

Schedule

UniCal Pte Ltd
Block 28F, Penjuru Close
#01-05
Singapore 609134

Certificate No. : LA-2018-0688-C
Issue No. : 09
Date : 17 June 2026
Expiry of Certificate : 29 June 2030
Page : 1 of 12

ACCREDITATION STANDARD: ISO/IEC 17025:2017
FIELD OF TESTING: Calibration and Measurement

MEASURED QUANTITIES / INSTRUMENTS / RANGE TO BE CALIBRATED	METHOD	CALIBRATION AND MEASUREMENT CAPABILITY (CMC*)
A TEMPERATURE		
1. <u>Resistance Temperature Devices Indicators</u>	UTCP-001-V04	
<u>In-house</u> -200 °C to 800 °C		0.05 °C
<u>On-site</u> -200 °C to 800 °C		0.07 °C
2. <u>Resistance Temperature Devices Simulators</u>	UTCP-001-V04	
<u>In-house</u> -200 °C to 800 °C		0.05°C
<u>On-site</u> -200 °C to 800 °C		0.07 °C
3. <u>Thermocouple Indicators</u>	UTCP-002-V05	
<u>In-house</u> Type J -200 °C to -100 °C > -100 °C to 500 °C > 500 °C to 1100 °C > 1100 °C to 1200 °C		0.22 °C 0.20 °C 0.18 °C 0.20 °C

Schedule



Certificate No. : LA-2018-0688-C

Issue No. : 09

Date : 17 June 2026

Page : 2 of 12

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Type K -200 °C to -100 °C > -100 °C to 1300 °C		0.30 °C 0.27 °C
Type N -200 °C to -100 °C > -100 °C to 1200 °C		0.31 °C 0.26 °C
Type T -200 °C to -100 °C > -100 °C to 100 °C > 100 °C to 400 °C		0.36 °C 0.33 °C 0.32 °C
<u>On-site</u> Type J -200 °C to -100 °C > -100 °C to 500 °C > 500 °C to 1100 °C > 1100 °C to 1200 °C		0.23 °C 0.21 °C 0.19 °C 0.21 °C
Type K -200 °C to -100 °C > -100 °C to 1300 °C		0.31 °C 0.27 °C
Type N -200 °C to -100 °C > -100 °C to 1200 °C		0.31 °C 0.27 °C
Type T -200 °C to -100 °C > -100 °C to 100 °C > 100 °C to 400 °C		0.37 °C 0.34 °C 0.33 °C

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Page : 3 of 12

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Schedule



Certificate No. : LA-2018-0688-C

Issue No. : 09

Date : 17 June 2026

Page : 4 of 12

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5. <u>Resistance Temperature Detectors</u> <u>With or Without Display</u> <u>In-house</u> -80 °C to -30 °C > -30 °C to 0 °C > 0 °C (ice point) to 30 °C > 30 °C to 50 °C > 50 °C to 75 °C > 75 °C to 100 °C > 100 °C to 150 °C > 150 °C to 200 °C > 200 °C to 250 °C > 250 °C to 300 °C > 300 °C to 350 °C > 350 °C to 400 °C > 400 °C to 450 °C > 450 °C to 500 °C <u>On-site</u> -30 °C to 0 °C > 0 °C (ice point) > 0 °C to 50 °C > 50 °C to 100 °C > 100 °C to 150 °C > 150 °C to 200 °C > 200 °C to 250 °C > 250 °C to 300 °C > 300 °C to 350 °C > 350 °C to 400 °C > 400 °C to 450 °C > 450 °C to 500 °C	UTCP-003-V06	0.053 °C 0.048 °C 0.051 °C 0.052 °C 0.058 °C 0.10 °C 0.11 °C 0.12 °C 0.15 °C 0.25 °C 0.27 °C 0.31 °C 0.32 °C 0.57 °C 0.051 °C 0.051 °C 0.058 °C 0.10 °C 0.11 °C 0.12 °C 0.15 °C 0.25 °C 0.27 °C 0.31 °C 0.32 °C 0.57 °C

Schedule



Certificate No. : LA-2018-0688-C

Issue No. : 09

Date : 17 June 2026

Page : 5 of 12

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6. <u>Thermocouple Sensors With or Without Display</u> <u>In-house</u> Type J -30 °C to 0 °C > 0 °C to 100 °C > 100 °C to 200 °C > 200 °C to 300 °C > 300 °C to 400 °C > 400 °C to 500 °C Type K -30 °C to 100 °C > 100 °C to 200 °C > 200 °C to 300 °C > 300 °C to 400 °C > 400 °C to 500 °C Type N -30 °C to 0 °C > 0 °C to 100 °C > 100 °C to 200 °C > 200 °C to 300 °C > 300 °C to 400 °C > 400 °C to 500 °C Type T -80 °C to -40 °C > -40 °C to -30 °C > -30 °C to 150 °C > 150 °C to 250 °C > 250 °C to 300 °C > 300 °C to 350 °C Type R 0 °C to 200 °C > 200 °C to 500 °C	UTCP-004-V08	0.21 °C 0.24 °C 0.34 °C 0.97 °C 1.3 °C 1.6 °C 0.41 °C 0.43 °C 0.62 °C 0.67 °C 0.83 °C 0.34 °C 0.36 °C 0.43 °C 0.58 °C 0.64 °C 0.80 °C 0.28 °C 0.30 °C 0.29 °C 0.81 °C 1.0 °C 1.2 °C 1.2 °C 1.3 °C

Schedule



Certificate No. : LA-2018-0688-C

Issue No. : 09

Date : 17 June 2026

Page : 6 of 12

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On-site Type J -30 °C to 0 °C > 0 °C to 100 °C > 100 °C to 200 °C > 200 °C to 300 °C > 300 °C to 400 °C > 400 °C to 500 °C Type K -30 °C to 100 °C > 100 °C to 200 °C > 200 °C to 300 °C > 300 °C to 400 °C > 400 °C to 500 °C Type N -30 °C to 0 °C > 0 °C to 100 °C > 100 °C to 200 °C > 200 °C to 300 °C > 300 °C to 400 °C > 400 °C to 500 °C Type T -30 °C to 0 °C > 0 °C to 50 °C > 50 °C to 100 °C > 100 °C to 150 °C > 150 °C to 250 °C > 250 °C to 300 °C > 300 °C to 350 °C Type R 0 °C to 400 °C > 400 °C to 500 °C		0.35 °C 0.46 °C 0.72 °C 1.1 °C 1.3 °C 1.6 °C 0.47 °C 0.56 °C 0.69 °C 0.74 °C 0.88 °C 0.39 °C 0.42 °C 0.52 °C 0.65 °C 0.71 °C 0.86 °C 0.27 °C 0.30 °C 0.40 °C 0.51 °C 0.81 °C 1.1 °C 1.2 °C 1.3 °C 1.4 °C

Schedule



Certificate No. : LA-2018-0688-C

Issue No. : 09

Date : 17 June 2026

Page : 7 of 12

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7. <u>Temperature Block Calibrators</u> <u>Multiple/Single Holes</u> <u>In-house and On-site</u> Deviation Test Only -35 °C to 500 °C	UTCP-005-V06	0.10 °C
8. <u>RTD Sensors With Transmitters</u> <u>In-house</u> -50 °C to 0 °C 0 °C (ice point) > 0 °C to 25 °C > 25 °C to 75 °C > 75 °C to 100 °C > 100 °C to 150 °C > 150 °C to 200 °C > 200 °C to 300 °C > 300 °C to 400 °C > 400 °C to 500 °C <u>On-site</u> -30 °C to 0 °C > 0 °C to 100 °C > 100 °C to 200 °C > 200 °C to 300 °C > 300 °C to 400 °C > 400 °C to 500 °C	UTCP-006-V07	0.10 °C 0.09 °C 0.17 °C 0.15 °C 0.13 °C 0.20 °C 0.34 °C 0.45 °C 0.43 °C 0.54 °C 0.26 °C 0.27 °C 0.36 °C 0.47 °C 0.44 °C 0.56 °C

Schedule



Certificate No. : LA-2018-0688-C

Issue No. : 09

Date : 17 June 2026

Page : 8 of 12

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9. <u>Temperature Enclosures</u> (according to IEC 60068-3-5) <u>In-house</u> -80 °C to -40 °C > -40 °C to -30 °C > -30 °C to 0 °C 0 °C > 0 °C to 75 °C > 75 °C to 100 °C > 100 °C to 120 °C > 120 °C to 250 °C > 250 °C to 750 °C > 750 °C to 900 °C > 900 °C to 1200 °C <u>On-site</u> -80 °C to -40 °C > -40 °C to -30 °C > -30 °C to 0 °C 0 °C > 0 °C to 75 °C > 75 °C to 100 °C > 100 °C to 120 °C > 120 °C to 250 °C > 250 °C to 750 °C > 750 °C to 900 °C >900 °C to 1200 °C <u>Enclosure's temperature indicator/controller with sensor</u> <u>(In-house and On-site)</u> -80 °C to -30 °C > -30 °C to 123 °C > 123 °C to 175 °C	UTCP-007-V09	6.8 °C 3.7 °C 0.76 °C 0.69 °C 0.64 °C 0.70 °C 0.79 °C 3.7 °C 4.4 °C 4.3 °C 10.0 °C 6.8 °C 3.7 °C 0.76 °C 0.69 °C 0.64 °C 0.70 °C 0.79 °C 3.7 °C 4.4 °C 4.4 °C 10.0 °C 1.2 °C 0.42 °C 0.69 °C

Schedule



Certificate No. : LA-2018-0688-C

Issue No. : 09

Date : 17 June 2026

Page : 9 of 12

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10. <u>Radiation Thermometers</u> a) With an Emissivity of 0.95 -17 °C to 0 °C 0 °C > 0 °C to 25 °C > 25 °C to 50 °C > 50 °C to 75 °C > 75 °C to 100 °C > 100 °C to 145 °C b) With an Emissivity of 1.00 Low-Temperature Range -14 °C to 0 °C 0 °C > 0 °C to 30 °C > 30 °C to 100 °C High-Temperature Range > 100 °C to 200 °C > 200 °C to 300 °C > 300 °C to 400 °C > 400 °C to 500 °C	UTCP-008-V05	<u>In-house</u> 1.8 °C 1.0 °C 0.6 °C 0.7 °C 1.0 °C 1.3 °C 1.4 °C <u>In-house</u> 1.6 °C 1.1 °C 0.5 °C 1.7 °C 1.3 °C 2.2 °C 1.5 °C 2.7 °C
11. <u>Temperature and Humidity Instruments</u> a) <u>In-house*</u> -30 °C -30 °C to 0 °C > 0 °C to 23 °C > 23 °C to 50 °C > 50 °C to 100 °C > 100 °C to 120 °C b) <u>In-house</u> at 55 % relative humidity 0 °C 0 °C to 60 °C at 60 % relative humidity 0 °C 0 °C to 60 °C	UTCP-012-V07 *For instruments that need to be calibrated in the environmental chamber.	0.25 °C 0.22 °C 0.12 °C 0.21 °C 0.29 °C 0.37 °C 0.36 °C 0.32 °C 0.41 °C 0.38 °C

Schedule



Certificate No. : LA-2018-0688-C

Issue No. : 09

Date : 17 June 2026

Page : 10 of 12

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c) <u>In-house</u> at (20 to 23) °C (10 to 60) % relative humidity (60 to 90) % relative humidity 30 °C at 65 % relative humidity) 40 °C at 75 % relative humidity) 12. <u>Temperature and Humidity</u> <u>Chambers</u> <u>(according to IEC 60068-3-6)</u> <u>In-house and On-site</u> (30 to 90) % relative humidity at 20 °C (10 to 90) % relative humidity at 23 °C 30 °C at 65 % relative humidity 40 °C at 75 % relative humidity 20 °C to 23 °C > 23 °C to 30 °C > 30 °C to 40 °C	UTCP-013-V06	1.3 % relative humidity 1.4 % relative humidity 0.43 °C / 1.4 % relative humidity 2.8 % relative humidity 2.6 % relative humidity 2.5 % relative humidity 2.8 % relative humidity 0.7 °C 0.8 °C 0.9 °C

Page : 11 of 12

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Page : 12 of 12

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