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Accreditation No.	JCSS0119
Date of Initial Accreditation	2002-10-22
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Name and Address of Accredited Organization	Japan Electric Meters Inspection Corporation Kyushu 1-40,2-chome, Shiobaru, Minami-ku, Fukuoka-shi, Fukuoka 815-0032, Japan JCN 4010405002454
Inquiry Point	Calibration Section Tel: +81-92-541-3033 FAX: +81-92-541-3036
Accreditation Standards	ISO/IEC 17025:2005 (Calibration)
Accreditation Scope	As attached

*JCN : Japan Corporate Number

General Field of Calibration : Time & Frequency & Rotational speed

Date of Initial Accreditation of the Field : 2018-06-21

Permanent Laboratory/On-site Calibration : Permanent Laboratory

Type of Service		Calibration Scope		CMC (Level of Confidence Approximately 95 %)
Time & Frequency Counter, etc.	Frequency Generator	From 1 Hz up to 10 MHz		5×10^{-6}
	Frequency Counter	From 1 Hz up to 10 MHz		5×10^{-6}
	Time-Interval Source *1	From 1 s up to 60 s		0.01 s
	Time-Interval Measuring Equipment	Calibration by Time-Interval Measurement	From 100 ms less than 10 s From 10 s up to 60 s More than 60 s up to 3 600 s	0.000 1 s 0.001 s 0.09 s

*1 : Limited to Withstand Voltage tester.

Note: The values in the CMC column include sources of uncertainty attributed to a unit under test.

Permanent Laboratory/On-site Calibration : On-site Calibration

Type of Service		Calibration Scope		CMC (Level of Confidence Approximately 95 %)
Time & Frequency Counter, etc.	Frequency Generator	From 1 Hz up to 10 MHz		5×10^{-6}
	Frequency Counter	From 1 Hz up to 10 MHz		5×10^{-6}
	Time-Interval Source *1	From 1 s up to 60 s		0.01 s
	Time-Interval Measuring Equipment	Calibration by Time-Interval Measurement	From 100 ms less than 10 s From 10 s up to 60 s More than 60 s up to 3 600 s	0.000 1 s 0.001 s 0.09 s

*1 : Limited to Withstand Voltage tester.

Note: The values in the CMC column include sources of uncertainty attributed to a unit under test.

General Field of Calibration : Electricity (Direct Current & Low Frequency)

Date of Initial Accreditation of the Field : 2002-10-22

Permanent Laboratory/On-site Calibration : Permanent Laboratory

Type of Service		Calibration Scope	CMC (Level of Confidence Approximately 95 %)
Direct Current & Low Frequency Measuring Equipment, etc.	DC Resistor	0.001 Ω	0.000 03 m Ω
		0.01 Ω	0.000 2 m Ω
		More than 0.01 Ω less than 0.1 Ω	0.001 Ω
		0.1 Ω	0.001 0 m Ω
		More than 0.1 Ω less than 1 Ω	0.001 Ω
		1 Ω	0.000 005 Ω
		More than 1 Ω less than 10 Ω	0.000 2 Ω
		10 Ω	0.05 m Ω
		More than 10 Ω less than 100 Ω	0.002 Ω
		100 Ω	0.40 m Ω
		More than 100 Ω less than 1 k Ω	0.02 Ω
		1 k Ω	4.0 m Ω
		More than 1 k Ω less than 10 k Ω	0.2 Ω
		10 k Ω	0.040 Ω
		More than 10 k Ω less than 100 k Ω	2 Ω
		100 k Ω	0.40 Ω
		More than 100 k Ω less than 1 M Ω	0.02 k Ω
		1 M Ω	0.005 0 k Ω
		More than 1 M Ω less than 10 M Ω	0.000 6 M Ω
		10 M Ω	0.000 3 M Ω
		More than 10 M Ω less than 19 M Ω	0.020 M Ω
		19 M Ω	0.006 M Ω
		More than 19 M Ω up to 30 M Ω	0.020 M Ω
		More than 30 M Ω less than 100 M Ω	0.060 M Ω
		100 M Ω	0.010 M Ω
		More than 100 M Ω less than 1 G Ω	0.10 %
1 G Ω	1.0 M Ω		
More than 1 G Ω up to 2 G Ω	4 M Ω		
More than 2 G Ω up to 3 G Ω	6 M Ω		

Type of Service		Calibration Scope	CMC (Level of Confidence Approximately 95 %)
Direct Current & Low Frequency Measuring Equipment, etc.	DC Resistance Measuring Equipment	0.001 Ω	0.10 $\mu\Omega$
		0.01 Ω	1.0 $\mu\Omega$
		0.1 Ω	10 $\mu\Omega$
		1 Ω	0.10 m Ω
		More than 1 Ω less than 1.9 Ω	1.0 m Ω
		1.9 Ω	0.20 m Ω
		More than 1.9 Ω less than 10 Ω	2.0 m Ω
		10 Ω	0.20 m Ω
		More than 10 Ω less than 19 Ω	2.0 m Ω
		19 Ω	1.0 m Ω
		More than 19 Ω less than 100 Ω	5.0 m Ω
		100 Ω	1.0 m Ω
		More than 100 Ω up to 400 Ω	0.008 0 Ω
		More than 400 Ω less than 1 k Ω	0.040 Ω
		1 k Ω	10 m Ω
		More than 1 k Ω less than 1.9 k Ω	0.20 Ω
		1.9 k Ω	0.10 Ω
		More than 1.9 k Ω less than 10 k Ω	0.40 Ω
		10 k Ω	0.10 Ω
		More than 10 k Ω less than 19 k Ω	2.0 Ω
		19 k Ω	1.0 Ω
		More than 19 k Ω less than 100 k Ω	4.0 Ω
		100 k Ω	1.0 Ω
		More than 100 k Ω less than 190 k Ω	20 Ω
		190 k Ω	10 Ω
		More than 190 k Ω less than 1 M Ω	50 Ω
		1 M Ω	10 Ω
		More than 1 M Ω up to 1.9 M Ω	1.0 k Ω
		More than 1.9 M Ω less than 10 M Ω	2.0 k Ω
		10 M Ω	1.0 k Ω
		More than 10 M Ω up to 19 M Ω	10 k Ω
		More than 19 M Ω less than 33 M Ω	20 k Ω
From 33 M Ω less than 100 M Ω	80 k Ω		
100 M Ω	10 k Ω		
More than 100 M Ω less than 110 M Ω	1.0 M Ω		
From 110 M Ω less than 330 M Ω	5.0 M Ω		
From 330 M Ω up to 1 G Ω	14 M Ω		
More than 1 G Ω up to 2 G Ω	1 %		

Type of Service		Calibration Scope	CMC (Level of Confidence Approximately 95 %)
Direct Current & Low Frequency Measuring Equipment, etc.	DC Voltage Source	From 0 V up to 100 mV	0.3 ppm + 2.5 μ V
		More than 0.1 V up to 1 V	4.0 ppm + 2.5 μ V
		More than 1 V up to 10 V	5.5 ppm + 2 μ V
		More than 10 V up to 100 V	7.5 ppm + 0.05 mV
		More than 100 V up to 600 V	13 ppm
		More than 600 V up to 1 000 V	34 ppm – 12.6 mV
		More than 1 kV up to 4 kV	0.03 kV
		More than 4 kV up to 7 kV	0.04 kV
		More than 7 kV up to 10 kV	0.05 kV
	DC Voltage Measuring Equipment	From 0 V up to 1 V	5.5 ppm + 0.5 μ V
		More than 1 V up to 10 V	5.5 ppm + 2 μ V
		More than 10 V up to 100 V	7.5 ppm + 0.05 mV
		More than 100 V up to 600 V	13 ppm
		More than 600 V up to 1 000 V	34 ppm – 12.6 mV
	Direct Current Source	From 0 μ A up to 100 μ A	6 ppm + 0.002 5 μ A
		More than 0.1 mA up to 1 mA	5 ppm + 0.030 μ A
		More than 1 mA up to 10 mA	5 ppm + 0.30 μ A
		More than 10 mA up to 100 mA	10 ppm + 3.0 μ A
		More than 0.1 A up to 1 A	30 ppm + 0.025 mA
		More than 1 A up to 30 A	75 ppm + 0.20 mA
	Direct Current Measuring Equipment	From 0 μ A up to 100 μ A	6 ppm + 0.002 5 μ A
		More than 0.1 mA up to 1 mA	5 ppm + 0.030 μ A
		More than 1 mA up to 10 mA	5 ppm + 0.30 μ A
		More than 10 mA up to 100 mA	10 ppm + 3.0 μ A
		More than 0.1 A up to 1 A	30 ppm + 0.025 mA
		More than 1 A up to 30 A	75 ppm + 0.20 mA
		More than 30 A up to 40 A	0.40 A
		More than 40 A up to 50 A	0.50 A
	More than 50 A up to 500 A	1.0 %	

Type of Service		Calibration Scope		CMC (Level of Confidence Approximately 95 %)
	AC Voltage Source	From 10 mV up to 20 mV	40 Hz, 50 Hz, 60 Hz, 400 Hz, 1 kHz	0.005 mV
		More than 20 mV up to 60 mV		0.025 %
		More than 60 mV up to 200 mV		0.015 %
		More than 200 mV up to 600 mV		95 ppm
		From 300 mV up to 600 mV	10 kHz	95 ppm
		300 mV, 600 mV	100 kHz	0.015 %
		More than 600 mV up to 200 V	40 Hz, 50 Hz, 60 Hz, 400 Hz, 1 kHz, 10 kHz	50 ppm
		1 V, 2 V, 6 V, 10 V, 20 V, 60 V, 100 V, 200 V	100 kHz	0.010 %
		600 V		0.040 %
		More than 200 V up to 1 000 V	40 Hz, 50 Hz, 60 Hz, 400 Hz, 1 kHz, 10 kHz	60 ppm
		More than 1 kV up to 4 kV	50 Hz, 60 Hz	0.03 kV
		More than 4 kV up to 7 kV		0.04 kV
		More than 7 kV up to 10 kV		0.05 kV
	AC Voltage Measuring Equipment	From 10 mV up to 20 mV	40 Hz, 50 Hz, 60 Hz, 400 Hz, 1 kHz	0.005 mV
		More than 20 mV up to 60 mV		0.025 %
		More than 60 mV up to 200 mV		0.015 %
		More than 200 mV up to 600 mV		95 ppm
		From 300 mV up to 600 mV	10 kHz	95 ppm
		300 mV, 600 mV	100 kHz	0.015 %
		More than 600 mV up to 200 V	40 Hz, 50 Hz, 60 Hz, 400 Hz, 1 kHz, 10 kHz	50 ppm
		1 V, 2 V, 6 V, 10 V, 20 V, 60 V, 100 V, 200 V	100 kHz	0.010 %
		600 V		0.040 %
More than 200 V up to 1 000 V		40 Hz, 50 Hz, 60 Hz, 400 Hz, 1 kHz, 10 kHz	60 ppm	

Type of Service		Calibration Scope		CMC (Level of Confidence Approximately 95 %)
Direct Current & Low Frequency Measuring Equipment, etc.	Alternating Current Source	From 0.001 A up to 0.006 A	50 Hz, 60 Hz	0.025 % + 0.1 μ A
		More than 0.006 A less than 0.01 A		0.025 % + 0.5 μ A
		From 0.01 A up to 0.02 A		0.015 % + 0.3 μ A
		More than 0.02 A up to 0.2 A		0.015 % + 3 μ A
		More than 0.2 A up to 2 A		0.028 % + 0.03 mA
		More than 2 A up to 10 A		0.038 % + 0.2 mA
		More than 10 A up to 20 A		0.045 % + 0.5 mA
		More than 20 A up to 60 A		0.045 % + 1 mA
	Alternating Current Measuring Equipment	From 0.001 A less than 0.01 A	50 Hz, 60 Hz	0.030 % + 0.5 μ A
		From 0.01 A up to 0.02 A		0.015 % + 0.3 μ A
		More than 0.02 A up to 0.2 A		0.015 % + 3 μ A
		More than 0.2 A up to 2 A		0.028 % + 0.03 mA
		More than 2 A up to 10 A		0.038 % + 0.2 mA
		More than 10 A up to 20 A		0.15 %
		More than 20 A up to 60 A		0.18 % + 0.01 A
		More than 60 A up to 100 A		0.3 A
		More than 100 A up to 500 A		1.5 %

Type of service		Calibration scope		CMC (Level of Confidence Approximately 95 %)
Direct Current & Low Frequency Measuring Equipment, etc.	Temperature Indicator	Thermocouple B, with Reference Junction	From 291 μV up to 13820 μV (From 250 $^{\circ}\text{C}$ up to 1820 $^{\circ}\text{C}$)	10 μV
		Thermocouple R, with Reference Junction	From -226 μV up to 21003 μV (From -50 $^{\circ}\text{C}$ up to 1760 $^{\circ}\text{C}$)	10 μV
		Thermocouple S, with Reference Junction	From -236 μV up to 18609 μV (From -50 $^{\circ}\text{C}$ up to 1760 $^{\circ}\text{C}$)	10 μV
		Thermocouple N, with Reference Junction	From -3990 μV up to 47513 μV (From -200 $^{\circ}\text{C}$ up to 1300 $^{\circ}\text{C}$)	22 μV
		Thermocouple K, with Reference Junction	From -5891 μV up to 54819 μV (From -200 $^{\circ}\text{C}$ up to 1370 $^{\circ}\text{C}$)	23 μV
		Thermocouple E, with Reference Junction	From -8825 μV up to 76373 μV (From -200 $^{\circ}\text{C}$ up to 1000 $^{\circ}\text{C}$)	28 μV
		Thermocouple J, with Reference Junction	From -8095 μV up to 69553 μV (From -210 $^{\circ}\text{C}$ up to 1200 $^{\circ}\text{C}$)	24 μV
		Thermocouple T, with Reference Junction	From -5603 μV up to 20872 μV (From -200 $^{\circ}\text{C}$ up to 400 $^{\circ}\text{C}$)	23 μV
		Thermocouple B, without Reference Junction	From 291 μV up to 13820 μV (From 250 $^{\circ}\text{C}$ up to 1820 $^{\circ}\text{C}$)	9 μV
		Thermocouple R, without Reference Junction	From -226 μV up to 21003 μV (From -50 $^{\circ}\text{C}$ up to 1760 $^{\circ}\text{C}$)	9 μV
		Thermocouple S, without Reference Junction	From -236 μV up to 18609 μV (From -50 $^{\circ}\text{C}$ up to 1760 $^{\circ}\text{C}$)	9 μV
		Thermocouple N, without Reference Junction	From -3990 μV up to 47513 μV (From -200 $^{\circ}\text{C}$ up to 1300 $^{\circ}\text{C}$)	11 μV
		Thermocouple K, without Reference Junction	From -5891 μV up to 54819 μV (From -200 $^{\circ}\text{C}$ up to 1370 $^{\circ}\text{C}$)	11 μV
		Thermocouple E, without Reference Junction	From -8825 μV up to 76373 μV (From -200 $^{\circ}\text{C}$ up to 1000 $^{\circ}\text{C}$)	13 μV
		Thermocouple J, without Reference Junction	From -8095 μV up to 69553 μV (From -210 $^{\circ}\text{C}$ up to 1200 $^{\circ}\text{C}$)	12 μV
		Thermocouple T, without Reference Junction	From -5603 μV up to 20872 μV (From -200 $^{\circ}\text{C}$ up to 400 $^{\circ}\text{C}$)	12 μV
			Resistance thermometer Sensor	From 18.52 Ω up to 390.48 Ω (From -200 $^{\circ}\text{C}$ up to 850 $^{\circ}\text{C}$)

Type of service		Calibration scope		CMC (Level of Confidence Approximately 95 %)
Direct Current & Low Frequency Measuring Equipment, etc.	Temperature Indicator calibration equipment	Thermocouple B, with Reference Junction	From 291 μV up to 13820 μV (From 250 $^{\circ}\text{C}$ up to 1820 $^{\circ}\text{C}$)	10 μV
		Thermocouple R, with Reference Junction	From -226 μV up to 21003 μV (From -50 $^{\circ}\text{C}$ up to 1760 $^{\circ}\text{C}$)	10 μV
		Thermocouple S, with Reference Junction	From -236 μV up to 18609 μV (From -50 $^{\circ}\text{C}$ up to 1760 $^{\circ}\text{C}$)	10 μV
		Thermocouple N, with Reference Junction	From -3990 μV up to 47513 μV (From -200 $^{\circ}\text{C}$ up to 1300 $^{\circ}\text{C}$)	22 μV
		Thermocouple K, with Reference Junction	From -5891 μV up to 54819 μV (From -200 $^{\circ}\text{C}$ up to 1370 $^{\circ}\text{C}$)	23 μV
		Thermocouple E, with Reference Junction	From -8825 μV up to 76373 μV (From -200 $^{\circ}\text{C}$ up to 1000 $^{\circ}\text{C}$)	25 μV
		Thermocouple J, with Reference Junction	From -8095 μV up to 69553 μV (From -210 $^{\circ}\text{C}$ up to 1200 $^{\circ}\text{C}$)	24 μV
		Thermocouple T, with Reference Junction	From -5603 μV up to 20872 μV (From -200 $^{\circ}\text{C}$ up to 400 $^{\circ}\text{C}$)	23 μV
		Thermocouple B, without Reference Junction	From 291 μV up to 13820 μV (From 250 $^{\circ}\text{C}$ up to 1820 $^{\circ}\text{C}$)	9 μV
		Thermocouple R, without Reference Junction	From -226 μV up to 21003 μV (From -50 $^{\circ}\text{C}$ up to 1760 $^{\circ}\text{C}$)	9 μV
		Thermocouple S, without Reference Junction	From -236 μV up to 18609 μV (From -50 $^{\circ}\text{C}$ up to 1760 $^{\circ}\text{C}$)	9 μV
		Thermocouple N, without Reference Junction	From -3990 μV up to 47513 μV (From -200 $^{\circ}\text{C}$ up to 1300 $^{\circ}\text{C}$)	11 μV
		Thermocouple K, without Reference Junction	From -5891 μV up to 54819 μV (From -200 $^{\circ}\text{C}$ up to 1370 $^{\circ}\text{C}$)	11 μV
		Thermocouple E, without Reference Junction	From -8825 μV up to 76373 μV (From -200 $^{\circ}\text{C}$ up to 1000 $^{\circ}\text{C}$)	13 μV
		Thermocouple J, without Reference Junction	From -8095 μV up to 69553 μV (From -210 $^{\circ}\text{C}$ up to 1200 $^{\circ}\text{C}$)	12 μV
		Thermocouple T, without Reference Junction	From -5603 μV up to 20872 μV (From -200 $^{\circ}\text{C}$ up to 400 $^{\circ}\text{C}$)	12 μV
		Resistance thermometer Sensor	From 18.52 Ω up to 390.48 Ω (From -200 $^{\circ}\text{C}$ up to 850 $^{\circ}\text{C}$)	0.10 Ω

Type of Service		Calibration Scope			CMC (Level of Confidence Approximately 95 %)
Electric Power Measuring Equipment, etc.	Power Meter	From 10 V up to 300 V From 250 mA up to 30 A 50 Hz, 60 Hz Power factor; whole range			0.28 mW/VA ~ 0.32 mW/VA (Appendix1)
	Reactive Power Meter	From 10 V up to 300 V From 250 mA up to 30 A 50 Hz, 60 Hz Power factor; whole range			0.30 mvar/VA ~ 0.38 mvar/VA (Appendix1)
	Energy Meter	110 V,100 V 5 A 50 Hz, 60 Hz	Three phase three wire system (include unbalance load)	Power factor : 1 Power factor : 0.866 lag ^{**} Power factor : 0.866 lead ^{**} Power factor : 0.5 lag Power factor : 0.5 lead ^{**} 110 V only	0.02 %
			Single phase three wire system (include unbalance load)	Power factor : 1 Power factor : 0.5 lag Power factor : 0.5 lead	
Single phase two wire system			Power factor : 1 Power factor : 0.5 lag Power factor : 0.5 lead		

Appendix1

Category	Calibration Scope						CMC (Level of Confidence Approximately 95 %)
	Type	Phase wire	Frequency	Voltage	Current	Power factor	
Power Meter	Active power	Single phase two wire	50, 60 Hz	100 V	5 A	1	0.30 mW/VA
						0.5 lag	0.28 mW/VA
						0.5 lead	0.28 mW/VA
						0 lag	0.28 mW/VA
						0 lead	0.28 mW/VA
				300 V	5 A	1	0.31 mW/VA
		100 V	0.5 A	1	0.32 mW/VA		
		Single phase three wire	50, 60 Hz	100 V	5 A	1	0.29 mW/VA
		Three phase three wire	50, 60 Hz	100 V	5 A	1	0.29 mW/VA
Reactive Power Meter	Reactive power	Single phase two wire	50, 60 Hz	100 V	5 A	1	0.30 mvar/VA
						0.5 lag	0.30 mvar/VA
						0.5 lead	0.30 mvar/VA
						0 lag	0.30 mvar/VA
						0 lead	0.30 mvar/VA
				300 V	5 A	0 lag	0.38 mvar/VA
		100 V	0.5 A	0 lag	0.32 mvar/VA		
		Single phase three wire	50, 60 Hz	100 V	5 A	0 lag	0.30 mvar/VA
		Three phase three wire	50, 60 Hz	100 V	5 A	0 lag	0.30 mvar/VA

Permanent Laboratory/On-site Calibration : On-site Calibration

Type of Service		Calibration Scope		CMC (Level of Confidence Approximately 95 %)
Direct Current & Low Frequency Measuring Equipment, etc.	DC Resistance Measuring Equipment	More than 190 M Ω up to 2 G Ω		1.0 %
		More than 100 M Ω up to 190 M Ω		2.0 M Ω
		More than 10 M Ω up to 100 M Ω		1.0 %
		More than 1 M Ω up to 10 M Ω		0.20 %
		More than 10 k Ω up to 1 M Ω		0.10 %
		From 1 Ω up to 10 k Ω		0.050 % (lower limit 10 m Ω)
	DC Voltage Source	From 0 μ V up to 1000 V		0.010 % (lower limit 0.010 mV)
		More than 1 kV up to 4 kV		0.03 kV
		More than 4 kV up to 7 kV		0.04 kV
		More than 7 kV up to 10 kV		0.05 kV
	DC Voltage Measuring Equipment	From 0 μ V up to 1000 V		0.050 % (lower limit 5 μ V)
	Direct Current Source	From 0 μ A up to 30 A		0.10 % (lower limit 0.05 μ A)
	Direct Current Measuring Equipment	From 0 μ A up to 10 A		0.10 % (lower limit 0.10 μ A)
		More than 10 A less than 16.5 A		1.5 %
		From 16.5 A up to 23 A		0.30 A
		More than 23 A up to 40 A		0.40 A
		More than 40 A up to 50 A		0.50 A
		More than 50 A up to 500 A		1 %
	AC Voltage Source	From 10 mV up to 40 mV	50 Hz, 60 Hz, 400 Hz, 1 kHz	0.10 mV
		More than 40 mV up to 1000 V		0.30 %
		More than 1 kV up to 4 kV	50 Hz, 60 Hz	0.03 kV
		More than 4 kV up to 7 kV		0.04 kV
		More than 7 kV up to 10 kV		0.05 kV
	AC Voltage Measuring Equipment	From 10 mV up to 1000 V	50 Hz, 60 Hz, 400 Hz, 1 kHz	0.10 % (lower limit 0.10 mV)
	Alternating Current Source	From 1 mA up to 60 A	50 Hz, 60 Hz	0.50 %
	Alternating Current Measuring Equipment	From 1 mA up to 10 A	50 Hz, 60 Hz	0.30 %
		More than 10 A up to 60 A		0.50 %
		More than 60 A up to 100 A		0.3 A
More than 100 A up to 500 A		1.5 %		

Type of service		Calibration scope		CMC (Level of Confidence Approximately 95 %)
Direct Current & Low Frequency Measuring Equipment, etc.	Temperature Indicator	Thermocouple B, with Reference Junction	From 291 μV up to 13820 μV (From 250 $^{\circ}\text{C}$ up to 1820 $^{\circ}\text{C}$)	10 μV
		Thermocouple R, with Reference Junction	From -226 μV up to 21003 μV (From -50 $^{\circ}\text{C}$ up to 1760 $^{\circ}\text{C}$)	10 μV
		Thermocouple S, with Reference Junction	From -236 μV up to 18609 μV (From -50 $^{\circ}\text{C}$ up to 1760 $^{\circ}\text{C}$)	10 μV
		Thermocouple N, with Reference Junction	From -3990 μV up to 47513 μV (From -200 $^{\circ}\text{C}$ up to 1300 $^{\circ}\text{C}$)	22 μV
		Thermocouple K, with Reference Junction	From -5891 μV up to 54819 μV (From -200 $^{\circ}\text{C}$ up to 1370 $^{\circ}\text{C}$)	23 μV
		Thermocouple E, with Reference Junction	From -8825 μV up to 76373 μV (From -200 $^{\circ}\text{C}$ up to 1000 $^{\circ}\text{C}$)	28 μV
		Thermocouple J, with Reference Junction	From -8095 μV up to 69553 μV (From -210 $^{\circ}\text{C}$ up to 1200 $^{\circ}\text{C}$)	24 μV
		Thermocouple T, with Reference Junction	From -5603 μV up to 20872 μV (From -200 $^{\circ}\text{C}$ up to 400 $^{\circ}\text{C}$)	23 μV
		Thermocouple B, without Reference Junction	From 291 μV up to 13820 μV (From 250 $^{\circ}\text{C}$ up to 1820 $^{\circ}\text{C}$)	9 μV
		Thermocouple R, without Reference Junction	From -226 μV up to 21003 μV (From -50 $^{\circ}\text{C}$ up to 1760 $^{\circ}\text{C}$)	9 μV
		Thermocouple S, without Reference Junction	From -236 μV up to 18609 μV (From -50 $^{\circ}\text{C}$ up to 1760 $^{\circ}\text{C}$)	9 μV
		Thermocouple N, without Reference Junction	From -3990 μV up to 47513 μV (From -200 $^{\circ}\text{C}$ up to 1300 $^{\circ}\text{C}$)	11 μV
		Thermocouple K, without Reference Junction	From -5891 μV up to 54819 μV (From -200 $^{\circ}\text{C}$ up to 1370 $^{\circ}\text{C}$)	11 μV
		Thermocouple E, without Reference Junction	From -8825 μV up to 76373 μV (From -200 $^{\circ}\text{C}$ up to 1000 $^{\circ}\text{C}$)	13 μV
		Thermocouple J, without Reference Junction	From -8095 μV up to 69553 μV (From -210 $^{\circ}\text{C}$ up to 1200 $^{\circ}\text{C}$)	12 μV
		Thermocouple T, without Reference Junction	From -5603 μV up to 20872 μV (From -200 $^{\circ}\text{C}$ up to 400 $^{\circ}\text{C}$)	12 μV
		Resistance thermometer Sensor	From 18.52 Ω up to 390.48 Ω (From -200 $^{\circ}\text{C}$ up to 850 $^{\circ}\text{C}$)	0.10 Ω

Type of service		Calibration scope		CMC (Level of Confidence Approximately 95 %)
Direct Current & Low Frequency Measuring Equipment, etc.	Temperature Indicator calibration equipment	Thermocouple B, with Reference Junction	From 291 μV up to 13820 μV (From 250 $^{\circ}\text{C}$ up to 1820 $^{\circ}\text{C}$)	10 μV
		Thermocouple R, with Reference Junction	From -226 μV up to 21003 μV (From -50 $^{\circ}\text{C}$ up to 1760 $^{\circ}\text{C}$)	10 μV
		Thermocouple S, with Reference Junction	From -236 μV up to 18609 μV (From -50 $^{\circ}\text{C}$ up to 1760 $^{\circ}\text{C}$)	10 μV
		Thermocouple N, with Reference Junction	From -3990 μV up to 47513 μV (From -200 $^{\circ}\text{C}$ up to 1300 $^{\circ}\text{C}$)	22 μV
		Thermocouple K, with Reference Junction	From -5891 μV up to 54819 μV (From -200 $^{\circ}\text{C}$ up to 1370 $^{\circ}\text{C}$)	23 μV
		Thermocouple E, with Reference Junction	From -8825 μV up to 76373 μV (From -200 $^{\circ}\text{C}$ up to 1000 $^{\circ}\text{C}$)	25 μV
		Thermocouple J, with Reference Junction	From -8095 μV up to 69553 μV (From -210 $^{\circ}\text{C}$ up to 1200 $^{\circ}\text{C}$)	24 μV
		Thermocouple T, with Reference Junction	From -5603 μV up to 20872 μV (From -200 $^{\circ}\text{C}$ up to 400 $^{\circ}\text{C}$)	23 μV
		Thermocouple B, without Reference Junction	From 291 μV up to 13820 μV (From 250 $^{\circ}\text{C}$ up to 1820 $^{\circ}\text{C}$)	9 μV
		Thermocouple R, without Reference Junction	From -226 μV up to 21003 μV (From -50 $^{\circ}\text{C}$ up to 1760 $^{\circ}\text{C}$)	9 μV
		Thermocouple S, without Reference Junction	From -236 μV up to 18609 μV (From -50 $^{\circ}\text{C}$ up to 1760 $^{\circ}\text{C}$)	9 μV
		Thermocouple N, without Reference Junction	From -3990 μV up to 47513 μV (From -200 $^{\circ}\text{C}$ up to 1300 $^{\circ}\text{C}$)	11 μV
		Thermocouple K, without Reference Junction	From -5891 μV up to 54819 μV (From -200 $^{\circ}\text{C}$ up to 1370 $^{\circ}\text{C}$)	11 μV
		Thermocouple E, without Reference Junction	From -8825 μV up to 76373 μV (From -200 $^{\circ}\text{C}$ up to 1000 $^{\circ}\text{C}$)	13 μV
		Thermocouple J, without Reference Junction	From -8095 μV up to 69553 μV (From -210 $^{\circ}\text{C}$ up to 1200 $^{\circ}\text{C}$)	12 μV
		Thermocouple T, without Reference Junction	From -5603 μV up to 20872 μV (From -200 $^{\circ}\text{C}$ up to 400 $^{\circ}\text{C}$)	12 μV
		Resistance thermometer Sensor	From 18.52 Ω up to 390.48 Ω (From -200 $^{\circ}\text{C}$ up to 850 $^{\circ}\text{C}$)	0.10 Ω

Type of service		Calibration scope	CMC (Level of Confidence Approximately 95 %)
Electric Power Measuring Equipment, etc.	Power Meter	From 30 V up to 240 V From 250 mA up to 25 A 50 Hz, 60 Hz Power factor; whole range	0.15 W ~ 6×10 W (Appendix 2,3)

Appendix 2

Category	Calibration Scope						CMC (Level of Confidence Approximately 95 %)
	Type	Phase wire	Frequency	Voltage	Current	Power factor	
Power Meter	Active Power	Single phase two wire	50 Hz 60 Hz	240 V	25 A	0 lag~1~0 lead	30 W
					10 A	0 lag~1~0 lead	12 W
					5 A	0 lag~1~0 lead	6 W
					2.5 A	0 lag~1~0 lead	3.0 W
					1 A	0 lag~1~0 lead	1.2 W
				120 V	25 A	0 lag~1~0 lead	15 W
					10 A	0 lag~1~0 lead	6 W
					5 A	0 lag~1~0 lead	3.0 W
					2.5 A	0 lag~1~0 lead	1.5 W
					1 A	0 lag~1~0 lead	0.6 W
				60 V	10 A	0 lag~1~0 lead	3.0 W
					5 A	0 lag~1~0 lead	1.5 W
					2.5 A	0 lag~1~0 lead	0.8 W
					1 A	0 lag~1~0 lead	0.30 W
				30 V	10 A	0 lag~1~0 lead	1.5 W
					5 A	0 lag~1~0 lead	0.8 W
2.5 A	0 lag~1~0 lead	0.38 W					
1 A	0 lag~1~0 lead	0.15 W					

Appendix 3

Category	Calibration Scope						CMC (Level of Confidence Approximately 95 %)
	Type	Phase wire	Frequency	Voltage	Current	Power factor	
Reactive Power Meter	Active Power	Single phase three wire, Three phase three wire	50 Hz 60 Hz	240 V	25 A	0 lag~1~0 lead	6×10 W
					10 A	0 lag~1~0 lead	24 W
					5 A	0 lag~1~0 lead	12 W
					2.5 A	0 lag~1~0 lead	6 W
					1 A	0 lag~1~0 lead	2.4 W
				120 V	25 A	0 lag~1~0 lead	30 W
					10 A	0 lag~1~0 lead	12 W
					5 A	0 lag~1~0 lead	6 W
					2.5 A	0 lag~1~0 lead	3.0 W
					1 A	0 lag~1~0 lead	1.2 W