

# Schedule

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Singapore 469028

Certificate No. : LA-2005-0324-C  
Issue No. : 24  
Date : 28 April 2026  
Expiry of Certificate : 10 May 2030  
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FIELD OF TESTING: Calibration and Measurement

MEASURED QUANTITIES / INSTRUMENTS/RANGE TO BE CALIBRATED	METHOD	CALIBRATION & MEASUREMENT CAPABILITY (CMC*)
<b>A. DIMENSIONAL METROLOGY</b>		
A1. Bevel Protractor (Lab) i Straightness & Parallelism ii Indication of Error	BS 1685 : 2008 Opus in-house procedure OPCP-01 Rev. A Issue 04	0.003 mm 5 min
A2. Bore Gauge (Lab) (0 ~ 2) mm (Plunger Travel)	JIS B 7515 : 1982 Opus in-house procedure OPCP-02 Rev. A Issue 04	2.0 µm
A3. Vernier Caliper (Lab) (0 ~ 1000) mm	JIS B 7507 : 2016 Opus in-house procedure OPCP-03 Rev. A Issue 04	10 µm
A4. Caliper Checker (Lab) Up to 600 mm Parallelism	Opus in-house procedure OPCP-04 Rev. A Issue 04	1.3 µm 1.2 µm
A5. Dial Caliper Gauge / Dial Thickness Gauge (Lab) Up to 50 mm (Digital) Up to 50 mm (Analog)	Opus in-house procedure OPCP-05 Rev. A Issue 04	1.1 µm 2.2 µm
A6. Dial Gauge Tester (Lab)  Up to 50.8 mm Up to 2 inch	Opus in-house procedure OPCP-06 Rev. A Issue 04	0.3 µm 0.00001 inch

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A7. Dial Indicator (Lab) up to 10 mm above 10 mm to 20 mm above 20 mm to 50 mm above 50 mm to 80 mm above 80 mm to 100 mm	JIS B 7503: 2017 DIN 879-1: 1999 ASME B89.1.10M-2001 Opus in-house procedure OPCP-07 Rev. A Issue 04	0.5 µm 1.0 µm 1.4 µm 2.0 µm 2.5 µm
A8. Dial Test Indicator (Lab)  (0 ~ 1) mm	JIS B 7533: 2015 ASME B89.1.10M-2001 Opus in-house procedure OPCP-08 Rev. A Issue 04	0.6 µm
A9. Digimatic Indicator (Lab) Up to 30 mm Above 30 mm to 50 mm Above 50 mm to 80 mm Above 80 mm to 100 mm	Opus in-house procedure OPCP-09 Rev. A Issue 04	0.8 µm 1.4 µm 2.0 µm 2.5 µm
A10. Feeler Gauge (Lab) Up to 1 mm	BS 957: 2008 Opus in-house procedure OPCP-10 Rev. A Issue 04	1.0 µm
A11. Granite Surface Plate (Lab / on-site) Up to 3000 mm  i Overall Flatness ii Variation from local flatness	BS 817: 2008 Opus in-house procedure OPCP-12 Rev. A Issue 04	3.0 µm 1.0 µm
A12. Linear Height Gauge (Lab / on-site) (0 to 600) mm Above 600 mm to 900 mm	Opus in-house procedure OPCP-13 Rev. A Issue 04	2.0 µm 3.0 µm
A13. Vernier Height Gauge (Lab) up to 600 mm	Opus in-house procedure OPCP-14 Rev. A Issue 04	10 µm
A14. Height Setting Micrometer (Lab) up to 300mm	ISO 7863: 1984(R2018) Opus in-house procedure OPCP-15 Rev. A Issue 04	1.3 µm

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A15. Holtest (Lab) 3 mm to 63 mm Above 63 mm to 100 mm Above 100 mm to 200 mm	DIN 863 Part 4: 1999 & Opus in-house procedure OPCP-16 Rev. A Issue 04	2.3 µm 2.4 µm 3.8 µm
A16. External Micrometer (Lab) Up to 100 mm Above 100 mm to 300 mm Above 300 mm to 500 mm Above 500 mm to 1000mm	Opus in-house procedure OPCP-17 Rev.A Issue 04	1.0 µm 2.0 µm 3.0 µm 4.0 µm
A17. Internal & Stick Micrometer (Lab) i. Micrometer Head – up to 25mm ii. Extension Rod- Up to 300mm	BS 959: 2008 Opus in-house procedure OPCP-18 Rev. A Issue 04	2.0 µm 4.0 µm
A18. Depth Micrometer (Lab) Up to 300mm	BS 6468: 2008 Opus in-house procedure OPCP-19 Rev. A Issue 04	2.0 µm
A19. Pin Gauge / Plug Gauge (Lab) Up to 25 mm Up to 50 mm Up to 100 mm	BS 969: 2008, as a guide Opus in-house procedure OPCP-20 Rev. A Issue 04	0.5 µm 1.0 µm 1.2 µm
A20. Plain Ring Gauge (Lab) 3 mm to 30 mm Above 30 mm to 100 mm Above 100mm to 150mm	BS 969: 2008, as a guide Opus in-house procedure OPCP-21 Rev. A Issue 04	1.0 µm 1.4 µm 2.6 µm
A21. Profile Projector (Lab / on-site) Up to 300 mm Angle	JIS B 7184: 1999 Opus in-house procedure OPCP-22 Rev. A Issue 04	3.0 µm 1 Min
A22. Setting Rod for External Micrometer (Lab) Up to 500 mm Above 500 mm to 1000 mm	Opus in-house procedure OPCP-24 Rev. A Issue 04	1.2 µm 2.0 µm

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A23. Thread Plug Gauge (Lab) Up to 50 mm  i. Pitch Diameter ii. Major Diameter iii. Pitch  iv. Flank Angle	ISO 1502: 1996 ANSI / ASME B1.2: 1983(R2017) BS 919 Pt 1 to Pt 4: 2007 BS 3643 Pt 1 & 2: 2007 BS 1580 Pt 1 & 3: 2007 Opus in-house procedure OPCP-26 Rev .A Issue 04	1.0 µm 1.0 µm 3.0 µm  3.0 min
A24. Toolmaker Microscope (Lab / on-site) Up to 300 mm	JIS B 7153: 1995 Opus in-house procedure OPCP-27 Rev. A Issue 04	3.0 µm
A25. Universal Length Measuring Machine (Lab / on-site)  (0 to 10) mm (10 to 50) mm (50 to 80) mm (80 to 100) mm (100 to 500) mm (500 to 1000) mm	Opus in-house procedure OPCP-31 Rev. A  Issue 04	0.2 µm 0.3 µm 0.4 µm 0.5 µm 2.0 µm 4.0 µm
A26. Vernier Depth Gauge (Lab)  (0 ~ 600) mm	BS 6365: 2008 Opus in-house procedure OPCP-32 Rev. A Issue 04	10 µm
A27. Coating Thickness Foils (Plastic) (Lab)	Opus In-house procedure OPCP36 Rev. A Issue 04	0.6 µm
A28. CMM (Coordinate Measuring Machine) (Lab)  (400x510x420) mm	ISO 10360-2 2009 AS GUIDE Opus in-house procedure OPCP-25 Rev. A Issue 04	4.8 µm
A29. Jig & Fixture Measurements (Lab) (400x 510x420) mm	Opus in-house procedure OPCP-66 Rev. A Issue 04	8 .0 µm
A30. Coating Thickness Gauge (Lab)  (0 ~ 2900) µm	Opus in-house procedure OPCP-35 Rev. A Issue 04	0.7 µm

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<p><b>B. FORCE MEASUREMENT</b></p> <p>B1. Push / Pull Gauge (Lab) up to 500 gf above 0.5 kgf to 5 kgf above 5 kgf to 10 kgf above 10 kgf to 50 kgf</p> <p>B2. Torque Gauge / Torque Meter (Lab) up to 1.5 kgf-cm up to 3.6 kgf-cm up to 9 kgf-cm up to 15 kgf-cm</p> <p>B3. Weighing Scale (Lab/ On-site)  up to 310 g, Resolution: 0.0001g up to 620 g, Resolution: 0.001g up to 5.2 kg, Resolution: 0.01g up to 30 kg, Resolution: 1g up to 100 kg, Resolution: 10g up to 150 kg, Resolution: 20g</p> <p>B4. Hand Torque Tool (Lab) Type I  0.5 to 10 N.m 10 to 50 N.m 50 to 100 N.m 100 to 1000 N.m 1000 to 1500 N.m Type II 0.5 to 10 N.m 10 to 50 N.m 50 to 100 N.m 100 to 1000 N.m 1000 to 1500 N.m</p> <p>B5. Velocity - Optical Tachometer Measuring (Non-Contact Tachometer) 240 ~ 1000 RPM 1000 ~ 5000 RPM 5000 ~ 10000 RPM 10000 ~ 30000 RPM 30000 ~ 60000 RPM</p>	<p>Opus in-house procedure OPCP-23 Rev. A Issue 04</p> <p>Opus in-house procedure OPCP-28 Rev. A Issue 04</p> <p>Opus in-house procedure OPCP-30 Rev.A Issue 04</p> <p>ISO 6789 -1&amp; 2 : 2017 Opus in-house procedure OPCP-29 Rev.A Issue 04</p> <p>Opus in-house procedure OPCP-059 Rev. A Issue 04</p>	<p>0.2 gf 0.002 kgf 0.01 kgf 0.02 kgf</p> <p>0.004 kgf-cm 0.01 kgf-cm 0.02 kgf-cm 0.1 kgf-cm</p> <p>0.0018 g 0.003 g 0.05 g 1.0 g 10 g 20 g</p> <p>1.1 % reading 0.2 % reading 0.3 % reading 0.4 % reading 0.3 % reading</p> <p>1.5 % reading 0.4 % reading 0.5 % reading 0.7 % reading 0.3 % reading</p> <p><b>(Lab &amp; Onsite)</b> 2.0 RPM 2.0 RPM 2.0 RPM 2.0 RPM 3.0 RPM</p>

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B6. Sound Level Meter @1 kHz 94 dB 114 dB	Opus in-house procedure OPCP-073 Rev. 00 Issue 04	0.3 dB 0.3 dB
<b>C. Pressure Instruments (Lab &amp; on-Site)</b>		
C1. Pressure Measuring Devices Pneumatic Pressure Gauges Chart/Pen recorders Digital Indicators Manometers, Data loggers, Compound gauge Oil free & Oxygen Gauges Oil Pressure Gauges  -13 psi to 30 psi 0 to 300 psi 0 to 1000 psi 0 to 3000 psi 0 to 10000 psi	Opus in-house procedure OPCP-033 Rev. 00 Issue 04	0.07 % of F.S 0.03 % of F.S 0.03 % of F.S 0.03 % of F.S 0.03 % of F.S
C2. Pressure Switches (Pneumatic Service/ Oil free & Oxygen Service/ Hydraulic Oil)  0 to 30 psi 0 to 300 psi 0 to 1000 psi 0 to 3000 psi 0 to 10000 psi	Opus in-house procedure OPCP-034 Rev. 00 Issue 04	0.07 % of F.S 0.03 % of F.S 0.03 % of F.S 0.03 % of F.S 0.03 % of F.S
C3. Pressure Transmitter (Pneumatic Service/ Oil free & Oxygen Service/ Hydraulic Oil) 0 to 30 psi 0 to 300 psi 0 to 1000 psi 0 to 3000 psi 0 to 10000 psi	Opus in-house procedure OPCP-037 Rev. 00 Issue 04	0.12 % of F.S 0.12 % of F.S 0.12 % of F.S 0.12 % of F.S 0.12 % of F.S

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<p>C4. Pressure Transducer (Pneumatic Service/ Oil free &amp; Oxygen Service/ Hydraulic Oil)</p> <p>0 to 30 psi 0 to 300 psi 0 to 1000 psi 0 to 3000 psi 0 to 10000 psi</p>	Opus in-house procedure OPCP-037 Rev. 00 Issue 04	0.04 % of F.S 0.03 % of F.S 0.03 % of F.S 0.03 % of F.S 0.03 % of F.S
<p><b>D. Electrical (Lab &amp; on-Site)</b></p> <p>D1. DC VOLTAGE MEASURING</p> <p>0 ~ 50 mV (50 ~ 100) mV (100 ~ 150) mV (150 ~ 202) mV (0.20 ~ 0.25) V (0.25 ~ 0.50) V (0.50 ~ 1.00) V (1.00 ~ 2.02) V (2.00 ~ 10.00) V (10.00 ~ 20.20) V (20 ~ 100) V (100 ~ 202) V (200 ~ 500) V (500 ~ 1000) V</p>	Opus in-house procedure OPCP-053 Rev. 00 Issue 04	0.006 mV 0.0077 mV 0.01 mV 0.012 mV 0.000015 V 0.000024 V 0.000041 V 0.00008 V 0.00034 V 0.0007 V 0.004 V 0.008 V 0.023 V 0.04 V
<p>D2. DC CURRENT MEASURING</p> <p>0 ~ 50 µA (50 ~ 100) µA (100 ~ 150) µA (150 ~ 202) µA (0.200 ~ 0.250) mA (0.250 ~ 0.500) mA (0.500 ~ 1.000) mA (1.00 ~ 2.02) mA</p>	Opus in-house procedure OPCP-049 Rev. 00 Issue 04	0.041 µA 0.047 µA 0.053 µA 0.059 µA 0.00007 mA 0.000093 mA 0.00014 mA 0.00024 mA

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(2.00 ~ 10.00) mA		0.00093 mA
(10.00 ~ 20.2) mA		0.0017 mA
(20 ~ 100) mA		0.013 mA
(100 ~ 202) mA		0.024 mA
(0.200 ~ 1.000) A		0.00022 A
(1.000 ~ 2.020) A		0.00041 A
(2 ~ 10) A		0.0051 A
(10 ~ 20) A		0.010 A
(20 ~ 30) A		0.06 A
D3. AC VOLTAGE MEASURING	Opus in-house procedure OPCP-045 Rev. 00 Issue 04	
(20 ~ 50) mV	10 to 44 Hz 45 to 999 Hz 1 to 19.999 kHz 20 to 99.999 kHz	0.19 mV 0.063 mV 0.23 mV 2.6 mV
(50 ~ 100) mV	10 to 44 Hz 45 to 999 Hz 1 to 19.999 kHz 20 to 99.999 kHz	0.3 mV 0.082 mV 0.26 mV 2.6 mV
(100 ~ 150) mV	10 to 44 Hz 45 to 999 Hz 1 to 19.999 kHz 20 to 99.999 kHz	0.41 mV 0.11 mV 0.29 mV 2.6 mV
(150 ~ 202) mV	10 to 44 Hz 45 to 999 Hz 1 to 19.999 kHz 20 to 99.999 kHz	0.53 mV 0.13 mV 0.33 mV 2.7 mV
(0.200 ~ 0.250) V	10 to 44 Hz 45 to 999 Hz 1 to 19.999 kHz 20 to 99.999 kHz 100 to 500 kHz	0.00099 V 0.00046 V 0.0023 V 0.0038 V 0.026 V
(0.250 ~ 0.500) V	10 to 44 Hz 45 to 999 Hz 1 to 19.999 kHz 20 to 99.999 kHz 100 to 500 kHz	0.0016 V 0.00053 V 0.0023 V 0.0044 V 0.026 V

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(0.500 ~ 1.000) V	10 to 44 Hz 45 to 999 Hz 1 to 19.999 kHz 20 to 99.999 kHz 100 to 500 kHz	0.0028 V 0.0007 V 0.0025 V 0.0057 V 0.027 V
(1.00 ~ 2.020) V	10 to 44 Hz 45 to 999 Hz 1 to 19.999 kHz 20 to 99.999 kHz 100 to 500 kHz	0.0052 V 0.0012 V 0.0032 V 0.0085 V 0.03 V
(2.00 ~ 10.00) V	40 to 44 Hz 45 to 999 Hz 1 to 19.999 kHz	0.027 V 0.0086 V 0.022 V
(10.0 ~ 20.2) V	40 to 44 Hz 45 to 999 Hz 1 to 19.999 kHz	0.051 V 0.012 V 0.027 V
(20.0 ~ 100) V	40 to 44 Hz 45 to 999 Hz	0.096 V 0.13 V
(100 ~ 202) V	40 to 44 Hz 45 to 999 Hz	0.2 V 0.16 V
(200 ~ 500) V	40 to 44 Hz 45 to 999 Hz	0.71 V 0.48 V
(500 ~ 1000) V	45 to 999 Hz 1 to 10 kHz	0.91 V 2.3 V
D4. AC CURRENT MEASURING	Opus in-house procedure OPCP-041 Rev. 00 Issue 04	
(20 ~ 50) $\mu$ A	40 to 44 Hz 45 to 999 Hz	0.41 $\mu$ A 0.34 $\mu$ A
(50 ~ 100) $\mu$ A	40 to 44 Hz 45 to 999 Hz	0.53 $\mu$ A 0.38 $\mu$ A
(100 ~ 150) $\mu$ A	40 to 44 Hz 45 to 999 Hz	0.64 $\mu$ A 0.42 $\mu$ A
(150 ~ 202) $\mu$ A	40 to 44 Hz 45 to 999 Hz	0.76 $\mu$ A 0.46 $\mu$ A

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(0.200 ~ 0.250) mA	40 to 44 Hz 45 to 999 Hz	0.0015 mA 0.00077 mA
(0.250 ~ 0.500) mA	40 to 44 Hz 45 to 999 Hz	0.0020 mA 0.0009 mA
(0.500 ~ 1.000) mA	40 to 44 Hz 45 to 999 Hz	0.0031mA 0.0013mA
(1.00 ~ 2.02) mA	40 to 44 Hz 45 to 999 Hz	0.0054mA 0.002 mA
AC CURRENT MEASURING (Continue)	Opus in-house procedure OPCP-041 Rev. 00 Issue 04	
(2 ~ 10) mA	40 to 44 Hz 45 to 999 Hz	0.029 mA 0.012 mA
(10 ~ 20.2) mA	40 to 44 Hz 45 to 999 Hz	0.053 mA 0.02 mA
(20 ~ 100) mA	40 to 44 Hz 45 to 999 Hz	0.30 mA 0.12 mA
(100 ~ 202) mA	40 to 44 Hz 45 to 999 Hz	0.53 mA 0.2 mA
(0.200 ~ 1.000) A	40 to 44 Hz 45 to 999 Hz	0.0029 A 0.0023 A
(1.000 ~ 2.02) A	40 to 44 Hz 45 to 999 Hz	0.0053 A 0.0026 A
(2.000 ~ 10) A	30 to 44 Hz 45 to 99 Hz 0.10 to 1 kHz	0.029 A 0.014 A 0.039 A

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(10 ~ 20) A	30 to 44 Hz 45 to 99 Hz 0.10 to 1 kHz	0.053 A 0.025 A 0.075 A
(20 ~ 30) A	30 to 44 Hz 45 to 99 Hz 0.10 to 1 kHz	0.077 A 0.036 A 0.11 A
D5. RESISTANCE MEASURING (passive) - 2 wire	Opus in-house procedure OPCP-038 Rev. 00 Issue 04	
185 mΩ		47 mΩ
280 mΩ		47 mΩ
1.2502 Ω		0.047 Ω
10.191 Ω		0.048 Ω
100.212 Ω		0.052 Ω
1.000229 kΩ		0.00014 kΩ
10.0005 kΩ		0.00097 kΩ
100.001 kΩ		0.0094 kΩ
0.999827 MΩ		0.00017 MΩ
9.99886 MΩ		0.0046 MΩ
99.943 MΩ		0.59 MΩ
993.54 MΩ		12 MΩ
D6. RESISTANCE MEASURING (passive) - 4 Wire	Opus in-house procedure OPCP-039 Rev. 00 Issue 04	
0 mΩ		5.8 mΩ
100.00 mΩ		5.8 mΩ
1.00367 Ω		0.0059 Ω
10.0079 Ω		0.007 Ω
100.00365 Ω		0.012 Ω
1.000015 kΩ		0.000093 kΩ
10.000270 kΩ		0.00093 kΩ
100.0005 kΩ		0.0093 kΩ
D7. CAPACITANCE MEASURING	Opus in-house procedure OPCP-046 Rev. 00 Issue 04	
1.0014 nF	1 kHz	0.027 nF
10.096 nF		0.06 nF



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(10 ~ 50) A (50 ~ 100) A (100 ~ 500) A (500 ~ 1000) A (1000 ~ 1500) A  D12. INSULATION RESISTANCE MEASURING  (10 ~ 50) kΩ (50 ~ 100) kΩ (100 ~ 500) kΩ (0.50 ~1.00) MΩ (1 ~ 5) MΩ (5 ~ 10) MΩ (10 ~ 50) MΩ (50 ~ 100) MΩ (100 ~ 500) MΩ (500 ~ 1000) MΩ (1000 ~ 2000) MΩ	Opus in-house procedure OPCP-057 Rev. 00 Issue 04	0.4 A 0.9 A 4.0 A 6.0 A 9.0 A  0.12 kΩ 0.24 kΩ 1.2 kΩ 0.0024 MΩ 0.012 MΩ 0.35 MΩ 1.8 MΩ 3.5 MΩ 18 MΩ 36 MΩ 70 MΩ
D13. INSULATION TEST VOLTAGE MEASURING  0 ~ 50 V 50 V ~ 100 V 100 V ~ 250 V 250 V ~ 500 V 500 V ~ 1000 V	Opus in-house procedure OPCP-058 Rev. 00 Issue 04	0.32 V 0.61 V 1.5 V 3 V 5.8 V
D14. CONTINUITY RESISTANCE MEASURING  1 Ω 10 Ω 19 Ω 100 Ω 190 Ω 1000 Ω	Opus in-house procedure OPCP-047 Rev. 00 Issue 04	0.061 Ω 0.081 Ω 0.11 Ω 0.29 Ω 0.5 Ω 2.4 Ω

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<p>D15. DC VOLTAGE SOURCING</p> <p>0 ~ 100 mV (0.100 ~ 1) V (1 ~ 10) V (10 ~ 100) V (100 ~ 500) V (500 ~ 1000) V</p>	<p>Opus in-house procedure OPCP-052 Rev. 00 Issue 04</p>	<p>0.0085 mV 0.000038 V 0.00034 V 0.0052 V 0.036 V 0.06 V</p>
<p>D16. AC VOLTAGE SOURCING</p> <p>(1 ~ 100) mV (0.100 ~ 1) V (1 ~ 10) V (10 ~ 100) V (100 ~ 500) V (500 ~ 1000) V</p>	<p>Opus in-house procedure OPCP-044 Rev. 00 Issue 04 (10 Hz to 20 kHz)</p>	<p>0.17 mV 0.0011 V 0.011 V 0.11 V 0.64 V 1.1 V</p>
<p>D17. DC CURRENT SOURCING</p> <p>0 ~ 100 µA (0.100 ~ 1) mA (1 ~ 10) mA (10 ~ 100) mA (100 ~ 400) mA (0.400 ~ 1) A (1 ~ 3) A (3 ~ 10) A</p>	<p>Opus in-house procedure OPCP-048 Rev. 00 Issue 04</p>	<p>0.088 µA 0.00064 mA 0.0082 mA 0.064 mA 0.26 mA 0.00082 A 0.0042 A 0.02 A</p>
<p>D18. AC CURRENT SOURCING</p> <p>(20 ~ 100) µA (0.100 ~ 1) mA (1 ~ 10) mA (10 ~ 100) mA (100 ~ 400) mA (0.400 ~ 1) A (1 ~ 3) A (3 ~ 10) A</p>	<p>Opus in-house procedure OPCP-040 Rev. 00 Issue 04 (10 Hz to 1 kHz)</p>	<p>0.25 µA 0.0017 mA 0.025 mA 0.17 mA 0.94 mA 0.0017 A 0.0088 A 0.025 A</p>

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<p>D19. RESISTANCE SOURCING</p> <p>(1 ~ 10) <math>\Omega</math>                      (10 ~ 100) <math>\Omega</math>                      (0.100 ~ 1) k<math>\Omega</math>                      (1 ~ 10) k<math>\Omega</math>                      (10 ~ 100) k<math>\Omega</math>                      (0.1 ~ 1) M<math>\Omega</math>                      (1 ~ 10) M<math>\Omega</math></p>	Opus in-house procedure OPCP-061 Rev. 00 Issue 04	0.0047 $\Omega$ 0.017 $\Omega$ 0.00013 k $\Omega$ 0.0013 k $\Omega$ 0.014 k $\Omega$ 0.00014 M $\Omega$ 0.0049 M $\Omega$
<p>D20. FREQUENCY SOURCING</p> <p>3 Hz ~ 100 Hz                      100 Hz ~ 1000 Hz                      1 kHz ~ 10 kHz                      10 kHz ~ 100 kHz                      100 kHz ~ 1000 kHz</p>	Opus in-house procedure OPCP-054 Rev. 00 Issue 04	0.013 Hz 0.12 Hz 0.0012 kHz 0.012 kHz 0.12 kHz
<p>D21. DC POWER MEASURING</p> <p>(0.3 ~ 10) W                      (10 ~ 100) W                      (100 ~ 500) W                      (0.500 ~ 1.000) kW                      1 kW ~ 12 kW</p>	Opus in-house procedure OPCP-051 Rev. 00 Issue 04	0.011 W 0.2 W 0.99 W 0.0013 kW 0.01 kW
<p>D22. AC POWER MEASURING (Power Factor = 1)</p> <p>(0.3 ~ 100) W                      (10 ~ 100) W                      (100 ~ 500) W                      (0.500 ~ 1.000) kW                      1 kW ~ 12 kW</p>	Opus in-house procedure OPCP-043 Rev. 00 Issue 04 (50 Hz & 400 Hz)	0.12 W 0.6 W 1.2 W 0.0018 kW 0.014 kW
<p>D23. DC HIGH VOLTAGE SOURCING</p> <p>0 ~ 1 kV                      (1 ~ 5) kV                      (5 ~ 10) kV                      (10 ~ 20) kV                      (20 ~ 30) kV                      (30 ~ 40) kV</p>	Opus in-house procedure OPCP-050 Rev. 00 Issue 04	0.09 kV 0.15 kV 0.24 kV 0.7 kV 1.5 kV 1.6 kV

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<p>D24. TIMER / STOPWATCH MEASURING</p> <p>1 s ~ 36000 s 36000 s ~ 54000 s</p>	<p>Opus in-house procedure OPCP-060 Rev. A Issue 04</p>	<p>0.4 s 0.5 s</p>
<p>D25. AC HIGH VOLTAGE SOURCING (50 Hz)</p> <p>0.01 kV ~ 1 kV 1 kV ~ 5 kV 5 kV ~ 10 kV 10 kV ~ 20 kV 20 kV ~ 28 kV</p>	<p>Opus in-house procedure OPCP-042 Rev. 00 Issue 04</p>	<p>0.12 kV 0.32 kV 0.73 kV 1.5 kV 1.9 kV</p>
<p>D26. Milli-Ohm meter / Continuity Tester</p> <p>10 mΩ @ 5 A 22 mΩ @ 5 A 30 mΩ @ 5 A 51 mΩ @ 5 A 100 mΩ @ 5 A 500 mΩ @ 2 A 1 Ω @ 2 A 2 Ω @ 2 A 5 Ω @ 0.1 A 10 Ω @ 0.1 A 20 Ω @ 0.1 A 50 Ω @ 0.1 A 100 Ω @ 0.05 A 200 Ω @ 0.025 A 500 Ω @ 0.01 A 1000 Ω @ 0.005 A</p>	<p>Opus in-house procedure OPCP-056 Rev. 00 Issue 04</p>	<p>0.86 mΩ 0.87 mΩ 0.99 mΩ 1.6 mΩ 2.6 mΩ 6.3 mΩ 0.071 Ω 0.079 Ω 0.096 Ω 0.13 Ω 0.26 Ω 0.58 Ω 1.2 Ω 3.3 Ω 5.8 Ω 12 Ω</p>
<p>D27. High Voltage Insulation Resistance Measuring</p> <p>10 kΩ @ 100 V 500 kΩ @ 1 kV 1 MΩ @ 1 kV 2 MΩ @ 1 kV 4 MΩ @ 1 kV 5 MΩ @ 1 kV 10 MΩ @ 1 kV 20 MΩ @ 1 kV</p>	<p>Opus in-house procedure OPCP-056 Rev. 00 Issue 04</p>	<p>0.47 kΩ 5.8 kΩ 0.012 MΩ 0.024 MΩ 0.047 MΩ 0.068 MΩ 0.12 MΩ 0.24 MΩ</p>

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30 MΩ @ 1 kV 40 MΩ @ 1 kV 50 MΩ @ 1 kV 100 MΩ @ 1 kV 200 MΩ @ 1 kV 500 MΩ @ 1 kV 1000 MΩ @ 1 kV 2000 MΩ @ 1 kV 5000 MΩ @ 1 kV		0.36 MΩ 0.5 MΩ 0.59 MΩ 1.4 MΩ 3.8 MΩ 8.2 MΩ 14 MΩ 29 MΩ 69 MΩ													
<b>E. Temperature</b>															
<b>E1. (a) Temperature</b> Indicator/controller, Digital Thermometer & Temperature Measuring Instruments (electrical simulation)	Opus in-house procedure OPCP-062 Rev. 00 Issue 04														
Thermocouple Simulation -Type J -210 °C to -100 °C -100 °C to -30 °C -30 °C to 150 °C 150 °C to 760 °C 760 °C to 1200 °C		<table border="0"> <thead> <tr> <th style="text-align: left;">Lab</th> <th style="text-align: left;">Onsite</th> </tr> </thead> <tbody> <tr> <td>0.38 °C</td> <td>1.2 °C</td> </tr> <tr> <td>0.30 °C</td> <td>1.2 °C</td> </tr> <tr> <td>0.29 °C</td> <td>1.0 °C</td> </tr> <tr> <td>0.33 °C</td> <td>1.0 °C</td> </tr> <tr> <td>0.36 °C</td> <td>1.1 °C</td> </tr> </tbody> </table>		Lab	Onsite	0.38 °C	1.2 °C	0.30 °C	1.2 °C	0.29 °C	1.0 °C	0.33 °C	1.0 °C	0.36 °C	1.1 °C
Lab	Onsite														
0.38 °C	1.2 °C														
0.30 °C	1.2 °C														
0.29 °C	1.0 °C														
0.33 °C	1.0 °C														
0.36 °C	1.1 °C														
Thermocouple Simulation -Type K -200 °C to -100 °C -100 °C to -25 °C -25 °C to 120 °C 120 °C to 1000 °C 1000 °C to 1370 °C		<table border="0"> <tbody> <tr> <td>0.42 °C</td> <td>1.2 °C</td> </tr> <tr> <td>0.32 °C</td> <td>1.2 °C</td> </tr> <tr> <td>0.30 °C</td> <td>0.96 °C</td> </tr> <tr> <td>0.35 °C</td> <td>0.96 °C</td> </tr> <tr> <td>0.40 °C</td> <td>1.1 °C</td> </tr> </tbody> </table>		0.42 °C	1.2 °C	0.32 °C	1.2 °C	0.30 °C	0.96 °C	0.35 °C	0.96 °C	0.40 °C	1.1 °C		
0.42 °C	1.2 °C														
0.32 °C	1.2 °C														
0.30 °C	0.96 °C														
0.35 °C	0.96 °C														
0.40 °C	1.1 °C														
Thermocouple Simulation -Type T -250 °C to -150 °C -150 °C to 0 °C 0 °C to 120 °C 120 °C to 400 °C		<table border="0"> <tbody> <tr> <td>0.76 °C</td> <td>1.3 °C</td> </tr> <tr> <td>0.29 °C</td> <td>1.2 °C</td> </tr> <tr> <td>0.29 °C</td> <td>0.89 °C</td> </tr> <tr> <td>0.3 °C</td> <td>0.89 °C</td> </tr> </tbody> </table>		0.76 °C	1.3 °C	0.29 °C	1.2 °C	0.29 °C	0.89 °C	0.3 °C	0.89 °C				
0.76 °C	1.3 °C														
0.29 °C	1.2 °C														
0.29 °C	0.89 °C														
0.3 °C	0.89 °C														
Thermocouple Simulation -Type R -0 °C to 250 °C 250 °C to 1000 °C 1000 °C to 1760 °C		<table border="0"> <tbody> <tr> <td>0.97 °C</td> <td>2.2 °C</td> </tr> <tr> <td>0.60 °C</td> <td>2.0 °C</td> </tr> <tr> <td>0.66 °C</td> <td>2.0 °C</td> </tr> </tbody> </table>		0.97 °C	2.2 °C	0.60 °C	2.0 °C	0.66 °C	2.0 °C						
0.97 °C	2.2 °C														
0.60 °C	2.0 °C														
0.66 °C	2.0 °C														

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Thermocouple Simulation -Type S 0 °C to 250 °C 250 °C to 1000 °C 1000 °C to 1760 °C	Opus in-house procedure OPCP-062 Rev. 00 Issue 04	0.97 °C	2.2 °C
		0.58 °C	2.0 °C
		0.66 °C	2.0 °C
Thermocouple Simulation -Type N -200 °C to -100 °C -100 °C to -25 °C -25 °C to 120 °C 120 °C to 410 °C 410 °C to 1300 °C		<b>Lab</b>	<b>Onsite</b>
		0.56 °C	1.2 °C
		0.36 °C	0.92 °C
		0.33 °C	0.92 °C
		0.32 °C	0.92 °C
		0.39 °C	0.92 °C
Thermocouple Simulation - Type E -250 °C to -100 °C -100 °C to -25 °C -25 °C to 350 °C 350 °C to 650 °C 650 °C to 1000 °C		0.71 °C	1.6 °C
		0.29 °C	1.5 °C
		0.29 °C	1.2 °C
		0.31 °C	1.2 °C
		0.32 °C	1.2 °C
(b) Temperature Calibrator / Temperature Sourcing Instruments (Electrical Simulation)		<b>Lab</b>	<b>Onsite</b>
Thermocouple Measuring - Type J -210 °C to -100 °C -100 °C to -30 °C -30 °C to 150 °C 150 °C to 760 °C 760 °C to 1200 °C	0.62 °C	0.93 °C	
	0.58 °C	0.93 °C	
	0.57 °C	0.75 °C	
	0.59 °C	0.82 °C	
	0.60 °C	0.85 °C	
Thermocouple Measuring - Type K -200 °C to -100 °C -100 °C to -25 °C -25 °C to 120 °C 120 °C to 1000 °C 1000 °C to 1370 °C	0.56 °C	1.1 °C	
	0.49 °C	1.0 °C	
	0.48 °C	0.78 °C	
	0.51 °C	0.78 °C	
	0.55 °C	1.0 °C	
Thermocouple Measuring - Type T -250 °C to -150 °C -150 °C to 0 °C 0 °C to 120 °C 120 °C to 400 °C	0.91 °C	1.1 °C	
	0.58 °C	1.1 °C	
	0.58 °C	0.73 °C	
	0.58 °C	0.73 °C	

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Thermocouple Measuring - Type R  -0 °C to 250 °C 250 °C to 1000 °C 1000 °C to 1760 °C		<b>Lab</b> 1.1 °C 0.8 °C 0.9 °C	<b>Onsite</b> 2.0 °C 1.8 °C 1.9 °C
Thermocouple Measuring - Type S  0 °C to 250 °C 250 °C to 1000 °C 1000 °C to 1760 °C		1.3 °C 1.0 °C 1.1 °C	2.0 °C 1.8 °C 1.9 °C
Thermocouple Measuring - Type N  -200 °C to -100 °C -100 °C to -25 °C -25 °C to 120 °C 120 °C to 410 °C 410 °C to 1300 °C		0.81 °C 0.68 °C 0.67 °C 0.67 °C 0.70 °C	1.4 °C 1.4 °C 0.96 °C 1.0 °C 1.0 °C
Thermocouple Measuring - Type E  -250 °C to -100 °C -100 °C to -25 °C -25 °C to 350 °C 350 °C to 650 °C 650 °C to 1000 °C		0.87 °C 0.58 °C 0.57 °C 0.58 °C 0.59 °C	1.3 °C 0.73 °C 0.73 °C 0.73 °C 0.73 °C
E2. (a) RTD Indicator / Digital Thermometer  <b>(PRT100- 4 wire)</b> -99.983 °C 0.021 °C 30.016 °C 60.020 °C 99.983 °C 199.96 °C 399.86 °C 799.36 °C	Opus in-house procedure OPCP-063 Rev. 00 Issue 04	<b>Lab</b> 0.06 °C 0.03 °C 0.04 °C 0.05 °C 0.06 °C 0.08 °C 0.09 °C 0.10 °C	

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<p><b>(2 wire)</b>  PRT100  -200 °C to 0 °C  0 °C to 300 °C  300 °C to 800 °C</p> <p>PRT25  -200 °C to 0 °C  0 °C to 800 °C</p> <p>PRT250  -200 °C to 0 °C  0 °C to 800 °C</p> <p>PRT500  -200 °C to 0 °C  0 °C to 800 °C</p> <p>PRT1000  -200 °C to 0 °C  0 °C to 800 °C</p> <p>(b) RTD Calibrator/Sourcing instruments (Simulation)</p> <p><b>(PRT100-4 wire)</b>  -200 °C to 0 °C  0 °C to 200 °C  200 °C to 600 °C  600 °C to 800 °C</p> <p><b>(PRT100-2 wire)</b>  -200 °C to 0 °C  0 °C to 200 °C  200 °C to 600 °C  600 °C to 800 °C</p>	<p>Opus in-house procedure OPCP-063  Rev. 00 Issue 04</p>	<table border="0"> <tr> <td><b>Lab</b></td> <td><b>Onsite</b></td> </tr> <tr> <td>0.16 °C</td> <td>0.24 °C</td> </tr> <tr> <td>0.64 °C</td> <td>0.42 °C</td> </tr> <tr> <td>0.64 °C</td> <td>0.61 °C</td> </tr> <tr> <td><b>Lab</b></td> <td></td> </tr> <tr> <td>0.58 °C</td> <td></td> </tr> <tr> <td>0.70 °C</td> <td></td> </tr> <tr> <td><b>Lab</b></td> <td></td> </tr> <tr> <td>0.29 °C</td> <td></td> </tr> <tr> <td>0.35 °C</td> <td></td> </tr> <tr> <td><b>Lab</b></td> <td></td> </tr> <tr> <td>0.12 °C</td> <td></td> </tr> <tr> <td>1.1 °C</td> <td></td> </tr> <tr> <td><b>Lab</b></td> <td></td> </tr> <tr> <td>0.10 °C</td> <td></td> </tr> <tr> <td>0.52 °C</td> <td></td> </tr> <tr> <td><b>Lab</b></td> <td><b>Onsite</b></td> </tr> <tr> <td>0.11 °C</td> <td>0.27 °C</td> </tr> <tr> <td>0.16 °C</td> <td>0.31 °C</td> </tr> <tr> <td>0.27 °C</td> <td>0.42 °C</td> </tr> <tr> <td>0.27 °C</td> <td>0.53 °C</td> </tr> <tr> <td><b>Lab</b></td> <td><b>Onsite</b></td> </tr> <tr> <td>0.17 °C</td> <td>0.26 °C</td> </tr> <tr> <td>0.18 °C</td> <td>0.71 °C</td> </tr> <tr> <td>0.22 °C</td> <td>0.77 °C</td> </tr> <tr> <td>0.23 °C</td> <td>0.84 °C</td> </tr> </table>	<b>Lab</b>	<b>Onsite</b>	0.16 °C	0.24 °C	0.64 °C	0.42 °C	0.64 °C	0.61 °C	<b>Lab</b>		0.58 °C		0.70 °C		<b>Lab</b>		0.29 °C		0.35 °C		<b>Lab</b>		0.12 °C		1.1 °C		<b>Lab</b>		0.10 °C		0.52 °C		<b>Lab</b>	<b>Onsite</b>	0.11 °C	0.27 °C	0.16 °C	0.31 °C	0.27 °C	0.42 °C	0.27 °C	0.53 °C	<b>Lab</b>	<b>Onsite</b>	0.17 °C	0.26 °C	0.18 °C	0.71 °C	0.22 °C	0.77 °C	0.23 °C	0.84 °C
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<p>E3. (a) Contact thermometer with/ without display (RTD Probe/ RTD probe c/w display)</p> <p>-30 °C to 0 °C  0 °C to 125 °C  125 °C to 250 °C  250 °C to 400 °C</p>	<p>Opus in-house procedure OPCP-064  Rev. B Issue 04</p>	<table border="0"> <tr> <td><b>Lab</b></td> <td><b>Onsite</b></td> </tr> <tr> <td>0.16 °C</td> <td>0.16 °C</td> </tr> <tr> <td>0.16 °C</td> <td>0.16 °C</td> </tr> <tr> <td>0.25 °C</td> <td>0.25 °C</td> </tr> <tr> <td>0.64 °C</td> <td>0.64 °C</td> </tr> </table>	<b>Lab</b>	<b>Onsite</b>	0.16 °C	0.16 °C	0.16 °C	0.16 °C	0.25 °C	0.25 °C	0.64 °C	0.64 °C																																										
<b>Lab</b>	<b>Onsite</b>																																																					
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<p>(b) Bimetal thermometer/ Temperature transmitter/ Recorder/ Switch</p> <p>-30 °C to 0 °C 0 °C to 125 °C 125 °C to 250 °C 250 °C to 400 °C</p>		<p><b>Lab</b></p> <p>0.18 °C 0.25 °C 0.38 °C 0.70 °C</p> <p><b>Onsite</b></p> <p>0.18 °C 0.25 °C 0.38 °C 0.70 °C</p>	
<p>E4. (a) Thermocouple with/ without display</p> <p>-30 °C to 0 °C 0 °C to 125 °C 125 °C to 250 °C 250 °C to 400 °C</p>	<p>Opus in-house procedure OPCP-065 Rev. B Issue 04</p>	<p><b>Lab</b></p> <p>0.31 °C 0.34 °C 0.40 °C 0.78 °C</p>	
<p>Thermocouple with display</p> <p>-30 °C to 0 °C 0 °C to 125 °C 125 °C to 250 °C 250 °C to 400 °C</p>	<p>Opus in-house procedure OPCP-065 Rev. B Issue 04</p>	<p><b>Onsite</b></p> <p>0.22 °C 0.30 °C 0.35 °C 0.73 °C</p>	
<p>Thermocouple without display</p> <p>K Type</p> <p>-30 °C to 0 °C 0 °C to 250 °C 250 °C to 400 °C</p>	<p>Opus in-house procedure OPCP-065 Rev. B Issue 04</p>	<p><b>Onsite</b></p> <p>0.95 °C 0.57 °C 0.86 °C</p>	
<p>J Type</p> <p>-30 °C to 0 °C 0 °C to 250 °C 250 °C to 400 °C</p>		<p><b>Onsite</b></p> <p>0.72 °C 0.57 °C 0.86 °C</p>	
<p>T Type</p> <p>-30 °C to 0 °C 0 °C to 250 °C 250 °C to 400 °C</p>		<p><b>Onsite</b></p> <p>0.95 °C 0.57 °C 0.86 °C</p>	
<p>R/ S Type</p> <p>-30 °C to 0 °C 0 °C to 250 °C 250 °C to 400 °C</p>		<p><b>Onsite</b></p> <p>1.6 °C 1.7 °C 1.8 °C</p>	

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<p>N Type -30 °C to 0 °C 0 °C to 250 °C 250 °C to 400 °C</p> <p>E Type -30 °C to 0 °C 0 °C to 250 °C 250 °C to 400 °C</p> <p>(b) Thermocouple extension wire (Thermocouple simulation wire)</p> <p>K TYPE 0 °C to 50 °C J TYPE 0 °C to 50 °C T TYPE 0 °C to 50 °C R TYPE 0 °C to 50 °C S TYPE 0 °C to 50 °C N TYPE 0 °C to 50 °C E TYPE 0 °C to 50 °C</p>	Opus in-house procedure OPCP-065 Rev. B Issue 04	<p><b>Onsite</b> 1.2 °C 0.77 °C 1.0 °C</p> <p><b>Onsite</b> 0.51 °C 0.57 °C 0.86 °C</p> <p><b>Lab</b> 6.4 µV 7.3 µV 6.5 µV 4.8 µV 4.8 µV 5.6 µV 8.2 µV</p>	
E5. Dry block calibrator/ Liquid bath  -30 °C to 125 °C 125 °C to 250 °C 250 °C to 500 °C	Opus in-house procedure OPCP-067 Rev. 00 Issue 04	<b>Lab</b> 0.15 °C 0.20 °C 0.61 °C	<b>Onsite</b> 0.15 °C 0.20 °C 0.61 °C
E6. Temperature & Humidity Measurement (Thermohygrometer/Barometer/ Humidity transmitter/Recorder/ Thermohygrograph)  10 °C to 50 °C 30 %r.h to 90% r.h.	Opus in-house procedure OPCP-068 Rev. 00 Issue 04	<b>Lab</b> 0.5 °C 3.0 % relative humidity	
E7. (a) Surface Probe with/without display Up to 50 °C 50 °C to 150 °C 150 °C to 200 °C 200 °C to 350 °C	Opus in-house procedure OPCP-069 Rev. 00 Issue 04	<b>Lab</b> 3.0 °C 3.4 °C 4.4 °C 4.7 °C	<b>Onsite</b> 3.0 °C 3.4 °C 4.4 °C 4.7 °C

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(b) Hot Plate  Up to 50 °C 50 °C to 150 °C 150 °C to 350 °C	Opus in-house procedure OPCP-069 Rev. 00 Issue 04	<b>Lab</b> 3.0 °C 3.2 °C 4.4 °C	<b>Onsite</b> 3.0 °C 3.2 °C 4.4 °C
E8. (a) Temperature enclosures (Oven/Freezer/Incubator/Furnace)  -80 °C to 100 °C 100 °C to 200 °C 200 °C to 400 °C 400 °C to 600 °C 600 °C to 800 °C 800 °C to 1000 °C 1000 °C to 1100 °C	Opus in-house procedure OPCP-070 Rev. 00 Issue 04	<b>Lab</b> 1.7 °C 2.1 °C 2.9 °C 3.3 °C 4.1 °C 5.1 °C 5.6 °C	<b>Onsite</b> 1.7 °C 2.1 °C 2.9 °C 3.3 °C 4.1 °C 5.1 °C 5.6 °C
(b) Temperature & Humidity enclosures (Chamber)  10 ~ 25 °C / up to 20 %r.h. 10 ~ 25 °C / 20 ~ 50 %r.h. 10 ~ 25 °C / 50 ~ 90 %r.h. 25 ~ 50 °C / up to 20 %r.h. 25 ~ 50 °C / 20 ~ 50 %r.h. 25 ~ 50 °C / 50 ~ 90 %r.h.	Opus in-house procedure OPCP-070 Rev. 00 Issue 04	<b>(Lab &amp; Onsite)</b> Temperature / Humidity 0.9 °C 3.1 %r.h. 0.9 °C 4.2 %r.h. 0.9 °C 6.3 %r.h. 1.0 °C 3.1 %r.h. 1.0 °C 4.1 %r.h. 1.0 °C 5.4 %r.h.	
(c) System Accuracy test (Temperature) -80 °C to 200 °C 200 °C to 400 °C 400 °C to 800 °C 800 °C to 1000 °C 1000 °C to 1100 °C	Opus in-house procedure OPCP-070 Rev. 00 Issue 04	<b>Lab</b> 1.5 °C 2.3 °C 3.5 °C 4.9 °C 5.5 °C	<b>Onsite</b> 1.5 °C 2.3 °C 3.5 °C 4.9 °C 5.5 °C
System Accuracy test (Temperature/Humidity)  (10 ~ 50) °C / (20 ~ 90) %r.h.		<b>(Lab &amp; Onsite)</b> Temperature / Humidity 0.5 °C 3.0 %r.h.	

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MEASURED QUANTITIES / INSTRUMENTS/RANGE TO BE CALIBRATED	METHOD	CALIBRATION & MEASUREMENT CAPABILITY (CMC*)
E9. Non-contact thermometer  Emissivity ( $\epsilon=0.95$ ) Up to 50 °C 50 °C to 100 °C 100 °C to 200 °C 200 °C to 300 °C 300 °C to 400 °C 400 °C to 500 °C	Opus in-house procedure OPCP-071 Rev. 00 Issue 04	<b>Lab</b> 0.9 °C 1.1 °C 2.3 °C 2.9 °C 3.6 °C 5.3 °C

\* CMC is expressed as an expanded uncertainty estimated at a level of confidence of approximately 95%.

## Approved Signatories

Mr Peter Foo - For all items except E2

Mr R Senthil - For Categories B, C, D, E

## Note :

This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025. A laboratory's fulfilment of the requirements of ISO/IEC 17025 means the laboratory meets both the technical competence requirements and **management system requirements** that are necessary for it to consistently deliver technically valid calibrations. The **management system requirements** in ISO/IEC 17025 are written in language relevant to laboratory operations and operate generally in accordance with the principles of ISO 9001.