~ 1 000) V (1 000 ~ 1 550) V 100 μ A (0.1 ~ 1) mA (0.001 ~ 500) A (0.04 ~ 1) kHz 2 mV (2 ~ 20) mV (0.02 ~ 1 000) V (0.04 ~ 1) kHz 1 mA (1 ~ 10) mA (10 ~ 100) mA (0.1 ~ 1) A (1 ~ 10) A (10 ~ 20) A (50 ~ 60) Hz (20 ~ 120) A (120 ~ 200) A 0.01 mW (0.01 ~ 1) mW (0.001 ~ 1) W (0.001 ~ 750) kW (50 ~ 60) Hz 0.6 mW (0.6 ~ 600) mW (0.6 ~ 6) W (6 ~ 60) W	 0.1 μ V 1.0×10^{-4} 1.0×10^{-5} 2.6×10^{-5} 2.5 nA 2.5×10^{-5} 2.0×10^{-5} 9 μ V 4.5×10^{-3} 6.0×10^{-5} 1 μ A 1.0×10^{-3} 3.0×10^{-4} 3.8×10^{-4} 6.1×10^{-4} 7.5×10^{-4} 7.5×10^{-4} 7.5×10^{-4} 3.7 nW 3.7×10^{-4} 2.6×10^{-4} 7.0×10^{-5} 7 nW 2.5×10^{-4} 2.5×10^{-4} 1.2×10^{-4}	Electrical Power Standard /KRCMI-I-403-14

403. AC voltage, current & power

Measured Quantity Instrument or Gauge	Field code	Range	Uncertainty of measurement (The Confidence Level is about 95 %)	Comments
Electrical Power Standard active power	40304	(60 ~ 120) W	1.2×10^{-4}	Electrical Power Standard /KRCMI-I-403-14
		(120 ~ 1 200) W	1.1×10^{-4}	
		(1.2 ~ 2.4) kW	1.1×10^{-4}	
		(2.4 ~ 3.8) kW	1.3×10^{-4}	
		(3.8 ~ 6) kW	1.3×10^{-4}	
		(6 ~ 12) kW	1.2×10^{-4}	
		(12 ~ 19.2) kW	1.1×10^{-4}	
		(19.2 ~ 30.4) kW	1.3×10^{-4}	
		(30.4 ~ 45.6) kW	1.3×10^{-4}	
reactive power		(50 ~ 60) Hz		
		0.6 mvar	0.1 mvar	
		(0.6 ~ 600) mvar	1.3×10^{-3}	
		(0.6 ~ 6) var	1.3×10^{-4}	
		(6 ~ 60) var	1.3×10^{-4}	
		(60 ~ 120) var	1.2×10^{-4}	
		(120 ~ 1 200) var	1.3×10^{-4}	
		(1.2 ~ 2.4) kvar	1.3×10^{-4}	
		(2.4 ~ 3.8) kvar	1.3×10^{-4}	
		(3.8 ~ 6) kvar	1.3×10^{-4}	
	(6 ~ 12) kvar	1.3×10^{-4}		
	(12 ~ 19.2) kvar	1.3×10^{-4}		
	(19.2 ~ 30.4) kvar	1.3×10^{-4}		
	(30.4 ~ 45.6) kvar	1.3×10^{-4}		
factor	(50 ~ 60) Hz			
	-1 ~ 1	0.000 2		
Frequency	10 Hz ~ 1 MHz	1.4×10^{-4}		
T.H.D voltage(THD-V)	(50 ~ 3000) Hz			
	(0.5 ~ 20) %	0.06 %		
current((THD-I)	(50 ~ 3000) Hz			
	(0.5 ~ 20) %	0.06 %		
AC current shunts AC Resistance	40305	(40 Hz ~ 1 kHz)		Meter Calibrator Digital Multimeter Transconductance Amplifier / KRCMI-I-403-04
		(0.025~ 1) mΩ	2.4×10^{-3}	
		(1 ~ 10) mΩ	5.9×10^{-4}	
		(10 ~ 100) mΩ	4.4×10^{-4}	
		(0.1 ~ 100) Ω	2.9×10^{-4}	
		(0.1 ~ 10) kΩ	1.9×10^{-4}	
Phase Angle Meter Phase Angle	40307	(50 ~ 60) Hz		Electrical Power Standard / KRCMI-I-403-10
		(-180 ~ 180) °	0.006 °	

403. AC voltage, current & power

Measured Quantity Instrument or Gauge	Field code	Range	Uncertainty of measurement (The Confidence Level is about 95 %)	Comments	
Power factor meters Power factor meters factor	40310	(50 ~ 60) Hz -1 ~ 1	1.6×10^{-4}	Electrical Power Standard / KRCMI-I-403-05	
reactiv factor meter reactiv factor		(50 ~ 60) Hz -1 ~ 1	1.6×10^{-4}		
AC power meters AC Watt Meter Power meters, AC	40311	DC voltage	1 mV (1 ~ 100) mV (0.1 ~ 1 000) V	0.13 μ V 1.3×10^{-4} 1.3×10^{-4}	Electrical Power Standard Calibrator Current Coil / KRCMI-I-403-06
DC current		100 μ A (0.1 ~ 1) mA (1 ~ 10) mA (10 ~ 100) mA (0.1 ~ 1) A (1 ~ 10) A (10 ~ 100) A (100 ~ 200) A (200 ~ 500) A (500 ~ 1 000) A (1 000 ~ 2 500) A (2 500 ~ 5 000) A	5.4 nA 5.4×10^{-5} 4.9×10^{-5} 6.1×10^{-5} 1.1×10^{-4} 1.7×10^{-4} 1.7×10^{-4} 1.7×10^{-4} 1.7×10^{-4} 1.5×10^{-3} 1.6×10^{-3} 1.6×10^{-3}		
AC voltage		(50 Hz ~ 1 kHz) 2 mV (2 ~ 20) mV (20 ~ 100) mV (0.1 ~ 1 000) V	7 μ V 3.5×10^{-3} 3.5×10^{-4} 1.0×10^{-4}		
AC current		(50 Hz ~ 1 kHz) 1 mA (1 ~ 100) mA (0.1 ~ 1) A (1 ~ 10) A (10 ~ 100) A	0.2 μ A 2.0×10^{-4} 2.0×10^{-4} 3.0×10^{-4} 5.0×10^{-4}		
		(50 ~ 60) Hz (100 ~ 1 000) A (1 000 ~ 5 000) A	5.0×10^{-4} 2.0×10^{-3}		
DC POWER		0.01 mW (0.01 ~ 100) mW (0.1 ~ 100) W (0.1 ~ 500) kW	2.1 nW 2.1×10^{-4} 2.1×10^{-4} 2.1×10^{-4}		

403. AC voltage, current & power

Measured Quantity Instrument or Gauge	Field code	Range	Uncertainty of measurement (The Confidence Level is about 95 %)	Comments
AC power meters AC Watt Meter Power meters, AC active power	40311	(50 ~ 60) Hz 1.2 mW 1.2 mW ~ 1.2 W (1.2 ~ 60) W (60 ~ 120) W (120 ~ 190) W (190 ~ 240) W (240 ~ 380) W (0.38 ~ 1.2) kW (1.2 ~ 2.4) kW (2.4 ~ 3.8) kW (3.8 ~ 9.6) kW (9.6 ~ 19.2) kW (19.2 ~ 30.4) kW (30.4 ~ 60) kW (60 ~ 120) kW (120 ~ 480) kW (480 ~ 960) kW (960 ~ 1 520) kW	0.2 mW 2.5×10^{-4} 2.5×10^{-4} 1.3×10^{-4} 1.3×10^{-4} 1.3×10^{-4} 1.3×10^{-4} 1.3×10^{-4} 1.3×10^{-4} 1.3×10^{-4} 1.4×10^{-4} 1.4×10^{-4} 1.2×10^{-4} 2.0×10^{-3} 2.0×10^{-3} 2.1×10^{-3} 2.1×10^{-3} 2.1×10^{-3}	Electrical Power Standard Calibrator Current Coil / KRCMI-I-403-06
reactive power		(50 ~ 60) Hz 0 var (0 ~ 1.2) var (1.2 ~ 60) var (60 ~ 120) var (120 ~ 190) var (190 ~ 240) var (240 ~ 380) var (0.38 ~ 1.2) kvar (1.2 ~ 2.4) kvar (2.4 ~ 3.8) kvar (3.8 ~ 9.6) kvar (9.6 ~ 19.2) kvar (19.2 ~ 30.4) kvar (30.4 ~ 60) kvar (60 ~ 120) kvar (120 ~ 480) kvar (480 ~ 960) kvar (960 ~ 1 520) kvar	0.2 mvar 2.5×10^{-4} 2.5×10^{-4} 2.1×10^{-4} 2.1×10^{-4} 1.9×10^{-4} 1.7×10^{-4} 1.3×10^{-4} 1.3×10^{-4} 1.3×10^{-4} 1.4×10^{-4} 1.4×10^{-4} 1.6×10^{-4} 3.3×10^{-3} 3.3×10^{-3} 2.5×10^{-3} 2.1×10^{-3} 2.1×10^{-3}	
factor		(50 ~ 60) Hz -1 ~ 1	0.000 3	
Frequency		10 Hz ~ 1 MHz	1.0×10^{-5}	
T.H.D voltage		(50 ~ 3000) Hz (0.5 ~ 20) %	0.017 %	

403. AC voltage, current & power

Measured Quantity Instrument or Gauge	Field code	Range	Uncertainty of measurement (The Confidence Level is about 95 %)	Comments
AC power meters AC Watt Meter Power meters, AC current	40311	(50 ~ 3000) Hz (0.5 ~ 20) %	0.017 %	Electrical Power Standard Calibrator Current Coil / KRCMI-I-403-06
Power supplies, AC AC voltage	40312	(0.04 ~ 10) kHz (2 ~ 20) mV (20 ~ 100) mV (0.1 ~ 1) V (1 ~ 10) V (10 ~ 100) V (100 ~ 200) V (200 ~ 300) V (300 ~ 600) V (600 ~ 1 000) V	3.1×10^{-4} 3.1×10^{-4} 1.2×10^{-4} 1.2×10^{-4} 1.2×10^{-4} 7.3×10^{-5} 5.8×10^{-5} 7.8×10^{-5} 1.3×10^{-4}	Digital Multimeter / KRCMI-I-403-07
AC current		40 Hz ~ 1 kHz (1 ~ 100) mA (0.1 ~ 1) A (1 ~ 10) A (10 ~ 50) A (50 ~ 100) A	1.2×10^{-4} 8.7×10^{-4} 4.1×10^{-4} 4.5×10^{-4} 5.8×10^{-4}	
DC voltage		0 mV (0 ~ 100) mV (0.1 ~ 1) V (1 ~ 10) V (10 ~ 50) V (50 ~ 100) V (100 ~ 200) V (200 ~ 300) V (300 ~ 400) V (400 ~ 1 000) V	5.7 nV 1.6×10^{-5} 1.2×10^{-6} 5.9×10^{-4} 2.3×10^{-4} 1.2×10^{-4} 6.8×10^{-5} 4.5×10^{-5} 3.4×10^{-5} 1.2×10^{-4}	
Frequency		10 Hz ~ 10 kHz	6.0×10^{-5}	
Puncture/safety testers DC Voltage(Positive)	40313	0 kV $\pm(0 \sim 1)$ kV $\pm(1 \sim 5)$ kV $\pm(5 \sim 10)$ kV $\pm(10 \sim 15)$ kV $\pm(15 \sim 20)$ kV $\pm(20 \sim 30)$ kV $\pm(30 \sim 40)$ kV $\pm(40 \sim 200)$ kV	0.6 V 6.0×10^{-4} 6.0×10^{-4} 5.0×10^{-4} 4.7×10^{-4} 4.5×10^{-4} 6.7×10^{-4} 5.0×10^{-4} 9.0×10^{-4}	High Voltage Divider High Voltage Digital Meter Digital Multimeter Curr.Calibrator For W.Tester / KRCMI-I-403-08
DC Current		0 mA (0 ~ 0.5) mA (0.5 ~ 1) mA (1 ~ 2) mA	0.65 μ A 1.3×10^{-3} 6.6×10^{-4} 3.3×10^{-4}	

403. AC voltage, current & power

Measured Quantity Instrument or Gauge	Field code	Range	Uncertainty of measurement (The Confidence Level is about 95 %)	Comments
Puncture/safety testers	40313			High Voltage Divider
DC Current		(2 ~ 5) mA	1.5×10^{-4}	High Voltage Digital Meter
		(5 ~ 10) mA	6.4×10^{-4}	Digital Multimeter
		(10 ~ 50) mA	6.0×10^{-4}	Curr.Calibrator For W.Tester
		(50 ~ 100) mA	6.0×10^{-4}	/ KRCMI-I-403-08
AC Voltage		(50 ~ 60) Hz		
		(0.01 ~ 1) kV	1.3×10^{-4}	
		(1 ~ 200) kV	1.3×10^{-3}	
AC Current		(50 ~ 60) Hz		
		(0.5 ~ 1) mA	1.2×10^{-2}	
		(1 ~ 2) mA	1.2×10^{-2}	
		(2 ~ 5) mA	1.2×10^{-2}	
		(5 ~ 10) mA	1.2×10^{-2}	
		(10 ~ 20) mA	1.2×10^{-2}	
		(20 ~ 50) mA	1.2×10^{-2}	
		(50 ~ 100) mA	1.2×10^{-2}	
Time		(0.001 ~ 0.1) s	1.1×10^{-2}	
		(0.1 ~ 0.2) s	9.3×10^{-3}	
		(0.2 ~ 0.5) s	8.9×10^{-3}	
		(0.5 ~ 1) s	6.1×10^{-4}	
		(1 ~ 10) s	3.2×10^{-4}	
		(10 ~ 60) s	1.5×10^{-4}	
spark test		(0.01 ~ 1) kV	1.6×10^{-2}	
		(1 ~ 10) kV	1.8×10^{-2}	
		(10 ~ 15) kV	3.2×10^{-2}	
		(15 ~ 20) kV	3.1×10^{-2}	
insulating oil test low-frequency puncture tester		(0.01 ~ 100) kV	1.6×10^{-2}	
		(0.01 ~ 1) kV	1.6×10^{-2}	
		(1 ~ 10) kV	1.8×10^{-2}	
		(10 ~ 15) kV	3.2×10^{-2}	
		(15 ~ 20) kV	3.1×10^{-2}	
Recorders, power	40314			Electrical Power Standard
AC voltage		50 Hz ~ 1 kHz		/ KRCMI-I-403-11
		(2 ~ 20) mV	2.3×10^{-4}	
		(20 ~ 100) mV	4.2×10^{-4}	
		(0.1 ~ 1) V	3.3×10^{-4}	
		(1 ~ 10) V	9.1×10^{-5}	
		(10 ~ 1 000) V	1.0×10^{-4}	
AC Current		50 Hz ~ 1 kHz		
		(1 ~ 10) mA	2.0×10^{-4}	
		(10 ~ 100) mA	2.0×10^{-4}	

403. AC voltage, current & power

Measured Quantity Instrument or Gauge	Field code	Range	Uncertainty of measurement (The Confidence Level is about 95 %)	Comments
Recorders, power AC Current	40314	(0.1 ~ 1) A (1 ~ 10) A	7.3×10^{-4} 7.3×10^{-4}	Electrical Power Standard / KRCMI-I-403-11
		(50 ~ 60) Hz (10 ~ 20) A (20 ~ 50) A (50 ~ 150) A (150 ~ 200) A (200 ~ 400) A (400 ~ 600) A (600 ~ 800) A (800 ~ 1000) A (1 000 ~ 2 500) A (2 500 ~ 6 000) A	3.3×10^{-3} 2.5×10^{-3} 2.4×10^{-3} 2.4×10^{-3} 2.4×10^{-3} 2.4×10^{-3} 2.5×10^{-3} 2.3×10^{-3} 4.4×10^{-3} 3.5×10^{-3}	
AC Wattage		(50 ~ 60) Hz (1.2 ~ 600) mW (0.6 ~ 1.2) W (1.2 ~ 6) W (18 ~ 24) W (24 ~ 30) W (30 ~ 36) W (36 ~ 60) W (60 ~ 72) W (72 ~ 120) W (120 ~ 240) W (240 ~ 1 800) W (1.8 ~ 2.4) kW (2.4 ~ 3) kW (3 ~ 3.6) kW (3.6 ~ 4.8) kW (4.8 ~ 6) kW (6 ~ 7.2) kW (7.2 ~ 12) kW (12 ~ 24) kW (24 ~ 600) kW (600 ~ 720) kW (720 ~ 960) kW (960 ~ 1 200) kW	1.7×10^{-4} 1.7×10^{-4} 1.7×10^{-4} 6.3×10^{-4} 6.7×10^{-4} 8.3×10^{-4} 6.7×10^{-4} 6.9×10^{-4} 6.7×10^{-4} 6.3×10^{-4} 6.7×10^{-4} 6.3×10^{-4} 6.7×10^{-4} 8.3×10^{-4} 6.0×10^{-4} 6.7×10^{-4} 6.9×10^{-4} 1.7×10^{-3} 4.2×10^{-3} 1.2×10^{-3} 1.2×10^{-3} 1.2×10^{-3} 1.2×10^{-3}	
factor		(50 ~ 60) Hz -1 ~ 1	1.4×10^{-4}	
rms voltmeters, AC AC voltage	40318	10 Hz ~ 10 kHz (1 ~ 10) mV (10 ~ 100) mV (0.1 ~ 1) V	3.7×10^{-4} 6.5×10^{-5} 1.0×10^{-5}	Synthesizer Level Generator Meter Calibrator / KRCMI-I-403-09

403. AC voltage, current & power

Measured Quantity Instrument or Gauge	Field code	Range	Uncertainty of measurement (The Confidence Level is about 95 %)	Comments
rms voltmeters, AC AC voltage	40318	(1 ~ 10) V (10 ~ 100) V	5.8×10^{-4} 1.0×10^{-4}	Synthesizer Level Generator Meter Calibrator / KRCMI-I-403-09
		(10 ~ 100) kHz		
		(1 ~ 10) mV	2.3×10^{-4}	
		(10 ~ 100) mV	6.5×10^{-5}	
		(0.1 ~ 1) V	1.0×10^{-5}	
		(1 ~ 10) V	6.0×10^{-4}	
		(10 ~ 100) V	2.0×10^{-4}	
		100 kHz ~ 1 MHz		
		(100 mV ~ 1 V)	1.0×10^{-5}	
		(1V ~ 10 V)	5.8×10^{-4}	
		40 Hz ~ 1 kHz		
		(10 ~ 1 000) V	1.0×10^{-4}	
		40 Hz ~ 10 kHz		
		(40 ~ 60) dB	0.01 dB	
		(20 ~ 40) dB	0.01 dB	
		(-20 ~ 0) dB	0.01 dB	
		(-40 ~ -20) dB	0.01 dB	
		(-60 ~ -40) dB	0.01 dB	
		10 Hz ~ 1 MHz	3.3×10^{-4}	
Watter hour meters Reference watt-hour meter Reference power meter Effective Power Amount	40319	(100 ~ 1 000) V (0.01 ~ 500) A (0.01 ~ 500) kWh $\pm(0 \sim 100)\%$	0.013 %	Watt hour meters /KRCMI-I-403-15
AC watt-hour meter Effective Power Amount		(Single phase) (50 ~ 60) Hz (60 ~ 380) V (0.05 ~ 120) A (-1 ~ 1) $\pm(0 \sim 100)\%$	0.011 %	
		(Three phase) (50 ~ 60) Hz (60 ~ 380) V (0.05 ~ 120) A (-1 ~ 1) $\pm(0 \sim 100)\%$	0.017 %	
		(Single phase) (50 ~ 60) Hz (60 ~ 380) V (0.05 ~ 120) A (-1 ~ 1) $\pm(0 \sim 100)\%$	0.021 %	
Invalid Power Amount				

403. AC voltage, current & power

Measured Quantity Instrument or Gauge	Field code	Range	Uncertainty of measurement (The Confidence Level is about 95 %)	Comments
Watter hour meters Invalid Power Amount	40319	(Three phase) (50 ~ 60) Hz (60 ~ 380) V (0.05 ~ 120) A (-1 ~ 1) $\pm(0 \sim 100)\%$	0.036 %	Watt hour meters /KRCMI-I-403-15
Impulse High Voltage.High Current ester /Welding.Weid Current Tester AC Current Time DC Current	40320	60 Hz (1 ~ 10) A (10 ~ 50) A (50 ~ 100) A (100 ~ 400) A (400 ~ 1 400) A (1 400 ~ 2 900) A (2 900 ~ 4 000) A (1 ~ 500) ms (0.5 ~ 60) s (1 ~ 10) A (10 ~ 100) A (100 ~ 1 000) A	8.2×10^{-3} 7.0×10^{-3} 6.8×10^{-3} 4.6×10^{-4} 4.2×10^{-3} 4.7×10^{-3} 3.6×10^{-3} 3.0×10^{-3} 2.4×10^{-3} 8.1×10^{-3} 3.5×10^{-3} 3.2×10^{-3}	Standard Current Transformer Digital Multimeter Oscilloscope Shunt KRCMI-I-403-12
Ratio transformers Turn Current Coil DC Current (Ratio) AC Current (Ratio)	40321	2 ~ 50 (50 ~ 60) Hz 2 ~ 50	1.2×10^{-3} 1.5×10^{-3}	Meter Calibrator Current Coil Transconductance Amplifier / KRCMI-I-403-02

404. Other DC & LF Measurements

Measured Quantity Instrument or Gauge	Field code	Range	Uncertainty of measurement (The Confidence Level is about 95 %)	Comments
LF amplifiers Gain Current probe and Current probe Amplifier for oscilloscope Current(Ap-p) Rising time	40401	(0 ~ 60) dB 10 Hz ~ 100 kHz (0.1 ~ 20) MHz DC ~ 1 kHz (1 ~ 100) mA (0.1 ~ 1) A (1 ~ 10) A (1 ~ 10) kHz (1 ~ 100) mA (0.1 ~ 1) A (1 ~ 10) A ≤ 7 ns	0.14 dB 0.23 dB 7.5×10^{-3} 6.5×10^{-3} 7.7×10^{-3} 7.8×10^{-3} 6.8×10^{-3} 1.1×10^{-2} 1.0×10^{-2}	Synthesizer level generator Selective level meter Meter calibrator Oscilloscope Transconductance amplifier / KRCMI-I-404-22
DC/LF attenuators attenuation	40402	40 Hz ~ 100 kHz (0 ~ -50) dB (-50 ~ -60) dB (-60 ~ -70) dB 100 kHz ~ 30 MHz (0 ~ -10) dB (-10 ~ -30) dB (-30 ~ -60) dB (-60 ~ -70) dB	0.07 dB 0.09 dB 0.11 dB 0.15 dB 0.16 dB 0.21 dB 0.59 dB	Synthesizer Level Generator Selective Level Meter / KRCMI-I-404-03
Multimeter calibrators DC voltage DC current AC voltage	40403	$\pm(0 \sim 220)$ mV $\pm(0.22 \sim 2.2)$ V $\pm(2.2 \sim 11)$ V $\pm(11 \sim 22)$ V $\pm(22 \sim 220)$ V $\pm(220 \sim 1\ 100)$ V $\pm(0 \sim 220)$ μ A $\pm(0.22 \sim 220)$ mA $\pm(0.22 \sim 2.2)$ A $\pm(2.2 \sim 10)$ A $\pm(10 \sim 20)$ A $\pm(20 \sim 100)$ A (1 ~ 220) mV 10 Hz ~ 20 kHz 20 kHz ~ 100 kHz 100 kHz ~ 1 MHz	0.43 μ V 1.8×10^{-6} 1.2×10^{-6} 1.4×10^{-6} 2.3×10^{-6} 2.2×10^{-6} 0.8 nA 8.0×10^{-6} 1.8×10^{-5} 5.2×10^{-5} 5.5×10^{-5} 4.0×10^{-4} 5.0×10^{-5} 8.0×10^{-5} 2.4×10^{-4}	DC reference standard Reference divider Nanovoltmeter Reference multimeter AC measurement standard AC current shunt AC resistor Standard resistor Current shunt Meter calibrator Amplifier / KRCMI-I-404-04

404. Other DC & LF Measurements

Measured Quantity Instrument or Gauge	Field code	Range	Uncertainty of measurement (The Confidence Level is about 95 %)	Comments
Multimeter calibrators	40403			DC reference standard
AC voltage		(0.22 ~ 2.2) V		Reference divider
		10 Hz ~ 50 kHz	5.0×10^{-5}	Nanovoltmeter
		50 kHz ~ 100 kHz	6.0×10^{-5}	Reference multimeter
		100 kHz ~ 500 kHz	1.6×10^{-4}	AC measurement standard
		500 kHz ~ 1 MHz	1.7×10^{-4}	AC current shunt
		(2.2 ~ 22) V		AC resistor
		10 Hz ~ 100 kHz	5.0×10^{-5}	Standard resistor
		100 kHz ~ 1 MHz	1.6×10^{-4}	Current shunt
		10 Hz ~ 50 kHz	5.0×10^{-5}	Meter calibrator
		50 kHz ~ 100 kHz	6.0×10^{-5}	Amplifier
		(220 ~ 1 100) V		/ KRCMI-I-404-04
		50 Hz ~ 20 kHz	5.0×10^{-5}	
AC current		(10 ~ 220) μ A		
		10 Hz ~ 60 Hz	1.3×10^{-4}	
		60 Hz ~ 1 kHz	7.0×10^{-5}	
		(0.22 ~ 2.2) mA		
		10 Hz ~ 10 kHz	5.0×10^{-5}	
		(2.2 ~ 22) mA		
		10 Hz ~ 10 kHz	4.0×10^{-5}	
		22 mA ~ 2.2 A		
		10 Hz ~ 10 kHz	5.0×10^{-5}	
		(2.2 ~ 20) A		
		10 Hz ~ 1 kHz	5.0×10^{-5}	
		1 KHz ~ 10 kHz	1.1×10^{-4}	
		(20 ~ 100) A		
		10 Hz ~ 10 kHz	7.0×10^{-5}	
		(50 ~ 60) Hz		
		(100 ~ 150) A	4.7×10^{-4}	
		(150 ~ 200) A	4.0×10^{-4}	
Resistance		0.1 Ω ~ 10 k Ω	2.3×10^{-6}	
		(10 ~ 100) k Ω	3.5×10^{-6}	
		(0.1 ~ 1) M Ω	3.6×10^{-6}	
		(1 ~ 10) M Ω	7.7×10^{-6}	
		(10 ~ 100) M Ω	1.7×10^{-5}	
Frequency		10 Hz	6.0×10^{-4}	
		10 Hz ~ 10 Mz	6.0×10^{-5}	

404. Other DC & LF Measurements

Measured Quantity Instrument or Gauge	Field code	Range	Uncertainty of measurement (The Confidence Level is about 95 %)	Comments	
Oscilloscope calibrators	40404			Oscilloscope Universal Counter Digital Multimeter AC MEASUREMENT STANDARD EPM SERIES POWER METER POWER SENSOR / KRCMI-I-404-05	
DC Voltage		$\pm(0 \sim 2)$ mV	0.36 μ V		
		$\pm(2 \sim 5)$ mV	8.0×10^{-5}		
		$\pm(5 \sim 10)$ mV	7.0×10^{-5}		
		$\pm(10 \sim 50)$ mV	2.0×10^{-5}		
		$\pm(50 \sim 100)$ mV	6.0×10^{-5}		
		$\pm(100 \sim 500)$ mV	2.0×10^{-5}		
		$\pm(0.5 \sim 1)$ V	6.0×10^{-5}		
		$\pm(1 \sim 5)$ V	1.6×10^{-5}		
		$\pm(5 \sim 10)$ V	6.0×10^{-5}		
		$\pm(10 \sim 50)$ V	1.8×10^{-5}		
		$\pm(50 \sim 100)$ V	6.0×10^{-5}		
		$\pm(100 \sim 200)$ V	3.0×10^{-5}		
AC Voltage		100 Hz ~ 10 kHz			
		(0.1 ~ 2) mV	2.0×10^{-4}		
		(2 ~ 5) mV	8.0×10^{-5}		
		(5 ~ 10) mV	7.0×10^{-5}		
		(10 ~ 50) mV	2.0×10^{-5}		
		(50 ~ 100) mV	6.0×10^{-5}		
		(100 ~ 500) mV	1.4×10^{-5}		
		(0.5 ~ 1) V	6.0×10^{-5}		
		(1 ~ 5) V	1.6×10^{-5}		
		(5 ~ 10) V	6.0×10^{-5}		
		(10 ~ 50) V	1.8×10^{-5}		
		(50 ~ 100) V	6.0×10^{-5}		
		(100 ~ 200) V	3.0×10^{-5}		
Time		(0.1 ~ 0.5) ns	1.2×10^{-7}		
		(0.5 ~ 1) ns	5.8×10^{-7}		
		(1 ~ 2) ns	2.9×10^{-7}		
		(2 ~ 5) ns	1.2×10^{-7}		
		(5 ~ 10) ns	5.8×10^{-7}		
		(10 ~ 20) ns	2.9×10^{-7}		
		(20 ~ 50) ns	1.2×10^{-7}		
		(50 ~ 100) ns	5.8×10^{-7}		
		(0.1 ~ 0.2) μ s	2.9×10^{-7}		
		(0.2 ~ 0.5) μ s	1.2×10^{-7}		
	(0.5 ~ 1) μ s	5.8×10^{-7}			
	(1 ~ 2) μ s	2.9×10^{-7}			
	(2 ~ 5) μ s	1.2×10^{-7}			
	(5 ~ 10) μ s	5.8×10^{-7}			
	(10 ~ 20) μ s	2.9×10^{-7}			
	(20 ~ 50) μ s	1.2×10^{-7}			
	(50 ~ 100) μ s	5.8×10^{-7}			
	(0.1 ~ 0.2) ms	2.9×10^{-7}			
	(0.2 ~ 0.5) ms	1.2×10^{-7}			

404. Other DC & LF Measurements

Measured Quantity Instrument or Gauge	Field code	Range	Uncertainty of measurement (The Confidence Level is about 95 %)	Comments
Oscilloscope calibrators	40404			Oscilloscope
Time		(0.5 ~ 1) ms	5.8×10^{-7}	Universal Counter
		(1 ~ 2) ms	2.9×10^{-7}	Digital Multimeter
		(2 ~ 5) ms	1.2×10^{-7}	AC MEASUREMENT STANDARD
		(5 ~ 10) ms	5.8×10^{-7}	EPM SERIES POWER METER
		(10 ~ 20) ms	2.9×10^{-7}	POWER SENSOR
		(20 ~ 50) ms	1.2×10^{-7}	/ KRCMI-I-404-05
		(50 ~ 100) ms	5.8×10^{-7}	
		(0.1 ~ 0.2) s	2.9×10^{-7}	
		(0.2 ~ 0.5) s	1.2×10^{-7}	
		(0.5 ~ 1) s	5.8×10^{-7}	
		(1 ~ 2) s	2.9×10^{-7}	
		(2 ~ 5) s	1.2×10^{-7}	
Output Frequency		100 Hz ~ 1 GHz	5.8×10^{-9}	
Output Level		(0.1 ~ 1) V		
		50 kHz ~ 1 MHz	6.0×10^{-4}	
		(1 ~ 10) MHz	1.4×10^{-2}	
		10 MHz ~ 1 GHz	1.5×10^{-2}	
		(1 ~ 4) GHz	1.9×10^{-2}	
		(4 ~ 10) GHz	2.0×10^{-2}	
Video signal generators	40406			Video measurement set
Color pattern generators				Spectrum analyzer
Subcarrier Frequency		(NTSC/PAL)		Universal counter
		(1 ~ 5) MHz	3.0×10^{-8}	GPS receiver
				/ KRCMI-I-404-27
Line Frequency		(NTSC/PAL)		/ KRCMI-I-406-24
		(10 ~ 50) kHz	6.4×10^{-8}	
Field Frequency		(NTSC/PAL)		
		(10 ~ 100) Hz	2.0×10^{-6}	
Bar Amplitude		(NTSC/PAL)		
		(0.1 ~ 1) V _{p-p}	3.9×10^{-3}	
Burst Amplitude		(NTSC/PAL)		
		(100 ~ 400) mV _{p-p}	5.7×10^{-3}	
Sync Amplitude		(NTSC/PAL)		
		(100 ~ 400) mV _{p-p}	4.3×10^{-3}	
Luminance		(NTSC/PAL)		
		10 mV _{p-p} ~ 1 V _{p-p}	6.5×10^{-3}	
Chrominance		(NTSC/PAL)		
		10 mV _{p-p} ~ 1 V _{p-p}	8.1×10^{-3}	
RF Frequency		(NTSC/PAL)		

404. Other DC & LF Measurements

Measured Quantity Instrument or Gauge	Field code	Range	Uncertainty of measurement (The Confidence Level is about 95 %)	Comments
Video signal generators RF Frequency	40406	(10 ~ 900) MHz	1 kHz	Video measurement set Spectrum analyzer Universal counter GPS receiver / KRCMI-I-404-27 / KRCMI-I-406-24
Phase		(NTSC/PAL) 0° ~ 360°	1.3°	
Audio distortion analyzers/ meters	40407	(0.1 ~ 10) mV 40 Hz ~ 50 kHz	1.0×10^{-3}	Meter calibrator Distortion meter calibrator Audio analyzer / KRCMI-I-404-04 / KRCMI-I-404-06
AC Voltage		(10 ~ 100) mV 40 Hz ~ 50 kHz	2.0×10^{-4}	
DC Voltage		(0.1 ~ 10) V 40 Hz ~ 50 kHz	1.0×10^{-4}	
		(10 ~ 100) V 40 Hz ~ 20 kHz	1.0×10^{-4}	
		20 kHz ~ 50 kHz	2.0×10^{-4}	
		(100 ~ 1 000) V 40 Hz ~ 1 kHz	1.0×10^{-4}	
		1 kHz ~ 20 kHz	2.0×10^{-4}	
DC Voltage		±(0 ~ 100) mV	0.01 mV	
		±(0.1 ~ 10) V	1.0×10^{-4}	
		±(10 ~ 50) V	1.2×10^{-4}	
Frequency response		40 Hz ~ 100 kHz (0.1 ~ 10) V	6.0×10^{-4}	
Distortion		40 Hz ~ 20 kHz (0 ~ -70) dB	0.17 dB	
		(-70 ~ -80) dB	0.26 dB	
		(-80 ~ -90) dB	0.42 dB	
	(30 ~ 0.1) %	2.0×10^{-2}		
	(0.1 ~ 0.01) %	3.0×10^{-2}		
	(0.01 ~ 0.003) %	4.9×10^{-2}		
Level	40 Hz ~ 100 kHz (20 ~ -80) dB	0.08 dB		
	100 kHz ~ 1 MHz (20 ~ -80) dB	0.09 dB		
	1 MHz ~ 10 MHz (20 ~ -80) dB	0.18 dB		

404. Other DC & LF Measurements

Measured Quantity Instrument or Gauge	Field code	Range	Uncertainty of measurement (The Confidence Level is about 95 %)	Comments
LF/Audio signal analyzers	40409	10 Hz ~ 100 kHz	0.07 dB	Selective Level Meter Meter Calibrator Universal Counter Digital Multimeter Distortion Meter Calibrator Synthesizer Level Generator Digital Signal Generator Measuring Receiver / KRCMI-I-404-07
Input Level		(50 ~ -80) dB		
Input AC Voltage		(0.1 ~ 100) mV	2.0×10^{-4}	
		40 Hz ~ 50 kHz	4.0×10^{-4}	
		50 kHz ~ 100 kHz	6.0×10^{-4}	
		100 kHz ~ 200 kHz	1.1×10^{-3}	
		200 kHz ~ 500 kHz	3.0×10^{-3}	
		500 kHz ~ 1 MHz		
		(0.1 ~ 1) V		
		40 Hz ~ 50 kHz	1.0×10^{-4}	
		50 kHz ~ 100 kHz	2.0×10^{-4}	
		100 kHz ~ 200 kHz	5.0×10^{-4}	
		200 kHz ~ 500 kHz	1.0×10^{-3}	
		500 kHz ~ 1 MHz	1.5×10^{-3}	
Input Frequency		(1 ~ 10) V		
		40 Hz ~ 50 kHz	1.0×10^{-4}	
		50 kHz ~ 100 kHz	2.0×10^{-4}	
		100 kHz ~ 200 kHz	4.0×10^{-4}	
		200 kHz ~ 500 kHz	1.0×10^{-3}	
		500 kHz ~ 1 MHz	1.6×10^{-3}	
Input DC Voltage		(10 ~ 100) V		
		40 Hz ~ 20 kHz	1.0×10^{-4}	
		20 kHz ~ 100 kHz	2.0×10^{-4}	
		(100 ~ 300) V		
Output AC Voltage	40 Hz ~ 20 kHz	3.3×10^{-4}		
	1 Hz ~ 500 kHz	6.0×10^{-6}		
	(-100 ~ 100) V	1.0×10^{-4}		
	(0.1 ~ 100) mV			
	40 Hz ~ 10 kHz	6.0×10^{-4}		
	10 kHz ~ 20 kHz	7.0×10^{-4}		
	20 kHz ~ 50 kHz	1.0×10^{-3}		
	50 kHz ~ 100 kHz	1.1×10^{-3}		
	(0.1 ~ 10) V			
	40 Hz ~ 20 kHz	6.0×10^{-4}		
	20 kHz ~ 100 kHz	8.0×10^{-4}		
	100 kHz ~ 1 MHz	8.1×10^{-3}		
Output DC Voltage	(10 ~ 30) V			
	40 Hz ~ 10 kHz	2.3×10^{-4}		

404. Other DC & LF Measurements

Measured Quantity Instrument or Gauge	Field code	Range	Uncertainty of measurement (The Confidence Level is about 95 %)	Comments
LF/Audio signal analyzers Output AC Voltage Output Level Output Frequency Distortion Standard Frequency Input Level Frequency Response	40409	10 kHz ~ 20 kHz 20 kHz ~ 100 kHz 100 kHz ~ 1 MHz 10 Hz ~ 100 kHz (50 ~ -60) dB (-60 ~ -80) dB 100 kHz ~ 1 MHz (40 ~ 30) dB (30 ~ -30) dB (-30 ~ -80) dB 1 Hz ~ 200 kHz 40 Hz ~ 20 kHz (0 ~ -70) dB (-70 ~ -80) dB (-80 ~ -90) dB (30 ~ 0.1) % (0.1 ~ 0.01) % (0.01 ~ 0.003) % 1 MHz, 10 MHz 40 Hz ~ 100 kHz (10 ~ -60) dBm (-60 ~ -100) dBm 100 kHz ~ 30 MHz (10 ~ -60) dB (-60 ~ -100) dB 100 Hz ~ 30 MHz (0 ~ -20) dBm	3.3×10^{-4} 1.1×10^{-3} 8.0×10^{-3} 0.051 dB 0.11 dB 0.065 dB 0.066 dB 0.13 dB 6.0×10^{-6} 0.17 dB 0.26 dB 0.42 dB 2.0×10^{-2} 3.0×10^{-2} 5.0×10^{-2} 6.0×10^{-9} 0.09 dB 0.13 dB 0.13 dB 0.59 dB 0.08 dB	Selective Level Meter Meter Calibrator Universal Counter Digital Multimeter Distortion Meter Calibrator Synthesizer Level Generator Digital Signal Generator Measuring Receiver / KRCMI-I-404-07
Line frequency meters Frequency	40410	(1 ~ 300) V 10 Hz ~ 50 Hz 50 Hz ~ 60 Hz 60 Hz ~ 100 Hz 100 Hz ~ 500 Hz 500 Hz ~ 1 kHz	2.0×10^{-4} 1.7×10^{-4} 1.0×10^{-4} 2.0×10^{-4} 1.0×10^{-3}	AC Voltage Current standard / KRCMI-I-404-08
Function generators Muster frequency Frequency	40411	1MHz, 10 MHz 1 mHz ~ 500 MHz	6.0×10^{-10} 6.0×10^{-9}	Universal counter Oscilloscope Digital multimeter Measuring receiver / KRCMI-I-404-09 / KRCMI-I-404-23

404. Other DC & LF Measurements

Measured Quantity Instrument or Gauge	Field code	Range	Uncertainty of measurement (The Confidence Level is about 95 %)	Comments
Function generators	40411	(1 ~ 10) mV		
Output voltage		40 Hz ~ 20 kHz	1.8×10^{-3}	Universal counter
		20 kHz ~ 50 kHz	2.9×10^{-3}	Oscilloscope
		50 kHz ~ 100 kHz	6.6×10^{-3}	Digital multimeter
		100 kHz ~ 1 MHz	5.0×10^{-3}	Measuring receiver
		1 MHz ~ 10 MHz	3.0×10^{-2}	/ KRCMI-I-404-09
		(10 ~ 100) mV		/ KRCMI-I-404-23
		40 Hz ~ 10 kHz	6.0×10^{-4}	
		10 kHz ~ 50 kHz	7.0×10^{-4}	
		50 kHz ~ 100 kHz	9.0×10^{-4}	
		100 kHz ~ 1 MHz	4.4×10^{-3}	
		1 MHz ~ 10 MHz	2.1×10^{-2}	
		(0.1 ~ 1) V		
		10 mHz ~ 40 Hz	8.4×10^{-3}	
		40 Hz ~ 20 kHz	6.0×10^{-4}	
		20 kHz ~ 100 kHz	8.0×10^{-4}	
		100 kHz ~ 1 MHz	4.4×10^{-3}	
		1 MHz ~ 10 MHz	2.1×10^{-2}	
		(1 ~ 10) V		
		10 mHz ~ 40 Hz	8.3×10^{-3}	
		40 Hz ~ 20 kHz	6.0×10^{-4}	
		20 kHz ~ 100 kHz	7.0×10^{-4}	
		100 kHz ~ 1 MHz	4.4×10^{-3}	
		1 MHz ~ 10 MHz	2.1×10^{-2}	
		(10 ~ 60) V		
		10 mHz ~ 40 Hz	8.1×10^{-3}	
		40 Hz ~ 10 kHz	3.0×10^{-4}	
		10 kHz ~ 20 kHz	3.3×10^{-4}	
		20 kHz ~ 50 kHz	5.0×10^{-4}	
		50 kHz ~ 100 kHz	7.0×10^{-4}	
		100 kHz ~ 1 MHz	4.3×10^{-3}	
Level flatness		10 Hz ~ 10 kHz		
		(0.1 ~ 10) V	6.0×10^{-4}	
		10 kHz ~ 100 kHz		
		(0.1 ~ 10) V	8.0×10^{-4}	
		100 Hz ~ 250 MHz		
		(0 ~ -30) dBm	0.22 dB	
DC off set		(-20 ~ 20) V	6.0×10^{-4}	
Amplitude modulation		(0 ~ 100) %	1.7×10^{-2}	

404. Other DC & LF Measurements

Measured Quantity Instrument or Gauge	Field code	Range	Uncertainty of measurement (The Confidence Level is about 95 %)	Comments
Function generators Frequency modulation Phase modulation Level Rise time ,Fall time Sync TTL level Period	40411	1 Hz ~ 400 kHz 0 ° ~ 360 ° 10 Hz ~ 20 MHz (10 ~ -60) dBm (-60 ~ -80) dBm (20 ~ 100) MHz (10 ~ -60) dBm (-60 ~ -80) dBm 100 ps ~ 1 s (0.1 ~ 1) V (1 ~ 10) V (1 ~ 10) ns (10 ~ 100) ns (0.1 ~ 1) μs (1 ~ 10) μs 10 μs ~ 10 s	2.8×10^{-2} 0.073 ° 0.19 dB 0.59 dB 0.18 dB 0.59 dB 6.0×10^{-3} 9 mV 9.0×10^{-3} 6.0×10^{-4} 6.0×10^{-5} 6.0×10^{-6} 6.0×10^{-7} 6.0×10^{-8}	Universal counter Oscilloscope Digital multimeter Measuring receiver / KRCMI-I-404-09 / KRCMI-I-404-23
AC/DC high voltages volt meters DC Voltage AC Voltage	40413	0 kV ±(0 ~ 1) kV ±(1 ~ 5) kV ±(5 ~ 40) kV ±(40 ~ 200) kV (50 ~ 60) Hz 0.01 kV (0.01 ~ 1) kV (1 ~ 20) kV (20 ~ 200) kV	0.58 V 1.0×10^{-3} 6.0×10^{-4} 5.0×10^{-4} 1.0×10^{-3} 0.58 V 1.0×10^{-3} 1.2×10^{-3} 1.3×10^{-3}	Kilovolt Meter High voltage Digital Meter DC high voltage supply AC high voltage supply Digital Multimeter / KRCMI-I-404-10
LF Impulse generators Output Voltage Pulse width Impulse Time	40414	±(0 ~ 1) kV ±(1 ~ 10) kV ±(10 ~ 15) kV ±(15 ~ 30) kV 20 ns ~ 100 ms 20 ns ~ 100 ms	0.003 kV 3.0×10^{-3} 3.3×10^{-3} 3.5×10^{-3} 2.0×10^{-3} 2.0×10^{-3}	Oscilloscope High Voltage Probe Kilovolt Meter / KRCMI-I-404-20
Leakage current testers AC voltage	40416	40 Hz ~ 1 kHz 1 mV ~ 400 V	1.0×10^{-4}	Meter calibrator / KRCMI-I-404-12

404. Other DC & LF Measurements

Measured Quantity Instrument or Gauge	Field code	Range	Uncertainty of measurement (The Confidence Level is about 95 %)	Comments
Leakage current testers AC current	40416	40 Hz ~ 1 kHz (0.01 ~ 0.1) mA	1.0×10^{-3}	Meter calibrator / KRCMI-I-404-12
DC current		40 Hz ~ 1 kHz 0.1 mA ~ 1 A	1.0×10^{-4}	
Electronic AC/DC loads	40417	(0 ~ 100) mV	0.4 mV	Calibrator Transconductance Amplifier / KRCMI-I-404-13
DC Voltage		(0.1 ~ 1 000) V	2.0×10^{-6}	
DC Current		(0 ~ 1) mA	0.01 μ A	
		(1 ~ 10) mA	1.0×10^{-5}	
		10 mA ~ 1 A	2.0×10^{-5}	
		(1 ~ 10) A	1.0×10^{-4}	
		(10 ~ 100) A	2.0×10^{-4}	
		(100 ~ 200) A	3.0×10^{-4}	
AC Voltage		(200 ~ 600) A	2.5×10^{-4}	
		(600 ~ 1 000) A	2.4×10^{-4}	
		(50 ~ 60) Hz		
		(1 ~ 100) mV	5 μ V	
AC Current	(0.1 ~ 10) V	4.0×10^{-5}		
	(10 ~ 1 000) V	5.0×10^{-5}		
	(50 ~ 60) Hz			
	(0.1 ~ 1) mA	0.01 μ A		
Analogue/Digital multimeters	40419	(1 ~ 100) mA	1.0×10^{-4}	Meter Calibrator Standard Resistor set DECADE RESISTANCE BOX RUBIDIUM FREQUENCY STANDARD WAVEFORM GENERATOR / KRCMI-I-404-14
		(0.1 ~ 10) A	2.0×10^{-4}	
		(10 ~ 100) A	3.0×10^{-3}	
		$\pm(0 \sim 200)$ mV	0.20 μ V	
		$\pm(0.2 \sim 20)$ V	2.0×10^{-6}	
		$\pm(20 \sim 1\ 000)$ V	2.3×10^{-6}	
		(1 ~ 200) mV		
		10 Hz ~ 20 kHz	6 μ V	
		20 kHz ~ 100 kHz	8 μ V	
		100 kHz ~ 200 kHz	25 μ V	
200 kHz ~ 500 kHz	33 μ V			
500 kHz ~ 1 MHz	0.6 mV			
(0.2 ~ 2) V				
10 Hz ~ 20 kHz	6.0×10^{-5}			
20 kHz ~ 100 kHz	8.0×10^{-5}			

404. Other DC & LF Measurements

Measured Quantity Instrument or Gauge	Field code	Range	Uncertainty of measurement (The Confidence Level is about 95 %)	Comments
Analogue/Digital multimeters AC Voltage	40419	100 kHz ~ 200 kHz	2.5×10^{-4}	Meter Calibrator Standard Resistor set DECADE RESISTANCE BOX RUBIDIUM FREQUENCY STANDARD WAVEFORM GENERATOR / KRCMI-I-404-14
		200 kHz ~ 500 kHz	3.3×10^{-4}	
		500 kHz ~ 1 MHz	6.0×10^{-4}	
		(2 ~ 20) V		
		10 Hz ~ 50 kHz	5.0×10^{-5}	
		50 kHz ~ 100 kHz	6.0×10^{-5}	
		100 kHz ~ 200 kHz	1.0×10^{-4}	
		200 kHz ~ 500 kHz	1.6×10^{-4}	
		500 kHz ~ 1 MHz	2.6×10^{-4}	
		(20 ~ 200) V		
		10 Hz ~ 20 kHz	5.0×10^{-5}	
		20 kHz ~ 50 kHz	6.0×10^{-5}	
		50 kHz ~ 100 kHz	8.0×10^{-5}	
		(200 ~ 1 000) V		
		10 Hz ~ 20 kHz	5.0×10^{-5}	
DC Current		$\pm(0 \sim 200) \mu\text{A}$	1.8 nA	
		$\pm(0.2 \sim 2) \text{ mA}$	1.8×10^{-5}	
		$\pm(2 \sim 20) \text{ mA}$	1.3×10^{-5}	
		$\pm(20 \sim 200) \text{ mA}$	1.4×10^{-5}	
		$\pm(0.2 \sim 2) \text{ A}$	1.9×10^{-5}	
		$\pm(2 \sim 20) \text{ A}$	4.3×10^{-5}	
AC Current		(1 ~ 200) μA		
		10 Hz ~ 1 kHz	9 nA	
		(0.2 ~ 2) mA		
		10 Hz ~ 1 kHz	9.0×10^{-5}	
		1 kHz ~ 10 kHz	5.8×10^{-4}	
		(2 ~ 20) mA		
		10 Hz ~ 1 kHz	8.0×10^{-5}	
		1 kHz ~ 10 kHz	5.8×10^{-4}	
		(20 ~ 200) mA		
		10 Hz ~ 1 kHz	1.0×10^{-4}	
		1 kHz ~ 10 kHz	5.3×10^{-4}	
		(0.2 ~ 2) A		
		10 Hz ~ 1 kHz	1.4×10^{-4}	
		1 kHz ~ 10 kHz	9.9×10^{-4}	
	(2 ~ 20) A			
	10 Hz ~ 1 kHz	2.4×10^{-4}		
	1 kHz ~ 10 kHz	3.4×10^{-4}		

404. Other DC & LF Measurements

Measured Quantity Instrument or Gauge	Field code	Range	Uncertainty of measurement (The Confidence Level is about 95 %)	Comments
Analogue/Digital multimeters Resistance Frequency	40419	0 Ω ~ 1 Ω 1 Ω ~ 20 kΩ 20 kΩ ~ 200 kΩ 0.2 MΩ ~ 2 MΩ 2 MΩ ~ 20 MΩ 20 MΩ ~ 200 MΩ 200 MΩ ~ 2 GΩ 2 GΩ ~ 20 GΩ 10 Hz ~ 10 MHz	2.3 μΩ 2.4 × 10 ⁻⁶ 3.5 × 10 ⁻⁶ 4.0 × 10 ⁻⁶ 8.0 × 10 ⁻⁶ 1.7 × 10 ⁻⁵ 1.8 × 10 ⁻⁵ 1.1 × 10 ⁻³ 1.0 × 10 ⁻⁶	Meter Calibrator Standard Resistor set DECADE RESISTANCE BOX RUBIDIUM FREQUENCY STANDARD WAVEFORM GENERATOR / KRCMI-I-404-14
Noise meters Voltage Freq.Response Weighting Filters DIN/AUDIO DIN/NOISE JIS A CCIR CCIR/ARM	40420	1 kHz (0.3 ~ 1) mV (1 ~ 3) mV (3 ~ 10) mV (10 ~ 30) mV (30 ~ 100) mV (100 ~ 300) mV (0.3 ~ 1) V (1 ~ 3) V (3 ~ 10) V (10 ~ 30) V (30 ~ 100) V (100 ~ 300) V 10 Hz ~ 50 kHz (0.3 ~ 3) V 1 kHz, (0.3 ~ 1) V	9.1 × 10 ⁻³ 3.1 × 10 ⁻³ 1.1 × 10 ⁻³ 2.0 × 10 ⁻³ 4.0 × 10 ⁻⁴ 2.0 × 10 ⁻³ 6.0 × 10 ⁻⁴ 2.0 × 10 ⁻³ 6.0 × 10 ⁻⁴ 2.0 × 10 ⁻³ 6.0 × 10 ⁻⁴ 2.0 × 10 ⁻³ 6.0 × 10 ⁻³ 6.0 × 10 ⁻³ 6.0 × 10 ⁻³ 6.0 × 10 ⁻³ 6.0 × 10 ⁻³	Meter Calibrator / KRCMI-I-404-15
Oscilloscopes DC Voltage	40421	±(0 ~ 1) mV ±(1 ~ 2) mV ±(2 ~ 10) mV ±(10 ~ 20) mV ±(20 ~ 50) mV ±(50 ~ 100) mV ±(100 ~ 200) mV ±(200 ~ 500) mV ±(0.5 ~ 1) V ±(1 ~ 2) V ±(2 ~ 5) V	0.5 μV 2.5 × 10 ⁻⁴ 1.0 × 10 ⁻⁴ 5.0 × 10 ⁻⁵ 2.0 × 10 ⁻⁵ 1.0 × 10 ⁻⁴ 5.0 × 10 ⁻⁵ 2.0 × 10 ⁻⁵ 1.0 × 10 ⁻⁴ 5.0 × 10 ⁻⁵ 2.0 × 10 ⁻⁵	Calibration generator Leveled sine wave generator Digital multimeter Universal counter / KRCMI-I-404-16

404. Other DC & LF Measurements

Measured Quantity Instrument or Gauge	Field code	Range	Uncertainty of measurement (The Confidence Level is about 95 %)	Comments
Oscilloscopes	40421			Calibration generator Leveled sine wave generator Digital multimeter Universal counter / KRCMI-I-404-16
DC Voltage		±(5 ~ 10) V	1.0×10^{-4}	
		±(10 ~ 20) V	5.0×10^{-5}	
		±(20 ~ 50) V	2.0×10^{-5}	
		±(50 ~ 100) V	1.0×10^{-4}	
		±(100 ~ 200) V	5.0×10^{-5}	
Square wave voltage		(0.1 ~ 5) mV	1.6×10^{-3}	
		(5 ~ 10) mV	2.0×10^{-3}	
		(10 ~ 20) mV	1.5×10^{-3}	
		(20 ~ 50) mV	1.2×10^{-3}	
		(50 ~ 100) mV	1.0×10^{-3}	
		(100 ~ 200) mV	1.5×10^{-3}	
		(200 ~ 500) mV	1.2×10^{-3}	
		(0.5 ~ 1) V	1.0×10^{-3}	
		(1 ~ 2) V	1.5×10^{-3}	
		(2 ~ 5) V	1.2×10^{-3}	
		(5 ~ 20) V	1.0×10^{-3}	
		(20 ~ 100) V	1.2×10^{-3}	
Sine wave voltage		(1 ~ 200) mV		
		10 Hz ~ 20 kHz	6.0×10^{-5}	
		20 kHz ~ 100 kHz	8.0×10^{-5}	
		100 kHz ~ 200 kHz	2.5×10^{-4}	
		200 kHz ~ 500 kHz	3.3×10^{-4}	
		500 kHz ~ 1 MHz	6.0×10^{-4}	
		(0.2 ~ 2) V		
		10 Hz ~ 50 kHz	5.0×10^{-5}	
		50 kHz ~ 100 kHz	6.0×10^{-5}	
		100 kHz ~ 200 kHz	1.0×10^{-4}	
		200 kHz ~ 500 kHz	1.6×10^{-4}	
		500 kHz ~ 1 MHz	2.6×10^{-4}	
		(2 ~ 20) V		
		10 Hz ~ 50 kHz	5.0×10^{-5}	
		50 kHz ~ 100 kHz	6.0×10^{-5}	
		100 kHz ~ 200 kHz	1.0×10^{-4}	
		200 kHz ~ 500 kHz	1.5×10^{-4}	
		500 kHz ~ 1 MHz	2.2×10^{-4}	
		(20 ~ 200) V		
		10 Hz ~ 20 kHz	5.0×10^{-5}	
		20 kHz ~ 50 kHz	6.0×10^{-5}	
		50 kHz ~ 100 kHz	8.0×10^{-5}	

404. Other DC & LF Measurements

Measured Quantity Instrument or Gauge	Field code	Range	Uncertainty of measurement (The Confidence Level is about 95 %)	Comments		
Oscilloscopes	40421	Period	(0.1 ~ 1) ns	2.7×10^{-3}	Calibration generator Leveled sine wave generator Digital multimeter Universal counter / KRCMI-I-404-16	
		(1 ~ 2) ns	1.4×10^{-3}			
		(2 ~ 5) ns	5.4×10^{-4}			
		(5 ~ 10) ns	3.0×10^{-4}			
		(10 ~ 20) ns	1.5×10^{-4}			
		(20 ~ 50) ns	8.0×10^{-5}			
		(50 ~ 100) ns	1.0×10^{-4}			
		(100 ~ 200) ns	5.0×10^{-5}			
		(200 ~ 500) ns	6.0×10^{-5}			
		(0.5 ~ 1) μs	1.0×10^{-4}			
		(1 ~ 2) μs	5.0×10^{-5}			
		(2 ~ 5) μs	6.0×10^{-5}			
		(5 ~ 10) μs	1.0×10^{-4}			
		(10 ~ 20) μs	5.0×10^{-5}			
		(20 ~ 50) μs	6.0×10^{-5}			
		(50 ~ 100) μs	1.0×10^{-4}			
		(100 ~ 200) μs	5.0×10^{-5}			
		(200 ~ 500) μs	6.0×10^{-5}			
		(0.5 ~ 1) ms	1.0×10^{-4}			
		(1 ~ 2) ms	5.0×10^{-5}			
		(2 ~ 5) ms	6.0×10^{-5}			
		(5 ~ 10) ms	1.0×10^{-4}			
		(10 ~ 20) ms	5.0×10^{-5}			
		(20 ~ 50) ms	6.0×10^{-5}			
		(50 ~ 100) ms	1.0×10^{-4}			
		(100 ~ 200) ms	5.0×10^{-5}			
		(200 ~ 500) ms	6.0×10^{-5}			
		(0.5 ~ 1) s	1.0×10^{-4}			
		(1 ~ 2) s	5.0×10^{-5}			
		(2 ~ 5) s	6.0×10^{-5}			
		bandwidth	(0.1 ~ 1) V _{p-p}	2.2×10^{-2}		
			50 kHz ~ 100 MHz	3.7×10^{-2}		
	100 MHz ~ 500 MHz	4.8×10^{-2}				
	0.5 GHz ~ 1 GHz	5.7×10^{-2}				
CAL output amplitude	(0.1 ~ 10) V	1.0×10^{-5}				
Cal output Frequency	(0.1 ~ 10) kHz	1.0×10^{-5}				
Impedance	50 Ω	2.0×10^{-5}				
	1 MΩ	6.0×10^{-5}				
Random wave generator	40423	Frequency	(0.1 ~ 100) Hz	6.0×10^{-8}	Universal Counter Digital Multi Meter Measuring Receiver / KRCMI-I-404-24	
			100 Hz ~ 100 MHz	6.0×10^{-9}		
			100 MHz ~ 300 MHz	2.0×10^{-8}		

404. Other DC & LF Measurements

Measured Quantity Instrument or Gauge	Field code	Range	Uncertainty of measurement (The Confidence Level is about 95 %)	Comments
Random wave generator Level	40423	(1 ~ 100) mV 40 Hz ~ 10 kHz 10 kHz ~ 50 kHz 50 kHz ~ 100 kHz 0.1 MHz ~ 1 MHz 1 MHz ~ 30 MHz (0.1 ~ 1) V 40 Hz ~ 20 kHz 20 kHz ~ 100 kHz 0.1 MHz ~ 1 MHz 1 MHz ~ 30 MHz (1 ~ 10) V 40 Hz ~ 20 kHz 20 kHz ~ 100 kHz 0.1 MHz ~ 1 MHz 1 MHz ~ 30 MHz (10 ~ 30) V 40 Hz ~ 10 kHz 10 kHz ~ 20 kHz 20 kHz ~ 50 kHz 50 kHz ~ 100 kHz 0.1 MHz ~ 1 MHz 1 MHz ~ 30 MHz	 6.0×10^{-4} 7.0×10^{-4} 9.0×10^{-4} 4.4×10^{-3} 2.2×10^{-2} 6.0×10^{-4} 8.0×10^{-4} 4.4×10^{-3} 2.2×10^{-2} 6.0×10^{-4} 7.0×10^{-4} 4.4×10^{-3} 2.2×10^{-2} 2.0×10^{-4} 2.3×10^{-4} 4.0×10^{-4} 3.7×10^{-4} 4.3×10^{-3} 2.2×10^{-2}	Universal Counter Digital Multi Meter Measuring Receiver / KRCMI-I-404-24
Volt/Current recorders DC Voltage DC Current AC Voltage AC Current	40424	$\pm(0 \sim 100)$ mV $\pm(0.1 \sim 1\ 000)$ V (0 ~ 100) μ A 100 μ A ~ 20 A (20 ~ 100) A (100 ~ 500) A (500 ~ 1 000) A (1 000 ~ 2 000) A (0.1 ~ 100) mV 40 Hz ~ 10 kHz (0.1 ~ 1 000) V 40 Hz ~ 10 kHz (0.01 ~ 1) mA 40 Hz ~ 1 kHz 1 kHz ~ 10 kHz	 $1\ \mu$ V 1.0×10^{-4} 0.01 μ A 2.0×10^{-4} 1.0×10^{-3} 2.0×10^{-3} 3.0×10^{-3} 2.0×10^{-3} $5\ \mu$ V 1.0×10^{-4} 0.1 μ A 0.6 μ A	Meter Calibrator Turncoil / KRCMI-I-404-17

404. Other DC & LF Measurements

Measured Quantity Instrument or Gauge	Field code	Range	Uncertainty of measurement (The Confidence Level is about 95 %)	Comments
Volt/Current recorders AC Current	40424	(1 ~ 10) mA 40 Hz ~ 1 kHz 1 kHz ~ 10 kHz (10 ~ 100) mA 40 Hz ~ 1 kHz 1 kHz ~ 10 kHz (0.1 ~ 1) A 40 Hz ~ 1 kHz 1 kHz ~ 10 kHz (1 ~ 20) A 40 Hz ~ 1 kHz 1 kHz ~ 10 kHz 60 Hz (20 ~ 100) A (100 ~ 500) A (500 ~ 1 000) A (1 000 ~ 2 000) A	 1.0×10^{-4} 6.0×10^{-4} 1.0×10^{-4} 5.0×10^{-4} 2.0×10^{-4} 1.0×10^{-3} 3.0×10^{-4} 4.0×10^{-4} 3.0×10^{-3} 2.0×10^{-3} 1.5×10^{-2} 1.1×10^{-2}	Meter Calibrator Turncoil / KRCMI-I-404-17
Relay test sets Output DC voltage Output DC current Output AC voltage	40425	(0 ~ 100) mV (0.1 ~ 10) V (10 ~ 1 000) V (0 ~ 1) mA 1 mA ~ 1 A (1 ~ 10) A (10 ~ 100) A (100 ~ 150) A (150 ~ 200) A (200 ~ 250) A (250 ~ 300) A (300 ~ 350) A (350 ~ 400) A (400 ~ 450) A (450 ~ 500) A (500 ~ 550) A (550 ~ 600) A (600 ~ 700) A (700 ~ 850) A (850 ~ 1 000) A (1 ~ 100) mV 40 Hz 40 Hz ~ 1 kHz (0.1 ~ 100) V	 $1.0 \mu\text{V}$ 6.0×10^{-6} 8.0×10^{-6} $0.13 \mu\text{A}$ 1.3×10^{-4} 1.5×10^{-4} 2.2×10^{-4} 2.1×10^{-4} 3.6×10^{-4} 3.2×10^{-4} 3.0×10^{-4} 2.9×10^{-4} 2.8×10^{-4} 2.7×10^{-4} 2.6×10^{-4} 2.5×10^{-4} 2.7×10^{-4} 2.6×10^{-4} 2.5×10^{-4} 2.4×10^{-4} 2.1×10^{-4} 1.8×10^{-5}	Digital multimeter Meter calibrator Active shunt / KRCMI-I-404-18

404. Other DC & LF Measurements

Measured Quantity Instrument or Gauge	Field code	Range	Uncertainty of measurement (The Confidence Level is about 95 %)	Comments
Relay test sets	40425			Digital multimeter
Output AC voltage		40 Hz	1.2×10^{-4}	Meter calibrator
		40 Hz ~ 1 kHz	1.1×10^{-5}	Active shunt
		(100 ~ 1 000) V		/ KRCMI-I-404-18
		40 Hz ~ 1 kHz	1.3×10^{-5}	
Output AC Current		40 Hz ~ 1 kHz		
		1 mA ~ 1 A	1.3×10^{-3}	
		(1 ~ 10) A	1.4×10^{-3}	
		(10 ~ 100) A	3.7×10^{-4}	
		60 Hz		
		(100 ~ 200) A	2.5×10^{-4}	
		(200 ~ 300) A	2.2×10^{-4}	
		(300 ~ 400) A	2.1×10^{-4}	
		(400 ~ 500) A	6.4×10^{-4}	
		(500 ~ 600) A	5.5×10^{-4}	
		(600 ~ 700) A	4.9×10^{-4}	
		(700 ~ 800) A	4.4×10^{-4}	
		(800 ~ 900) A	4.0×10^{-4}	
		(900 ~ 1 000) A	3.7×10^{-4}	
		(1 000 ~ 1 500) A	2.9×10^{-4}	
		(1 500 ~ 2 000) A	2.5×10^{-4}	
		(2 000 ~ 2 500) A	4.0×10^{-4}	
		(2 500 ~ 3 000) A	3.3×10^{-4}	
		(3 000 ~ 3 500) A	3.1×10^{-4}	
		(3 500 ~ 4 000) A	3.0×10^{-4}	
		(4 ~ 19) kA	1.1×10^{-2}	
Input DC Voltage		(0 ~ 100) mV	0.1 mV	
		(0.1 ~ 1) V	1.0×10^{-3}	
		(1 ~ 1 000) V	1.0×10^{-4}	
Input AC Voltage		1 mV ~ 1 V		
		40 Hz ~ 1 kHz	1.0×10^{-3}	
		(1 ~ 1 000) V		
		40 Hz ~ 1 kHz	1.0×10^{-4}	
Input DC current		(0 ~ 100) mA	0.1 mA	
		(0.1 ~ 1) A	1.0×10^{-3}	
		(1 ~ 10) A	1.0×10^{-4}	
		(10 ~ 100) A	2.4×10^{-4}	
Input AC current		1 mA ~ 1 A		
		40 Hz ~ 1 kHz	1.0×10^{-3}	
		(1 ~ 10) A		
		40 Hz ~ 1 kHz	4.0×10^{-4}	

404. Other DC & LF Measurements

Measured Quantity Instrument or Gauge	Field code	Range	Uncertainty of measurement (The Confidence Level is about 95 %)	Comments	
Relay test sets Input AC current	40425	(10 ~ 100) A 40 Hz ~ 400 Hz	1.8×10^{-3}	Digital multimeter Meter calibrator Active shunt / KRCMI-I-404-18	
Time interval		1 ms ~ 100 s	6.0×10^{-5}		
LF signal generators Frequency	40426	0.01 Hz ~ 500 MHz	6.0×10^{-9}	Universal Counter True RMS Volt meter Selective Level Meter Oscilloscope / KRCMI-I-404-19	
Output Voltage		(1 ~ 100) mV			
		40 Hz ~ 10 kHz	2.1×10^{-4}		
		10 kHz ~ 20 kHz	4.0×10^{-4}		
		20 kHz ~ 50 kHz	4.5×10^{-4}		
		50 kHz ~ 100 kHz	7.5×10^{-4}		
		0.1 MHz ~ 1 MHz	4.4×10^{-3}		
		1 MHz ~ 10 MHz	2.2×10^{-2}		
		(0.1 ~ 1) V			
		40 Hz ~ 20 kHz	6.0×10^{-4}		
		20 kHz ~ 100 kHz	8.0×10^{-4}		
		0.1 MHz ~ 1 MHz	4.4×10^{-3}		
		1 MHz ~ 10 MHz	2.2×10^{-2}		
		(1 ~ 10) V			
40 Hz ~ 20 kHz		6.0×10^{-4}			
20 kHz ~ 100 kHz		7.0×10^{-4}			
0.1 MHz ~ 1 MHz		4.4×10^{-3}			
1 MHz ~ 10 MHz		2.2×10^{-2}			
(10 ~ 30) V					
40 Hz ~ 10 kHz		2.0×10^{-4}			
10 kHz ~ 20 kHz		2.3×10^{-4}			
20 kHz ~ 100 kHz		3.7×10^{-4}			
0.1 MHz ~ 1 MHz		4.4×10^{-3}			
(30 ~ 300) V					
40 Hz ~ 20 kHz	6.0×10^{-4}				
20 kHz ~ 100 kHz	7.0×10^{-4}				
Frequency Response	10 Hz ~ 100 kHz (0.1 ~ 10) V	5.0×10^{-4}			
Attenuator	100 Hz ~ 30 MHz (10 ~ -30) dB	0.08 dB			
	10 Hz ~ 10 MHz (0 ~ 60) dB	0.08 dB			
Rise Time , Fall Time	100 ps ~ 1 ms	1.0×10^{-3}			

404. Other DC & LF Measurements

Measured Quantity Instrument or Gauge	Field code	Range	Uncertainty of measurement (The Confidence Level is about 95 %)	Comments	
Sweep generators	40429	Frequency	1 mHz ~ 10 MHz	6.0×10^{-9}	Digital Multimeter Universal Counter True RMS Volt Meter / KRCMI-I-404-25
Output Voltage		(1 ~ 100) mV			
		40 Hz ~ 10 kHz	2.1×10^{-4}		
		10 kHz ~ 20 kHz	4.0×10^{-4}		
		20 kHz ~ 50 kHz	4.5×10^{-4}		
		50 kHz ~ 100 kHz	7.5×10^{-4}		
		0.1 MHz ~ 1 MHz	4.4×10^{-3}		
		1 MHz ~ 10 MHz	2.2×10^{-2}		
		(0.1 ~ 1) V			
		40 Hz ~ 20 kHz	6.0×10^{-4}		
		20 kHz ~ 100 kHz	8.0×10^{-4}		
		0.1 MHz ~ 1 MHz	4.4×10^{-3}		
		1 MHz ~ 10 MHz	2.2×10^{-2}		
		(1 ~ 10) V			
		40 Hz ~ 20 kHz	6.0×10^{-4}		
	20 kHz ~ 100 kHz	7.0×10^{-4}			
	0.1 MHz ~ 1 MHz	4.4×10^{-3}			
	1 MHz ~ 10 MHz	2.2×10^{-2}			
	(10 ~ 30) V				
	40 Hz ~ 10 kHz	2.0×10^{-4}			
	10 kHz ~ 20 kHz	2.3×10^{-4}			
	20 kHz ~ 100 kHz	3.7×10^{-4}			
	0.1 MHz ~ 1 MHz	4.4×10^{-3}			
output level flatness		10 Hz ~ 100 kHz			
		(0.1 ~ 10) V	5.9×10^{-4}		
		100 kHz ~ 10 MHz			
		(0 ~ -30) dB	0.08 dB		
Level		10 Hz ~ 10 MHz			
		(10 ~ -60) dBm	0.18 dB		
		(-60 ~ -80) dBm	0.59 dB		
Signal transducers	40430	DC Voltage	(0 ~ 100) mV	1 μ V	Digital Multimeter Meter Calibrator / KRCMI-I-404-26
			(0.1 ~ 1 000) V	1.0×10^{-5}	
AC Voltage		(1 ~ 100) mV			
		40 Hz	2.0×10^{-4}		
		40 Hz ~ 1 kHz	1.7×10^{-4}		
		1 kHz ~ 10 kHz	2.0×10^{-4}		
	10 kHz ~ 20 kHz	3.9×10^{-4}			

404. Other DC & LF Measurements

Measured Quantity Instrument or Gauge	Field code	Range	Uncertainty of measurement (The Confidence Level is about 95 %)	Comments
Signal transducers	40430			Digital Multimeter Meter Calibrator / KRCMI-I-404-26
AC Voltage		20 kHz ~ 50 kHz	7.5×10^{-4}	
		50 kHz ~ 100 kHz	9.6×10^{-4}	
		(0.1 ~ 10) V		
		40 Hz	1.1×10^{-4}	
		40 Hz ~ 1 kHz	9.0×10^{-5}	
		1 kHz ~ 10 kHz	1.1×10^{-4}	
		10 kHz ~ 20 kHz	1.8×10^{-4}	
		20 kHz ~ 50 kHz	5.3×10^{-4}	
		50 kHz ~ 100 kHz	5.4×10^{-4}	
		(10 ~ 100) V		
		40 Hz	1.1×10^{-4}	
		40 Hz ~ 1 kHz	9.0×10^{-5}	
		1 kHz ~ 10 kHz	1.1×10^{-4}	
		10 kHz ~ 20 kHz	1.8×10^{-4}	
		20 kHz ~ 50 kHz	5.3×10^{-4}	
		50 kHz ~ 100 kHz	5.5×10^{-4}	
		(100 ~ 1 000) V		
		40 Hz ~ 10 kHz	1.1×10^{-4}	
		10 kHz ~ 20 kHz	2.1×10^{-4}	
DC Current		(0 ~ 100) μ A	4 μ A	
		(0.1 ~ 10) mA	3.0×10^{-5}	
		(10 ~ 100) mA	5.0×10^{-5}	
		(0.1 ~ 1) A	1.1×10^{-4}	
		(1 ~ 10) A	2.8×10^{-4}	
AC Current		(0.001 ~ 1) mA		
		40 Hz ~ 1 kHz	4.9×10^{-4}	
		1 kHz ~ 10 kHz	1.7×10^{-3}	
		(1 ~ 10) mA		
		40 Hz ~ 1 kHz	4.9×10^{-4}	
		1 kHz ~ 10 kHz	1.5×10^{-3}	
		(10 ~ 100) mA		
		40 Hz ~ 1 kHz	4.9×10^{-4}	
		1 kHz ~ 10 kHz	1.2×10^{-3}	
		(0.1 ~ 1) A		
		40 Hz ~ 1 kHz	8.7×10^{-4}	
		1 kHz ~ 10 kHz	6.9×10^{-3}	
		(1 ~ 10) A		
		40 Hz ~ 1 kHz	1.2×10^{-3}	
		1 kHz ~ 10 kHz	2.6×10^{-3}	

404. Other DC & LF Measurements

Measured Quantity Instrument or Gauge	Field code	Range	Uncertainty of measurement (The Confidence Level is about 95 %)	Comments
Signal transducers Output Frequency	40430	1 Hz ~ 20 kHz	1.0×10^{-6}	Digital Multimeter Meter Calibrator / KRCMI-I-404-26
AC/DC high voltage generators DC Voltage AC Voltage	40434	0 kV $\pm(0 \sim 1)$ kV $\pm(1 \sim 5)$ kV $\pm(5 \sim 20)$ kV $\pm(20 \sim 200)$ kV (50 ~ 60) Hz 0.1 kV (0.1 ~ 1) kV (1 ~ 10) kV (10 ~ 200) kV	0.6 V 1.0×10^{-3} 6.0×10^{-4} 5.0×10^{-4} 1.0×10^{-3} 0.6 V 1.0×10^{-3} 1.2×10^{-3} 1.3×10^{-3}	Kilovolt Meter High voltage Digital Meter Digital Multimeter / KRCMI-I-401-11
AC/DC high voltage probes DC Voltage AC Voltage Ratio	40435	0 kV $\pm(0 \sim 1)$ kV $\pm(1 \sim 5)$ kV $\pm(5 \sim 40)$ kV $\pm(40 \sim 200)$ kV (50 ~ 60) Hz 0.01 kV (0.01 ~ 1) kV (1 ~ 20) kV (20 ~ 200) kV DC $\pm(0.01 \sim 1)$ kV (10 ~ 10 000) : 1 $\pm(1 \sim 200)$ kV (1 000 ~ 10 000) : 1 AC (40 Hz ~ 100 kHz) (0.01 ~ 1) kV (10 ~ 10 000) : 1 (50 ~ 60) Hz (1 ~ 200) kV (1 000 ~ 10 000) : 1	2 V 1.0×10^{-3} 6.0×10^{-4} 5.0×10^{-4} 1.0×10^{-3} 1 V 6.0×10^{-4} 1.2×10^{-3} 1.3×10^{-3} 6.5×10^{-5} 9.2×10^{-4} 7.5×10^{-4} 1.2×10^{-3}	Kilovolt Meter High voltage Digital Meter DC high voltage supply AC high voltage supply Digital Multimeter / KRCMI-I-401-08
Logic analyzers Voltage Time	40436	(0.01 ~ 1) V (1 ~ 10) V 1 ns ~ 5 s	6.0×10^{-4} 6.0×10^{-5} 6.0×10^{-5}	Meter calibrator / KRCMI-I-404-30 Calibration Generator / KRCMI-I-404-28

404. Other DC & LF Measurements

Measured Quantity Instrument or Gauge	Field code	Range	Uncertainty of measurement (The Confidence Level is about 95 %)	Comments
Telephone testers	40437			Selective level meter Digital multimeter Universal counter / KRCMI-I-404-31
Bell ring frequency		(15 ~ 1 000) Hz	4.0×10^{-4}	
Bell ring voltage		(10 ~ 100) V (100 ~ 150) V	6.0×10^{-4} 6.6×10^{-4}	
Line output voltage		48 V	1.3×10^{-4}	
Receiving frequency		400 Hz	1.5×10^{-4}	
Level	(-50 ~ 10) dBm	0.09 dB		
Video signal analyzers	40438			Video Measurement Set Signal Generation Platform Universal Counter / KRCMI-I-406-29 / KRCMI-I-406-30
Vector scopes				
Amplitude (NTSC/PAL)		(0 ~ 1) V_{p-p}	1.6×10^{-2}	
Phase		0 ° ~ 360 °	1.3 °	
Frequency		(3 ~ 5) MHz	1.3×10^{-7}	
Video signal monitors				
Frequency	50 kHz ~ 5 MHz	1.2×10^{-6}		
Amplitude (NTSC/PAL)	(0 ~ 1) V_{p-p}	1.5×10^{-2}		

406. RF Measurements

Measured Quantity Instrument or Gauge	Field code	Range	Uncertainty of measurement (The Confidence Level is about 95 %)	Comments
RF amplifiers Amplitude gain	40601	(0 ~ 30) dB 9 kHz ~ 1 GHz (1 ~ 5) GHz (5 ~ 10) GHz (10 ~ 12) GHz (12 ~ 18) GHz (30 ~ 60) dB 9 kHz ~ 1 GHz (1 ~ 9) GHz (9 ~ 14) GHz (14 ~ 18) GHz	0.09 dB 0.10 dB 0.12 dB 0.14 dB 0.18 dB 0.19 dB 0.22 dB 0.24 dB 0.25 dB	Syntesizer Sweeper Power Meter Power Sensor Attenuator Set Network Analyzer Calibration Kit / KRCMI-I-406-14
Coaxial attenuators Attenuation	40602	100 kHz ~ 1 GHz (0 ~ 10) dB (10 ~ 30) dB (30 ~ 60) dB (60 ~ 120) dB (1 ~ 5) GHz (0 ~ 10) dB (10 ~ 30) dB (30 ~ 60) dB (60 ~ 120) dB (5 ~ 10) GHz (0 ~ 10) dB (10 ~ 30) dB (30 ~ 60) dB (60 ~ 120) dB (10 ~ 18) GHz (0 ~ 10) dB (10 ~ 30) dB (30 ~ 60) dB (60 ~ 120) dB (10 ~ 18) GHz (0 ~ 10) dB (10 ~ 30) dB (30 ~ 60) dB (60 ~ 120) dB	0.10 dB 0.12 dB 0.16 dB 0.19 dB 0.10 dB 0.12 dB 0.16 dB 0.24 dB 0.11 dB 0.14 dB 0.16 dB 0.28 dB 0.15 dB 0.16 dB 0.23 dB 0.33 dB	Syntesizer Sweeper Attenuator Set Power Meter Power Sensor Directional Bridge Dual Directional Coupler Network Analyzer Calibration Kit Microwave Converter Sensor Module Measuring Receiver / KRCMI-I-406-01
Burst pulse generator Voltage Rise / Fall Time	40605	(±) Open Circuit (10 ~ 500) V (0.5 ~ 4.8) kV 50 Ω (25 ~ 500) V (0.5 ~ 2.4) kV 1 000 Ω (25 ~ 500) V (0.5 ~ 4.57) kV (1 ~ 5) ns (5 ~ 10) ns	2.6×10^{-2} 2.6×10^{-2} 3.0×10^{-2} 3.0×10^{-2} 3.0×10^{-2} 3.0×10^{-2} 3.0×10^{-2} 1.6×10^{-2} 3.6×10^{-3}	Digitizing Oscilloscope High Voltage Probe Attenuator Set / KRCMI-I-406-25

406. RF Measurements

Measured Quantity Instrument or Gauge	Field code	Range	Uncertainty of measurement (The Confidence Level is about 95 %)	Comments
Burst pulse generator Pulse Width Burst Duration Repetition rate Burst Period Oscillation frequency	40605	(10 ~ 50) ns (50 ~ 200) ns (5 ~ 20) ms (40 ~ 60) ms (10 ~ 300) μs (50 ~ 100) ms (100 ~ 400) ms (0.09 ~ 0.1) MHz (0.1 ~ 40) MHz	5.2×10^{-3} 4.6×10^{-3} 3.4×10^{-3} 3.6×10^{-3} 4.7×10^{-3} 3.5×10^{-3} 4.0×10^{-3} 4.9×10^{-3} 5.0×10^{-3}	Digitizing Oscilloscope High Voltage Probe Attenuator Set / KRCMI-I-406-25
RF power meter calibrators	40607	3 μW 10 μW 30 μW 100 μW 300 μW 1 mW 3 mW 10 mW 30 mW 100 mW	0.18 nW 0.41 nW 1.8 nW 3.2 nW 18 nW 0.12 μW 0.20 μW 0.80 μW 1.6 μW 11 μW	Power Meter Power Sensor Digital Multimeter / KRCMI-I-406-15
Coaxial directional couplers/ splitters	40610	(0 ~ 20) dB 9 kHz ~ 18 GHz (20 ~ 40) dB 9 kHz ~ 15 GHz (15 ~ 18) GHz (40 ~ 50) dB 9 kHz ~ 10 GHz (10 ~ 18) GHz (50 ~ 64) dB (10 ~ 100) MHz (0.1 ~ 18) GHz	0.06 dB 0.08 dB 0.09 dB 0.16 dB 0.18 dB 0.65 dB 0.72 dB	Network Analyzer Calibration Kit / KRCMI-I-406-16
Electrostatic discharge generators Peak Current T1 Current (30 ~ 65) ns T1 Current (180 ~ 400) ns	40613	(±) (1 ~ 22.5) A (22.5 ~ 52.5) A (52.5 ~ 120) A (±) (1 ~ 2) A (2 ~ 12) A (12 ~ 20) A (20 ~ 80) A (±) (0.20 ~ 1.10) A (1.10 ~ 1.65) A	2.9×10^{-2} 2.9×10^{-2} 2.9×10^{-2} 3.3×10^{-2} 3.2×10^{-2} 3.1×10^{-2} 3.0×10^{-2} 1.1×10^{-1} 7.9×10^{-2}	Oscilloscope ESD Target System High Voltage Probe / KRCMI-I-406-27

406. RF Measurements

Measured Quantity Instrument or Gauge	Field code	Range	Uncertainty of measurement (The Confidence Level is about 95 %)	Comments
Electrostatic discharge generators T1 Current (180 ~ 400) ns	40613	±(1.65 ~ 3.30) A	6.2×10^{-2}	Oscilloscope ESD Target System High Voltage Probe / KRCMI-I-406-27
		±(3.30~ 4.13) A	5.5×10^{-2}	
		±(4.13~ 10.0) A	6.2×10^{-2}	
T2 Current (60 ~ 130) ns		(±)		
		(0.5 ~ 6) A	4.3×10^{-2}	
		(6 ~ 8) A	3.4×10^{-2}	
		(8 ~ 25) A	3.2×10^{-2}	
		(25 ~ 35) A	3.0×10^{-2}	
T2 Current (360 ~ 800) ns		(±)		
		(0.1 ~ 0.6) A	2.2×10^{-1}	
	(0.6 ~ 1.8) A	1.5×10^{-1}		
	(1.8 ~ 2.25) A	6.9×10^{-2}		
	(2.25 ~ 5.2) A	1.1×10^{-1}		
Rise Time	(±)			
	(2 ~ 30) kV			
	(0.6 ~ 1) ns	2.7×10^{-3}		
Discharge Voltage	(±)			
	(0.1 ~ 12) kV	4.2×10^{-3}		
	(12 ~ 30) kV	4.3×10^{-3}		
EMC receivers Input Level	40614	100 kHz ~ 10 MHz		Synthesizer Sweeper Power Meter Power Sensor Attenuator Set Network Analyzer Calibration Kit Microwave Converter Sensor Module Pulse/CW Micro. Counter Synthesized CW Generator / KRCMI-I-406-17
		(-70 ~ 15) dBm	0.10 dB	
		(-100 ~ -70) dBm	0.11 dB	
		(-110 ~ -100) dBm	0.15 dB	
		(-120 ~ -110) dBm	0.20 dB	
		10 MHz ~ 1 GHz		
		(-30 ~ 15) dBm	0.10 dB	
		(-80 ~ -30) dBm	0.11 dB	
		(-100 ~ -80) dBm	0.12 dB	
		(-110 ~ -100) dBm	0.15 dB	
		(-120 ~ -110) dBm	0.20 dB	
		(1 ~ 5) GHz		
		(-10 ~ 15) dBm	0.11 dB	
		(-80 ~ -10) dBm	0.12 dB	
		(-100 ~ -80) dBm	0.13 dB	
		(5 ~ 10) GHz		
		(-10 ~ 15) dBm	0.11 dB	
		(-80 ~ -10) dBm	0.12 dB	
		(-100 ~ -80) dBm	0.13 dB	
		(10 ~ 15) GHz		
	(-70 ~ 15) dBm	0.13 dB		
	(-100 ~ -70) dBm	0.14 dB		
	(15 ~ 18) GHz			
	(-10 ~ 15) dBm	0.13 dB		

406. RF Measurements

Measured Quantity Instrument or Gauge	Field code	Range	Uncertainty of measurement (The Confidence Level is about 95 %)	Comments
EMC receivers Input Level Output Level Frequency	40614	(-80 ~ -10) dBm (-100 ~ -80) dBm 100 kHz ~ 10 MHz (-50 ~ 15) dBm (-90 ~ -50) dBm (-100 ~ -90) dBm (-110 ~ -100) dBm (-120 ~ -110) dBm 10 MHz ~ 1 GHz (-50 ~ -15) dBm (-90 ~ -50) dBm (-100 ~ -90) dBm (-110 ~ -100) dBm (-120 ~ -110) dBm (1 ~ 5) GHz (-20 ~ 15) dBm (-70 ~ -20) dBm (-100 ~ -70) dBm (5 ~ 10) GHz (-20 ~ 15) dBm (-70 ~ -20) dBm (-100 ~ -70) dBm (10 ~ 15) GHz (-40 ~ 15) dBm (-90 ~ -40) dBm (-100 ~ -90) dBm (15 ~ 18) GHz (-10 ~ 15) dBm (-80 ~ -10) dBm (-100 ~ -80) dBm	0.14 dB 0.15 dB 0.07 dB 0.08 dB 0.09 dB 0.13 dB 0.18 dB 0.07 dB 0.08 dB 0.09 dB 0.13 dB 0.18 dB 0.08 dB 0.09 dB 0.10 dB 0.08 dB 0.09 dB 0.10 dB 0.10 dB 0.11 dB 0.12 dB 0.10 dB 0.11 dB 0.12 dB	Syntesizer Sweeper Power Meter Power Sensor Attenuator Set Network Analyzer Calibration Kit Microwave Converter Sensor Module Pulse/CW Micro. Counter Synthesized CW Generator / KRCMI-I-406-17
RF filters Cut-off frequency Insertion loss	40615	9 kHz ~ 60 MHz (0.06 ~ 7) GHz (7 ~ 18) GHz 9 kHz ~ 1 GHz (1 ~ 6) GHz (6 ~ 18) GHz	4.0×10^{-6} 7.0×10^{-7} 1.7×10^{-7} 0.06 dB 0.07 dB 0.08 dB	Network Analyzer Calibration Kit / KRCMI-I-406-18
RF impedance meters VSWR	40616	1.0 (0.05 ~ 1) GHz (1 ~ 12) GHz (12 ~ 18) GHz	0.059 0.062 0.096	Network Analyzer Calibration Kit Pulse/CW Micro. Counter Power Meter Power Sensor Spectrum Analyzer Mismatch Set / KRCMI-I-406-19

406. RF Measurements

Measured Quantity Instrument or Gauge	Field code	Range	Uncertainty of measurement (The Confidence Level is about 95 %)	Comments
RF impedance meters VSWR Output Level Frequency	40616	1.2 (0.05 ~ 1) GHz (1 ~ 6) GHz (6 ~ 12) GHz (12 ~ 18) GHz 1.5 (0.05 ~ 3) GHz (3 ~ 12) GHz (12 ~ 18) GHz 2.0 (0.05 ~ 1) GHz (1 ~ 12) GHz (12 ~ 18) GHz (-30 ~ 10) dBm (0.01 ~ 1) GHz (1 ~ 10) GHz (10 ~ 18) GHz 1 MHz ~ 18 GHz	0.071 0.074 0.085 0.12 0.095 0.11 0.20 0.14 0.16 0.27 0.08 dB 0.09 dB 0.12 dB 6.1×10^{-9}	Network Analyzer Calibration Kit Pulse/CW Micro. Counter Power Meter Power Sensor Spectrum Analyzer Mismatch Set / KRCMI-I-406-19
Coaxial standard mismatches VSWR	40619	1.0 ~ 1.2 (0.05 ~ 2) GHz (2 ~ 7) GHz (7 ~ 18) GHz 1.2 ~ 1.5 (0.05 ~ 2) GHz (2 ~ 7) GHz (7 ~ 18) GHz 1.5 ~ 2.0 (0.05 ~ 2) GHz (2 ~ 8) GHz (8 ~ 18) GHz	1.6×10^{-2} 3.0×10^{-2} 3.1×10^{-2} 1.8×10^{-2} 3.1×10^{-2} 3.4×10^{-2} 2.1×10^{-2} 3.8×10^{-2} 4.1×10^{-2}	Calibration Kit / KRCMI-I-406-20
Mobile communication test sets Frequency Output Level	40621	20 Hz ~ 25 kHz 100 kHz ~ 6 GHz 100 kHz ~ 1 GHz (-10 ~ 20) dBm (-40 ~ -10) dBm (-80 ~ -40) dBm (-110 ~ -80) dBm (-127 ~ -110) dBm 1 GHz ~ 6 GHz (-10 ~ 20) dBm	6.1×10^{-8} 6.4×10^{-10} 0.18 dB 0.25 dB 0.30 dB 0.34 dB 0.36 dB 0.20 dB	Power Splitter Measuring Receiver Microwave Converter Sensor Module Digital Multimeter Audio Analyzer Spectrum Analyzer Signal Generator Universal Counter Dual Directional Coupler / KRCMI-I-406-02

406. RF Measurements

Measured Quantity Instrument or Gauge	Field code	Range	Uncertainty of measurement (The Confidence Level is about 95 %)	Comments		
Mobile communication test sets Output Level	40621	(-40 ~ -10) dBm	0.26 dB	Power Splitter Measuring Receiver Microwave Converter Sensor Module Digital Multimeter Audio Analyzer Spectrum Analyzer Signal Generator Universal Counter Dual Directional Coupler / KRCMI-I-406-02		
		(-80 ~ -40) dBm	0.30 dB			
		(-110 ~ -80) dBm	0.35 dB			
		(-127 ~ -110) dBm	0.37 dB			
Level Flatness		100 kHz ~ 6 GHz (-30 ~ 0) dBm	0.18 dB			
Frequency Modulation		(1 ~ 100) kHz	2.4×10^{-2}			
Amplitude Modulation		(1 ~ 100) %	2.4×10^{-2}			
Output AC Level		10 Hz ~ 25 kHz (10 ~ 100) mV (0.1 ~ 1) V (1 ~ 10) V	1.0×10^{-3} 9.9×10^{-4} 7.5×10^{-4}			
Input AC Level		10 Hz ~ 25 kHz 10 mV ~ 10 V	6.1×10^{-4}			
Output DC Level		(0.1 ~ 10) V	6.9×10^{-5}			
Input DC level	(0.1 ~ 10) V	6.1×10^{-4}				
Input Level	100 kHz ~ 6 GHz (-20 ~ 10) dBm (-40 ~ -20) dBm (-80 ~ -40) dBm	0.19 dB 0.25 dB 0.30 dB				
Modulation meters AM	40622	150 kHz ~ 1.3 GHz 1 % (1 ~ 20) % (20 ~ 40) % (40 ~ 60) % (60 ~ 80) % (80 ~ 100) %	0.01 % 0.28 % 0.57 % 0.84 % 1.1 % 1.4 %	Audio Analyzer Synthesizer Sweeper Synthesized CW Generator Power Meter Power Sensor AM/FM Test Source Network Analyzer Calibration Kit Microwave Converter Sensor Module Power Splitter / KRCMI-I-406-21		
FM		150 kHz ~ 1.3 GHz 1 kHz (1 ~ 100) kHz	1.0×10^{-2} 1.4×10^{-2}			
PM		150 kHz ~ 1.3 GHz (1 ~ 100) rad	1.4×10^{-2}			
Network analyzers Frequency		40623	10 Hz ~ 1 kHz		5.8×10^{-8}	Universal Counter Power Meter Power Sensor Calibration Kit Measuring Receiver Microwave Converter
			1 kHz ~ 10 MHz		5.8×10^{-9}	
			10 MHz ~ 18 GHz		8.2×10^{-10}	

406. RF Measurements

Measured Quantity Instrument or Gauge	Field code	Range	Uncertainty of measurement (The Confidence Level is about 95 %)	Comments
Network analyzers	40623	-60 dBm ~ 20 dBm		Sensor Module Spectrum Analyzer Attenuator Set / KRCMI-I-406-03
Output level accuracy & linearity		10 Hz ~ 10 kHz	0.05 dB	
		10 kHz ~ 100 MHz	0.10 dB	
		100 MHz ~ 1 GHz	0.11 dB	
		1 GHz ~ 5 GHz	0.16 dB	
		5 GHz ~ 10 GHz	0.17 dB	
		10 GHz ~ 15 GHz	0.18 dB	
		15 GHz ~ 18 GHz	0.21 dB	
Output level flatness		-40 dBm ~ 0 dBm		
		10 Hz ~ 10 kHz	0.04 dB	
		10 kHz ~ 100 MHz	0.10 dB	
		100 MHz ~ 1 GHz	0.11 dB	
		1 GHz ~ 5 GHz	0.14 dB	
		5 GHz ~ 10 GHz	0.15 dB	
		10 GHz ~ 15 GHz	0.18 dB	
		15 GHz ~ 18 GHz	0.21 dB	
Dynamic range accuracy		100 kHz ~ 18 GHz		
		0 dB ~ 20 dB	0.04 dB	
		20 dB ~ 40 dB	0.05 dB	
		40 dB ~ 60 dB	0.06 dB	
		60 dB ~ 70 dB	0.07 dB	
		70 dB ~ 90 dB	0.08 dB	
		90 dB ~ 100 dB	0.09 dB	
SWR		1.0		
		DC ~ 1 GHz	0.012	
		1 GHz ~ 6 GHz	0.021	
		6 GHz ~ 12 GHz	0.023	
		12 GHz ~ 18 GHz	0.024	
	1.2			
	DC ~ 1 GHz	0.016		
	1 GHz ~ 9 GHz	0.027		
	9 GHz ~ 12 GHz	0.028		
	12 GHz ~ 15 GHz	0.025		
	15 GHz ~ 18 GHz	0.026		
	1.5			
	DC ~ 1 GHz	0.023		
	1 GHz ~ 6 GHz	0.042		
	6 GHz ~ 9 GHz	0.044		
	9 GHz ~ 12 GHz	0.047		
	12 GHz ~ 15 GHz	0.046		
	15 GHz ~ 18 GHz	0.050		
	2.0			
	DC ~ 1 GHz	0.039		

406. RF Measurements

Measured Quantity Instrument or Gauge	Field code	Range	Uncertainty of measurement (The Confidence Level is about 95 %)	Comments
Network analyzers SWR	40623	1 GHz ~ 6 GHz 6 GHz ~ 9 GHz 9 GHz ~ 12 GHz 12 GHz ~ 15 GHz 15 GHz ~ 18 GHz	0.070 0.075 0.073 0.069 0.090	Measuring Receiver Microwave Converter Sensor Module Spectrum Analyzer Attenuator Set / KRCMI-I-406-03
Noise figure meters Reference Frequency Input SWR Noise figure Supply Voltage	40624	10 MHz 10 MHz ~ 12 GHz 12 GHz ~ 18 GHz 10 MHz ~ 6 GHz 6 GHz ~ 18 GHz (0 ~ 30) V	6.4×10^{-10} 0.07 0.11 0.47 dB 0.48 dB 0.001 4 V	Network Analyzer Noise Source Digital Multimeter Universal Counter / KRCMI-I-406-28
Noise impulse simulators Pulse Voltage Pulse Width Rise Time	40626	\pm (0.01 ~ 5) Kv 50 ns ~ 1 ms (0.1 ~ 100) ns	2.8×10^{-2} 3.5×10^{-3} 4.6×10^{-3}	High Voltage Probe Oscilloscope / KRCMI-I-406-04
RF power meters Power Reference Power	40635	3 μ W ~ 100 mW 1 mW	2.5×10^{-3} 5.6×10^{-3}	Range Calibrator Thermistor Mount Power Meter, Power Sensor Digital Multimeter / KRCMI-I-406-05
Diode power sensors	40636	(3 μ W ~ 100 mW) 9 kHz ~ 1 GHz 1 GHz ~ 6 GHz 6 GHz ~ 12 GHz 12 GHz ~ 15 GHz 15 GHz ~ 18 GHz	1.5×10^{-2} 1.8×10^{-2} 2.1×10^{-2} 2.2×10^{-2} 2.6×10^{-2}	Power Meter Synthesized Sweeper Dual Directional Coupler / KRCMI-I-406-06
Thermocouple power sensors	40637	(3 μ W ~ 100 mW) 9 kHz ~ 1 GHz 1 GHz ~ 6 GHz 6 GHz ~ 12 GHz 12 GHz ~ 15 GHz 15 GHz ~ 18 GHz	1.5×10^{-2} 1.8×10^{-2} 2.1×10^{-2} 2.2×10^{-2} 2.6×10^{-2}	Power Meter Synthesized Sweeper Dual Directional Coupler / KRCMI-I-406-07
Pulse generators Period Delay Width	40638	100 ps ~ 10 s 1 ns ~ 10 s 100 ps ~ 10 s	5.8×10^{-9} 5.8×10^{-3} 5.8×10^{-3}	Universal Counter Oscilloscope / KRCMI-I-406-08

406. RF Measurements

Measured Quantity Instrument or Gauge	Field code	Range	Uncertainty of measurement (The Confidence Level is about 95 %)	Comments
Pulse generators Transition time	40638	4.5 ns ~ 10 ms	5.8×10^{-3}	Universal Counter Oscilloscope / KRCMI-I-406-08
Output level		± (1 mV ~ 20 V)	1.8×10^{-3}	
RF signal generators Frequency	40640	9 kHz ~ 18 GHz	6.0×10^{-10}	Universal Counter Synthesizer Sweeper Power Meter Power Sensor Measuring Receiver Microwave Converter Sensor Module GPS Receiver Spectrum Analyzer / KRCMI-I-406-09
Output level		9 kHz ~ 150 kHz (-60 ~ 20) dBm	0.10 dB	
		150 kHz ~ 100 MHz (0 ~ 20) dBm	0.17 dB	
		(-40 ~ 0) dBm	0.18 dB	
		(-50 ~ -40) dBm	0.19 dB	
		(-80 ~ -50) dBm	0.24 dB	
		(-120 ~ -80) dBm	0.25 dB	
		100 MHz ~ 1 GHz (0 ~ 20) dBm	0.17 dB	
		(-40 ~ 0) dBm	0.18 dB	
		(-50 ~ -40) dBm	0.19 dB	
		(-80 ~ -50) dBm	0.24 dB	
		(-120 ~ -80) dBm	0.26 dB	
		1 GHz ~ 2 GHz (0 ~ 20) dBm	0.18 dB	
		(-40 ~ 0) dBm	0.19 dB	
		(-50 ~ -40) dBm	0.20 dB	
		(-80 ~ -50) dBm	0.25 dB	
		(-120 ~ -80) dBm	0.26 dB	
		2 GHz ~ 10 GHz (0 ~ 20) dBm	0.19 dB	
		(-40 ~ 0) dBm	0.20 dB	
(-50 ~ -40) dBm	0.21 dB			
(-80 ~ -50) dBm	0.25 dB			
(-120 ~ -80) dBm	0.27 dB			
10 GHz ~ 18 GHz (0 ~ 20) dBm	0.20 dB			
(-40 ~ 0) dBm	0.21 dB			
(-50 ~ -40) dBm	0.22 dB			
(-80 ~ -50) dBm	0.26 dB			
(-120 ~ -80) dBm	0.28 dB			
Level Flatness	(-40 ~ 0) dBm			
	9 kHz ~ 1 GHz	0.08 dB		
	1 GHz ~ 2 GHz	0.09 dB		
	2 GHz ~ 3 GHz	0.11 dB		

406. RF Measurements

Measured Quantity Instrument or Gauge	Field code	Range	Uncertainty of measurement (The Confidence Level is about 95 %)	Comments
RF signal generators Level Flatness FM Modulation AM Modulation Audio Frequency	40640	3 GHz ~ 9 GHz 9 GHz ~ 18 GHz (1 ~ 100) kHz (1 ~ 100) % 40 Hz ~ 100 kHz	0.12 dB 0.14 dB 2.4×10^{-2} 2.4×10^{-2} 6.1×10^{-8}	Universal Counter Synthesizer Sweeper Power Meter Power Sensor Measuring Receiver Microwave Converter Sensor Module GPS Receiver Spectrum Analyzer / KRCMI-I-406-09
RF spectrum analyzers Reference Frequency Readout Frequency Mark Count Frequency span Scale Fidelity Reference Level Resolution Bandwidth Cal output Frequency Cal output amplitude Frequency response	40641	10 MHz 9 kHz ~ 18 GHz 9 kHz ~ 18 GHz 8 kHz ~ 1 800 MHz (-20 ~ 0) dB (-40 ~ -20) dB (-60 ~ -40) dB (-80 ~ -60) dB (-20 ~ 0) dBm (-40 ~ -20) dBm (-60 ~ -40) dBm (-80 ~ -60) dBm 1 kHz ~ 10 MHz (1 ~ 500) MHz (-30 ~ 0) dBm 9 kHz ~ 500 MHz 500 MHz ~ 3 GHz 3 GHz ~ 10 GHz 10 GHz ~ 18 GHz	4.0×10^{-10} $6.0 \times 10^{-4} \times \text{Span}$ 0.6 Hz $1.4 \times 10^{-4} \times \text{Span}$ 0.05 dB 0.06 dB 0.07 dB 0.09 dB 0.05 dB 0.06 dB 0.07 dB 0.09 dB $2.2 \times 10^{-3} \times \text{RBW}$ 7.8×10^{-9} 0.06 dB 0.08 dB 0.10 dB 0.11 dB 0.15 dB	GPS Receiver Universal Counter Synthesizer Sweeper Synthesized CW Generator Power Meter Power Sensor Power Splitter / KRCMI-I-406-10
RF speed guns Speed Frequency	40642	(5 ~ 1 600) m/s (1 600 ~ 3 000) m/s (10.2 ~ 10.6) GHz	0.01 m/s 0.02 m/s 7 kHz	Speed Calibrator Microwave Frequency Counter / KRCMI-I-406-32
Surge Generator Voltage	40643	(±) (0.02 ~ 20) V (20 ~ 70) V	3.2×10^{-3} 1.2×10^{-2}	High Voltage Probe Oscilloscope Current Monitor Attenuator / KRCMI-I-406-11

406. RF Measurements

Measured Quantity Instrument or Gauge	Field code	Range	Uncertainty of measurement (The Confidence Level is about 95 %)	Comments
Surge Generator	40643			High Voltage Probe Oscilloscope Current Monitor Attenuator / KRCMI-I-406-11
Voltage		(70 ~ 100) V (0.1 ~ 30) kV (30 ~ 100) kV (100 ~ 500) kV	2.6×10^{-2} 2.6×10^{-2} 1.0×10^{-2} 1.0×10^{-2}	
Current		(±) (1 ~ 50) A (50 ~ 100) A (100 ~ 500) A (500 ~ 1 000) A (1 ~ 5) kA (5 ~ 10) kA (10 ~ 50) kA (50 ~ 100) kA (100 ~ 150) kA (150 ~ 200) kA	1.7×10^{-2} 1.7×10^{-2} 1.7×10^{-2} 1.7×10^{-2} 1.7×10^{-2} 1.7×10^{-2} 1.7×10^{-2} 1.7×10^{-2} 2.0×10^{-2} 2.0×10^{-2}	
Front Time		(0.4 ~ 10) μs (10 ~ 400) μs	3.4×10^{-3} 3.6×10^{-3}	
Time to Half Value		(10 ~ 800) μs (0.8 ~ 6) ms	4.0×10^{-3} 4.0×10^{-3}	
Rise Time , Fall Time		(0.002 ~ 1 000) μs (1 ~ 10) ms (10 ~ 20) ms	3.6×10^{-3} 3.6×10^{-3} 6.0×10^{-3}	
Pulse Width		(1 ~ 1 000) μs (1 ~ 500) ms	3.5×10^{-3} 3.5×10^{-3}	
Duration Time		(0.01 ~ 1 000) μs (1 ~ 1 000) ms (1 ~ 6) s	3.5×10^{-3} 3.5×10^{-3} 3.5×10^{-3}	
Phase		(220 V , 60 Hz) 0° ~ 10° 10° ~ 90° 90° ~ 180° 180° ~ 270° 270° ~ 360° (230 V , 50 Hz) 0° ~ 10° 10° ~ 90° 90° ~ 180° 180° ~ 270° 270° ~ 360°	7.0×10^{-2} 8.1×10^{-3} 4.4×10^{-3} 3.3×10^{-3} 2.8×10^{-3} 5.9×10^{-2} 6.7×10^{-3} 3.7×10^{-3} 2.7×10^{-3} 2.3×10^{-3}	

406. RF Measurements

Measured Quantity Instrument or Gauge	Field code	Range	Uncertainty of measurement (The Confidence Level is about 95 %)	Comments
Surge Generator Ratio	40643	(±) (50 ~ 350) kV 200 ~ 50 000 (±) (350 ~ 500) kV 200 ~ 50 000	7.1×10^{-3} 1.1×10^{-2}	High Voltage Probe Oscilloscope Current Monitor Attenuator / KRCMI-I-406-11
SWR meters VSWR	40644	1.0 DC ~ 1 GHz (1 ~12) GHz (12 ~ 18) GHz 1.2 DC ~ 3 GHz (3 ~ 9) GHz (9 ~ 18) GHz 1.5 DC ~ 3 GHz (3 ~ 6) GHz (6 ~ 9) GHz (9 ~ 12) GHz (12 ~ 15) GHz (15 ~ 18) GHz 2.0 DC ~ 3 GHz (3 ~ 6) GHz (6 ~ 9) GHz (9 ~ 15) GHz (15 ~ 18) GHz	0.013 0.023 0.024 0.016 0.026 0.027 0.022 0.038 0.042 0.044 0.047 0.049 0.039 0.067 0.070 0.074 0.090	Network Analyzer Calibration Kit Spectrum Analyzer Mismatch Set Pulse/CW Micro. Counter Power Meter Power Sensor / KRCMI-I-406-22
Source power		(-30 ~ 10) dBm (0.01 ~ 1) GHz (1 ~ 10) GHz (10 ~ 18) GHz	0.07 dB 0.09 dB 0.12 dB	
Frequency		100 kHz ~ 18 GHz	6.1×10^{-9}	
RF terminations VSWR	40645	(0.05 ~ 2) GHz (2 ~ 18) GHz	0.009 0.012	Network Analyzer Calibration Kit / KRCMI-I-406-23
RF voltmeters Voltage	40650	100 kHz ~ 1 GHz 1 mV ~ 10 V	2.2×10^{-2}	Power Meter Signal Generator / KRCMI-I-406-13
Field strength meters Reference frequency	40652	10 MHz	1×10^{-8}	Measuring Receiver Signal Generator Power Sensor

406. RF Measurements

Measured Quantity Instrument or Gauge	Field code	Range	Uncertainty of measurement (The Confidence Level is about 95 %)	Comments
Field strength meters Frequency response	40652	-40 dBm ~ 10 dBm		Frequency Counter /KRCMI-I-406-33
		50 MHz ~ 1 GHz	0.23 dB	
		1 GHz ~ 8 GHz	0.35 dB	
		8 GHz ~ 18 GHz	0.47 dB	
		-80 dBm ~ -40 dBm		
		50 MHz ~ 1 GHz	0.23 dB	
	1 GHz ~ 8 GHz	0.37 dB		
	8 GHz ~ 18 GHz	0.49 dB		
Amplitude modulation		150 kHz ~ 18 GHz		
		5 % ~ 100 %	2.7×10^{-2}	
Frequency modulation		150 kHz ~ 18 GHz		
		5 kHz ~ 100 kHz	2.7×10^{-2}	
Dip simulators Line Voltage	40654	(50 ~ 60) Hz		Oscilloscope Digital Multimeter Frequency Counter High Voltage Differential Probe / KRCMI-I-406-31
		(10 ~ 100) V	2.3×10^{-3}	
		(100 ~ 300) V	1.1×10^{-3}	
		(300 ~ 400) V	9.5×10^{-4}	
Line Frequency		(49 ~ 61) Hz	2.0×10^{-4}	
Dip & Up Voltage		220 V , (50 ~ 60) Hz		
		Dip : 120 % (250 ~ 300) V	2.5×10^{-2}	
		Dip : 80 % (160 ~ 200) V	1.9×10^{-2}	
		Dip : 70 % (140 ~ 180) V	2.1×10^{-2}	
		Dip : 40 % (80 ~ 100) V	3.7×10^{-2}	
		Dip : 0 % (1 ~ 10) V	3.4×10^{-1}	
		120 V , (50 ~ 60) Hz		
		Dip : 120 % (110 ~ 170) V	2.2×10^{-2}	
		Dip : 80 % (70 ~ 120) V	1.8×10^{-2}	
		Dip : 70 % (60 ~ 100) V	2.0×10^{-2}	
		Dip : 40 % (30 ~ 60) V	3.5×10^{-2}	
		Dip : 0 % (1 ~ 10) V	1.7×10^{-1}	

406. RF Measurements

Measured Quantity Instrument or Gauge	Field code	Range	Uncertainty of measurement (The Confidence Level is about 95 %)	Comments
Dip simulators	40654	(1 ~ 10) ms	4.0×10^{-3}	Oscilloscope Digital Multimeter Frequency Counter High Voltage Differential Probe / KRCMI-I-406-31
Duration Time		(10 ~ 50) ms	4.0×10^{-3}	
		(50 ~ 100) ms	4.0×10^{-3}	
		(100 ~ 500) ms	4.0×10^{-3}	
		(0.5 ~ 1) s	4.0×10^{-3}	
		(1 ~ 6) s	4.0×10^{-3}	
Phase		(220 V , 60 Hz)		
		0° ~ 10°	7.0×10^{-2}	
		10° ~ 90°	8.1×10^{-3}	
		90° ~ 180°	4.4×10^{-3}	
		180° ~ 270°	3.3×10^{-3}	
		270° ~ 360°	2.8×10^{-3}	
		(230 V , 50 Hz)		
		0° ~ 10°	1.3×10^{-1}	
		10° ~ 90°	1.4×10^{-2}	
		90° ~ 180°	7.8×10^{-3}	
		180° ~ 270°	5.9×10^{-3}	
		270° ~ 360°	5.0×10^{-3}	

501. temperature

Measured Quantity Instrument or Gauge	Field code	Range	Uncertainty of measurement (The Confidence Level is about 95 %)	Comments
Temperature generators: ovens, furnaces, isothermal liquid baths, ice-point baths, dry-block calibrators	50101	(-196 ~ 0) °C 0 °C (0 ~ 550) °C (550 ~ 700) °C (700 ~ 1 100) °C (1 100 ~ 1 500) °C (1 000 ~ 1 100) °C (1 100 ~ 1 200) °C	0.018 °C 0.015 °C 0.018 °C 0.49 °C 0.67 °C 3.1 °C 1.2 °C 4.0 °C	S.P.R.T / KRCMI-I-501-01 S.P.R.T S-Type Thermocouple / KRCMI-I-501-02
Temperature indicators/ recorders /controllers, temperature calibrators Temperature indicators/recorders /controllers (with Sensors) Thermoelectric (only indicators) Electric temp. calibrator Thermoelectric	50102	(-196 ~ 550) °C (550 ~ 700) °C (700 ~ 1 100) °C (1 100 ~ 1 500) °C (-196 ~ 650) °C (650 ~ 1 000) °C (1 000 ~ 1 300) °C (1 300 ~ 1 500) °C (-196 ~ 0) °C (0 ~ 1 300) °C (1 300 ~ 1 500) °C	0.022 °C 0.49 °C 0.60 °C 3.1 °C 0.04 °C 0.16 °C 0.22 °C 0.36 °C 0.05 °C 0.03 °C 0.1 °C	S.P.R.T S-Type Thermocouple / KRCMI-I-501-03 Meter Calibrator / KRCMI-I-501-04 Meter Calibrator / KRCMI-I-501-05
Glass thermometers; liquid-in-glass, Beckmann	50103	(-80 ~ -50) °C (-50 ~ 400) °C (400 ~ 500) °C	0.15 °C 0.04 °C 0.58 °C	S.P.R.T / KRCMI-I-501-06
Resistance thermometers; SPRT, IPRT, thermistors, etc	50104	(-196 ~ 550) °C	0.024 °C	S.P.R.T / KRCMI-I-501-08
Thermal expansion thermometers; bimetal, gas or liquid type	50105	(-50 ~ 150) °C (150 ~ 250) °C (250 ~ 350) °C (350 ~ 550) °C	0.3 °C 0.6 °C 1.4 °C 3.0 °C	S.P.R.T S-Type Thermocouple / KRCMI-I-501-10
Thermocouples: noble metal, base metal, pure metal, special type, etc. Thermocouple Noble-metal thermocouple	50106	(-196 ~ 550) °C (550 ~ 1 100) °C (1 100 ~ 1 300) °C (0 ~ 1 100) °C (1 100 ~ 1 500) °C	0.4 °C 0.9 °C 3.1 °C 0.8 °C 3.1 °C	S.P.R.T S-Type Thermocouple / KRCMI-I-501-11 S-Type Thermocouple / KRCMI-I-501-13
Temperature transducers	50107	(-196 ~ 550) °C (550 ~ 1 100) °C (1 100 ~ 1 300) °C	0.04 °C 0.8 °C 3.1 °C	S.P.R.T S-Type Thermocouple / KRCMI-I-501-12

501. temperature

Measured Quantity Instrument or Gauge	Field code	Range	Uncertainty of measurement (The Confidence Level is about 95 %)	Comments
Others: quartz,semiconductivity, optical fiber etc. Semiconductive thermometers	50109	(-50 ~ 250) °C	0.06 °C	S.P.R.T / KRCMI-I-501-09

502. non contact thermometry

Measured Quantity Instrument or Gauge	Field code	Range	Uncertainty of measurement (The Confidence Level is about 95 %)	Comments
Radiation thermometers	50204	(0 ~ 50) °C (50 ~ 150) °C (150 ~ 200) °C (200 ~ 400) °C (400 ~ 600) °C (600 ~ 800) °C (800 ~ 900) °C (900 ~ 1 000) °C	1.6 °C 1.7 °C 1.9 °C 2.0 °C 2.2 °C 2.4 °C 2.5 °C 2.7 °C	Standard radiation Thermometers / KRCMI-I-502-01
Thermal image apparatus	50205	(50 ~ 100) °C (100 ~ 150) °C (150 ~ 200) °C (200 ~ 400) °C (400 ~ 500) °C	1.8 °C 1.9 °C 2.0 °C 2.1 °C 2.3 °C	Standard radiation Thermometers / KRCMI-I-502-02
Blackbody furnaces	50206	(0 ~ 50) °C (50 ~ 150) °C (150 ~ 200) °C (200 ~ 400) °C (400 ~ 600) °C (600 ~ 800) °C (800 ~ 900) °C (900 ~ 1 000) °C	1.2 °C 1.4 °C 1.6 °C 1.7 °C 1.9 °C 2.2 °C 2.3 °C 2.5 °C	Standard radiation Thermometers / KRCMI-I-502-03

503. Humidity

Measured Quantity Instrument or Gauge	Field code	Range	Uncertainty of measurement (The Confidence Level is about 95 %)	Comments
Dew-point hygrometers:chilled mirror, alumina thinfilm	50301	(-80 ~ -70) °C (-70 ~ -20) °C (-20 ~ 10) °C D.P. (10 ~ 70) °C D.P. (70 ~ 93) °C D.P.	0.64 °C D.P. 0.40 °C D.P. 0.18 °C D.P. 0.14 °C D.P. 0.16 °C D.P.	Dewpoint Metet / KRCMI-I-503-09
Relative humidity hygrometers; polimer thinfilm, hair	50302	(20 ~ 30) % R.H. (30 ~ 50) % R.H. (50 ~ 70) % R.H. (70 ~ 90) % R.H. (90 ~ 95) % R.H. (-40 ~ 100) °C	1.9 % R.H. 1.6 % R.H. 1.8 % R.H. 2.1 % R.H. 2.2 % R.H. 0.4 °C	Dewpoint Metet / KRCMI-I-503-01 Dewpoint Metet / KRCMI-I-503-02
Psychrometers; assmann ventilated, PRT type	50303	(20 ~ 70) % R.H. (70 ~ 95) % R.H. (-40 ~ 100) °C	1.9 % R.H. 2.2 % R.H. 0.4 °C	Dewpoint Metet / KRCMI-I-503-03 Calibrator / KRCMI-I-503-04
Temperature humidity recorders ; Hygrothermograph	50304	(20 ~ 30) % R.H. (30 ~ 50) % R.H. (50 ~ 70) % R.H. (70 ~ 90) % R.H. (90 ~ 95) % R.H. (-20 ~ 50) °C	1.9 % R.H. 1.6 % R.H. 1.8 % R.H. 2.1 % R.H. 2.2 % R.H. 0.4 °C	Dewpoint Metet / KRCMI-I-503-05
Transducers; dew-point/ dew-point humidity relative humidity	50305	(-70 ~ -10) °C D.P. (-10 ~ 80) °C D.P. (20 ~ 70) % R.H. (70 ~ 90) % R.H. (90 ~ 95) % R.H.	0.43 °C D.P. 0.35 °C D.P. 1.9 % R.H. 2.1 % R.H. 2.3 % R.H.	Dewpoint Metet / KRCMI-I-503-06
Humidity generators; two-pressure, two-temperature, flow mixing humidity generator, constant temperature and humidity chamber)	50306	(10 ~ 80) % R.H. (80 ~ 95) % R.H. (-75 ~ 180) °C	1.8 % R.H. 2.4 % R.H. 0.4 °C	Dewpoint Metet / KRCMI-I-503-07

601. Acoustics

Measured Quantity Instrument or Gauge	Field code	Range	Uncertainty of measurement (The Confidence Level is about 95 %)	Comments
Sound level meters	60106	31.5 Hz	0.3 dB	Calibrator / KRCMI-I-601-01
		63 Hz	0.3 dB	
		125 Hz	0.3 dB	
		250 Hz	0.2 dB	
		500 Hz	0.2 dB	
		1 kHz	0.2 dB	
		2 kHz	0.2 dB	
		4 kHz	0.3 dB	
		8 kHz	0.3 dB	
		12.5 kHz	0.4 dB	

603. Vibration

Measured Quantity Instrument or Gauge	Field code	Range	Uncertainty of measurement (The Confidence Level is about 95 %)	Comments
Vibration calibrators	60301	(10 ~ 160) Hz (160 ~ 5 000) Hz	1.6×10^{-2} 1.8×10^{-2}	Accelerometer / KRCMI-I-603-01
Vibration transducers	60302	1 Hz (1 ~ 5) Hz (5 ~ 160) Hz (160 ~ 5 000) Hz	2.3×10^{-2} 2.1×10^{-2} 1.5×10^{-2} 1.7×10^{-2}	Accelerometer / KRCMI-I-603-02
Vibration measuring instruments	60303			Accelerometer / KRCMI-I-603-03
Acceleration		(10 ~ 2 500) Hz	1.5×10^{-2}	
Speed		(10 ~ 2 500) Hz	1.5×10^{-2}	
Displacement		(10 ~ 160) Hz (160 ~ 315) Hz (315 ~ 630) Hz	1.4×10^{-2} 2.1×10^{-2} 6.6×10^{-2}	

701. Photometry

Measured Quantity Instrument or Gauge	Field code	Range	Uncertainty of measurement (The Confidence Level is about 95 %)	Comments
Illuminance meters	70101	0.5 lx	2.7 %	Illuminance / KRCMI-I-701-01
		(0.5 ~ 1) lx	2.5 %	
		(1 ~ 3 000) lx	2.4 %	

Accreditation No. : KC01-38

901. Chemical analysis

Measured Quantity Instrument or Gauge	Field code	Range	Uncertainty of measurement (The Confidence Level is about 95 %)	Comments
Gas analyzers O ₂	90106	(5 ~ 25) cmol/mol	2.4 %	Standard Gas / KRCMI-I-901-01