### **Schedule of Accreditation**

issued by

### **United Kingdom Accreditation Service**

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



0221

ISO/IEC 17025:2017

Accredited to

#### **Druck Limited**

Issue No: 078 Issue date: 13 May 2025

Fir Tree Lane Contact: Mr S Berdej

Groby Tel: +44 (0)116-231 7100

Leicester Fax: +44 (0)116-231 7101

E-Mail: sensing.grobyukas@bakerhughes.com

Website: www.druck.com

Calibration performed by the Organisation at the locations specified below

#### Locations covered by the organisation and their relevant activities

#### **Laboratory locations:**

Location details		Activity	Location code
Address Fir Tree Lane Groby Leicester LE6 0FH	Contact: Mr S Berdej  Tel: +44 (0)116-231 7100  Fax: +44 (0)116-231 7101  Email: sensing.grobyukas@bakerhughes.com	Electrical Pressure Temperature Mass Humidity	UK

#### Site activities performed away from the locations listed above:

LE6 0FH

Location details	Activity	Location code
The customer's site or premises must be suitable for the nature of the particular calibrations undertaken and will be the subject of contract review arrangements between the laboratory and the customer	<u>Pressure</u>	Site

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#### CALIBRATION AND MEASUREMENT CAPABILITY (CMC)

Measured Quantity Instrument or Gauge	Range	Expanded Measurement Uncertainty (k = 2)	Remarks	Location Code
PRESSURE			Methods consistent with EURAMET CG3 and CG17	
Gas pressure (absolute)			6617	
Calibration of pressure measuring instruments and gauges and "Pressure equivalent" calibration of Dead Weight Testers (pressure balances supplied with an associated mass set) and Effective area calibration of Dead Weight Testers	0 kPa to 450 kPa 450 kPa kPa to 3.1 MPa 3.1 MPa to 21.1 MPa 21.1 MPa to 40.1 MPa	0.0020 % + 0.40 Pa 0.0020 % + 0.40 Pa 0.0030 % + 0.40 Pa 0.0039 % + 11 Pa	Calibration of pressure measuring devices with an electrical output may be undertaken.	UK and Site
Gas pressure (gauge)				
Calibration of pressure measuring instruments and gauges and "Pressure equivalent" calibration of Dead Weight Testers (pressure balances supplied with an associated mass set) and Effective area calibration of Dead Weight Testers	-100 kPa to -3.5 kPa -3.5 kPa to 0 kPa 0 Pa to 2.5 Pa 2.5 Pa to 350 Pa 350 Pa to 1 kPa 1 kPa to 2 kPa 2 kPa to 2.5 kPa 2.5 kPa to 350 kPa 350 kPa to 3 MPa 3 MPa to 21 MPa 21 MPa to 40 MPa	0.0043 % + 0.60 Pa 0.75 Pa 0.15 Pa 0.10 Pa 0.11 Pa 0.12 Pa 0.14 Pa 0.0020 % 0.0020 % 0.0030 % 0.0039 %		UK and Site
Hydraulic pressure (gauge)				
Calibration of pressure measuring instruments and gauges. "Pressure equivalent" calibration of Dead Weight Testers (Pressure balance with associated mass set). Effective area calibration of Dead Weight Testers.	0.5 MPa to 140 MPa 140 MPa to 500 MPa	0.0036 % + $(0.12p \times 10^{-6})$ /MPa 0.010 % + $(0.30p \times 10^{-6})$ /MPa p = measured pressure	Absolute pressure calibrations can be undertaken using gauge pressure generation and the associated barometric pressure with the additional uncertainty of 11 Pa	UK and Site

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Measured Quantity Instrument or Gauge	Range	Expanded Measurement Uncertainty (k = 2)	Remarks	Location Code
ELECTRICAL			Calibration by comparison with a reference standard	UK
DC Resistance measurement (At low current)			reference standard	
( A low dancing	$\begin{array}{c} 0~\Omega~to~2~\Omega\\ 2~\Omega~to~20~\Omega\\ 20~\Omega~to~200~\Omega\\ 200~\Omega~to~2~k\Omega \end{array}$	16 $\mu\Omega/\Omega$ + 35 $\mu\Omega$ 7.0 $\mu\Omega/\Omega$ + 30 $\mu\Omega$ 6.5 $\mu\Omega/\Omega$ + 250 $\mu\Omega$ 10.0 $\mu\Omega/\Omega$ + 2.0 $m\Omega$		
	2 kΩ to 20 kΩ 20 kΩ to 200 kΩ 200 kΩ to 2 MΩ 2 MΩ to 20 MΩ	10.0 $\mu\Omega/\Omega$ + 25 $m\Omega$ 5.0 $\mu\Omega/\Omega$ + 135 $m\Omega$ 13 $\mu\Omega/\Omega$ + 2.0 $\Omega$ 72 $\mu\Omega/\Omega$ + 120 $\Omega$		
	20 MΩ to 200 MΩ 200 MΩ to 2 GΩ	720 μΩ/Ω + 120 kΩ 720 μΩ/Ω + 1.2 ΜΩ		
DC Resistance measurement (At higher current)				
(At higher durient)	0 Ω to 2 Ω 2 Ω to 20 Ω 20 Ω to 200 Ω 200 Ω to 2 kΩ	16 $\mu\Omega/\Omega$ + 36 $\mu\Omega$ 7.0 $\mu\Omega/\Omega$ + 30 $\mu\Omega$ 7.0 $\mu\Omega/\Omega$ + 70 $\mu\Omega$ 3.4 $\mu\Omega/\Omega$ + 0.70 $m\Omega$		
	2 kΩ to 20 kΩ 20 kΩ to 200 kΩ 200 kΩ to 2 MΩ 2 MΩ to 20 MΩ	$3.5 \ \mu\Omega/\Omega + 5.0 \ m\Omega$ $4.3 \ \mu\Omega/\Omega + 75 \ m\Omega$ $9.5 \ \mu\Omega/\Omega + 1.5 \ \Omega$ $71 \ \mu\Omega/\Omega + 120 \ \Omega$		
	20 MΩ to 200 MΩ 200 MΩ to 2 GΩ	700 μ $\Omega$ / $\Omega$ + 12 k $\Omega$ 720 μ $\Omega$ / $\Omega$ + 1.2 M $\Omega$		
DC Resistance Generation Specific values				
	1 mΩ 10 mΩ 100 mΩ 1 Ω 1.9 Ω	0.15% 0.10 % 250 μΩ/Ω 42 μΩ/Ω 36 μΩ/Ω		
	10 Ω 19 Ω 25 Ω 50 Ω 100 Ω 190 Ω	$7.0 \; \mu\Omega/\Omega \\ 20 \; \mu\Omega/\Omega \\ 6.0 \; \mu\Omega/\Omega \\ 3.0 \; \mu\Omega/\Omega \\ 3.0 \; \mu\Omega/\Omega \\ 15 \; \mu\Omega/\Omega$		
	250 Ω 300 Ω 1 kΩ 1.9 kΩ 10 kΩ 19 kΩ	$6.0 \mu \Omega/\Omega$ $5.0 \mu \Omega/\Omega$ $3.0 \mu \Omega/\Omega$ $5.5 \mu \Omega/\Omega$ $3.0 \mu \Omega/\Omega$ $5.0 \mu \Omega/\Omega$		

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Measured Quantity Instrument or Gauge	Range	Expanded Measurement Uncertainty (k = 2)	Remarks	Location Code
ELECTRICAL (continued)			Calibration by comparison with a reference standard	UK
DC Resistance Generation Specific values (continued)				
	100 kΩ 190 kΩ 1 MΩ 1.9 MΩ 10 MΩ	6.0 μΩ/Ω 8.5 μΩ/Ω 8.5 μΩ/Ω 18 μΩ/Ω 12 μΩ/Ω		
	19 ΜΩ 100 ΜΩ 1 GΩ	35 μΩ/Ω 50 μΩ/Ω 250 μΩ/Ω		
	1 kΩ 100 kΩ 1 MΩ 10 MΩ 100 MΩ	0.25 % 0.25 % 0.25 % 0.25 % 0.25 %	With applied voltages of 50 V and 100 V	
	1 GΩ 10 GΩ	0.50 % 1.5 %		
	1.0 MΩ 10 MΩ 100 MΩ 1 GΩ 10 GΩ	0.30 % 0.30 % 0.30 % 0.40 % 1.20 %	With applied voltages of 250 V and 500 V	
	100 GΩ 1 TΩ	2.0 % 2.0 %	With an applied voltage of 500 V	
	100 MΩ 1.0 GΩ 10 GΩ 100 GΩ 1 TΩ	0.50 % 0.50 % 0.50 % 2.0 % 2.0 %	With an applied voltage of 1000 V	
	1.0 GΩ 10 GΩ 100 GΩ 1 TΩ	1.1 % 1.0 % 2.0 % 2.0 %	With an applied voltage of 5000 V	
Other values	$\begin{array}{c} 0.1 \; \Omega \; to \; 10 \; \Omega \\ 10 \; \Omega \; to \; 100 \; \Omega \\ 100 \; \Omega \; to \; 1 \; k\Omega \\ 1 \; k\Omega \; to \; 10 \; k\Omega \\ 10 \; k\Omega \; to \; 100 \; k\Omega \\ 100 \; k\Omega \; to \; 1 \; M\Omega \\ 1 \; M\Omega \; to \; 10 \; M\Omega \\ 10 \; M\Omega \; to \; 100 \; M\Omega \\ 100 \; M\Omega \; to \; 100 \; M\Omega \\ 100 \; M\Omega \; to \; 1 \; G\Omega \\ \end{array}$	1.0 m $\Omega$ 18 $\mu\Omega/\Omega$ 25 $\mu\Omega/\Omega$ 10 $\mu\Omega/\Omega$ 10 $\mu\Omega/\Omega$ 35 $\mu\Omega/\Omega$ 0.05 % 0.08 % 0.60 %		

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Measured Quantity Instrument or Gauge	Range	Expanded Measurement Uncertainty (k = 2)	Remarks	Location Code
ELECTRICAL (continued)			Calibration by comparison with a reference standard	UK
DC Voltage				
Voltage Reference Values	1.018 V 10 V	2.0 μV/V 1.0 μV/V		
Measurement	0 V to 200 mV 200 mV to 2 V 2 V to 20 V 20 V to 200 V 200 V to 1000 V	6.5 µV/V + 1.3 µV 6.5 µV/V + 1.4 µV 2.5 µV/V + 5.5 µV 4.0 µV/V + 59 µV 7.0 µV/V + 650 µV		
DC High Voltage Measurement	0 V to 5 kV 5 kV to 10 kV 10 kV to 15 kV 15 kV to 20 kV 20 kV to 25 kV 25 kV to 30 kV 30 kV to 35 kV 35 kV to 40 kV	1.4 % 0.75 % 0.50 % 0.95 % 0.96 % 0.95 % 0.75 %		
Generation	0 mV to 200 mV 0.2 V to 2 V 2 V to 11 V 11 V to 20 V 20 V to 200 V 200 V to 1100 V	10.0 µV/V + 0.50 µV 3.0 µV/V + 1.0 µV 1.5 µV/V + 3.0 µV 1.5 µV/V + 5.0 µV 2.5 µV/V + 60 µV 2.5 µV/V + 300 µV		
DC Current				
Measurement	0 A to 20 μA 20 μA to 200 μA 200 μA to 2 mA 2 mA to 20 mA 20 mA to 200 mA 200 mA to 2 A 2 A to 10 A 10 A to 20 A 20 A to 30 A	70.0 μA/A + 1.0 nA 10.0 μA/A + 1.0 nA 10.5 μA/A + 5.0 nA 9.5 μA/A + 50.0 nA 23.0 μA/A + 930 nA 67.0 μA/A + 19 μA 80.0 μA/A + 463 μA 230.0 μA/A + 6.0 μA 230.0 μA/A + 6.0 μA		
Generation	0 μA to 200 μA 200 μA to 2 mA 2 mA to 20 mA 20 mA to 200 mA 200 mA to 2 A 2 A to 10 A 10 A to 20 A 20 A to 60 A	5.0 μA/A + 0.7 nA 7.0 μA/A + 1.5 nA 8.0 μA/A + 20 nA 8.0 μA/A + 175 nA 12 μA/A + 2.0 μA 1.2 mA 10 mA 25 mA		

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Measured Quantity Instrument or Gauge	Range	Expanded Measurement Uncertainty (k = 2)	Remarks	Location Code
ELECTRICAL (continued)			Calibration by comparison with a reference standard	UK
AC Voltage				
Measurement				
	50 μV to 20 mV 10 Hz to 40 Hz 40 Hz to 105 Hz 105 Hz to 1 kHz 1 kHz to 2 kHz 2 kHz to 10 kHz 10 kHz to 30 kHz 30 kHz to 60 kHz 60 kHz to 100 kHz 100 kHz to 300 kHz	5.5 μV 5.5 μV 5.5 μV 5.0 μV 5.0 μV 7.5 μV 7.5 μV 12.0 μV		
	300 kHz to 1 MHz 1 MHz	50.0 μV 80.0 μV		
	20 mV to 200 mV 10 Hz to 55 Hz 55 Hz to 305 Hz 305 Hz to 1 kHz 1 kHz to 3 kHz 3 kHz to 10 kHz 10 kHz to 30 kHz 30 kHz to 60 kHz 60 kHz to 100 kHz 100 kHz to 300 kHz 300 kHz to 100 kHz	6.0 μV 6.0 μV 6.0 μV 6.5 μV 10.0 μV 15.0 μV 15.0 μV 50.0 μV		
	200 mV to 2 V 10 Hz to 55 Hz 55 Hz to 305 Hz 305 Hz to 1 kHz 1 kHz to 3 kHz 3 kHz to 10 kHz 10 kHz to 30 kHz 30 kHz to 60 kHz 60 kHz to 100 kHz 100 kHz to 500 kHz 500 kHz to 1 MHz	85.0 μV 60.0 μV 45.0 μV 40.0 μV 75.0 μV 130.0 μV 130.0 μV 0.6 mV		
	2 V to 20 V 10 Hz to 55 Hz 55 Hz to 305 Hz 305 Hz to 1 kHz 1 kHz to 3 kHz 3 kHz to 10 kHz 10 kHz to 30 kHz 30 kHz to 60 kHz 60 kHz to 100 kHz 100 kHz to 500 kHz 500 kHz to 1 MHz	420 μV 360 μV 320 μV 320 μV 330 μV 450 μV 1.3 mV 1.5 mV 5.0 mV		

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Measured Quantity Instrument or Gauge	Range	Expanded Measurement Uncertainty (k = 2)	Remarks	Location Code
ELECTRICAL (continued)			Calibration by comparison with a reference standard	UK
AC Voltage				
Measurement (continued)	20 V to 200 V			
	20 V to 200 V 10 Hz to 55 Hz 55 Hz to 305 Hz 305 Hz to 1 kHz 1 kHz to 3 kHz 3 kHz to 10 kHz 10 kHz to 30 kHz 30 kHz to 60 kHz 60 kHz to 100 kHz 100 kHz to 200 kHz At 200 kHz	6.0 mV 5.0 mV 5.0 mV 5.0 mV 8.0 mV 17 mV 25 mV 30 mV 90 mV		
	200 V to 1 kV 55 Hz to 305 Hz 305 Hz to 1 kHz 1 kHz to 3 kHz 3 kHz to 10 kHz 10 kHz tto 30 kHz At 30 kHz	60 mV 60 mV 65 mV 75 mV 130 mV 250 mV		

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Measured Quantity Instrument or Gauge	Range	Expanded Measurement Uncertainty (k = 2)	Remarks	Location Code
ELECTRICAL (continued)			Calibration by comparison with a reference standard	UK
High Voltage AC Measurement	At 50 Hz: 1 kV 5 kV 10 kV 15 kV 20 kV 25 kV	6.5 % 3.0 % 3.0 % 3.5 % 3.5 % 5.0 %	Uncertainties for intermediate values more than 10 % away from the nominal value listed will be the highest of the adjacent points.	
AC Voltage Generation	10 Hz to 40 Hz 0.1 mV to 2 mV 2 mV to 20 mV 20 mV to 100 mV 100 mV to 1 V 1 V to 10 V 10 V to 100 V	7.0 μV 11.0 μV 26 μV 100 μV 2.4 mV 24 mV		
	40 Hz to 500 Hz 0.1 mV to 2 mV 2 mV to 20 mV 20 mV to 100 mV 100 mV to 1 V 1 V to 10 V 10 V to 100 V	7.0 μV 10.0 μV 14 μV 50 μV 700 μV 7.0 mV		
	500 Hz to 1 kHz 0.1 mV to 2 mV 2 mV to 20 mV 20 mV to 100 mV 100 mV to 1 V 1 V to 10 V 10 V to 100 V	7.0 μV 9.0 μV 13 μV 25 μV 300 μV 4.0 mV		
	1 kHz to 10 kHz 0.1 mV to 2 mV 2 mV to 20 mV 20 mV to 100 mV 100 mV to 1 V 1 V to 10 V 10 V to 100 V	7.0 µV 10.0 µV 11 µV 21 µV 230 µV 3.5 mV		

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Measured Quantity Instrument or Gauge	Range	Expanded Measurement Uncertainty (k = 2)	Remarks	Location Code
ELECTRICAL (continued)			Calibration by comparison with a reference standard	UK
AC Voltage Generation (continued)				
,	10 kHz			
	2 mV	7.0 µV		
	20 mV 100 mV	9.0 μV 13 μV		
	1 V	21 µV		
	10 V	230 µV		
	100 V	3.5 mV		
	1000 V			
	55 Hz to 500 Hz	62 mV		
	500 Hz to 1 kHz 1 kHz	75 mV 75 mV		
AC Current Measurement				
710 Garrent Weasarement	30 nA to 10 μA			
	10 Hz to 55 Hz	8.0 nA		
	55 Hz to 305 Hz	8.0 nA		
	305 Hz to 1 kHz	8.0 nA		
	1 kHz to 3 kHz 3 kHz to 10 kHz	8.0 nA 8.0 nA		
	At 10 kHz	8.0 nA		
	10 μA to 200 μA			
	10 Hz to 55 Hz	20.0 nA		
	55 Hz to 305 Hz	20.0 nA		
	305 Hz to 1 kHz	20.0 nA		
	1 kHz to 3 kHz 3 kHz to 10 kHz	20.0 nA 20.0 nA		
	10 kHz to 20 kHz	40.0 nA		
	20 kHz to 30 kHz	60.0 nA		
	At 30 kHz	90.0 nA		
	200 μA to 2 mA			
	10 Hz to 55 Hz	150 nA 120 nA		
	55 Hz to 305 Hz 305 Hz to 1 kHz	120 nA 120 nA		
	1 kHz to 3 kHz	120 nA		
	3 kHz to 10 kHz	120 nA		
	10 kHz to 20 kHz	250 nA		
	20 kHz to 30 kHz	330 nA		
	At 30 kHz	390 nA		
	2 mA to 20 mA	1.5		
	10 Hz to 55 Hz 55 Hz to 305 Hz	1.5 μA 1.5 μA		
	305 Hz to 1 kHz	1.5 µA 1.5 µA		
	1 kHz to 3 kHz	1.5 µA		
	3 kHz to 10 kHz	1.5 µA		
	10 kHz to 20 kHz	1.5 µA		
	20 kHz to 30 kHz	2.0 μΑ		
	At 30 kHz	3.0 µA		

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Measured Quantity Instrument or Gauge	Range	Expanded Measurement Uncertainty (k = 2)	Remarks	Location Code
ELECTRICAL (continued)			Calibration by comparison with a reference standard	UK
AC Current Measurement (continued)	20 mA to 200 mA 10 Hz to 55 Hz 55 Hz to 305 Hz 305 Hz to 1 kHz 1 kHz to 3 kHz 3 kHz to 10 kHz 10 kHz to 20 kHz 20 kHz to 30 kHz At 30 kHz  200 mA to 2 A 10 Hz to 55 Hz 55 Hz to 305 Hz 305 Hz to 1 kHz 1 kHz to 3 kHz 3 kHz to 10 kHz 10 kHz to 20 kHz 20 kHz to 30 kHz At 30 kHz 2 A to 20 A 10 Hz to 55 Hz 55 Hz to 305 Hz 305 Hz to 1 kHz 1 kHz to 3 kHz 2 A to 20 A 10 Hz to 55 Hz 55 Hz to 305 Hz 305 Hz to 10 kHz 1 kHz to 3 kHz 2 A to 10 kHz 1 kHz to 3 kHz 2 A to 10 kHz 1 kHz to 3 kHz 2 A to 10 kHz 3 kHz to 10 kHz 4 to 10 kHz 2 A to 30 A 10 Hz to 55 Hz 55 Hz to 305 Hz 305 Hz to 10 kHz 4 to 55 Hz 55 Hz to 305 Hz 305 Hz to 10 kHz	15 µA 12 µA 12 µA 12 µA 12 µA 12 µA 22 µA 30 µA 30 µA 220 µA 175 µA 175 µA 300 µA 450 µA 630 µA 230 µA 20 mA 20 mA		
	1 kHz to 3 kHz 3 kHz to 10 kHz At 10 kHz	20 mA 20 mA 27 mA		

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Measured Quantity Instrument or Gauge	Range	Expanded Measurement Uncertainty (k = 2)	Remarks	Location Code
ELECTRICAL (continued)			Calibration by comparison with a reference standard	UK
AC Current Generation				
7.6 Gariotti Gariotation	55 Hz to 400 Hz 10 μA to 100 μA 100 μA to 1 mA 1 mA to 10 mA 10 mA to 100 mA 100 mA to 1 A	20 nA 140 nA 580 nA 7.5 μA 85 μA		
	60 Hz 1 A to 2 A 2 A to 10 A 10 A to 20 A 20 A to 50 A	0.15 % 0.30 % 0.5 % 0.5 %		
	400 Hz to 1 kHz 10 μA to 100 μA 100 μA to 1 mA 1 mA to 10 mA 10 mA to 100 mA 200 mA to 1 A	21 nA 135 nA 600 nA 7.5 μA 95 μA		
	1 kHz to 5 kHz 10 μA to 100 μA 100 μA to 1 mA 1 mA to 10 mA 10 mA to 100 mA 100 mA to 1 A	30 nA 200 nA 1.0 μA 12 μA 200 μA		
	5 kHz to 10 kHz 10 μA to 100 μA 100 μA to 1 mA 1 mA to 10 mA 10 mA to 100 mA	100 nA 1.0 μA 7.5 μA 22 μA		
	At 10 kHz 10 μA to 100 μA 100 μA to 1 mA 1 mA to 10 mA 10 mA to 100 mA 100 mA to 1 A	120 nA 1.2 μA 7.5 μA 25 μA 320 μA		

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Measured Quantity Instrument or Gauge	Range	Expanded Measurement Uncertainty (k = 2)	Remarks	Location Code
Frequency	10 MHz 1 Hz to 2 GHz	7.0 in 10 <sup>11</sup> 0.20 μHz/Hz	Measurement and generation of repetitive waveforms.	UK
Temperature indicators, calibration by electrical simulation				UK
Base metal thermocouples	Type E -210 °C to +0 °C 0 °C to +980 °C	0.030 °C 0.020 °C	Excluding cold junction compensation.	
	Type J -190 °C to +0 °C 0 °C to +1170 °C	0.030 °C 0.020 °C		
	Type K -200 °C to -100 °C -100 °C to 900 °C	0.050 °C 0.030 °C		
	Type L -190 °C to +0 °C 0 °C to +880 °C	0.030 °C 0.020 °C		
	Type N -200 °C to +0 °C 0 °C to +1240 °C	0.070 °C 0.040 °C		
	Type T -200 °C to +0 °C 0 °C to +390 °C	0.050 °C 0.020 °C		
	Type U -170 °C to +0 °C 0 °C to +590 °C	0.075 °C 0.020 °C		
Nobel metal thermocouples	Type B 250 °C to +900 °C 900 °C to 1790 °C	0.250 °C 0.015 °C	Excluding cold junction compensation.	
	Type C 250 °C to +600 °C 600 °C to 2250 °C	0.025 °C 0.015 °C		
	Type D 200 °C to +600 °C 600 °C to +1790 °C	0.020 °C 0.025 °C		
	Type R -30 °C to +0 °C 0 °C to +1740 °C	0.18 °C 0.08 °C		
	Type S -30 °C to +0 °C 0 °C to 1740 °C	0.18 °C 0.08 °C		

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Measured Quantity Instrument or Gauge	Range	Expanded Measurement Uncertainty (k = 2)	Remarks	Location Code
Temperature simulators, calibration by electrical simulation (continued)			Excluding cold junction compensation.	UK
Cold junction compensation	At 0 °C	0.21 °C		
Resistance thermometers	PT1000 -190 °C to 0 °C 0 °C to 390 °C	0.010 °C 0.025 °C		
	PT500 -190 °C to 0 °C 0 °C to 830 °C	0.010 °C 0.030 °C		
	PT200 -190 °C to 0 °C 0 °C to 830 °C	0.010 °C 0.030 °C		
	PT100 -190 °C to 0 °C 0 °C to 830 °C	0.010 °C 0.030 °C		
	PT50 -190 °C to 0 °C 0 °C to 830 °C	0.020 °C 0.035 °C		
	Ni100 -50 °C to 230 °C	0.010 °C		
	Ni120 -70 °C to 250 °C	0.010 °C		
	Cu10 -190 °C to 0 °C 0 °C to 250 °C	0.025 °C 0.10 °C		
	D-100 -190 °C to 0 °C 0 °C to 490 °C	0.012 °C 0.020 °C		
Base metal thermocouples	Type E -200 °C to +0 °C 0 °C to +980 °C	0.055 °C 0.030 °C		
	Type J -190 °C to +0 °C 0 °C to +1170 °C	0.055 °C 0.035 °C		
	Type K -200 °C to -100 °C -100 °C to 900 °C 900 °C to 1300 °C	0.100 °C 0.050 °C 0.060 °C		
	Type L -190 °C to +0 °C 0 °C to +880 °C	0.050 °C 0.030 °C		

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Measured Quantity Instrument or Gauge	Range	Expanded Measurement Uncertainty (k = 2)	Remarks	Location Code
Temperature simulators, calibration by electrical simulation (continued)			Excluding cold junction compensation.	UK
Base metal thermocouples (continued)	Type N -200 °C to +0 °C 0 °C to +1240 °C	0.070 °C 0.060 °C		
	Type T -200 °C to +0 °C 0 °C to +390 °C	0.090 °C 0.040 °C		
	Type U -170 °C to +0 °C 0 °C to +590 °C	0.090 °C 0.040 °C		
Nobel metal thermocouples	Type B 250 °C to +900 °C 900 °C to 1790 °C	0.460 °C 0.180 °C		
	Type C 250 °C to +600 °C 600 °C to 2250 °C	0.100 °C 0.180 °C		
	Type D 200 °C to +600 °C 600 °C to +1790 °C	0.100 °C 0.120 °C		
	Type R -30 °C to +0 °C 0 °C to +1740 °C	0.350 °C 0.150 °C		
	Type S -30 °C to +0 °C 0 °C to 1740 °C	0.350 °C 0.150 °C		
Resistance thermometers	PT1000 -200 °C to 0 °C 0 °C to 300 °C 300 °C to 850 °C	0.0012 °C 0.0035 °C 0.0068 °C		
	PT500 -200 °C to 0 °C 0 °C to 300 °C 300 °C to 850 °C	0.0020 °C 0.0022 °C 0.0050 °C		
	PT200 -200 °C to 0 °C 0 °C to 300 °C 300 °C to 850 °C	0.0020 °C 0.0022 °C 0.0050 °C		
	PT100 -200 °C to 0 °C 0 °C to 300 °C 300 °C to 850 °C	0.0020 °C 0.0022 °C 0.0050 °C		

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# United Kingdom Accreditation Service 2 Pine Trees, Chertsey Lane, Staines-upon-Thames, TW18 3HR, UK

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Issue No: 078 Issue date: 13 May 2025

#### Calibration performed by the Organisation at the locations specified

Measured Quantity Instrument or Gauge	Range	Expanded Measurement Uncertainty (k = 2)	Remarks	Location Code
Temperature simulators, calibration by electrical simulation (continued)  Resistance thermometers	PT50		Excluding cold junction compensation.	UK
(continued)	-200 °C to 0 °C 0 °C to 300 °C 300 °C to 850 °C	0.0022 °C 0.0042 °C 0.0093 °C		
	Ni100 -60 °C to 0 °C 0 °C to 180 °C Ni120	0.0015 °C 0.0018 °C		
	-80 °C to 0 °C 0 °C to 260 °C Cu10	0.0015 °C 0.0015 °C		
	-200 °C to 0 °C 0 °C to 260 °C D-100	0.0025 °C 0.0042 °C		
	-200 °C to 0 °C 0 °C to 300 °C 300 °C to 500 °C	0.0019 °C 0.0034 °C 0.0030 °C		

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Measured Quantity Instrument or Gauge	Range	Expanded Measurement Uncertainty (k = 2)	Remarks	Location Code
MASS				UK
	Nominal value (grams) 0.001 to 0.02 0.05 to 0.2 0.5 1 2 5 10 20 50 100 200 500 1 000 2 000 5 000 1 0 000 2 0 000 3 0 000	(mg) 0.012 0.015 0.018 0.020 0.024 0.030 0.040 0.050 0.060 0.10 0.20 0.50 1.0 2.0 5.0 10 20 30	Intermediate values under 100g can be calibrated with an uncertainty equal to the uncertainty of the next higher nominal value.  Intermediate values over 100 g can be calibrated with an uncertainty of 1.0 mg/kg.  Substitution Method.	
TEMPERATURE	75 00 4- 40 00	0.034 °C	Calibratian parformed in	UK
Resistance thermometers and electronic thermometers with PRT, thermocouple or thermistor sensors	-75 °C to -40 °C -40 °C to -30 °C -30 °C to 0 °C 0 °C (ice point) 0.01 °C (Triple Point of Water) 0 °C to 60 °C 60 °C to 150 °C 150 °C to 200 °C 200 °C to 250 °C	0.034 °C 0.028 °C 0.017 °C 0.018 °C 0.002 0 °C 0.012 °C 0.020 °C 0.026 °C 0.033 °C	Calibration performed in liquid baths.	
HUMIDITY				UK
Relative humidity meters	11 %rh 33 %rh 54 %rh 75 %rh 90 %rh For the temperature range 21 °C ± 3 °C	2.2 %rh 2.2 %rh 2.2 %rh 2.2 %rh 2.2 %rh	Calibrations by comparison with dew-point hygrometer and Platinum Resistance Thermometers or against salt solutions.	

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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