

# Schedule

Metrix Precision Pte Ltd  
No. 23 Tagore Lane  
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Singapore 787601

Certificate No. : LA-2014-0581-C

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FIELD OF TESTING : Calibration and Measurement

MEASURED QUANTITIES / RANGE / INSTRUMENT TO BE CALIBRATED	METHOD	CALIBRATION & MEASUREMENT CAPABILITY ( * )
<p><b>A. Dimensional Metrology</b></p> <p><b>1. Geometrical Measurement (Lab &amp; Site)</b></p> <p>2 i. Flatness measurement</p> <ul style="list-style-type: none"> <li>• Optical Parallel Dia 12 mm</li> <li>• Dial Test Indicator Up to 100 mm 101 mm to 500 mm Up to 1000 mm</li> </ul> <p>ii. Parallelism &amp; Straightness measurement</p> <ul style="list-style-type: none"> <li>• Optical parallel</li> <li>• Dial Test Indicator Up to 100 mm 101 mm to 1000mm</li> <li>• Mu-Checker System Up to 100 mm 101 mm to 1000 mm</li> </ul>	<p>In-house calibration procedure MP-DIM-01(T) Rev. : 00</p> <p>In-house calibration procedure Section MP-DIM-01(T) Rev. : 00</p>	<p>0.3 <math>\mu\text{m}</math></p> <p>3.0 <math>\mu\text{m}</math> 3.0 <math>\mu\text{m}</math> 3.0 <math>\mu\text{m}</math></p> <p>0.47 <math>\mu\text{m}</math></p> <p>3.0 <math>\mu\text{m}</math> 3.0 <math>\mu\text{m}</math></p> <p>0.4 <math>\mu\text{m}</math> 0.4 <math>\mu\text{m}</math></p>

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iii Angle measurement <ul style="list-style-type: none"> <li>• Optical Comparator</li> <li>Protractor</li> <li>Up to 360 °</li> </ul>	In-house calibration Procedure MP-DIM-01(T) Rev. : 00	6 Minutes
<b>2. Limit Gauges (Lab)</b>		
i. Plain Plug Gauges or Pin Gauges <ul style="list-style-type: none"> <li>• Up to 25 mm</li> </ul>	In-house calibration procedure Section MP-DIM-10(T) Rev. : 01	0.7 μm
ii. Plain Ring Gauges <ul style="list-style-type: none"> <li>• Up to 50 mm</li> <li>• 50 mm to 225 mm</li> </ul>		2.4 μm 5.0 μm
<b>3 Micrometer Gauges</b>		
i. External Micrometer and Interchangeable micrometer (Analog & Digimatic)	In-house calibration procedure Section MP-DIM-02(T) Rev. : 01	
Resolution (0.001 mm)		
<ul style="list-style-type: none"> <li>• 0 to 25 mm</li> <li>• 26 mm to 50 mm</li> <li>• 51 mm to 75 mm</li> <li>• 76 mm to 100 mm</li> <li>• 101 mm to 200mm</li> <li>• 201 mm to 400mm</li> <li>• 401 mm to 600mm</li> <li>• 601 mm to 800 mm</li> <li>• 801 mm to 1000mm</li> </ul>		1.0 μm 1.0 μm 1.0 μm 1.0 μm 1.0 μm 1.0 μm 2.0 μm 3.0 μm 3.0 μm

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ii. Internal Micrometer <ul style="list-style-type: none"> <li>• 5 mm to 30 mm</li> <li>• 25 mm to 50 mm</li> <li>• 50 mm to 75 mm</li> <li>• 75 mm to 100 mm</li> </ul>	In-house calibration procedure Section MP-DIM-02(T) Rev. : 01	1.0 $\mu\text{m}$ 1.0 $\mu\text{m}$ 1.0 $\mu\text{m}$ 1.0 $\mu\text{m}$
iii. Stick Micrometer (Analog and Digimatic) <ul style="list-style-type: none"> <li>• 50 mm to 63 mm</li> <li>• 13 mm to 100 mm</li> <li>• 100 mm to 200 mm</li> <li>• 200 mm to 300 mm</li> </ul>	In-house calibration procedure Section MP-DIM-02(T) Rev. : 01	2.0 $\mu\text{m}$ 2.0 $\mu\text{m}$ 2.0 $\mu\text{m}$ 2.0 $\mu\text{m}$
iv. Depth Micrometer <ul style="list-style-type: none"> <li>• 0 to 25 mm</li> <li>• 25 mm to 300 mm</li> </ul>	In-house calibration procedure Section MP-DIM-02(T) Rev. : 01	2.0 $\mu\text{m}$ 2.0 $\mu\text{m}$
vi. Micrometer Head <ul style="list-style-type: none"> <li>• 0 to 25 mm</li> <li>• 0 to 50 mm</li> </ul>	In-house calibration procedure Section MP-DIM-02(T) Rev. : 01	2.0 $\mu\text{m}$ 2.0 $\mu\text{m}$
Holtest Micrometer <ul style="list-style-type: none"> <li>• up to 5"</li> </ul>		0.00012 inches

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<b>4 Caliper</b>		
i. Slider Caliper	In-house calibration procedure.	
• 0 to 150 mm	MP-DIM-03(T)	10.0 µm
• 0 to 200 mm	Rev. : 01	10.0 µm
• 0 to 300 mm		10.0 µm
• 0 to 600 mm		10.0 µm
• 0 to 1000 mm		10.0 µm
ii. Depth Caliper	In-house calibration procedure.	
• 0 to 150 mm	MP-DIM-03(T)	10.0 µm
• 0 to 200 mm	Rev. : 01	10.0 µm
• 0 to 300 mm		10.0 µm
iii. Caliper Gauges Internal, External and Thickness Type (Dial and Digimatic)	In-house calibration procedure.	
• 0 to 60 mm	MP-DIM-03(T)	10.0 µm
• 60 mm to 70 mm	Rev. : 01	10.0 µm
• 70 mm to 135 mm		10.0 µm
<b>5 Height Gauge Instrument (Lab &amp; Site)</b>	In-house calibration procedure.	
i. Height Gauge	MP-DIM-04(T)	
(Resolution 0.001 mm)	Rev. : 00	
• 0 to 300 mm		1.0 µm
• 0 to 600 mm		1.0 µm

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<p><b>6 Dial and Level Type Instrument (Lab &amp; Site)</b></p> <p>i. Dial Gauges/ Indicator Dial Test Indicator Lever Probe Indicator Micro Indicator</p> <ul style="list-style-type: none"><li>• 0 to 5 mm</li><li>• 0 to 10 mm</li><li>• 0 to 30 mm</li><li>• 0 to 50 mm</li></ul> <p>(Resolution 0.001 mm) (Graduation 0.001 &amp; 0.01 mm)</p>	<p>In-house calibration procedure. MP-DIM-05(T) Rev. : 00</p>	<p>0.5 <math>\mu</math>m 0.7 <math>\mu</math>m 0.8 <math>\mu</math>m 1.2 <math>\mu</math>m</p>
<p><b>7. Linear and Indicating Instrument (Lab &amp; Site)</b></p> <p>Linear Gauges Linear Transducer Digimatic Indicator Indicating Gauge</p> <ul style="list-style-type: none"><li>• 0 to 12 mm (Resolution 0.001mm)</li><li>• 0 to 30 mm (Resolution 0.0005mm)</li><li>• 0 to 50 mm (Resolution 0.001mm)</li></ul>	<p>In-house calibration procedure. MP-DIM-06(T) Rev. : 00</p>	<p>(Lab)</p> <p>0.6 <math>\mu</math>m 0.3 <math>\mu</math>m 0.6 <math>\mu</math>m</p>

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<p><b>8. End Standard</b></p> <p>i. End Standard length measurement</p> <p>(Extension Rods , Standard Rods) Using DTI System</p> <ul style="list-style-type: none"> <li>• Up to 25 mm</li> <li>• 25 mm to 50 mm</li> <li>• 50 mm to 75 mm</li> <li>• 75 mm to 100 mm</li> <li>• 100 mm to 200mm</li> <li>• 200 mm to 400 mm</li> <li>• 400 mm to 600mm</li> <li>• 600 mm to 800 mm</li> <li>• 800 mm to 1 000 mm</li> </ul> <p>ii Using Mu-checker System</p> <ul style="list-style-type: none"> <li>• Up to 25 mm</li> <li>• 25 mm to 50 mm</li> <li>• 51 mm to 75 mm</li> <li>• 76 mm to 100 mm</li> <li>• 101 mm to 200 mm</li> <li>• 201 mm to 400 mm</li> <li>• 401 mm to 600 mm</li> <li>• 601 mm to 800 mm</li> <li>• 801 mm to 1 000 mm</li> </ul>	<p>In-house calibration procedure. MP-DIM-07(T) Rev. : 00</p> <p>In-house calibration procedure. MP-DIM-07(T) Rev. : 00</p>	<p>2.0 µm</p> <p>2.0 µm</p> <p>2.0 µm</p> <p>2.0 µm</p> <p>2.0 µm</p> <p>2.0 µm</p> <p>3.0 µm</p> <p>4.0 µm</p> <p>5.0 µm</p> <p>(Lab)</p> <p>2.0 µm</p> <p>2.0 µm</p> <p>2.0 µm</p> <p>2.0 µm</p> <p>2.0 µm</p> <p>2.0 µm</p> <p>2.0 µm</p> <p>3.0 µm</p> <p>4.0 µm</p> <p>5.0 µm</p>

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<p><b>9. Line Standard</b></p> <p>i Steel Rule Plastic Rule</p> <ul style="list-style-type: none"><li>Length Accuracy</li><li>Up to 200 mm</li><li>Up to 400 mm</li><li>Up to 600 mm</li><li>Up to 800 mm</li><li>Up to 1 000 mm</li></ul> <p>ii Measuring Tape</p> <ul style="list-style-type: none"><li>Measuring Tape</li><li>Hermatic Ullage Tape</li><li>Tank Gauging Tape</li><li>Hook Tape</li><li>Surveyor Tape</li><li>Up to 10 m</li><li>Up to 30 m</li><li>Up to 50 m</li><li>Up to 100 m</li></ul> <p>iii Glass Scale (Including Stage Micrometer Scale, Microscope Glass Scale and other Related scale)</p> <p>Length Accuracy Up to 200 mm</p>	<p>In-house calibration Procedure. MP-DIM-08(T) Rev. : 01</p> <p>In-house calibration procedure MP-DIM-08(T) Rev. : 01</p> <p>In-house calibration procedure. MP-DIM-08(T) Rev. : 01</p>	<p>0.058 mm 0.058 mm 0.058 mm 0.058 mm 0.058 mm 0.058 mm</p> <p>(Lab) 0.0004 m 0.0006 m 0.0008 m 0.0010 m</p> <p>0.005 mm</p>

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<b>10. Parallel Screw Gauges</b> <ul style="list-style-type: none"> <li>• Thread Plug                             <ul style="list-style-type: none"> <li>- External and Internal Thread Up to 80 mm</li> <li>- Pitch Diameter</li> <li>- Major Diameter</li> <li>- Pitch Distance</li> <li>- Angle</li> </ul> </li> <li>• Thread Ring                             <ul style="list-style-type: none"> <li>Up to 80 mm</li> <li>- Pitch Diameter</li> <li>- Minor Diameter</li> </ul> </li> </ul>	In-house calibration Procedure MP-DIM-15(T) Rev. : 02	2 $\mu$ m 2 $\mu$ m 5 $\mu$ m 6 minutes
<b>11. Cylinder Gauges including Bore Gauges</b> <ul style="list-style-type: none"> <li>- Length Accuracy</li> <li>• Up to 450 mm</li> </ul>	In-house calibration Procedure MP-DIM-16(T) Rev. : 00	(Lab) 1 $\mu$ m
<b>12. Measurement of Die Crimping Tool</b> <ul style="list-style-type: none"> <li>• Hand Crimp Tools</li> </ul>	In-house calibration procedure MP-DIM-20(T) Rev. : 00	12 $\mu$ m
<b>13. Profile Projector</b>  Up to 200 mm	In-house calibration procedure MP-DIM-14(T) Rev. : 02	0.005 mm



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<b>14. Toolmaker microscope</b>  Up to 200 mm	In-house calibration procedure MP-DIM-26 Rev.: 00	0.005 mm
<b>15. Gauge Block (Same Material)</b> <ul style="list-style-type: none"><li>• 0.1 mm to 10 mm</li><li>• 10 mm to 25 mm</li><li>• 25 mm to 50 mm</li><li>• 50 mm to 75 mm</li><li>• 75 mm to 100 mm</li></ul>	In-house calibration procedure MP-DIM-15(T) Rev. : 00	0.07 µm 0.07 µm 0.08 µm 0.09 µm 0.1 µm
<b>16. Universal Length Measuring Machine</b>  (Up to 100) mm	In-house calibration procedure MP-DIM-13(T) Rev.: 00	0.0002 mm
<b>17. Thickness and Depth Gauges</b> (Up to 12) mm	In-house calibration Procedure MP-DIM-09(T) Rev.: 00	0.0006 mm
<b>18. Coating thickness measurement</b> <b>(I)</b> Coating Gauges Up to 8 mm  <b>(II)</b> Foil thickness Up to 25 mm	In-house calibration Procedure MP-DIM-11(T) Rev.: 01	0.003 mm  0.0006 mm

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<b>B. <u>Mechanical Metrology</u></b>		
<b>1. (I) Hand torque Tools (Lab)</b>		
- (0.5 to 1.5) N·m	In-house calibration	0.01 N·m
- (>1.5 to 6) N·m	procedure MP-MEC-01(T)	0.05 N·m
- (>6 to 30) N·m	Rev.: 02	0.23 N·m
- (>30 to 60) N·m	(Based on ISO 6789:2003E	0.22 N·m
- (>60 to 100) N·m	Note: this standard has been	0.22 N·m
- (>100 to 300) N·m	cancelled and replaced by	2.4 N·m
- (>300 to 850) N·m	ISO 6789:2017E)	2.4 N·m
- (>850 to 1 400) N·m		2.6 N·m
- (>1 400 to 2 000) N·m		5.0 N·m
<b>(II) Hand torque tools (Lab)</b>		
- ≤ 0.4 N·m	In-house calibration	0.003 N·m
- (>0.4 to 1.2) N·m	procedure	0.005 N·m
- (>1.2 to 2.0) N·m	MP-MEC-13	0.007 N·m
- (>2.0 to 5.0) N·m	Rev.: 00	0.036 N·m
- (>5.0 to 15.0) N·m	(Based on ISO 6789:-	0.050 N·m
- (>15.0 to 25.0) N·m	2:2017E)	0.084 N·m
- (>25.0 to 80) N·m		0.25 N·m
- (>80.0 to 240.0) N·m		0.47 N·m
- (>240.0 to 400.0) N·m		0.63 N·m
- (>400.0 to 900.0) N·m		2.5 N·m
- (>900.0 to 1500.0) N·m		2.8 N·m

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<p><b>2. Torque Meter Tester (Lab)</b></p> <ul style="list-style-type: none"> <li>• Torque Checker</li> <li>• Torque Analyser</li> <li>• Torque Tester</li> <li>• Digital Torque Meter</li> <li>• Torque Transducer</li> <li>• Torque Indicator</li> <li>- Up to 5 N·m</li> <li>- Up to 10 N·m</li> </ul>	<p>In-house calibration procedure MP-MEC-04(T) Rev.: 00</p>	<p>0.00059 N·m 0.0058 N·m</p>
<p><b>3. Torque Multiplier (Lab)</b></p> <ul style="list-style-type: none"> <li>- Up to 1200 lbf·ft</li> <li>- Up to 3200 lbf·ft</li> <li>- Up to 5000 lbf·ft</li> </ul>	<p>Torque Multiplier System MP-MEC-09(T) Rev.: 00</p>	<p>3.7 lbf·ft 8.5 lbf·ft 15 lbf·ft</p>
<p><b>4. Balance and Weighing Scales (Lab &amp; Site )</b></p> <ul style="list-style-type: none"> <li>• Electronic Balance</li> <li>• Analytical Balance</li> <li>• Weighing Scales</li> <li>- (0 to 0.5) g</li> <li>- (0 to 220) g</li> <li>- (0 to 400) g</li> <li>- (0 to 8100) g</li> <li>- (0 to 20000) g</li> <li>- (0 to 50) kg</li> <li>- (0 to 100) kg</li> <li>- (0 to 300) kg</li> </ul>	<p>In-house calibration procedure MP-MEC-02(T) Rev.: 02</p> <ul style="list-style-type: none"> <li>- Off center error</li> <li>- Hysteresis</li> <li>- Repeatability</li> <li>- Linearity</li> </ul>	<p>0.0001 g 0.0002 g 0.001 g 0.01 g 0.3 g 0.002 kg 0.008 kg 0.01 kg</p>

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<p><b>5. Force Measuring Devices (Lab &amp; Site)</b></p> <ul style="list-style-type: none"><li>• Push Pull Gauge</li><li>• Force Gauge</li><li>• Cable Tension Meter</li><li>• Load-cell / Load Indicator</li><li>• Load Gauge</li><li>• Spring Balance</li><li>• Tension Meter</li><li>• Pull Tester</li><li>• Push Tester</li> <li>• Tension Gauge</li><li>• Tensile Tester</li><li>• Shear Tester</li><li>• Force Indicator/ Gauge</li><li>• Dynamometer</li><li>• Belt Tension Gauge</li><li>• Strap Tension Gauge</li><li>• Wire Tension Meter</li></ul> <ul style="list-style-type: none"><li>- Up to 5 kgf</li><li>- Up to 10 kgf</li><li>- Up to 20 kgf</li><li>- Up to 50 kgf</li><li>- Up to 120 kgf</li></ul>	<p>In-house calibration procedure. Section 3.0 MP-MEC-03(T) Rev.: 02</p>	<p>0.00058 kgf 0.0058 kgf 0.0058 kgf 0.0058 kgf 0.0058 kgf</p>

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<ul style="list-style-type: none"><li>• Load Cell</li><li>- Up to 100 kN (Ref UTM)</li></ul>		0.57 kN
<ul style="list-style-type: none"><li>• Dial Tension Gauge</li><li>• Tension Gauge</li><li>• Spring Balance</li><li>• Load Cell</li><li>• Cable Tension Meter</li><li>• Strain Gauge</li><li>• Pull Tester</li><li>• Tubular Balance</li><li>• Push Tester</li><li>• Force Gauge</li><li>• Load Gauge</li><li>• Gram Gauge</li><li>• Tensile Tester</li><li>• Shear Tester</li><li>• Force Indicator</li></ul>	<p>In-house calibration procedure MP-MEC-03(T) Rev.: 01</p>	
<ul style="list-style-type: none"><li>- Up to 50 gf</li></ul>		0.23 gf
<ul style="list-style-type: none"><li>- Up to 100 gf</li></ul>		0.23 gf
<ul style="list-style-type: none"><li>- Up to 250 gf</li></ul>		1.2 gf
<ul style="list-style-type: none"><li>- Up to 1000 gf</li></ul>		2.3 gf
<ul style="list-style-type: none"><li>- Up to 2000 gf</li></ul>		12 gf

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<p><b>6. Rubber Hardness Tester (Lab &amp; Site)</b></p> <p>Shore A ,B, E &amp; O</p> <ul style="list-style-type: none"> <li>• Hand Durometer</li> <li>• Pencil Durometer</li> <li>• Digital Durometer</li> <li>• Tire Hardness Gauge</li> <li>• Pocket Durometer</li> <li>• Dial Durometer</li> </ul> <p>Direct Force Verification</p> <ul style="list-style-type: none"> <li>- Up to 75 Div (855 gf)</li> </ul>	<p>In-house calibration procedure MP-MEC-05(T) Rev.: 01</p>	<p>12 mN</p>
<p><b>7. Hardness Machine (Lab &amp; Site)</b></p> <p>In-direct verification method of hardness machine (C &amp; B)</p> <ul style="list-style-type: none"> <li>• Hardness Tester</li> <li>• Impressor Tester</li> <li>• Digital Hardness Tester</li> <li>• Handheld Hardness Tester</li> <li>• Analogue Tester</li> <li>• Brinell Hardness Tester</li> <li>• Portable Hardness Machine</li> </ul> <p><b>HRC BLOCK</b></p> <ul style="list-style-type: none"> <li>- 20 HRC to 30 HRC</li> <li>- 40 HRC to 45 HRC</li> <li>- 60 HRC to 65 HRC</li> </ul>	<p>In-house calibration procedure MP-MEC-06(T) Rev.: 01</p>	<p>0.39 HRC 0.34 HRC 0.33 HRC</p>

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<b>HRBW BLOCK</b> <ul style="list-style-type: none"><li>- 50 HRBW to 60 HRBW</li><li>- 60 HRBW to 65 HRBW</li><li>- 80 HRBW to 90 HRBW</li></ul>		1.0 HRBW 1.3 HRBW 1.5 HRBW
<b>8. Tachometer Non-Contact (Lab &amp; Site)</b> <ul style="list-style-type: none"><li>• Optical Tachometer</li><li>• Infrared Tachometer</li><li>• Laser Tachometer</li><li>• Mechanical Tachometer</li><li>• RPM Indicator</li><li>• Revolution Indicator</li><li>• Digital Tachometer</li><li>• Speed Indicator</li><li>• Speed Meter</li></ul> <ul style="list-style-type: none"><li>- (0 to 300) rpm</li><li>- (&gt;300 to 600) rpm</li><li>- (&gt;600 to 1200) rpm</li><li>- (&gt;1200 to 2000) rpm</li><li>- (&gt;2000 to 5000) rpm</li><li>- (&gt;5000 to 10 000) rpm</li><li>- (&gt;10 000 to 20 000) rpm</li><li>- (&gt;20 000 to 50 000) rpm</li><li>- (&gt;50 000 to 70 000) rpm</li><li>- (&gt;70 000 to 90 000) rpm</li></ul>	In-house calibration procedure MP-MEC-07(T) Rev.: 01	0.28 rpm 0.28 rpm 0.29 rpm 0.28 rpm 0.28 rpm 1.9 rpm 1.9 rpm 1.9 rpm 16 rpm 16 rpm

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<p><b>9 Contact Tachometer (Lab/Site)</b></p> <ul style="list-style-type: none"> <li>- (250 to 500) rpm</li> <li>- (500 to 1 000) rpm</li> <li>- (1000 to 2000) rpm</li> <li>- (2000 to 5000) rpm</li> <li>- (5000 to 9600) rpm</li> </ul>	<p>In-house calibration procedure MP-MEC-07(T) Rev.: 01</p>	<p>0.15pm 0.31pm 0.32pm 0.33 rpm 0.61 rpm</p>
<p><b>10 Pressure Measuring Devices, Hydraulic (Lab/Site)</b></p> <ul style="list-style-type: none"> <li>• Pressure Gauge</li> <li>• Oil Pressure Gauge</li> <li>• Force Pressure Gauges</li> <li>• Pressure Transmitters</li> <li>• Pressure Recorders</li> <li>• Pressure Indicators</li> <li>• Vacuum Gauge</li> <li>• Air Gauge</li> <li>• Transducer</li> <li>• Transmitters</li> <li>• Recorders</li> <li>- -13.5 psi to 30 psi</li> <li>- Up to 300 psi</li> <li>- Up to 1000 psi</li> <li>- Up to 5000 psi</li> <li>- Up to 10000 psi</li> <li>- Up to 15000 psi</li> </ul>	<p>In-house calibration procedure MP-MEC-11(T) Rev.: 01</p>	<p>0.015 psi 0.062 psi 0.21 psi 1.0 psi 2.1 psi 3.1 psi</p>



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MEASURED QUANTITIES/ RANGE/ INSTRUMENT TO BE CALIBRATED	METHOD	CALIBRATION & MEASUREMENT CAPABILITY (*)
<p><b>C. <u>Temperature Metrology</u></b></p> <p><b>1 Temperature Indicator without Sensor</b></p> <p><b>Measure Mode</b></p> <p><b>a) TYPE "E"</b></p> <ul style="list-style-type: none"> <li>• (-190~0)° C</li> <li>• (0~600)° C</li> <li>• (600~1000)° C</li> </ul> <p><b>b) TYPE "J"</b></p> <ul style="list-style-type: none"> <li>• (-200~0)° C</li> <li>• (0~600)° C</li> <li>• (600~1200)° C</li> </ul> <p><b>c) TYPE "K"</b></p> <ul style="list-style-type: none"> <li>• (-190~0)° C</li> <li>• (0~900)° C</li> <li>• (900~1370)° C</li> </ul> <p><b>d) TYPE "N"</b></p> <ul style="list-style-type: none"> <li>• (-190~0)° C</li> <li>• (0~300)° C</li> <li>• (900~1200)° C</li> </ul> <p><b>Source Mode</b></p> <p><b>a) TYPE "E"</b></p> <ul style="list-style-type: none"> <li>• (-190~0)° C</li> <li>• (0~600)° C</li> <li>• (600~1000)° C</li> </ul> <p><b>b) TYPE "J"</b></p> <ul style="list-style-type: none"> <li>• (-200~0)° C</li> <li>• (0~600)° C</li> <li>• (600~1200)° C</li> </ul> <p><b>c) TYPE "K"</b></p> <ul style="list-style-type: none"> <li>• (-190~0)° C</li> <li>• (0~900)° C</li> <li>• (900~1370)° C</li> </ul>	<p>In-house calibration procedure MP-TEM-01(T) Rev.: 01</p>	<p>0.90°C 0.72°C 0.73°C</p> <p>0.77°C 0.73°C 0.75°C</p> <p>0.53°C 0.48°C 0.83°C</p> <p>0.78°C 0.66°C 0.70°C</p> <p>1.1°C 1.1°C 1.0°C</p> <p>0.94°C 0.94°C 1.1°C</p> <p>0.73°C 0.92°C 1.1°C</p>

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MEASURED QUANTITIES/ RANGE/ INSTRUMENT TO BE CALIBRATED	METHOD	CALIBRATION & MEASUREMENT CAPABILITY (*)
<b>d)</b> TYPE "N" <ul style="list-style-type: none"> <li>• (-190~0)° C</li> <li>• (0~300)° C</li> <li>• (900~1200)° C</li> </ul>		<p style="text-align: right;">1.5°C 1.0°C 1.1°C</p>
<b>2 Controlled Temperature Enclosures (Lab / Site)</b> <ul style="list-style-type: none"> <li>• Oven</li> <li>• Incubators</li> <li>• Water bath</li> <li>• Freezer</li> <li>• Furnace</li> </ul> <p style="margin-left: 40px;">(0~200)° C (200~350)°C (350~1185)°C</p>	In-house calibration procedure MP-TEM-02(T) Rev.: 01	<p>2.3°C 3.9° C 4.9° C</p>
<b>3 Temperature Measuring Instrument with Indicator</b> <ul style="list-style-type: none"> <li>• Temperature Gauges</li> <li>• Bi Metal Thermometers</li> <li>• Capillary Thermometers</li> <li>• Temperature Recorders</li> <li>• Temperature Controllers</li> <li>• Chart Recorders</li> <li>• Probe Thermometers</li> </ul> <p style="margin-left: 40px;">(0~200)° C (200~450)°C</p>	In-house calibration procedure MP-TEM-04(T) Rev.: 00	<p>0.29°C 0.50°C</p>

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

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Approved signatories:

Mr M. Karunanithi - All items

Mr Surendren A/L R Palpanadan - only for categories A and B

Mr Vishnu Selvarajoo - only for categories B and C

Note :

This laboratory is accredited in accordance with the recognised 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 calibration results. 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.