

Schedule of Accreditation

issued by

United Kingdom Accreditation Service

2 Pine Trees, Chertsey Lane, Staines-upon-Thames, TW18 3HR, UK



0535

Accredited to
ISO/IEC 17025:2017

Sunbelt Rentals Limited

Issue No: 026

Issue date: 03 September 2021

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Calibration performed at the above address only

Calibration and Measurement Capability (CMC)

| Measured Quantity Instrument or Gauge | Range | Expanded Measurement Uncertainty ($k = 2$) | Remarks |
|--|--|--|--|
| ELECTRICAL CALIBRATION | | | |
| DC RESISTANCE | | | |
| Generation | 0 Ω to 11 Ω 11 Ω to 33 Ω 33 Ω to 110 Ω 110 Ω to 330 Ω 330 Ω to 1.1 k Ω 1.1 k Ω to 3.3 k Ω 3.3 k Ω to 11 k Ω 11 k Ω to 33 k Ω 33 k Ω to 110 k Ω 110 k Ω to 330 k Ω 330 k Ω to 1.1 M Ω 1.1 M Ω to 3.3 M Ω 3.3 M Ω to 11 M Ω 11 M Ω to 33 M Ω 33 M Ω to 110 M Ω 110 M Ω to 330 M Ω 330 M Ω to 1.1 G Ω | 63 $\mu\Omega/\Omega$ + 0.70 m Ω 36 $\mu\Omega/\Omega$ + 1.0 m Ω 24 $\mu\Omega/\Omega$ + 0.94 m Ω 22 $\mu\Omega/\Omega$ + 1.3 m Ω 20 $\mu\Omega/\Omega$ + 1.3 m Ω 20 $\mu\Omega/\Omega$ + 13 m Ω 20 $\mu\Omega/\Omega$ + 13 m Ω 20 $\mu\Omega/\Omega$ + 130 m Ω 20 $\mu\Omega/\Omega$ + 130 m Ω 26 $\mu\Omega/\Omega$ + 1.3 Ω 100 $\mu\Omega/\Omega$ + 20 Ω 130 $\mu\Omega/\Omega$ + 34 Ω 530 $\mu\Omega/\Omega$ + 1.7 k Ω 870 $\mu\Omega/\Omega$ + 2.0 k Ω 0.20 % + 67 k Ω 1.0 % + 340 k Ω | Electrical calibrations are performed by comparison with a reference standard measuring the output of instruments or generating the output, as stated. These values can be generated for the calibration of measuring instruments |
| Measurement | 0 Ω to 20 Ω 20 Ω to 200 Ω 200 Ω to 2 k Ω 2 k Ω to 20 k Ω 20 k Ω to 200 k Ω 200 k Ω to 2 M Ω 2 M Ω to 20 M Ω 20 M Ω to 200 M Ω 200 M Ω to 1 G Ω | 21 $\mu\Omega/\Omega$ + 24 $\mu\Omega$ 12 $\mu\Omega/\Omega$ + 72 $\mu\Omega$ 8.9 $\mu\Omega/\Omega$ + 720 $\mu\Omega$ 8.9 $\mu\Omega/\Omega$ + 7.2 m Ω 12 $\mu\Omega/\Omega$ + 72 m Ω 23 $\mu\Omega/\Omega$ + 1.6 Ω 38 $\mu\Omega/\Omega$ + 92 Ω 270 $\mu\Omega/\Omega$ + 11 k Ω 0.24 % + 1.0 M Ω | Outputs of instruments can be measured |
| DC VOLTAGE | | | |
| Generation | 0 mV to 330 mV 330 mV to 3.3 V 3.3 V to 33 V 33 V to 330 V 330 V to 1000 V | 17 $\mu\text{V}/\text{V}$ + 840 nV 8.9 $\mu\text{V}/\text{V}$ + 1.3 μV 10 $\mu\text{V}/\text{V}$ + 13 μV 15 $\mu\text{V}/\text{V}$ + 100 μV 15 $\mu\text{V}/\text{V}$ + 1.0 mV | These values can be generated for the calibration of measuring instruments |
| Measurement | 0 mV to 200 mV 200 mV to 2 V 2 V to 20 V 20 V to 200 V 200 V to 1000 V 1 kV to 100 kV 100 kV to 150 kV | 9.5 $\mu\text{V}/\text{V}$ + 0.70 μV 4.6 $\mu\text{V}/\text{V}$ + 0.86 μV 4.3 $\mu\text{V}/\text{V}$ + 3.1 μV 7.8 $\mu\text{V}/\text{V}$ + 50 μV 7.8 $\mu\text{V}/\text{V}$ + 0.50 mV 0.30 % + 0.70 V 0.30 % + 7.0 V | Outputs of instruments can be measured Can also be used for generation and measurement by comparison |



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| Measured Quantity Instrument or Gauge | Range | Expanded Measurement Uncertainty ($k = 2$) | Remarks |
|--|---|--|--|
| DC CURRENT | | | |
| Generation | 0 μ A to 330 μ A 330 μ A to 3.3 mA 3.3 mA to 33 mA 33 mA to 330 mA 330 mA to 1.1 A 1.1 A to 3 A 3 A to 11 A 11 A to 20.5 A | 110 μ A/A + 15 nA 72 μ A/A + 34 nA 72 μ A/A + 170 nA 72 μ A/A + 1.7 μ A 140 μ A/A + 27 μ A 270 μ A/A + 27 μ A 350 μ A/A + 340 μ A 680 μ A/A + 500 μ A | These values can be generated for the calibration of measuring instruments |
| Measurement | 0 μ A to 200 μ A 200 μ A to 2 mA 2 mA to 20 mA 20 mA to 200 mA 200 mA to 2 A | 45 μ A/A + 0.5 nA 35 μ A/A + 5.0 nA 35 μ A/A + 50 nA 63 μ A/A + 1.2 μ A 180 μ A/A + 23 μ A | Outputs of instruments can be measured |



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| | | | |
|-------------------------------------|---|---|---|
| <p>AC VOLTAGE</p> <p>Generation</p> | <p>1 mV to 33 mV 10 Hz to 45 kHz 45 Hz to 10 kHz 10 kHz to 20 kHz 20 kHz to 50 kHz 50 kHz to 100 kHz</p> <p>33 mV to 330 V 10 Hz to 45 kHz 45 Hz to 10 kHz 10 kHz to 20 kHz 20 kHz to 50 kHz 50 kHz to 100 kHz</p> <p>330 mV to 3.3 V 10 Hz to 45 kHz 45 Hz to 10 kHz 10 kHz to 20 kHz 20 kHz to 50 kHz 50 kHz to 100 kHz</p> <p>3.3 V to 33 V 10 Hz to 45 kHz 45 Hz to 10 kHz 10 kHz to 20 kHz 20 kHz to 50 kHz 50 kHz to 100 kHz</p> <p>33 V to 330 V 45 Hz to 1 kHz 1 kHz to 10 kHz 10 kHz to 20 kHz 20 kHz to 50 kHz 50 kHz to 100 kHz</p> <p>330 V to 1020 V 45 Hz to 1 kHz 1 kHz to 5 kHz 5 kHz to 10 kHz</p> | <p>0.054 % + 4.4 μV 0.010 % + 4.4 μV 0.013 % + 4.4 μV 0.067 % + 4.4 μV 0.24 % + 9.0 μV</p> <p>0.020 % + 5.8 μV 0.010 % + 5.8 μV 0.011 % + 5.8 μV 0.024 % + 5.8 μV 0.054 % + 22 μV</p> <p>0.020 % + 39 μV 0.011 % + 45 μV 0.013 % + 45 μV 0.020 % + 39 μV 0.047 % + 86 μV</p> <p>0.020 % + 440 μV 0.010 % + 400 μV 0.016 % + 400 μV 0.024 % + 400 μV 0.060 % + 1.1 mV</p> <p>0.013 % + 3.2 mV 0.014 % + 5.0 mV 0.017 % + 5.0 mV 0.020 % + 5.0 mV 0.13 % + 34 mV</p> <p>0.020 % + 6.7 mV 0.017 % + 6.7 mV 0.020 % + 6.7 mV</p> | <p>These values can be generated for the calibration of measuring instruments</p> |
| <p>Measurement</p> | <p>2 mV to 200 mV 40 Hz to 100 Hz 100 Hz to 2 kHz 2 kHz to 10 kHz 10 kHz to 30 kHz 30 kHz to 100 kHz</p> <p>200 mV to 2 V 40 Hz to 100 Hz 100 Hz to 2 kHz 2 kHz to 10 kHz 10 kHz to 30 kHz 30 kHz to 100 kHz</p> | <p>200 μV/V + 10 μV 200 μV/V + 9.5 μV 180 μV/V + 10 μV 410 μV/V + 13 μV 920 μV/V + 25 μV</p> <p>110 μV/V + 23 μV 90 μV/V + 23 μV 110 μV/V + 23 μV 240 μV/V + 46 μV 600 μV/V + 230 μV</p> | <p>Outputs of instruments can be measured</p> |



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|---|---|---|---|
| AC VOLTAGE (continued) Measurement (continued) | 2 V to 20 V 40 Hz to 100 Hz 100 Hz to 2 kHz 2 kHz to 10 kHz 10 kHz to 30 kHz 30 kHz to 100 kHz 20 V to 200 V 40 Hz to 100 Hz 100 Hz to 2 kHz 2 kHz to 10 kHz 10 kHz to 30 kHz 30 kHz to 100 kHz 200 to 1000 V 40-z to 10 kHz 10Hz to 30 kHz 50Hz 1 kV to 10 kV 10 kV to 100 kV 100 kV to 150 kV | 110 $\mu\text{V/V} + 230 \mu\text{V}$ 90 $\mu\text{V/V} + 230 \mu\text{V}$ 110 $\mu\text{V/V} + 230 \mu\text{V}$ 240 $\mu\text{V/V} + 460 \mu\text{V}$ 600 $\mu\text{V/V} + 2.3 \text{ mV}$ 140 $\mu\text{V/V} + 2.3 \text{ mV}$ 120 $\mu\text{V/V} + 2.3 \text{ mV}$ 110 $\mu\text{V/V} + 2.3 \text{ mV}$ 240 $\mu\text{V/V} + 4.6 \text{ mV}$ 630 $\mu\text{V/V} + 23 \text{ mV}$ 180 $\mu\text{V/V} + 23 \text{ mV}$ 340 $\mu\text{V/V} + 46 \text{ mV}$ 0.31 % + 3.5 V 0.31 % + 35 V 0.31 % + 260 V | Can also be used for generation and measurement by comparison |



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| | | | |
|-------------------------------------|---|---|---|
| <p>AC CURRENT</p> <p>Generation</p> | <p>30 μA to 330 μA 20 Hz to 45 Hz 45 Hz to 1 kHz</p> <p>330 μA to 3.3 mA 20 Hz to 45 Hz 45 Hz to 1 kHz</p> <p>3.3 mA to 33 mA 20 Hz to 45 Hz 45 Hz to 1 kHz</p> <p>33 mA to 330 mA 20 Hz to 45 Hz 45 Hz to 1 kHz</p> <p>330 mA to 1.1 A 20 Hz to 45 Hz 45 Hz to 1 kHz</p> <p>1.1 A to 3 A 20 Hz to 45 Hz 45 Hz to 1 kHz</p> <p>3 A to 11 A 20 Hz to 45 Hz 45 Hz to 1 kHz</p> <p>11 A to 20.5 A 20 Hz to 45 Hz 45 Hz to 1 kHz</p> | <p>0.13 % + 67 nA 0.098 % + 67 nA</p> <p>0.085 % + 100 nA 0.068 % + 100 nA</p> <p>0.062 % + 1.3 μA 0.029 % + 1.3 μA</p> <p>0.062 % + 13 μA 0.029 % + 13 μA</p> <p>0.12 % + 67 μA 0.036 % + 67 μA</p> <p>0.12 % + 67 μA 0.034 % + 67 μA</p> <p>0.050 % + 1.3 mA 0.074 % + 1.3 mA</p> <p>0.086 % + 3.4 mA 0.11 % + 3.4 mA</p> | <p>These values can be generated for the calibration of measuring instruments</p> |
|-------------------------------------|---|---|---|



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|---|--|--|---|
| AC CURRENT (continued) | | | |
| Measurement | 2 μ A to 200 μ A 50 Hz to 1 kHz | 280 μ A/A + 23 nA | Outputs of instruments can be measured |
| | 200 μ A to 2 mA 50 Hz to 1 kHz | 280 μ A/A + 230 nA | |
| | 2 mA to 20 mA 50 Hz to 1 kHz | 250 μ A/A + 2.3 μ A | |
| | 20 mA to 200 mA 50 Hz to 1 kHz | 280 μ A/A + 23 μ A | |
| | 200 mA to 2 A 50 Hz to 1 kHz | 650 μ A/A + 0.46 mA | |
| FREQUENCY | | | |
| Generation | 0.01 Hz to 2 MHz | 1.7 μ Hz/Hz + 1.7 μ Hz | The ranges extend from 10 Hz to 1 MHz in decade steps |
| Measurement | 10 Hz to 1 MHz | 10 μ Hz/Hz + 2.0 μ Hz/Hz of range | |
| EQUIPMENT FOR IEE 16 TH /17 TH EDITION WIRING TESTING | | | |
| LOOP TESTERS | | | |
| AC Resistance (50 Hz) | 0.5 Ω to 1 Ω 5 Ω 10 Ω 100 Ω 1 k Ω | 22 m Ω 36 m Ω 62 m Ω 0.58 Ω 5.8 Ω | |
| CONTINUITY TESTERS | | | |
| DC Resistance | 0.1 Ω to 20 Ω 100 Ω 1 k Ω 10 k Ω to 100 k Ω | 0.29 % + 20 m Ω 0.29 Ω 2.9 Ω 0.12 % + 12 Ω | |
| INSULATION TESTERS | | | |
| DC Voltage | 50 V to 1000 V | 1.2 % + 0.92 V | |



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|--|---------------------------------|---|----------------------|--|
| INSULATION TESTERS (continued) | | | | |
| DC Resistance | 10 k Ω to 100 k Ω | 0.12 % + 12 Ω | | |
| | 100 k Ω to 1 M Ω | 0.12 % + 25 Ω | | |
| | 1 M Ω to 5 M Ω | 0.12 % + 410 Ω | | |
| | 5 M Ω to 10 M Ω | 1.2 % + 830 Ω | | |
| | 10 M Ω to 100 M Ω | 1.2 % + 64 k Ω | | |
| | 100 M Ω to 1 G Ω | 1.2 % + 6.0 M Ω | | |
| RCD TESTERS | | | | |
| AC Current (50 Hz) | 20 ms to 200 ms | | | |
| | 5 mA to 200 mA | 5.8 % + 0.24 mA | | |
| | 200 mA to 2 A | 5.8 % + 2.4 mA | | |
| | 200 ms to 5 s | | | |
| Trip time | 5 mA to 200 mA | 1.4 % + 92 μ A | | |
| | 200 mA to 2 A | 1.4 % + 0.83 mA | | |
| Trip time | 0 ms to 390 ms | 0.95 ms | | |
| | 390 ms to 900 ms | 8.1 ms | | |
| PORTABLE APPLIANCE TESTERS | | | | |
| Earth Bond Resistance | 0.05 Ω | 4.7 m Ω | | |
| | 0.11 Ω | 4.8 m Ω | | |
| | 0.16 Ω | 4.8 m Ω | | |
| | 0.28 Ω | 5.0 m Ω | | |
| | 0.4 Ω | 5.3 m Ω | | |
| | 0.57 Ω | 5.8 m Ω | | |
| | 1 Ω | 7.5 m Ω | | |
| | 5 Ω | 29 m Ω | | |
| | 10 Ω | 58 m Ω | | |
| | 100 Ω | 580 m Ω | | |
| | 1000 Ω | 5.8 Ω | | |
| | Insulation Resistance | 0 Ω to 100 k Ω | 0.12 % + 12 Ω | |
| | | 100 k Ω to 1 M Ω | 0.12 % + 25 Ω | |
| 1 M Ω to 5 M Ω | | 0.12 % + 410 Ω | | |
| 5 M Ω to 10 M Ω | | 1.2 % + 830 Ω | | |
| 10 M Ω to 100 M Ω | | 1.2 % + 64 k Ω | | |
| 100 M Ω to 1 G Ω | | 1.2 % + 6.0 M Ω | | |
| Insulation Test Voltage | 50 V to 1000 V | 1.2 % + 0.92 V | | |
| Leakage / Flash / Earth Current | At 50 Hz: | | | |
| | 200 μ A to 2 mA | 330 μ A/A + 230 nA | | |
| | 2 mA to 20 mA | 290 μ A/A + 2.3 μ A | | |
| | 20 mA to 200 mA | 290 μ A/A + 23 μ A | | |
| | 200 mA to 2 A | 640 μ A/A + 0.46 mA | | |
| | 2 A to 20 A | 1.7 % + 73 mA | | |



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|---|---|---|---|
| TEMPERATURE INDICATORS Calibration by electrical simulation Base metal thermocouple | -250 °C to -200 °C -200 °C to -100 °C -100 °C to +100 °C 100 °C to 600 °C 600 °C to 1372 °C | 0.60 °C 0.16 °C 0.090 °C 0.080 °C 0.090 °C |] Including cold junction compensation |
| TEMPERATURE SIMULATORS Calibration by electrical simulation Base metal thermocouples | -250 °C to -200 °C -200 °C to -100 °C -100 °C to +100 °C 100 °C to 600 °C 600 °C to 1372 °C | 0.18 °C 0.070 °C 0.060 °C 0.050 °C 0.060 °C | |
| END | | | |



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Appendix - Calibration and Measurement Capabilities

Introduction

The definitive statement of the accreditation status of a calibration laboratory is the Accreditation Certificate and the associated Schedule of Accreditation. This Schedule of Accreditation is a critical document, as it defines the measurement capabilities, ranges and boundaries of the calibration activities for which the organisation holds accreditation.

Calibration and Measurement Capabilities (CMCs)

The capabilities provided by accredited calibration laboratories are described by the Calibration and Measurement Capability (CMC), which expresses the lowest measurement uncertainty that can be achieved during a calibration. If a particular device under calibration itself contributes significantly to the uncertainty (for example, if it has limited resolution or exhibits significant non-repeatability) then the uncertainty quoted on a calibration certificate will be increased to account for such factors.

The CMC is normally used to describe the uncertainty that appears in an accredited calibration laboratory's schedule of accreditation and is the uncertainty for which the laboratory has been accredited using the procedure that was the subject of assessment. The measurement uncertainty is calculated according to the procedures given in the GUM and is normally stated as an expanded uncertainty at a coverage probability of 95 %, which usually requires the use of a coverage factor of $k = 2$. An accredited laboratory is not permitted to quote an uncertainty that is smaller than the published measurement uncertainty in certificates issued under its accreditation.

Expression of CMCs - symbols and units

It should be noted that the percentage symbol (%) represents the number 0.01. In cases where the measurement uncertainty is stated as a percentage, this is to be interpreted as meaning percentage of the measurand. Thus, for example, a measurement uncertainty of 1.5 % means $1.5 \times 0.01 \times q$, where q is the quantity value.

The notation $Q[a, b]$ stands for the root-sum-square of the terms between brackets: $Q[a, b] = [a^2 + b^2]^{1/2}$