

Schedule

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FIELD OF TESTING : Calibration and Measurement

MEASURED QUANTITIES/ INSTRUMENT/RANGE TO BE CALIBRATED	METHOD	CALIBRATION & MEASUREMENT CAPABILITY (CMC*)
<p>A. Mechanical</p> <p>1.0 Low Pressure//Differential Ranges</p> <ul style="list-style-type: none"> • Gauges • Transducers • Transmitters • Digital Indicators • Photohelic/ Magnehelic Gauges • Manometers • Micromanometers • Differential Pressure Recorders / Calibrators • Velometers • Hook Gauges • Low Differential Switches • Differential Pressure Sensors (Flow meters) • Digital Gauges • Differential Pressure Gauges 		

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<p>Lab (0.0 ~ 2.0) in H₂O</p> <p>Lab/Site (0.0 ~ 1.0) in H₂O (0.0 ~ 5.0) in H₂O (0.0 ~ 10.0) in H₂O (0.0 ~ 100) mbar</p>	<p>CTTM –M06 – 2007, Rev. 05</p> <p>CTTM-M02-2007, Rev. 06</p>	<p>0.015 in H₂O</p> <p>0.012 in H₂O 0.024 in H₂O 0.17 in H₂O 1 mbar</p>
<p>2.0 Vacuum Pressure Ranges (Lab/Site)</p> <ul style="list-style-type: none"> • Compound Gauges • Vacuum Gauges • Vacuum Recorders • Manometers • Digital Vacuum Gauges • Vacuum Transmitters • Vacuum Transducers • Vacuum Switches <p>(0 ~ -2) psi (0 ~ -1000) mbar</p> <p>(0 ~ 2) psi (0 ~ 2000) mbar</p>	<p>CTTM – M02 – 2007, Rev. 06</p>	<p>0.0031 psi 2 mbar</p> <p>0.0031 psi 2 mbar</p>
<p>3.0 Pneumatic Pressure Ranges (Lab/Site)</p> <ul style="list-style-type: none"> • Low Pressure Gauges • Manometers • Transducers / Transmitters • Pressure Gauges • Oil Free Gauges • Gas Gauges 	<p>CTTM – M03 – 2007, Rev. 05</p>	

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<ul style="list-style-type: none"> • Robin air Gauges • Barometers • Switches • Pen Recorders • Data Loggers • Oxygen Service Gauges • Altimeters • Calibrators <p>(0 ~ -14) psi (0 ~ 300) psi</p> <p>Absolute Pressure Ranges (Lab/Site)</p> <p>4.0 Gauges Transducers Barometers Barographs Calibrators Caisson Gauges Switches Absolute Gauges</p> <p>(50 ~ 1600) mbar a</p> <p>(0 ~ 50) psi a (>50 ~ 100) psi a (>100 ~ 500) psi a (>500 ~ 1000) psi a (>1000 ~ 1600) psi a</p> <p>(0 ~ 2000) psi a (>2000 ~ 4000) psi a (>4000 ~ 5000) psi a (>5000 ~ 6000) psi a</p>	<p>CTTM – M04 – 2007, Rev. 05</p> <p>CTTM – M07 – 2007, Rev. 06</p> <p>CTTM – M09 – 2007, Rev. 06</p>	<p>0.09 psi 0.11 psi</p> <p>3.7 mbar a</p> <p>0.02 psi a 0.02 psi a 0.10 psi a 0.21 psi a 0.33 psi a</p> <p>0.41 psi a 0.82 psi a 1.0 psi a 1.2 psi a</p>

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<p>5.0 Pneumatic High Pressure Gauge (Lab/Site)</p> <ul style="list-style-type: none"> • Low Pressure Gauges • Manometers • Transducer/ Transmitters • Pressure Gauges • Oil Free Gauges • Gas Gauges • Robinair Gauges • Barometers • Switches • Pen Recorders • Data Loggers • Oxygen Service Gauges • Altimeters • Calibrators • Air Gauges • Transducers • Transmitters • Recorders <p>(0 ~ 30) psi (>30 ~ 250) psi (>250 ~ 500) psi (>500 ~ 750) psi (>750 ~ 1000) psi (>1000 ~ 1250) psi (>1250 ~ 1600) psi</p>	<p>CTTM – M07 – 2007, Rev. 06</p>	<p>0.0062 psi 0.06 psi 0.11 psi 0.15 psi 0.21 psi 0.26 psi 0.33 psi</p>

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<p>6.0 Oxygen Service /Oil free Pressure Ranges (Lab/Site)</p> <ul style="list-style-type: none"> • Oxygen Service Gauges • Air Gauges • Air Test Sets • Data Loggers • Calibrators • Switches • Barfield Test Sets • High Pressure Gas Gauges • Manometers • Pen Recorders • Digital Indicators 		
<p>(0 ~ 2000) psi (>2000 ~ 8000) psi (>8000 ~ 10000) psi</p>	<p>CTTM – M09 – 2007, Rev. 06</p>	<p>1 psi 2 psi 3 psi</p>
<p>7.0 Pressure Force Gauge (Lab / Site)</p> <ul style="list-style-type: none"> • Pressure Force Gauges • Load Gauges • Tonne Gauges • Hydraulic Gauges • Mud Gauges • Crane Gauges • Metric Gauges 		
<p>(0 ~ 30) psi (>30 ~ 250) psi (>250 ~ 500) psi (>500 ~ 800) psi (>800 ~ 1500) psi</p>	<p>CTTM – M07 – 2007, Rev. 06</p>	<p>0.0062 psi 0.06 psi 0.11 psi 0.17 psi 0.31 psi</p>

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(0 ~ 2000) psi (>2000 ~ 8000) psi (>8000 ~ 14000) psi (>14000 ~ 16000) psi	CTTM – M09 – 2007, Rev. 06	1 psi 2 psi 3 psi 4 psi
(0 ~ 30000) psi	CTTM – M10 – 2007, Rev. 05	90 psi
(0 ~ 60000) psi	CTTM – M11 – 2007, Rev. 05	220 psi
8.0 Pneumatic Low Pressure Ranges (Lab/Site)		
<ul style="list-style-type: none"> • Air Gauge • Transducers • Recorders • Transmitters 		
(0 to -200) mbar (>-200 to -1000) mbar (0 to 200) mbar (>200 to 600) mbar (>600 to 1000) mbar	CTTM – M26 – 2009, Rev. 04	0.2 mbar 0.3 mbar 0.1 mbar 0.2 mbar 0.3 mbar

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<p>9.0 Hydraulic Pressure Ranges (Lab/Site)</p> <ul style="list-style-type: none"> • Hydraulic Gauges • Piston Gauges • Pressure Gauges • Manometers • Pen Recorders • Transducers • Transmitters • Data Loggers • Hydraulic Switches • High Pressure Gauges <p>(0 ~ 100) psi (>100 ~ 200) psi (>200 ~ 400) psi (>400 ~ 600) psi (>600 ~ 800) psi (>800 ~ 1000) psi (>1000 ~ 2000) psi (>2000 ~ 4000) psi (>4000 ~ 6000) psi (>6000 ~ 8000) psi (>8000 ~ 12000) psi (>12000 ~ 16000) psi</p>	<p>CTTM – M09 – 2007, Rev. 06</p>	<p>0.03 psi 0.05 psi 0.09 psi 0.12 psi 0.16 psi 0.21 psi 0.5 psi 0.9 psi 1.2 psi 2 psi 3 psi 4 psi</p>

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<p>10.0 High Pressure Ranges (Lab/Site)</p> <ul style="list-style-type: none"> • Pen Recorders • High Pressure Gauges • Pressure Transducers • Pressure Transmitters • Mud Gauges • Data Loggers • Pressure Switches <p>(0 ~ 30000) psi</p>	<p>CTTM – M10 – 2007, Rev. 05</p>	<p>100 psi</p>
<p>11.0 Ultra High Pressure Ranges (Lab/Site)</p> <ul style="list-style-type: none"> • Pen Recorders • High Pressure Gauges • Pressure Transducers • Pressure Transmitters • Mud Gauges • Data Loggers • Pressure Switches <p>(0 ~ 60000) psi</p>	<p>CTTM – M11 – 2007, Rev. 05</p>	<p>220 psi</p>
<p>12.0 Pneumatic Dead Weight Tester-Cross Float, Verification (Lab)</p> <ul style="list-style-type: none"> • Pneumatic DWT <p>(10 ~ 50) psi (>50 ~ 160) psi (>160 ~ 320) psi (>320 ~ 640) psi (>640 ~ 960) psi (>960 ~ 1280) psi (>1280 ~ 1600) psi</p>	<p>CTTM – M07 – 2007, Rev. 06</p>	<p>0.010 psi 0.033 psi 0.066 psi 0.13 psi 0.20 psi 0.26 psi 0.33 psi</p>

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<p>15.0 Tachometer Non-Contact (Lab/Site)</p> <ul style="list-style-type: none"> • Laser Tachometers • Optical Tachometers • Infrared Tachometers • Dial Tachometers • Mechanical Tachometers • Non-contact Tachometers • RPM Meters • Revolution Meters • Speed Indicators / Meters <p>(0 ~ 30) rpm (>30 ~ 240) rpm (>240 ~ 600) rpm (>600 ~ 1200) rpm (>1200 ~ 3000) rpm (>3000 ~ 6000) rpm (>6000 ~ 18000) rpm (>18000 ~ 27000) rpm (>27000 ~ 45000) rpm (>45000 ~ 66000) rpm (>66000 ~ 90000) rpm</p>	<p>CTTM – M17 – 2007, Rev. 05</p>	<p>2.4E-01 (%) of full scale 3.0E-02 (%) of full scale 1.2E-02 (%) of full scale 9.4E-03 (%) of full scale 3.8E-03 (%) of full scale 1.9E-03 (%) of full scale 5E-03 (%) of full scale 4E-03 (%) of full scale 2E-03 (%) of full scale 2E-03 (%) of full scale 2E-03 (%) of full scale</p>

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<p>16.0 Stroboscope (Lab/Site)</p> <p>(0 ~ 30) rpm (>30 ~ 240) rpm (>240 ~ 600) rpm (>600 ~ 1200) rpm (>1200 ~ 3000) rpm (>3000 ~ 6000) rpm (>6000 ~ 18000) rpm (>18000 ~ 27000) rpm (>27000 ~ 45000) rpm (>45000 ~ 66000) rpm (>66000 ~ 90000) rpm</p>	<p>CTTM – M17 – 2007, Rev. 05</p>	<p>3.8E-01 (%) of full scale 7.3E-02 (%) of full scale 5.4E-02 (%) of full scale 7.0E-02 (%) of full scale 5.5E-02 (%) of full scale 5.0E-02 (%) of full scale 6E-02 (%) of full scale 6E-02 (%) of full scale 6E-02 (%) of full scale 5E-02 (%) of full scale 5E-02 (%) of full scale</p>
<p>17.0 Contact Tachometer (Lab/Site)</p> <ul style="list-style-type: none"> • Contact Tachometers • RPM Meters • Dial Tachometers • Mechanical Tachometers • Speed Meters <p>(250 ~ 300) rpm (>300 ~ 600) rpm (>600 ~ 900) rpm (>900 ~ 1200) rpm (>1200 ~ 2400) rpm (>2400 ~ 3000) rpm (>3000 ~ 3600) rpm (>3600 ~ 4200) rpm (>4200 ~ 5000) rpm</p>	<p>CTTM – M17 – 2007, Rev. 05</p>	<p>6.6E-02 (%) of full scale 5.4E-02 (%) of full scale 5.9E-02 (%) of full scale 7.0E-02 (%) of full scale 4.9E-02 (%) of full scale 5.5E-02 (%) of full scale 5.3E-02 (%) of full scale 5.2E-02 (%) of full scale 5.1E-02 (%) of full scale</p>

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<p>18.0 Speed Indicators (Lab/ Site)</p> <ul style="list-style-type: none"> Speed Revolution Indicators Centifuge Gear Tachometer <p>(0 ~ 30) rpm (>30 ~ 240) rpm (>240 ~ 600) rpm (>600 ~ 1200) rpm (>1200 ~ 3000) rpm (>3000 ~ 6000) rpm (>6000 ~ 15000) rpm</p>	CTTM – M17 – 2007, Rev. 05	<p>3.2E-01 (%) of full scale 7.9E-02 (%) of full scale 5.4E-02 (%) of full scale 7.2E-02 (%) of full scale 5.5E-02 (%) of full scale 6E-02 (%) of full scale 7E-02 (%) of full scale</p>
<p>19.0 Balance and Weighing Scales (Lab/Site)</p> <ul style="list-style-type: none"> Top-loading, Direct-reading, Scales and Balances <p>(0 ~ 1) g (Resolution:0.00001g) (0 ~ 80) g (Resolution:0.00001g) (0 ~ 220) g (Resolution:0.0001g) (0 ~ 300) g (Resolution:0.0001g) (0 ~ 6000) g (Resolution:0.01g) (0 ~ 10) kg (Resolution:0.0001kg) (0 ~ 22) kg (Resolution:0.0001kg) (0 ~ 30) kg (Resolution:0.01kg) (0 ~ 100) kg (Resolution:0.01kg) (0 ~ 300) kg (Resolution:0.01kg) (0 ~ 580) kg (Resolution:0.1kg)</p>	CTTM – M18 – 2007, Rev. 05	<p>0.00008 g 0.00033 g 0.0005 g 0.0006 g 0.02 g 0.0001 kg 0.0001 kg 0.01 kg 0.01 kg 0.01 kg 0.1 kg</p>

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<p>20.0 Non-Standard Mass (Lab) (Excluding OIML R111 and ANSI/ASTM E716 Class of Mass)</p> <p>(1 to 1000) mg (>1 to 50) g (>50 to 80) g (>80 to 220) g (>220 to 300) g (>300 to 1000) g (>1000 to 6000) g (>6 to 10) kg (>10 to 20) kg (>20 to 30) kg</p>	<p>CTTM – M13 – 2008, Rev. 05</p>	<p>0.04 mg 0.10 mg 0.10 mg 0.22 mg 0.26 mg 0.02 g 0.02 g 0.0002 kg 0.0002 kg 0.02 kg</p>
<p>21.0 Mass (Lab) Working Class Mass (OIML R111 Class F1 and lower and equivalent classes in ANSI/ASTM E716)</p> <p>1 mg 2 mg 5 mg 10 mg 20 mg 50 mg 100 mg 200 mg 500 mg 1 g 2 g 5 g 10 g 20 g</p>	<p>CTTM – M13 – 2008, Rev. 05</p>	<p>0.012 mg 0.012 mg 0.012 mg 0.013 mg 0.015 mg 0.017 mg 0.021 mg 0.025 mg 0.031 mg 0.00004 g 0.00005 g 0.00006 g 0.00008 g 0.00010 g</p>

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50 g		0.00012 g
100 g		0.0003 g
200 g		0.0004 g
500 g		0.01 g
1 kg		0.01 g
2 kg		0.01 g
5 kg		0.02 g
10 kg		0.0001 kg
20 kg		0.0001 kg
22.0 Volume Measuring Instrument (Lab)		
<ul style="list-style-type: none"> Burettes 		
(1 ~ 200) ml	CTTM– M12 – 2008, Rev. 04	0.1 ml
(>200 ~ 300) ml		0.1 ml
<ul style="list-style-type: none"> Pipettes (Non-piston type) 		
(1 ~ 500) µl	CTTM– M12 – 2008, Rev. 04	0.37 µl
(>500 ~ 1000) µl		0.4 µl
(>1 ~ 50) ml		0.1 ml
<ul style="list-style-type: none"> Volumetric Flasks and Cylinders 		
(1 ~ 200) ml	CTTM– M12 – 2008, Rev. 04	0.1 ml
(>200 ~ 300) ml		0.1 ml
>300 ml ~ 1 L		1 L
(>1 ~ 30) L		1 L

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<ul style="list-style-type: none"> Syringe (>500 – 1000) µl (>1 – 200) ml (>200 – 300) ml >300 ml – 1 L (>1 – 5) L	CTTM– M12 – 2008, Rev. 04	0.37 µl 0.4 µl 0.1 ml 0.1 ml 1 L 1 L
<ul style="list-style-type: none"> Dispenser (100 – 500) µl (>500 – 1000) µl (>1 – 200) ml (>200 – 300) ml	CTTM– M12 – 2008, Rev. 04	0.37 µl 0.4 µl 0.1 ml 0.1 ml
23.0 Density Measuring Instruments (Lab) <ul style="list-style-type: none"> S.G Hydrometers API Gravity Bulb Hydrometer Glass Hydrometer (0.65 – 1.95) g/cm ³	CTTM – M20 – 2008, Rev. 04	0.0001 g / cm ³

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<p>24.0 Vibration/Acceleration Measuring Instruments (Lab/Site)</p> <p>Acceleration Measurement (without sensitivity) (0 ~ 10) m/s² at 40 Hz (0 ~ 10) m/s² at 80 Hz (0 ~ 10) m/s² at 160 Hz (0 ~ 10) m/s² at 315 Hz (0 ~ 10) m/s² at 630 Hz (0 ~ 10) m/s² at 1.25 kHz (0 ~ 10) m/s² at 2.5kHz (0 ~ 10) m/s² at 5 kHz</p> <p>Velocity Measurement (without sensitivity) (0 ~ 40) mm/s at 40 Hz (0 ~ 20) mm/s at 80 Hz (0 ~ 5) mm/s at 315 Hz</p> <p>25.0 Force Measuring Instruments (Lab) Tension and Compression Modes</p> <ul style="list-style-type: none"> • Load cell • Load Indicator • Strain Gauge • Tension Meter/Gauge • Dynamometer • Force Gauge/Indicator <p>Tension Mode (0 ~ 100) kN (0 ~ 200) kN (0 ~ 300) kN</p> <p>Compression Mode (0 ~ 100) kN (0 ~ 200) kN (0 ~ 300) kN</p>	<p>CTTM – M15 – 2008, Rev. 04</p> <p>CTTM – M15 – 2008, Rev. 04</p> <p>CTTM – M14 – 2008, Rev. 03</p> <p>CTTM – M14 – 2008, Rev. 04</p>	<p>1.1 m/s² 0.93 m/s² 0.95 m/s² 0.95 m/s² 1.1 m/s² 1.2 m/s² 1.2 m/s² 1.5 m/s²</p> <p>1.8 mm/s 0.65 mm/s 0.17 mm/s</p> <p>0.55 kN 0.64 kN 0.55 kN</p> <p>0.63 kN 0.84 kN 1.31 kN</p>

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<p>26.0 Force Testing Machine (Lab/Site) Tension and Compression Modes</p> <p>(0 ~ 5000) lbf</p>	<p>CTTM – M14 – 2008, Rev. 04</p>	<p>25 lbf</p>
<p>27.0 Torque measuring Devices (Lab)</p> <p>Indicating Torque Wrench and Driver Setting Torque Wrench and Driver (As Per ISO 6789:2003E)</p> <p>≤ 0.5 N.m (>0.5 to 1.5) N.m (>1.5 to 3.0) N.m</p> <p>(>3.0 to 5.0) N.m (>5.0 to 15.0) N.m (>15.0 to 25.0) N.m</p> <p>(>25.0 to 50.0) N.m (>50.0 to 200.0) N.m (>200.0 to 350.0) N.m</p> <p>(>350.0 to 480.0) N.m (>480.0 to 560.0) N.m (>560.0 to 950.0) N.m</p>	<p>CTTM – M08 – 2013, Rev. 02</p> <p>CTTM – M08 – 2013, Rev. 02</p> <p>CTTM – M08 – 2013, Rev. 02</p> <p>CTTM – M08 – 2013, Rev. 02</p> <p>CTTM – M08 – 2013, Rev. 02</p>	<p>0.008 N.m 0.020 N.m 0.036 N.m</p> <p>0.07 N.m 0.18 N.m 0.30 N.m</p> <p>0.6 N.m 1.5 N.m 2.4 N.m</p> <p>4 N.m 5 N.m 7 N.m</p>

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B. <u>Electrical</u>		
1.0 DC Voltage Measuring Instruments (Lab/Site)	CTTM – E01 – 2007, Rev. 04	
0 mV ~ 329.9999 mV		26 μ V
330 mV ~ 3.299999 V		200 μ V
3.3 V ~ 32.99999 V		2.0 mV
33V ~ 329.9999 V		22 mV
330 V ~1020 V		66 mV
2.0 DC High Voltage Measuring Instruments (Lab/ Site)	CTTM – E01 – 2007, Rev. 04	
1.00 kV~ 5.00 kV		0.016 KV
5.00 kV ~ 10.00 kV		0.030 KV
3.0 DC Current Measuring Instruments (Lab/Site)	CTTM – E01 – 2007, Rev. 04	
0.0 mA ~ 3.2999 mA		0.60 μ A
3 mA ~ 32.9999 mA		4.1 μ A
33 mA ~ 329.999 mA		43 μ A
330 mA ~ 2.19999 A		820 μ A
2.2 A ~ 11.0 A		13 mA
11 A ~ 16.499 A	CTTM – E04 – 2007, Rev. 05	0.19 A
16.5 A ~ 109.49 A		0.81 A
109.5 A ~ 149.99 A		1.5 A
150 A ~ 549.99 A		3.8 A
550 A to 1000 A		7.3 A

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<p>4.0 AC Voltage Measuring Instruments (Lab/Site)</p> <ul style="list-style-type: none"> • 1 mV to 32.999 mV <ul style="list-style-type: none"> 10 Hz ~ 45 Hz 45 Hz ~ 1 kHz 1 kHz ~ 10 kHz 10 kHz ~ 20 kHz 20 kHz ~ 50 kHz 50 kHz ~ 100 kHz 100 kHz ~ 450 kHz • 33 mV to 329.999 mV <ul style="list-style-type: none"> 10 Hz ~ 45 Hz 45 Hz ~ 1 kHz 1 kHz ~ 10 kHz 10 kHz ~ 20 kHz 20 kHz ~ 50 kHz 50 kHz ~ 100 kHz 100 kHz ~ 450 kHz • 0.33 V to 3.29999 V <ul style="list-style-type: none"> 10 Hz ~ 45 Hz 45 Hz ~ 1 kHz 1 kHz ~ 10 kHz 10 kHz ~ 20 kHz 20 kHz ~ 50 kHz 50 kHz ~ 100 kHz 100 kHz ~ 450 kHz • 3.3 V to 32.9999 V <ul style="list-style-type: none"> 10 Hz ~ 45 Hz 45 Hz ~ 10 kHz 10 kHz ~ 20 kHz 20 kHz ~ 50 kHz 50 kHz ~ 100 kHz 	<p>CTTM – E01 – 2007, Rev. 04</p>	<p>160 μV 62 μV 62 μV 110 μV 290 μV 680 μV 680 μV</p> <p>1.0 mV 220 μV 410 μV 410 μV 660 μV 1.1 mV 3.1 mV</p> <p>6.0 mV 3.1 mV 3.1 mV 3.1 mV 5.7 mV 12 mV 23 mV</p> <p>60 mV 17 mV 34 mV 78 mV 110 mV</p>

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<ul style="list-style-type: none"> • 33 V to 329.999 V <ul style="list-style-type: none"> 45 Hz ~ 1 kHz 1 kHz ~ 10 kHz 10 kHz ~ 20 kHz • 330 V to 1000 V <ul style="list-style-type: none"> 45 Hz~ 1 kHz 1 kHz ~ 5 kHz 5 kHz ~ 10 kHz 		<p>200 mV</p> <p>320 mV</p> <p>380 mV</p> <p>0.68 V</p> <p>2.4 V</p> <p>2.4 V</p>
<p>5.0 AC Current Measuring Instruments (Lab/Site)</p> <ul style="list-style-type: none"> • 0.029 mA to 0.3299 mA <ul style="list-style-type: none"> 20 Hz ~ 45 Hz 45 Hz ~ 1 kHz 1 kHz ~ 5 kHz 5 kHz ~ 10 kHz • 0.33 mA to 3.2999 mA <ul style="list-style-type: none"> 20 Hz ~ 45 Hz 45 Hz ~ 1 kHz 1 kHz ~ 5 kHz 5 kHz ~ 10 kHz • 3.3 mA to 32.9999 mA <ul style="list-style-type: none"> 20 Hz ~ 45 Hz 45 Hz ~ 1 kHz 1 kHz ~ 5 kHz 5 kHz ~ 10 kHz 	<p>CTTM – E01 – 2007, Rev. 04</p>	<p>0.74 µA</p> <p>0.84 µA</p> <p>1.7 µA</p> <p>5.0 µA</p> <p>4.2 µA</p> <p>4.2 µA</p> <p>8.0 µA</p> <p>24 µA</p> <p>42 µA</p> <p>38 µA</p> <p>80 µA</p> <p>230 µA</p>

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<ul style="list-style-type: none"> 33 mA to 329.999 mA 20 Hz ~ 45 Hz 45 Hz ~ 1 kHz 1 kHz ~ 5 kHz 5 kHz ~ 10 kHz 		420 μ A 390 μ A 800 μ A 2.3 mA
<ul style="list-style-type: none"> 0.33 A to 2.19999 A 10 Hz ~ 45 Hz 45 Hz ~ 1 kHz 1 kHz ~ 5 kHz 		2.9 mA 2.9 mA 20 mA
<ul style="list-style-type: none"> 2.2 A to 10.000 A 10 Hz ~ 45 Hz 45 Hz ~ 500 Hz 500 Hz ~ 1 kHz 		10 mA 14 mA 41 mA
10.1 A ~ 16.499 A @ 50 Hz 16.5 A ~ 109.49 A @ 50 Hz 110 A ~ 149.99 A @ 50 Hz 150 A ~ 550 A @ 50 Hz	CTTM – E04 – 2007, Rev. 05 (Toroidal Type Clamp)	0.16 A 0.44 A 0.61 A 2.2 A
10.1 A ~ 16.499 A @ 400 Hz 16.5 A ~ 109.49 A @ 400 Hz 110 A ~ 149.99 A @ 400 Hz 150 A ~ 550 A @ 400 Hz	CTTM – E04 – 2007, Rev. 05 (Toroidal Type Clamp)	0.22 A 1.1 A 1.5 A 5.3 A
10.1 A ~ 16.499 A @ 50 Hz 16.5 A ~ 109.49 A @ 50 Hz 110 A ~ 149.99 A @ 50 Hz 150 A ~ 550 A @ 50 Hz	CTTM – E04 – 2007, Rev. 05 (Non-Toroidal Type Clamp)	0.21 A 1.1 A 1.3 A 4.7 A
10.1 A ~ 16.499 A @ 400 Hz 16.5 A ~ 109.49 A @ 400 Hz 110 A ~ 149.99 A @ 400 Hz 150 A ~ 550 A @ 400 Hz	CTTM – E04 – 2007, Rev. 05 (Non-Toroidal Type Clamp)	0.27 A 1.6 A 2.1 A 7.4 A

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MEASURED QUANTITIES/ INSTRUMENT/RANGE TO BE CALIBRATED	METHOD	CALIBRATION & MEASUREMENT CAPABILITY (CMC*)
6. Capacitance Measuring Instruments (Lab/Site) 35.22 pF ~ 50.13 pF 55.11 pF ~ 70.00 pF 70.00 pF ~ 139.71pF 98.96 pF ~ 198.95 pF 248.93 pF ~ 1148.4 pF 0.33 nF ~ 0.4999 nF 0.50 nF ~ 1.099 nF 1.10 nF ~ 3.2999 nF 3.30 nF ~ 10.999 nF 110 nF ~ 32.999 nF 33.0 nF ~ 109.99 nF 110 nF ~ 329.99 μF 0.33 μF ~ 1.0999 μF 1.10 μF ~ 3.2999 μF 3.30 μF ~ 10.999 μF 11.0 μF ~ 32.999 μF 33.0 μF ~ 109.99 μF 110 μF ~ 329.99 μF 330 μF ~ 1100 μF	CTTM – E03 – 2007, Rev. 05 @ 1 kHz @ 1 kHz	3.1% of reading 1.9% of reading 1.4% of reading 6.2 pF 6.2 pF 15 pF 19 pF 32 pF 77 pF 0.22 nF 0.45 nF 1.3 nF 4.4 nF 19 nF 58 nF 0.20 μF 0.85 μF 3.7 μF 16 μF
7.0 Milliohm Resistance Measuring Instruments (Lab/Site) 0.001 Ω ~ 0.01 Ω 0.01 Ω ~ 0.1 Ω 0.1 Ω ~ 1 Ω 1 Ω ~ 10 Ω 10 Ω to 100 Ω 100 Ω to 1 kΩ	CTTM – E12 – 2007, Rev. 04	5.8 % of rdg 2.3 % of rdg 0.14 % of rdg 0.059% of rdg 0.015 % of rdg 0.012% of rdg

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<p>8.0 Resistance Measuring Instruments (Lab/Site)</p> <p>0 Ω ~ 10.999 Ω 11 Ω ~ 32.999 Ω 33 Ω ~ 109.999 Ω 110 Ω ~ 329.999 Ω 330 Ω ~ 1.09999 kΩ 1.1 kΩ to 3.29999 kΩ 3.3 kΩ to 10.9999 kΩ 11 kΩ to 32.9999 kΩ 33 kΩ to 109.999 kΩ 110 kΩ to 329.999 kΩ 330 kΩ to 1.0999 MΩ 1.1 MΩ to 3.29999 MΩ 3.3 MΩ to 10.9999 MΩ 11 MΩ to 32.9999 MΩ 33 MΩ to 109.999 MΩ 110 MΩ to 290 MΩ</p> <p>0.01 Ω to 0.05 Ω 0.05 Ω to 0.1 Ω 0.1 Ω to 0.5 Ω 0.5 Ω to 1.0 Ω 1.0 Ω to 5.0 Ω 5.0 Ω to 10.0 Ω 10.0 Ω to 50.0 Ω 50.0 Ω to 100.0 Ω 100.0 Ω to 500.0 Ω 500.0 Ω to 1000.0 Ω 1.0 kΩ to 5.0 kΩ 5.0 kΩ to 10.0 kΩ 10.0 kΩ to 50.0 kΩ 50.0 kΩ to 100.0 kΩ</p>	<p>CTTM – E03 – 2007, Rev. 05</p> <p>CTTM – E03 – 2007, Rev. 05</p>	<p>8.5 mΩ 22 mΩ 30 mΩ 53 mΩ 190 mΩ 420 mΩ 1.8 Ω 4.2 Ω 21 Ω 53 Ω 0.26 kΩ 0.49 kΩ 8.3 kΩ 39 kΩ 0.65 MΩ 1.7 MΩ</p> <p>3.0 mΩ 5.8 mΩ 12 mΩ 23 mΩ 29 mΩ 58 mΩ 68 mΩ 120 mΩ 580 mΩ 1.2 Ω 5.8 Ω 12 Ω 58 Ω 120 Ω</p>

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<p>9.0 High Voltage Resistance Measuring Instruments (Lab / Site)</p> <p>100 kΩ 1000 kΩ 10 MΩ 100 MΩ 1000 MΩ 10 GΩ 100 GΩ 1000 GΩ</p>	<p>CTTM – E11 – 2007, Rev. 05</p>	<p>310 Ω 1.4 kΩ 130 kΩ 1.5 MΩ 12 MΩ 0.12 GΩ 2.7 GΩ 35 GΩ</p>
<p>10.0 Resistance Sourcing Instruments (Lab/Site)</p> <p>0 Ω ~ 10 Ω 10 Ω ~ 100 Ω 100 Ω ~ 1 kΩ 1 kΩ ~ 10 kΩ 10 kΩ ~ 100 kΩ 100 kΩ ~ 1 MΩ 1 MΩ ~ 10 MΩ 1 MΩ ~ 100 MΩ 100 MΩ ~ 1 GΩ</p>	<p>CTTM – E06 – 2007, Rev. 05</p>	<p>0.0047 Ω 0.016 Ω 0.13 Ω 1.3 Ω 13 Ω 0.13 kΩ 4.8 kΩ 0.94 MΩ 24 MΩ</p>

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MEASURED QUANTITIES/ INSTRUMENT/RANGE TO BE CALIBRATED	METHOD	CALIBRATION & MEASUREMENT CAPABILITY (CMC*)
11.0 Frequency Measuring Instruments (Lab/Site) 0.01 Hz ~ 119.990 Hz 120.0 Hz ~ 1199.9 Hz 1.200 kHz ~ 11.999 kHz 12.00 kHz ~ 119.99 kHz 120.0 kHz ~ 1199.9 kHz 1.200 MHz ~ 2.000 MHz	CTTM – E01 – 2007, Rev. 04	2.3 mHz 2.7 mHz 34 mHz 140 mHz 5.9 Hz 0.58 kHz
12.0 Frequency Sourcing Instruments (Lab/Site) 3 Hz ~ 5 Hz 5 Hz ~ 10 Hz 10 Hz ~ 40 Hz 40 Hz ~ 1kHz 1 kHz ~ 300 kHz 300 kHz ~ 1 MHz	CTTM – E06 – 2007, Rev. 05	0.12 % of rdg 0.058 % of rdg 0.038 % of rdg 0.013 % of rdg 0.013 % of rdg 0.013 % of rdg
13.0 DC Voltage Sourcing Instruments (Lab / Site) 0.0 mV~ 100 mV 0.1 V ~ 1V 1 V ~ 10 V 10 V ~ 100 V 100 V ~ 1000 V	CTTM – E06 – 2007, Rev. 05	8.6 μV 39 μV 360 μV 5.3 mV 61 mV

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<p>DC High Voltage Sourcing Instruments (Lab / Site)</p> <p>10 kV Range 10 kV ~ 50 kV Range 50 kV ~ 100 kV range</p>	CTTM – E07 – 2007, Rev. 06	0.078 kV 0.078 kV 0.59 kV
<p>14.0 DC Current Sourcing Instruments (Lab / Site)</p> <p>0 μA ~ 100 μA 100 μA ~ 1 mA 1 mA ~ 10 mA 10 mA ~ 100 mA 100 mA ~ 1 A 1 A ~ 3 A 2 A ~ 10 A</p>	CTTM – E06 – 2007, Rev. 05	88 nA 650 nA 8.2 μ A 65 μ A 830 μ A 4.3 mA 19 mA
<p>DC High Current Sourcing Instruments (Lab / Site)</p> <p>0.0 A ~ 30.0 A 30.0 A ~ 100A</p>	CTTM – E09 – 2007, Rev. 05	0.18 A 1.3 A
<p>15.0 AC Current Sourcing Instruments (Lab/Site)</p> <p>1 μA ~ 100 μA 10 Hz ~ 5 kHz 5 kHz ~ 10 kHz</p>	CTTM - E06 -2007, Rev. 05	0.17 μ A 0.55 μ A

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100 μA ~ 1 mA 10 Hz ~ 5 kHz 5 kHz ~ 10 kHz		1.7 μ A 6.5 μ A
1 mA ~ 10 mA 10 Hz ~ 5 kHz 5 kHz ~ 10 kHz		17 μ A 55 μ A
10 mA ~ 100 mA 10 Hz ~ 5 kHz 5 kHz ~ 10 kHz		170 μ A 520 μ A
100 mA ~ 1 A 10 Hz ~ 5 kHz 5 kHz ~ 10 kHz		1.7 mA 15 mA
1 A ~ 3 A 10 Hz ~ 5 kHz 5 kHz ~ 10 kHz		7.3 mA 33 mA
3 A ~ 10 A 10 Hz ~ 1 kHz		25 mA

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17.0 Inductance Measuring Instruments (Lab/Site) 0.1 mH to 1 mH 1 mH to 10 mH 10 mH to 100 mH 100 mH to 1000 mH 1 H to 5 H 5 H to 10 H	CTTM – E03 – 2007, Rev. 05	2.3 % of reading 2.3 % of reading 2.3 % of reading 2.3 % of reading 2.6 % of reading 3.1 % of reading
18.0 Time Measuring Instruments (Lab/Site) 1 s to 59 s 1 min to 59 mins	CTTM – E13 – 2007, Rev. 03	0.40 sec 0.90 sec
19.0 Power Measuring Instruments DC Power (Lab/Site) Upto 11kW 10 kW ~ 16.499 kW 16.5 kW ~ 149.999 kW 149.999 kW ~ 550 kW	CTTM – E02 – 2007, Rev. 04	0.078 % of reading 0.32 % of reading 0.32 % of reading 0.32 % of reading
20.0 Power Measuring Instruments AC Power (Lab/Site) Up to 11 kW 10 kW ~ 16.499 kW 16.5 kW ~ 149.999 kW 149.999 kW ~ 550 kW	CTTM – E02 – 2007, Rev. 04 45 Hz ~ 50 Hz @ PF = 1	0.11 % of reading 0.38 % of reading 0.40 % of reading 0.38 % of reading

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MEASURED QUANTITIES/ INSTRUMENT/RANGE TO BE CALIBRATED	METHOD	CALIBRATION & MEASUREMENT CAPABILITY (CMC*)
<p>21.0 Capacitance Sourcing Instruments (Lab/Site)</p> <p>0.1 nF ~ 1 nF 1 nF ~ 10 nF 10 nF ~ 100 nF 100 nF ~ 1 µF 1 µF ~ 10 µF 10 µF ~ 100 µF 100 µF ~ 1 mF</p>	<p>CTTM – E06 – 2007, Rev. 05</p>	<p>5.9 % of reading 1.8 % of reading 1.8 % of reading 1.8 % of reading 1.8 % of reading 1.8 % of reading 1.8 % of reading</p>
<p>C. Temperature</p> <p>1.0 Ice Point of Water 0°C (Lab)</p> <ul style="list-style-type: none"> • Thermometers • PRT's • Thermocouples • Bi-Metal Thermometers • Capillary Thermometers <p style="padding-left: 40px;">0 °C</p>	<p>CTTM – T01 – 2007, Rev. 05</p>	<p>0.022 °C (with PRT C/W as UUT)</p> <p>0.063 °C (with RTD without Indicator as UUT)</p> <p>0.11 °C (with TC without Indicator as UUT)</p>

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2.0 Temperature Measuring Devices with indicators (Lab) <ul style="list-style-type: none"> • Temperature Gauges • Probe Thermometers • Thermocouples • Temperature Data loggers • Bi-Metal Thermometers • Capillary Thermometers • Temp. Transmitters and Switches • RTD Probes • Temp. Recorders & Controllers • Chart Recorders 			
(-75 to 50) °C	CTTM – T02 – 2007, Rev. 06	0.020 °C (with RTD as UUT)	
(50 to 100) °C		0.020 °C (with RTD as UUT)	
(100 to 200) °C		0.020 °C (with RTD as UUT)	
(200 to 400) °C		0.020 °C (with RTD as UUT)	
(400 to 500) °C		0.020 °C (with RTD as UUT)	
(500 to 600) °C	CTTM – T03 – 2007, Rev. 04	1.6 °C	
(600 to 800) °C		3.1 °C	
(800 to 1000) °C		3.1 °C	
3.0 Temperature Measuring Device w/o Indicator (Lab)		<u>RTD (Sensor)</u>	<u>TC (Sensor)</u>
(-75 to 200) °C	CTTM – T02 – 2007, Rev. 06	0.060 °C	0.19 °C
(200 to 400) °C		0.090 °C	0.19 °C
(400 to 500) °C		0.10 °C	0.19 °C
(500 to 600) °C	CTTM – T03 – 2007, Rev. 05		0.20 °C
(600 to 800) °C			3.1 °C
(800 to 1000) °C			3.1 °C

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4.0 Liquid -In-Glass Thermometers (Lab) (0 to 100) °C (100 to 200) °C (200 to 400) °C (400 to 500) °C	CTTM – T02 – 2007, Rev. 06	Graduation = 0.10 °C	Graduation = 0.50 °C
		0.24 °C	0.70 °C
		0.24 °C	0.70 °C
		0.24 °C	0.70 °C
		0.24 °C	0.70 °C
5.0 Temperature Calibrators (Lab/Site) <ul style="list-style-type: none"> • Block Calibrators • Temperature Baths • Furnaces • Sand Baths • Liquid Baths • Dry Block Calibrators • Oil Baths • Water Baths -75 °C ~ 100 °C 100 °C ~ 300 °C 300 °C ~ 500 °C 500 °C ~ 800 °C 800 °C ~ 1000 °C 1000 °C ~ 1200 °C	CTTM – T04 – 2007, Rev. 05		
		0.11 °C	
		0.11 °C	
		0.11 °C	
		0.94 °C	
		1.0 °C	
		1.0 °C	
6.0 Temperature Radiation Devices (Lab / Site)	CTTM – T05 – 2007, Rev. 04		
	Emissivity		
0 °C ~ 50 °C	ε=0.99	2.6 °C	
50 °C ~ 75 °C	ε=0.99	2.7 °C	
75 °C ~ 110 °C	ε=0.99	2.7 °C	

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<p>7.0 Temperature Indicator without Sensor Measure Mode:</p> <p>a) Type K -200 °C ~ 0 °C 0 °C ~ 900 °C 900 °C ~ 1370 °C</p> <p>b) Type T -199 °C ~ 0 °C 0 °C ~ 400 °C</p> <p>c) Type J -210 °C ~ 0 °C 0 °C ~ 600 °C 600 °C ~ 1200 °C</p> <p>d) Type N -200 °C ~ 0 °C 0 °C ~ 300 °C 300 °C ~ 1200 °C</p> <p>e) Type R 0 °C ~ 250 °C 250 °C ~ 400 °C 400 °C ~ 1000 °C 1000 °C ~ 1760 °C</p> <p>f) Type S 0 °C ~ 250 °C 250 °C ~ 400 °C 400 °C ~ 1000 °C 1000 °C ~ 1760 °C</p>	<p>CTTM – T06 – 2007, Rev. 04</p>	<p>Lab</p> <p>0.50 °C 0.44 °C 0.56 °C 0.79 °C 0.34 °C 0.82 °C 0.77 °C 0.80 °C 0.72 °C 0.59 °C 0.63 °C 0.68 °C 0.43 °C 0.41 °C 0.49 °C 0.58 °C 0.46 °C 0.46 °C 0.57 °C</p>	<p>Site</p> <p>0.77 °C 0.66 °C 0.66 °C 1.03 °C 0.95 °C 0.95 °C 0.89 °C 0.89 °C 1.08 °C 0.98 °C 0.80 °C 1.6 °C 1.3 °C 1.3 °C 1.3 °C 1.6 °C 1.3 °C 1.3 °C 1.4 °C</p>

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g) Type E -199 °C ~ -100 °C -100 °C ~ 0 °C 0 °C ~ 600 °C 600 °C ~ 1000 °C RTD Measuring Devices (Indicator) (Lab / Site) -200 °C ~ -100 °C -100 °C ~ 300 °C 300 °C ~ 600 °C 600 °C ~ 800 °C Source Mode : (Lab)	CTTM – T06 – 2007, Rev. 04	Lab	Site
		0.69 °C	0.69 °C
		0.41 °C	0.69 °C
		0.42 °C	0.69 °C
		0.45 °C	0.60 °C
	CTTM – T06 – 2007, Rev. 04	Lab	Site
		0.070 °C	0.25 °C
		0.11 °C	0.47 °C
		0.19 °C	0.61 °C
		0.27 °C	0.61 °C
	CTTM – T06 – 2007, Rev. 04	Lab	Site
a) Type K		0.51 °C	1.1 °C
-200 °C ~ 0 °C		0.38 °C	0.68 °C
0 °C ~ 900 °C		0.57 °C	1.1 °C
900 °C ~ 1370 °C			
b) Type T		0.79 °C	0.98 °C
-199 °C ~ 0 °C		0.42 °C	0.67 °C
0 °C ~ 400 °C			
c) Type J		0.82 °C	1.2 °C
-200 °C ~ 0 °C		0.78 °C	0.96 °C
0 °C ~ 600 °C		0.80 °C	1.2 °C
600 °C ~ 1200 °C			
d) Type N		0.72 °C	1.5 °C
-200 °C ~ 0 °C		0.60 °C	0.99 °C
0 °C ~ 400 °C		0.64 °C	1.1 °C
400 °C ~ 1200 °C			

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e) Type R 0 °C ~ 250 °C 250 °C ~ 400 °C 400 °C ~ 1000 °C 1000 °C ~ 1760 °C		0.68 °C	2.9 °C
		0.44 °C	1.4 °C
		0.42 °C	1.4 °C
		0.50 °C	1.4 °C
f) Type S 0 °C ~ 250 °C 250 °C ~ 400 °C 400 °C ~ 1000 °C 1000 °C ~ 1760 °C		0.59 °C	2.9 °C
		0.47 °C	1.3 °C
		0.47 °C	1.3 °C
		0.58 °C	1.5 °C
g) Type E -199 °C ~ -100 °C -100 °C ~ 600 °C 600 °C ~ 1000 °C		0.69 °C	0.91 °C
		0.42 °C	0.91 °C
		0.46 °C	0.81 °C
RTD Sourcing Devices (Indicator) (Lab / Site) -200 °C ~ -100 °C -100 °C ~ 0 °C 0 °C ~ 300 °C 300 °C ~ 600 °C 600 °C ~ 800 °C	CTTM – T06 – 2007, Rev. 04	0.06 °C	0.12 °C
		0.08 °C	0.12 °C
		0.12 °C	1.9 °C
		0.16 °C	2.2 °C
		0.19 °C	2.4 °C
8. Surface Measuring Devices (With and Without Indicator) (Lab / Site) <ul style="list-style-type: none"> • Surface Probes • Surface Thermometers • Contact Probes • Contact Thermometers • Magnetic Thermometers • Magnetic Temperature Sensors 	CTTM – T07 – 2007, Rev. 03		

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35 °C ~ 100 °C 100 °C ~ 200 °C 200 °C ~ 300 °C 300 °C ~ 400 °C 400 °C ~ 550 °C		1.2 °C 1.3 °C 1.3 °C 2.0 °C 3.4 °C
8.0b Surface Hot Plates (Lab / Site) 35 °C ~ 100 °C 100 °C ~ 200 °C 200 °C ~ 300 °C	CTTM – T07 – 2007, Rev. 04	4.1 °C 4.4 °C 5.3 °C
9.0 Controlled Temperature/Humidity Enclosures (Lab/Site) <ul style="list-style-type: none"> • Ovens • Freezers • Fridges • Incubators • Autoclaves • Furnace • Chambers • Sterilizers • Water Bath -75 °C ~ 0 °C 0 °C ~ 50 °C 50 °C ~ 200 °C 200 °C ~ 400 °C 400 °C ~ 600 °C 600 °C ~ 800 °C 800 °C ~ 1000 °C 1000 °C ~ 1200 °C	CTTM – T08 - 2007, Rev 05 CTTM - T09 – 2007, Rev. 06	1.6 °C 1.6 °C 1.9 °C 2.0 °C 4.2 °C 4.2 °C 4.4 °C 4.4 °C

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<p>Fixed at @ 21 °C (10 ~ 20) % relative humidity (20 ~ 40) % relative humidity (40 ~ 60) % relative humidity (60 ~ 90) % relative humidity</p> <p>10.0 Humidity/Temperature/Measuring Devices (Lab)</p> <ul style="list-style-type: none"> • Hygrometer • Humidity Meter • Hygrograph • Thermo Hygrograph • Data Logger • Hygrometer Indicator • Digital Humidity Meter • Humidity Sensor • Dew Meter <p>At 21 °C setting (5 ~ 40) % relative humidity (40 ~ 60) % relative humidity (60 ~ 90) % relative humidity</p> <p>At 50 % relative humidity 10 °C ~ 15 °C 15 °C ~ 25 °C 25 °C ~ 35 °C 35 °C ~ 50 °C</p>	<p>CTTM –T10 –.2007, Rev. 04</p>	<p>2.9 % relative humidity 3.3 % relative humidity 3.8 % relative humidity 4.5 % relative humidity</p> <p>3.3 % relative humidity 3.4 % relative humidity 3.4 % relative humidity</p> <p>0.48 °C 0.48 °C 0.48 °C 0.89 °C</p>

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MEASURED QUANTITIES/ INSTRUMENT/RANGE TO BE CALIBRATED	METHOD	CALIBRATION & MEASUREMENT CAPABILITY (CMC*)
<p>11.0 Humidity / Temperature / Measuring Devices (Lab/Site)</p> <ul style="list-style-type: none"> • Hygrometers • Humidity Meters • Data Loggers • Hygrometer Indicators • Digital Humidity Meters • Humidity Sensors • Dew Meters • Elcometers <p>At 5 °C setting (10 ~ 35) % relative humidity (35 ~ 65) % relative humidity (65 ~ 95) % relative humidity</p> <p>At 23 °C setting (10 ~ 35) % relative humidity (35 ~ 65) % relative humidity (65 ~ 95) % relative humidity</p> <p>At 50 °C setting (10 ~ 35) % relative humidity (35 ~ 65) % relative humidity (65 ~ 95) % relative humidity</p> <p>5 °C ~ 10 °C @ any Humidity 10 °C ~ 20 °C @ any Humidity 20 °C ~ 40 °C @ any Humidity 40 °C ~ 50 °C @ any Humidity</p>	<p>CTTM –T17 – 2007, Rev. 05</p>	<p>1.6 % relative humidity 1.6 % relative humidity 1.7 % relative humidity</p> <p>1.1 % relative humidity 1.2 % relative humidity 1.4 % relative humidity</p> <p>1.1 % relative humidity 1.2 % relative humidity 1.4 % relative humidity</p> <p>0.26 °C 0.22 °C 0.20 °C 0.29 °C</p>

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MEASURED QUANTITIES/ INSTRUMENT/RANGE TO BE CALIBRATED	METHOD	CALIBRATION & MEASUREMENT CAPABILITY (CMC*)
<p>12.0 Dew Point Measuring Devices (Lab/Site)</p> <ul style="list-style-type: none"> • Dew Meter • Elcometers • Dew Point Sensor • Dew Point Meters <p>-10 °C dp ~ 0 °C dp 0 °C dp ~ 20 °C dp</p>	<p>CTTM – T18 – 2007, Rev. 04</p>	<p>0.24 °C dp 0.24 °C dp</p>
<p>13.0 Temperature Measuring Devices with indicators (Site)</p> <ul style="list-style-type: none"> • Probe Thermometers • Thermocouples • Temperature Data loggers • Bi-Metal Thermometers • Capillary Thermometers • Temp. Transmitters and • RTD Probes • Temp. Recorders & Controllers • Chart Recorders <p>35 °C ~ 50 °C 50 °C ~ 100 °C 100 °C ~ 200 °C 200 °C ~ 400 °C 400 °C ~ 500 °C</p>	<p>CTTM – T02 -2007, Rev. 06</p>	<p>0.37 °C 0.37 °C 0.37 °C 0.65 °C 1.7 °C</p>

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MEASURED QUANTITIES/ INSTRUMENT/RANGE TO BE CALIBRATED	METHOD	CALIBRATION & MEASUREMENT CAPABILITY (CMC*)
14.0 Temperature Measuring Devices (Thermistor) (Lab) 0 °C 15 °C 30 °C	CTTM-T02-2007, Rev 06	0.025 °C 0.026 °C 0.027 °C

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

Approved signatories :

Mr Kyaw Moe Shein – only for categories A and C

Mr V. Siva – for all items

Mr Jaswanth Lal – for item A 15, 16, 17, 18, 19, 24 & 27, categories B and C

Mr M Ayyappan – for item A 15, 16, 17, 18, 19, 20, 21 & 27, C 1, 2, 7, 8(a), 8(b),
9, 12, 13 & 14

Mr Mohamed Rasheed – only for category B

Mr Anoop Ummappilly – For item C 1, 2, 3, 6, 7, 8(a), 8(b), 9, 12, 13 & 14

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 test 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.