Name of Accreditation Program	JCSS Accreditation Program
Accreditation No.	JCSS0119
Date of Initial Accreditation	2002-10-22
Latest Date of Issue	2018-07-03
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 mΩ
		0.01 Ω	0.000 2 mΩ
		More than 0.01 Ω less than 0.1 Ω	0.001 Ω
		0.1 Ω	0.001 0 mΩ
		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 mΩ
		More than 10 Ω less than 100 Ω	0.002 Ω
		100 Ω	0.40 mΩ
		More than 100 Ω less than 1 kΩ	0.02 Ω
		1 kΩ	4.0 mΩ
		More than 1 kΩ less than 10 kΩ	0.2 Ω
		10 kΩ	0.040 Ω
		More than 10 kΩ less than 100 kΩ	2 Ω
		100 kΩ	0.40 Ω
		More than 100 kΩ less than 1 MΩ	0.02 kΩ
		1 MΩ	0.005 0 kΩ
		More than 1 MΩ less than 10 MΩ	0.000 6 MΩ
		10 MΩ	0.000 3 MΩ
		More than 10 MΩ less than 19 MΩ	0.020 MΩ
		19 MΩ	0.006 MΩ
		More than 19 MΩ up to 30 MΩ	0.020 MΩ
		More than 30 MΩ less than 100 MΩ	0.060 MΩ
		100 MΩ	0.010 MΩ
		More than 100 MΩ less than 1 GΩ	0.10 %
		1 GΩ	1.0 MΩ
		More than 1 GΩ up to 2 GΩ	4 MΩ
		More than 2 GΩ up to 3 GΩ	6 MΩ

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 μΩ
		0.01 Ω	1.0 μΩ
		0.1 Ω	10 μΩ
		1 Ω	0.10 mΩ
		More than 1 Ω less than 1.9 Ω	1.0 mΩ
		1.9 Ω	0.20 mΩ
		More than 1.9 Ω less than 10 Ω	2.0 mΩ
		10 Ω	0.20 mΩ
		More than 10 Ω less than 19 Ω	2.0 mΩ
		19 Ω	1.0 mΩ
		More than 19 Ω less than 100 Ω	5.0 mΩ
		100 Ω	1.0 mΩ
		More than 100 Ω up to 400 Ω	0.008 0 Ω
		More than 400 Ω less than 1 kΩ	0.040 Ω
		1 kΩ	10 mΩ
		More than 1 kΩ less than 1.9 kΩ	0.20 Ω
		1.9 kΩ	0.10 Ω
		More than 1.9 kΩ less than 10 kΩ	0.40 Ω
		10 kΩ	0.10 Ω
		More than 10 kΩ less than 19 kΩ	2.0 Ω
		19 kΩ	1.0 Ω
		More than 19 kΩ less than 100 kΩ	4.0 Ω
		100 kΩ	1.0 Ω
		More than 100 kΩ less than 190 kΩ	20 Ω
		190 kΩ	10 Ω
		More than 190 kΩ less than 1 MΩ	50 Ω
		1 MΩ	10 Ω
		More than 1 MΩ up to 1.9 MΩ	1.0 kΩ
		More than 1.9 MΩ less than 10 MΩ	2.0 kΩ
		10 MΩ	1.0 kΩ
		More than 10 MΩ up to 19 MΩ	10 kΩ
		More than 19 MΩ less than 33 MΩ	20 kΩ
		From 33 MΩ less than 100 MΩ	80 kΩ
		100 MΩ	10 kΩ
		More than 100 MΩ less than 110 MΩ	1.0 MΩ
		From 110 MΩ less than 330 MΩ	5.0 MΩ
		From 330 MΩ up to 1 GΩ	14 MΩ
		More than 1 GΩ up to 2 GΩ	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 μV
		More than 0.1 V up to 1 V	4.0 ppm + 2.5 μV
		More than 1 V up to 10 V	5.5 ppm + 2 μV
		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 μV
		More than 1 V up to 10 V	5.5 ppm + 2 μV
		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 μA up to 100 μA	6 ppm + 0.002 5 μA
		More than 0.1 mA up to 1 mA	5 ppm + 0.030 μA
		More than 1 mA up to 10 mA	5 ppm + 0.30 μA
		More than 10 mA up to 100 mA	10 ppm + 3.0 μA
		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 μA up to 100 μA	6 ppm + 0.002 5 μA
		More than 0.1 mA up to 1 mA	5 ppm + 0.030 μA
		More than 1 mA up to 10 mA	5 ppm + 0.30 μA
		More than 10 mA up to 100 mA	10 ppm + 3.0 μA
		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 μA
		More than 0.006 A less than 0.01 A		0.025 % + 0.5 μA
		From 0.01 A up to 0.02 A		0.015 % + 0.3 μA
		More than 0.02 A up to 0.2 A		0.015 % + 3 μA
		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 μA
		From 0.01 A up to 0.02 A		0.015 % + 0.3 μA
		More than 0.02 A up to 0.2 A		0.015 % + 3 μA
		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 °C up to 1820 °C)	10 μV
		Thermocouple R, with Reference Junction	From -226 μV up to 21003 μV (From -50 °C up to 1760 °C)	10 μV
		Thermocouple S, with Reference Junction	From -236 μV up to 18609 μV (From -50 °C up to 1760 °C)	10 μV
		Thermocouple N, with Reference Junction	From -3990 μV up to 47513 μV (From -200 °C up to 1300 °C)	22 μV
		Thermocouple K, with Reference Junction	From -5891 μV up to 54819 μV (From -200 °C up to 1370 °C)	23 μV
		Thermocouple E, with Reference Junction	From -8825 μV up to 76373 μV (From -200 °C up to 1000 °C)	28 μV
		Thermocouple J, with Reference Junction	From -8095 μV up to 69553 μV (From -210 °C up to 1200 °C)	24 μV
		Thermocouple T, with Reference Junction	From -5603 μV up to 20872 μV (From -200 °C up to 400 °C)	23 μV
		Thermocouple B, without Reference Junction	From 291 μV up to 13820 μV (From 250 °C up to 1820 °C)	9 μV
		Thermocouple R, without Reference Junction	From -226 μV up to 21003 μV (From -50 °C up to 1760 °C)	9 μV
		Thermocouple S, without Reference Junction	From -236 μV up to 18609 μV (From -50 °C up to 1760 °C)	9 μV
		Thermocouple N, without Reference Junction	From -3990 μV up to 47513 μV (From -200 °C up to 1300 °C)	11 μV
		Thermocouple K, without Reference Junction	From -5891 μV up to 54819 μV (From -200 °C up to 1370 °C)	11 μV
		Thermocouple E, without Reference Junction	From -8825 μV up to 76373 μV (From -200 °C up to 1000 °C)	13 μV
		Thermocouple J, without Reference Junction	From -8095 μV up to 69553 μV (From -210 °C up to 1200 °C)	12 μV
		Thermocouple T, without Reference Junction	From -5603 μV up to 20872 μV (From -200 °C up to 400 °C)	12 μV
		Resistance thermometer Sensor	From 18.52 Ω up to 390.48Ω (From -200 °C up to 850 °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 °C up to 1820 °C)	10 μV
		Thermocouple R, with Reference Junction	From -226 μV up to 21003 μV (From -50 °C up to 1760 °C)	10 μV
		Thermocouple S, with Reference Junction	From -236 μV up to 18609 μV (From -50 °C up to 1760 °C)	10 μV
		Thermocouple N, with Reference Junction	From -3990 μV up to 47513 μV (From -200 °C up to 1300 °C)	22 μV
		Thermocouple K, with Reference Junction	From -5891 μV up to 54819 μV (From -200 °C up to 1370 °C)	23 μV
		Thermocouple E, with Reference Junction	From -8825 μV up to 76373 μV (From -200 °C up to 1000 °C)	25 μV
		Thermocouple J, with Reference Junction	From -8095 μV up to 69553 μV (From -210 °C up to 1200 °C)	24 μV
		Thermocouple T, with Reference Junction	From -5603 μV up to 20872 μV (From -200 °C up to 400 °C)	23 μV
		Thermocouple B, without Reference Junction	From 291 μV up to 13820 μV (From 250 °C up to 1820 °C)	9 μV
		Thermocouple R, without Reference Junction	From -226 μV up to 21003 μV (From -50 °C up to 1760 °C)	9 μV
		Thermocouple S, without Reference Junction	From -236 μV up to 18609 μV (From -50 °C up to 1760 °C)	9 μV
		Thermocouple N, without Reference Junction	From -3990 μV up to 47513 μV (From -200 °C up to 1300 °C)	11 μV
		Thermocouple K, without Reference Junction	From -5891 μV up to 54819 μV (From -200 °C up to 1370 °C)	11 μV
		Thermocouple E, without Reference Junction	From -8825 μV up to 76373 μV (From -200 °C up to 1000 °C)	13 μV
		Thermocouple J, without Reference Junction	From -8095 μV up to 69553 μV (From -210 °C up to 1200 °C)	12 μV
		Thermocouple T, without Reference Junction	From -5603 μV up to 20872 μV (From -200 °C up to 400 °C)	12 μV
		Resistance thermometer Sensor	From 18.52 Ω up to 390.48Ω (From -200 °C up to 850 °C)	0.10 Ω

<table>
<tr><th colspan="2">Type of Service</th><th colspan="3">Calibration Scope</th><th>CMC
(Level of Confidence
Approximately 95 %)</th></tr>
<tr><td rowspan="4">Electric
Power
Measuring
Equipment, etc.</td><td>Power Meter</td><td colspan="3">From 10 V up to 300 V
From 250 mA up to 30 A
50 Hz, 60 Hz
Power factor; whole range</td><td>0.28 mW/VA
～ 0.32 mW/VA
(Appendix1)</td></tr>
<tr><td>Reactive
Power
Meter</td><td colspan="3">From 10 V up 300 V
From 250 mA up to 30 A
50 Hz, 60 Hz
Power factor, whole range</td><td>0.30 mvar/VA
～ 0.38 mvar/VA
(Appendix1)</td></tr>
<tr><td rowspan="3">Energy
Meter</td><td rowspan="3">110 V,100 V
5 A
50 Hz, 60 Hz</td><td>Three phase three wire system
(include unbalance load)</td><td>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</td><td rowspan="3">0.02 %</td></tr>
<tr><td>Single phase three wire system
(include unbalance load)</td><td>Power factor : 1
Power factor : 0.5 lag
Power factor : 0.5 lead</td></tr>
<tr><td>Single phase two wire system</td><td>Power factor : 1
Power factor : 0.5 lag
Power factor : 0.5 lead</td></tr>
</table>

Appendix1

Category	Calibration Scope						CMC (Level of Confidence Approximately 95 %)
	Type	Phase wire	Frequency	Vottage	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 MΩ up to 2 GΩ		1.0 %
		More than 100 MΩ up to 190 MΩ		2.0 MΩ
		More than 10 MΩ up to 100 MΩ		1.0 %
		More than 1 MΩ up to 10 MΩ		0.20 %
		More than 10 kΩ up to 1 MΩ		0.10 %
		From 1 Ω up to 10 kΩ		0.050 % (lower limit 10 mΩ)
	DC Voltage Source	From 0 μV 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 μV up to 1000 V		0.050 % (lower limit 5 μV)
	Direct Current Source	From 0 μA up to 30 A		0.10 % (lower limit 0.05 μA)
	Direct Current Measuring Equipment	From 0 μA up to 10 A		0.10 % (lower limit 0.10 μA)
		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 °C up to 1820 °C)	10 μV
		Thermocouple R, with Reference Junction	From -226 μV up to 21003 μV (From -50 °C up to 1760 °C)	10 μV
		Thermocouple S, with Reference Junction	From -236 μV up to 18609 μV (From -50 °C up to 1760 °C)	10 μV
		Thermocouple N, with Reference Junction	From -3990 μV up to 47513 μV (From -200 °C up to 1300 °C)	22 μV
		Thermocouple K, with Reference Junction	From -5891 μV up to 54819 μV (From -200 °C up to 1370 °C)	23 μV
		Thermocouple E, with Reference Junction	From -8825 μV up to 76373 μV (From -200 °C up to 1000 °C)	28 μV
		Thermocouple J, with Reference Junction	From -8095 μV up to 69553 μV (From -210 °C up to 1200 °C)	24 μV
		Thermocouple T, with Reference Junction	From -5603 μV up to 20872 μV (From -200 °C up to 400 °C)	23 μV
		Thermocouple B, without Reference Junction	From 291 μV up to 13820 μV (From 250 °C up to 1820 °C)	9 μV
		Thermocouple R, without Reference Junction	From -226 μV up to 21003 μV (From -50 °C up to 1760 °C)	9 μV
		Thermocouple S, without Reference Junction	From -236 μV up to 18609 μV (From -50 °C up to 1760 °C)	9 μV
		Thermocouple N, without Reference Junction	From -3990 μV up to 47513 μV (From -200 °C up to 1300 °C)	11 μV
		Thermocouple K, without Reference Junction	From -5891 μV up to 54819 μV (From -200 °C up to 1370 °C)	11 μV
		Thermocouple E, without Reference Junction	From -8825 μV up to 76373 μV (From -200 °C up to 1000 °C)	13 μV
		Thermocouple J, without Reference Junction	From -8095 μV up to 69553 μV (From -210 °C up to 1200 °C)	12 μV
		Thermocouple T, without Reference Junction	From -5603 μV up to 20872 μV (From -200 °C up to 400 °C)	12 μV
		Resistance thermometer Sensor	From 18.52 Ω up to 390.48Ω (From -200 °C up to 850 °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 °C up to 1820 °C)	10 μV
		Thermocouple R, with Reference Junction	From -226 μV up to 21003 μV (From -50 °C up to 1760 °C)	10 μV
		Thermocouple S, with Reference Junction	From -236 μV up to 18609 μV (From -50 °C up to 1760 °C)	10 μV
		Thermocouple N, with Reference Junction	From -3990 μV up to 47513 μV (From -200 °C up to 1300 °C)	22 μV
		Thermocouple K, with Reference Junction	From -5891 μV up to 54819 μV (From -200 °C up to 1370 °C)	23 μV
		Thermocouple E, with Reference Junction	From -8825 μV up to 76373 μV (From -200 °C up to 1000 °C)	25 μV
		Thermocouple J, with Reference Junction	From -8095 μV up to 69553 μV (From -210 °C up to 1200 °C)	24 μV
		Thermocouple T, with Reference Junction	From -5603 μV up to 20872 μV (From -200 °C up to 400 °C)	23 μV
		Thermocouple B, without Reference Junction	From 291 μV up to 13820 μV (From 250 °C up to 1820 °C)	9 μV
		Thermocouple R, without Reference Junction	From -226 μV up to 21003 μV (From -50 °C up to 1760 °C)	9 μV
		Thermocouple S, without Reference Junction	From -236 μV up to 18609 μV (From -50 °C up to 1760 °C)	9 μV
		Thermocouple N, without Reference Junction	From -3990 μV up to 47513 μV (From -200 °C up to 1300 °C)	11 μV
		Thermocouple K, without Reference Junction	From -5891 μV up to 54819 μV (From -200 °C up to 1370 °C)	11 μV
		Thermocouple E, without Reference Junction	From -8825 μV up to 76373 μV (From -200 °C up to 1000 °C)	13 μV
		Thermocouple J, without Reference Junction	From -8095 μV up to 69553 μV (From -210 °C up to 1200 °C)	12 μV
		Thermocouple T, without Reference Junction	From -5603 μV up to 20872 μV (From -200 °C up to 400 °C)	12 μV
		Resistance thermometer Sensor	From 18.52 Ω up to 390.48Ω (From -200 °C up to 850 °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