## **Schedule of Accreditation**

issued by

## **United Kingdom Accreditation Service**

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



0149

Accredited to ISO/IEC 17025:2017

WN2 4AU

#### **TER Calibration Ltd**

Issue No: 038 Issue date: 12 November 2024

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#### Calibration performed at the above address only

Calibration and Measurement Capability (CMC)

| Measured Quantity<br>Instrument or Gauge  | Range  | Expanded Measurement Uncertainty (k = 2)   | Remarks |  |
|---|--|--|---------|--|
| Values and uncertainties listed below are applicable for the calibration of both measurement instruments and for instruments with an output.  the method used is by direct comparison unless otherwise stated in the remarks column |  |  |         |  |
| ELECTRICAL<br>MEASUREMENTS  |  |  |         |  |
| DC RESISTANCE<br>Specific values (sourcing)   | 1 mΩ<br>10 mΩ<br>100 mΩ<br>1 Ω<br>10 Ω<br>100 Ω<br>1 kΩ<br>10 kΩ<br>100 kΩ<br>1 MΩ<br>10 MΩ<br>100 MΩ<br>1 GΩ<br>10 GΩ | 35 $\mu\Omega/\Omega$<br>12 $\mu\Omega/\Omega$<br>8.0 $\mu\Omega/\Omega$<br>2.0 $\mu\Omega/\Omega$<br>2.5 $\mu\Omega/\Omega$<br>3.0 $\mu\Omega/\Omega$<br>2.0 $\mu\Omega/\Omega$<br>1.5 $\mu\Omega/\Omega$<br>3.0 $\mu\Omega/\Omega$<br>20 $\mu\Omega/\Omega$<br>20 $\mu\Omega/\Omega$<br>20 $\mu\Omega/\Omega$<br>20 $\mu\Omega/\Omega$<br>20 $\mu\Omega/\Omega$<br>20 $\mu\Omega/\Omega$ |         |  |
| Specific values (measurement)   | 1 mΩ<br>10 mΩ<br>100 mΩ<br>1 Ω<br>10 Ω<br>100 Ω<br>1 kΩ<br>10 kΩ<br>100 kΩ<br>1 MΩ<br>10 MΩ<br>100 MΩ<br>1 GΩ<br>10 GΩ | 40 μΩ/Ω 20 μΩ/Ω 20 μΩ/Ω 4.0 μΩ/Ω 5.0 μΩ/Ω 3.0 μΩ/Ω 2.0 μΩ/Ω 2.0 μΩ/Ω 5.0 μΩ/Ω 5.0 μΩ/Ω 5.0 μΩ/Ω 0.14 μΩ/Ω 0.14 %   |         |  |

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| Measured Quantity<br>Instrument or Gauge     | Range   | Expanded Measurement Uncertainty (k = 2)  | Remarks |
|--|---|---|---------|
| DC RESISTANCE (continued)                    |   |   |         |
| Other values (measurement)                   | $\begin{array}{c} 0 \; \mu\Omega \; \text{to} \; 200 \; \mu\Omega \\ 200 \; \mu\Omega \; \text{to} \; 2 \; \text{m}\Omega \\ 200 \; \mu\Omega \; \text{to} \; 20 \; \text{m}\Omega \\ 2 \; \text{m}\Omega \; \text{to} \; 200 \; \text{m}\Omega \\ 20 \; \text{m}\Omega \; \text{to} \; 200 \; \text{m}\Omega \\ 200 \; \text{m}\Omega \; \text{to} \; 200 \; \Omega \\ 200 \; \Omega \; \text{to} \; 200 \; \Omega \\ 200 \; \Omega \; \text{to} \; 2 \; \text{k}\Omega \\ 2 \; \text{k}\Omega \; \text{to} \; 20 \; \text{K}\Omega \\ 20 \; \text{K}\Omega \; \; \text{to} \; 200 \; \text{k}\Omega \\ 200 \; \text{k}\Omega \; \text{to} \; 200 \; \text{k}\Omega \\ 200 \; \text{k}\Omega \; \text{to} \; 200 \; \text{M}\Omega \\ 20 \; \text{M}\Omega \; \text{to} \; 200 \; \text{M}\Omega \\ 200 \; \text{M}\Omega \; \text{to} \; 200 \; \text{M}\Omega \\ 200 \; \text{M}\Omega \; \text{to} \; 2 \; \text{G}\Omega \\ 2 \; \text{G}\Omega \; \text{to} \; 20 \; \text{G}\Omega \\ \end{array}$ | 40 nΩ 200 μΩ/Ω 180 μΩ/Ω 180 μΩ/Ω 180 μΩ/Ω 25 μΩ/Ω 25 μΩ/Ω 20 μΩ/Ω 3.5 μΩ/Ω 4.0 μΩ/Ω 6.0 μΩ/Ω 0.60 % |         |
| DC VOLTAGE                                   |   |   |         |
| Specific values                              | 100 mV<br>200 mV<br>1 V<br>2 V<br>10 V<br>20 V<br>100 V<br>200 V<br>1 kV  | 6.0 μV/V<br>6.0 μV/V<br>3.0 μV/V<br>4.0 μV/V<br>4.0 μV/V<br>4.0 μV/V<br>5.0 μV/V<br>6.0 μV/V  |         |
| Other values                                 | 0 mV to 20 mV<br>20 mV to 200 mV<br>200 mV to 2 V<br>2 V to 20 V<br>20 V to 200 V<br>200 V to 1 kV<br>1 kV to 30 kV<br>30 kV to 90 kV   | 0.60 μV<br>8.5 μV/V<br>5.0 μV/V<br>7.0 μV/V<br>7.0 μV/V<br>0.12 %<br>0.15 %   |         |
| DC VOLTAGE RATIO<br>100 mV to 10 V reference | 0.1 to unity  | 0.5 μV/V  |         |
| DC Voltage linearity                         | 0 V to 10 mV<br>0 V to 100 mV   | 0.40 μV<br>0.60 μV  |         |

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| Measured Quantity<br>Instrument or Gauge                 | Range   | Expanded Measurement Uncertainty (k = 2)  | Remarks |
|--|---|---|---------|
| DC CURRENT   | 0 μA to 1 μA<br>1 μA to 10 μA<br>10 μA to 100 μA<br>100 μA to 1 mA<br>1 mA and 10 mA<br>1 mA to 10 mA<br>10 mA to 100 mA<br>100 mA to 1 A<br>1 A to 10 A<br>10 A to 150 A | 100 μΑ/A + 80 pA<br>120 μΑ/A<br>35 μΑ/A<br>30 μΑ/A<br>20 μΑ/A<br>30 μΑ/A<br>30 μΑ/A<br>30 μΑ/A<br>60 μΑ/A<br>500 μΑ/A                           |         |
| DC Current linearity                                     | 0 A to 1 μA<br>0 A to 10 μA   | 7.5 pA<br>12 pA   |         |
| DC POWER   | 1 W to 20 kW  | The arithmetic sum of the individual uncertainties of the corresponding voltages and current measurements                                       |         |
| AC VOLTAGE<br>Specific values at specific<br>frequencies | 10 mV at 1 kHz  | 100 μV/V  |         |
|  | 100 mV 20 Hz, 55 Hz 305 Hz, 1 kHz, 10 kHz 30 kHz 60 kHz 100 kHz  1 V 100 Hz 20 Hz, 55 Hz, 305 Hz 1 kHz 3 kHz, 10 kHz 30 kHz 60 kHz 100 kHz 100 kHz                        | 100 μV/V<br>90 μV/V<br>100 μV/V<br>180 μV/V<br>190 μV/V<br>55 μV/V<br>50 μV/V<br>40 μV/V<br>60 μV/V<br>65 μV/V<br>160 μV/V<br>0.135 %<br>0.30 % |         |
|  | 10 V<br>20 Hz, 55 Hz, 100 Hz, 305 Hz,<br>1kHz<br>3 kHz, 10 kHz<br>30 kHz<br>60 kHz<br>100 kHz<br>500 kHz<br>1 MHz   | 50 μV/V<br>60 μV/V<br>80 μV/V<br>180 μV/V<br>190 μV/V<br>0.135 %<br>0.30 %  |         |

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| Managered Quantity                    |                                     | Expanded Measurement |         |
|---------------------------------------|-------------------------------------|----------------------|---------|
| Measured Quantity Instrument or Gauge | Range                               | Uncertainty          | Remarks |
| matrument of Gauge                    |                                     | (k = 2)              |         |
| AC VOLTAGE (continued)                | 100 V                               |                      |         |
| Specific values at specific           | 20 Hz, 55 Hz, 305 Hz                | 60 μV/V              |         |
| Frequencies (continued)               | 100 Hz, 1 kHz                       | 55 μV/V              |         |
|                                       | 3 kHz, 10 kHz                       | 60 μV/V              |         |
|                                       | 30 kHz                              | 80 μV/V              |         |
|                                       | 60 kHz                              | 180 μV/V             |         |
|                                       | 100 kHz                             | 200 μV/V             |         |
|                                       | 500 V                               |                      |         |
|                                       | 55 Hz                               | 80 μV/V              |         |
|                                       | 100 Hz                              | 90 μV/V              |         |
|                                       | 305 Hz                              | 80 μV/V              |         |
|                                       | 1 kHz                               | 70 μV/V              |         |
|                                       | 3 kHz, 10 kHz                       | 80 μV/V              |         |
|                                       | 30 kHz                              | 150 μV/V             |         |
|                                       | 1 kV                                |                      |         |
|                                       | 55 Hz                               | 80 μV/V              |         |
|                                       | 305 Hz, 1 kHz, 3 kHz, 10 kHz        | 80 μV/V              |         |
|                                       | 30 kHz                              | 200 μV/V             |         |
| Chapitia values at ather              | 1 V                                 |                      |         |
| Specific values at other frequencies  | 20 Hz to 30 kHz                     | 70 μV/V              |         |
| Trequericies                          | 30 kHz to 100 kHz                   | 76 μV/V<br>160 μV/V  |         |
|                                       | 100 kHz to 1MHz                     | 0.30 %               |         |
|                                       | 40.1/                               |                      |         |
|                                       | 10 V<br>20 Hz to 30 kHz             | 00 1/0/              |         |
|                                       | 30 kHz to 100 kHz                   | 90 μV/V<br>180 μV/V  |         |
|                                       | 100 kHz to 1MHz                     | 0.30 %               |         |
|                                       | 400.1/                              |                      |         |
|                                       | 100 V<br>20 Hz to 30 kHz            | 95\//\/              |         |
|                                       | 30 kHz to 100 kHz                   | 85 μV/V              |         |
|                                       | 30 KH2 10 100 KH2                   | 150 μV/V             |         |
|                                       | 1 kV                                | 100 1/0/             |         |
|                                       | 55 Hz to 10 kHz<br>10 kHz to 30 kHz | 100 μV/V             |         |
|                                       | IU KITZ IU SU KITZ                  | 200 μV/V             |         |
| Other values                          | 50 Hz to 2 kHz                      |                      |         |
|                                       | 100 μV to 1 mV                      | 0.75 %               |         |
|                                       | 1 mV to 10 mV                       | 750 μV/V             |         |
|                                       | 10 mV to 100 mV                     | 100 μV/V             |         |
|                                       | 100 mV to 200 mV                    |                      |         |
|                                       | 40 Hz to 10 kHz                     | 150 μV/V             |         |
|                                       | 10 kHz to 30 kHz                    | 360 μV/V             |         |
|                                       | 30 kHz to 100 kHz                   | 850 μV/V             |         |
|                                       | 200 mV to 1 V                       |                      |         |
|                                       | 40 Hz to 10 kHz                     | 160 μV/V             |         |
|                                       | 10 kHz to 30 kHz                    | 250 μV/V             |         |
|                                       | 30 kHz to 100 kHz                   | 0.13 %               |         |
|                                       |                                     |                      |         |
|                                       |                                     |                      |         |
|                                       |                                     |                      |         |

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|                                 |                                     | Expanded Measurement |                               |
|---------------------------------|-------------------------------------|----------------------|-------------------------------|
| Measured Quantity               | Range                               | Uncertainty          | Remarks                       |
| Instrument or Gauge             | rango                               | (k=2)                | Komano                        |
|                                 |                                     | (K = 2)              |                               |
| AC VOLTAGE (continued)          |                                     |                      |                               |
| Other values (continued)        | 1 V to 2 V                          |                      |                               |
|                                 | 40 Hz to 10 kHz                     | 120 μV/V             |                               |
|                                 | 10 kHz to 30 kHz                    | 250 μV/V             |                               |
|                                 | 30 kHz to 100 kHz                   | 650 μV/V             |                               |
|                                 |                                     |                      |                               |
|                                 | 2 V to 10 V                         | 400 1/0/             |                               |
|                                 | 40 Hz to 10 kHz<br>10 kHz to 30 kHz | 160 μV/V             |                               |
|                                 | 30 kHz to 100 kHz                   | 350 μV/V<br>0.13 %   |                               |
|                                 | 00 N 12 to 100 N 12                 | 0.13 %               |                               |
|                                 | 10 V to 20 V                        |                      |                               |
|                                 | 40 Hz to 10 kHz                     | 160 μV/V             |                               |
|                                 | 10 kHz to 30 kHz                    | 300 μV/V             |                               |
|                                 | 30 kHz to 100 kHz                   | 300 μV/V             |                               |
|                                 |                                     | ·                    |                               |
|                                 | 20 V to 200 V                       |                      |                               |
|                                 | 40 Hz to 10 kHz                     | 150 μV/V             |                               |
|                                 | 10 kHz to 30 kHz                    | 150 μV/V             |                               |
|                                 | 30 kHz to 100 kHz                   | 150 μV/V             |                               |
|                                 | 000 1/4 4000 1/4                    |                      |                               |
|                                 | 200 V to 1000 V                     | 200 1/0/             |                               |
|                                 | 40 Hz to 10 kHz<br>10 kHz to 30 kHz | 200 μV/V             |                               |
|                                 | 10 KHZ 10 30 KHZ                    | 700 μV/V             |                               |
|                                 | 1 kV to 40 kV                       |                      |                               |
|                                 | 50 Hz                               | 1.0 %                |                               |
|                                 | 00712                               | 1.0 /0               |                               |
| Waveform analysis               | 3 μV to 300 V                       |                      | * 15 ranges of 30 μV to 300 V |
|                                 | 20 Hz to 76 kHz                     | 5.0 % of FSD*        | FSD in 1-3-10 sequence        |
|                                 |                                     |                      |                               |
| AC CURRENT                      |                                     |                      |                               |
| Specific values and frequencies | 100 μΑ                              |                      |                               |
| opeoine values and frequencies  | 55 Hz, 305 Hz                       | 150 μΑ/Α             |                               |
|                                 | 1 kHz                               | 150 μΑ/Α             |                               |
|                                 | 5 kHz                               | 200 μΑ/Α             |                               |
|                                 |                                     |                      |                               |
|                                 | 1 mA                                |                      |                               |
|                                 | 55 Hz, 305 Hz                       | 150 μΑ/Α             |                               |
|                                 | 1 kHz                               | 150 μΑ/Α             |                               |
|                                 | 5 kHz                               | 150 μA/A             |                               |
|                                 | 10 kHz                              | 160 μΑ/Α             |                               |
|                                 | 404                                 |                      |                               |
|                                 | 10 mA                               | 450 A/A              |                               |
|                                 | 55 Hz, 305 Hz                       | 150 μΑ/Α             |                               |
|                                 | 1 kHz, 5 kHz, 10 kHz                | 150 μΑ/Α             |                               |
|                                 | 100 mA                              |                      |                               |
|                                 | 55 Hz, 305 Hz                       | 150 μA/A             |                               |
|                                 | 1 kHz, 5 kHz, 10 kHz                | 150 μΑ/Α             |                               |
|                                 |                                     |                      |                               |
|                                 | 1 A                                 |                      |                               |
|                                 | 55 Hz, 305 Hz, 1 kHz, 5 kHz         | 150 μΑ/Α             |                               |
|                                 | 10 kHz                              | 260 μΑ/Α             |                               |
|                                 |                                     |                      |                               |
|                                 |                                     |                      |                               |
|                                 | l .                                 |                      | l .                           |

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| Measured Quantity<br>Instrument or Gauge           | Range   | Expanded Measurement Uncertainty $(k = 2)$  | Remarks |
|--|---|---|---------|
| AC CURRENT (continued)<br>Other Values (continued) | 10 A<br>55 Hz, 305 Hz, 1 kHz<br>5 kHz, 10 kHz   | 170 μA/A<br>200 μA/A  |         |
| Other Values                                       | 20 μA to 100 μA<br>50 Hz to 5 kHz   | 0.12 %  |         |
|  | 100 μA to 200 μA<br>50 Hz to 5 kHz  | 400 μΑ/Α  |         |
|  | 200 μA to 1 mA<br>55 Hz to 5 kHz  | 0.12 %  |         |
|  | 1 mA to 2 mA<br>50 Hz to 10 kHz   | 400 μΑ/Α  |         |
|  | 2 mA to 10 mA<br>50 Hz to 10 kHz  | 0.12 %  |         |
|  | 10 mA to 20 mA<br>50 Hz to 10 kHz   | 400 μΑ/Α  |         |
|  | 20 mA to 100 mA<br>50 Hz to 10 kHz  | 0.12 %  |         |
|  | 100 mA to 200 mA<br>40 Ha to 10 kHz   | 400 μΑ/Α  |         |
|  | 200 mA to 1 A<br>1 kHz to 10 kHz  | 0.15 %  |         |
|  | 1 A to 2 A<br>55 Hz, 305 Hz, 1 kHz  | 750 μA/A  |         |
|  | 2 A to 10 A<br>50 Hz to 1 kHz<br>1 kHz to 10 kHz  | 0.15 %<br>0.32 %  |         |
|  | 10 A to 20 A<br>50 Hz to 1 kHz<br>1 kHz to 10 kHz   | 0.10 %<br>0.30 %  |         |
|  | 10 A to 150 A<br>50 Hz to 60 Hz   | 0.10 %  |         |
| AC RESISTANCE                                      | At 40 Hz to 60 Hz 10 mΩ to 100 mΩ 100 mΩ 101Ω 1Ω 1Ω to 100 kΩ 1000 kΩ 1000 kΩ 1000 kΩ to 1000 kΩ to 1000 kΩ to 1000 kΩ $\Omega$ | 300 $\mu\Omega/\Omega$<br>300 $\mu\Omega/\Omega$<br>75 $\mu\Omega/\Omega$<br>0.10 % |         |
|  |   |   |         |

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| Measured Quantity<br>Instrument or Gauge | Range   | Expanded Measurement Uncertainty (k = 2)  | Remarks  |
|--|---|---|--|
| FREQUENCY                                |   |   |  |
| Generation                               |   |   |  |
| Specific values                          | 100 kHz, 1 MHz, 5 MHz and<br>10 MHz   | 2.0 in 10 <sup>10</sup>   | Sine wave generation   |
|  | 0.02 Hz to 10 MHz in 2-5-10 sequence  | 2.0 in 10 <sup>10</sup>   | Square wave generation   |
| Range values                             | 1 Hz to 100 kHz<br>100 kHz to 10 MHz  | 2.0 in 10 <sup>10</sup><br>5.0 in 10 <sup>11</sup>  | Sine wave generation   |
|  | 1 Hz to 10 kHz<br>10 kHz to 100 kHz<br>100 kHz to 100 MHz<br>100 MHz to 1 GHz   | 1.2 in 10 <sup>8</sup> 1.2 in 10 <sup>9</sup> 1.2 in 10 <sup>9</sup> 1.2 in 10 <sup>10</sup>                | Measurement of sources These values may also be reported as the reciprocal; seconds, for repetative signals. |
| TIME INTERVAL                            | 0 s to 500s<br>0 s to 500s  | 1.0 us<br>50 ms   | Electronically triggered devices<br>Mechanically triggered devices   |
| Pulse period                             | 1 μs to 1 s   | 5.0 ns  |  |
| Rise time                                | 1 ns to 1 ms  | 3.0 ns  | Into 50 Ω  |
| RCD testers                              |   |   |  |
| Trip time                                | 10 ms to 5 s  | 0.25 ms   |  |
| Trip Current                             | 3 mA to 3 A   | 1.0 %   |  |
| Earth Loop                               | 8 mΩ to 330 mΩ<br>330 mΩ to 500 mΩ<br>500 mΩ 10 1.8 Ω<br>1.8 Ω to 5 Ω<br>5 Ω to 10 Ω<br>10 Ω to 18 Ω<br>18 Ω 50 Ω<br>50 Ω to 100 Ω<br>100 Ω to 180 Ω<br>180 Ω to 500 Ω<br>500 Ω to 1 kΩ<br>1 kΩ to 1.8 kΩ | 8.0 mΩ<br>10 mΩ<br>12 mΩ<br>36 mΩ<br>70 mΩ<br>120 mΩ<br>350 mΩ<br>600 mΩ<br>1.2 Ω<br>3.0 Ω<br>6.0 Ω<br>12 Ω |  |

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|---|--|---|-------------------------|--|--|
| Measured Quantity<br>Instrument or Gauge  | Range  | Expanded Measurement Uncertainty (k = 2)                                  | Remarks                 |  |  |
| Temperature indicators, calibration by electrical simulation  ELECTRICAL SIMULATION OF TEMPERATURE  Thermocouple capabilities listed below are given for type K Base and Type S Noble, using EMF sensitivity values as listed in BS EN 60584- 1:2013. Other Thermocouple types can be calibrated, the uncertainties will correspond to the appropriate sensitivities listed. Calibrations which include the internal reference junction (CJC) are available for types: J, K, N, T, E, R, S, B & C |  |   |                         |  |  |
| Base Metal Thermocouples  | -200 °C to -100 °C<br>-100 °C to -50 °C<br>-50 °C to 0 °C<br>0 °C to 100 °C<br>100 °C to 700 °C<br>700 °C to 900 °C<br>900 °C to 1370 °C | 0.20 °C<br>0.15 °C<br>0.14 °C<br>0.14 °C<br>0.19 °C<br>0.18 °C<br>0.21 °C | Excluding automatic CJC |  |  |
| Noble Metal Thermocouples  Base Metal Thermocouples   | 0 °C to 1500 °C  | 0.35 °C   | Including automatic CJC |  |  |
| Dasc Metal Themlocouples  |  |   | moraumy automatic CoC   |  |  |

120 °C to 1000 °C 1000 °C to 1372 °C 0.43 °C 0 °C to 1500 °C 0.50 °C 0.10 °C 0 °C to 30 °C - 200 °C to + 800 °C 0.020 °C

-200 °C to -100 °C

-100 °C to 120 °C

0.40 °C

0.24 °C

0.31 °C

Noble Metal Thermocouples **Cold Junction Compensation** Resistance thermometer (Pt 100) Supporting temperature measurements for electrical At Nominal 0 °C 0.050 °C Nominal ambient between 17 °C simulation and cold junction 0.30 °C to 23 °C verification

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| Measured Quantity<br>Instrument or Gauge  | Range   | Expanded Measurement Uncertainty (k = 2) | Remarks  |
|---|---|--|--|
| PRESSURE  |   |  |  |
| Hydraulic pressure (gauge)  Calibration of pressure indicating instruments and gauges | 600 kPa to 120 MPa<br>120 MPa to 280 MPa                      | 0.010 %<br>340 kPa                       | Methods consistent with EURAMET CG17  Calibration of pressure measuring devices with an electrical output may be undertaken.                 |
| Gas pressure (gauge)  Calibration of pressure indicating instruments and gauges       | -95 kPa to -70 kPa<br>-70 kPa to 40 kPa<br>40 kPa to 27.5 MPa | 23 Pa<br>12 Pa<br>0.0065 %               | Absolute pressure calibrations may be undertaken by associated barometric pressure measurement with an additional uncertainty of $\pm$ 20 Pa |
| Gas pressure (absolute)  Calibration of pressure indicating instruments and gauges    | 3.5 kPa to 131 kPa  | 20 Pa                                    |  |
| 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] =  $[a^2 + b^2]^{1/2}$ 

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