

# Schedule of Accreditation

issued by

## United Kingdom Accreditation Service

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



0811

Accredited to  
ISO/IEC 17025:2017

### UK Test Instruments Limited t/a Acutest, Test4Less and Socket and See

Issue No: 034 Issue date: 27 October 2025

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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			Unless stated calibrations are performed as a direct comparison against a reference standard
DC Resistance			
Generation	0 $\Omega$ to 33 $\Omega$ 33 $\Omega$ to 330 $\Omega$ 330 $\Omega$ to 3.3 k $\Omega$ 3.3 k $\Omega$ to 33 k $\Omega$ 33 k $\Omega$ to 330 k $\Omega$ 330 k $\Omega$ to 3.3 M $\Omega$ 3.3 M $\Omega$ to 33 M $\Omega$	12 m $\Omega$ 13 m $\Omega$ 78 m $\Omega$ 0.69 $\Omega$ 7.5 $\Omega$ 0.12 k $\Omega$ 2.6 k $\Omega$	Source values for the calibration of ohmmeters
Measurement	0 $\Omega$ to 10 $\Omega$ 10 $\Omega$ to 100 $\Omega$ 0.1 k $\Omega$ to 1 k $\Omega$ 1 k $\Omega$ to 10 k $\Omega$ 10 k $\Omega$ to 100 k $\Omega$ 0.1 M $\Omega$ to 1 M $\Omega$ 1 M $\Omega$ to 10 M $\Omega$	1.2 m $\Omega$ 4.9 m $\Omega$ 20 m $\Omega$ 0.19 $\Omega$ 11 $\Omega$ 51 $\Omega$ 3.5 k $\Omega$	For the calibration of resistance sources Four wire connections used up to 10 k $\Omega$ , 2 wire above.
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 1020 V	4.6 $\mu$ V 20 $\mu$ V 0.25 mV 2.6 mV 10 mV	Source values for the calibration of voltmeters
Measurement	0 mV to 100 mV 0.1 V to 1 V 1 V to 10 V 10 V to 100 V 100 V to 1000 V	5.3 $\mu$ V 6.8 $\mu$ V 0.12 mV 0.76 mV 9.3 mV	For the calibration of voltage sources



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Measured Quantity Instrument or Gauge	Range	Expanded Measurement Uncertainty ( $k = 2$ )	Remarks
ELECTRICAL (continued)			
Unless stated calibrations are performed as a direct comparison against a reference standard			
DC Current			
Generation	0 $\mu$ A to 3.3 mA 3.3 mA to 33 mA 33 mA to 330 mA 330 mA to 2.2 A 2.2 A to 11 A	89 nA 0.81 $\mu$ A 8.2 $\mu$ A 0.21 mA 1.8 mA	Source values for the calibration of ammeters
Measurement	0 $\mu$ A to 100 $\mu$ A 0.1 mA to 1 mA 1 mA to 10 mA 10 mA to 100 mA 0.1 A to 1 A 1 A to 10 A	15 nA 0.12 $\mu$ A 2.4 $\mu$ A 21 $\mu$ A 0.15 mA 4.1 mA	For the calibration of current sources
AC Voltage			
Generation	45 Hz to 1 kHz 1.0 mV to 33 mV 33 mV to 330 mV 0.33 V to 3.3 V 3.3 V to 33 V 33 V to 330 V 330 V to 1020 V	16 $\mu$ V 29 $\mu$ V 0.25 mV 3.1 mV 37 mV 0.20 V	Source values for the calibration of voltmeters
Measurement	10 Hz to 20 kHz 10 mV to 100 mV 0.1 V to 1 V 1 V to 10 V At 45 Hz to 20 kHz 10 V to 100 V At 45 Hz to 10 kHz 100 V to 1000 V	48 $\mu$ V 0.38 mV 8.3 mV 74 mV 0.77 V	For the calibration of voltage sources
AC Current			
Generation	45 Hz to 1 kHz 29 $\mu$ A to 330 $\mu$ A 0.33 mA to 3.3 mA 3.3 mA to 33 mA 33 mA to 330 mA 0.33 A to 2.2 A 2.2 to 11 A	0.20 $\mu$ A 0.46 $\mu$ A 4.6 $\mu$ A 50 $\mu$ A 0.44 mA 5.3 mA	Source values for the calibration of ammeters
Measurement	At 1 kHz 10 $\mu$ A to 100 $\mu$ A 0.1 mA to 1 mA 1 mA to 10 mA 10 mA to 100 mA 0.1 A to 1 A 1 A to 10 A	21 nA 0.17 $\mu$ A 3.1 $\mu$ A 33 $\mu$ A 0.29 mA 4.8 mA	For the calibration of current sources



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Measured Quantity Instrument or Gauge	Range	Expanded Measurement Uncertainty ( $k = 2$ )	Remarks
ELECTRICAL (continued)			Unless stated calibrations are performed as a direct comparison against a reference standard
Frequency			For the calibration of timers & counters
Generation	100 Hz to 1.0 kHz 100 kHz	19 $\mu$ Hz/Hz + 3.8 mHz 2.0 Hz	At 3.0 V
Electrical simulation and Measurement of thermocouples			With or without automatic cold junction compensation
E	-250 °C to -100 °C -100 °C to -25 °C -25 °C to 350 °C 350 °C to 650 °C 650 °C to 1000 °C	0.41 °C 0.19 °C 0.18 °C 0.19 °C 0.22 °C	
J	-210 °C to -100 °C -100 °C to -30 °C -30 °C to 150 °C 150 °C to 760 °C 760 °C to 1200 °C	0.26 °C 0.20 °C 0.19 °C 0.21 °C 0.24 °C	
K	-200 °C to -100 °C -100 °C to -25 °C -25 °C to 120 °C 120 °C to 1000 °C 1000 °C to 1372 °C	0.32 °C 0.24 °C 0.23 °C 0.28 °C 0.37 °C	
N	-200 °C to -100 °C -100 °C to -25 °C -25 °C to 410 °C 410 °C to 1300 °C	0.40 °C 0.30 °C 0.29 °C 0.33 °C	
T	-250 °C to -150 °C -150 °C to 0 °C 0 °C to 120 °C 120 °C to 400 °C	0.52 °C 0.26 °C 0.22 °C 0.21 °C	



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Measured Quantity Instrument or Gauge	Range	Expanded Measurement Uncertainty ( $k = 2$ )	Remarks
<p>PRESSURE</p> <p><u>Gas pressure</u> <u>Barometric (Absolute)</u></p> <p>Calibration of pressure indicating instruments and gauges</p> <p><u>Pneumatic (gauge)</u></p> <p>Calibration of pressure indicating instruments and gauges</p> <p><u>Hydraulic pressure (gauge)</u></p> <p>Calibration of pressure indicating instruments and gauges</p>	<p>80 kPa to 115 kPa</p> <p>0 to -95 kPa 0 Pa to 20 kPa 20 kPa to 100 kPa 100 kPa to 3.5 MPa 3.5 MPa to 7 MPa 7 MPa to 20 MPa 20 MPa to 70 MPa</p> <p>0 Pa to 7 MPa 7 MPa to 20 MPa 20 MPa to 70 MPa</p>	<p>24 Pa</p> <p>53 Pa 11 Pa 49 Pa 0.013 % + 9.1 Pa 2.1 kPa 7.3 kPa 16 kPa</p> <p>2.4 kPa 7.4 kPa 16 kPa</p>	<p>Methods consistent with EURAMET CG17.</p> <p>Calibration of pressure devices with an electrical output can be undertaken</p> <p>Absolute pressure calibrations can be undertaken using associated barometric pressure measurement correction. The uncertainties quoted will be increased by the barometric CMC.</p> <p>Pressures can only be measured, not generated, above 14 MPa g on gas.</p>
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:  $Q[a, b] = [a^2 + b^2]^{1/2}$