

# Schedule of Accreditation

issued by

## United Kingdom Accreditation Service

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

 <p><b>UKAS</b> CALIBRATION</p> <p><b>0505</b></p> <p>Accredited to ISO/IEC 17025:2017</p>	<p><b>Ramcare Ltd</b></p> <p>Issue No: 040 Issue date: 20 February 2026</p>	
	<p>31-37 Penhill Road Lancing West Sussex BN15 8HA</p>	<p>Contact: Mr D G Patel Tel: +44 (0)1903 762555 Fax: +44 (0)1903 762666 E-Mail: info@ramcare.ltd.uk Website: www.ramcare.co.uk</p>
<p>Calibration performed by the Organisations at the locations specified below</p>		

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

#### Laboratory locations:

Location details	Activity	Location code
<p><b>Address</b> 31-37 Penhill Road Lancing West Sussex BN15 8HA</p> <p><b>Local contact</b> Mr D. G. Patel  Tel: +44 (0)1903 762555 Fax: +44 (0)1903 762666 Email: info@ramcare.ltd.uk</p>	<p><a href="#">Electrical</a> <a href="#">Humidity</a> <a href="#">Temperature</a> <a href="#">Pressure</a> <a href="#">Rotational Speed</a> <a href="#">Carbon Dioxide content</a></p>	<p>Lab &amp; Site</p>

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

Location details	Activity	Location code
<p>The customers' 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.</p>	<p><a href="#">Electrical</a> <a href="#">Humidity</a> <a href="#">Temperature</a> <a href="#">Pressure</a> <a href="#">Rotational Speed</a> <a href="#">Carbon Dioxide content</a></p>	<p>Site</p>



**0505**  
Accredited to  
ISO/IEC 17025:2017

**Schedule of Accreditation**  
issued by  
**United Kingdom Accreditation Service**  
2 Pine Trees, Chertsey Lane, Staines-upon-Thames, TW18 3HR, UK

**Ramcare Ltd**

**Issue No: 040 Issue date: 20 February 2026**

Calibration performed by the Organisation at the locations specified

Calibration and Measurement Capability (CMC)

Measured Quantity Instrument or Gauge	Range	Expanded Measurement Uncertainty ( $k = 2$ )	Remarks	Location Code
The method followed for all electrical calibrations of both sources and measuring instruments is by direct comparison of the unit under test against laboratory references, unless otherwise stated in the remarks column. All other calibrations are by comparison with reference instruments unless otherwise stated, Generation means that these values can be supplied for the calibration of measuring devices and Measurement means that devices with an output can be calibrated.				
<b>ELECTRICAL</b>				
DC VOLTAGE				
Generation	0 mV to 150 mV 150 mV to 500 mV 500 mV to 12 V 12 V to 24 V	15 $\mu$ V 40 $\mu$ V 8.0 mV 2.0 mV		Lab & Site
Measurement	0 mV to 100 mV 100 mV to 1000 V	10 $\mu$ V 66 $\mu$ V		Lab
	0 mV to 1 V 1 V to 60 V	10 $\mu$ V 8.0 $\mu$ V		Site
DC CURRENT				
Generation	0 mA to 25 mA 25 mA to 55 mA	3.0 $\mu$ A 4.0 $\mu$ A		Lab & Site
Measurement	0 mA to 100 mA 100 mA to 1 A	70 $\mu$ A 3.3 mA		Lab
	0 mA to 100 mA	6.0 $\mu$ A		Site
RESISTANCE				
Generation	0 $\Omega$ to 400 $\Omega$ 400 $\Omega$ to 1 k $\Omega$ 1 k $\Omega$ to 4 k $\Omega$	20 m $\Omega$ 70 m $\Omega$ 300 m $\Omega$		Lab & Site
Measurement	0 $\Omega$ to 100 $\Omega$ 100 $\Omega$ to 100 k $\Omega$ 100 k $\Omega$ to 1 M $\Omega$	40 m $\Omega$ 14 $\Omega$ 10 k $\Omega$		Lab
	0 $\Omega$ to 2 k $\Omega$ 2 k $\Omega$ to 4 k $\Omega$	120 m $\Omega$ 190 m $\Omega$		Site
AC VOLTAGE				
Measurement	200 Hz 0 V to 700 V	800 mV		Lab
AC CURRENT				
Measurement	60 Hz 0 A to 2 A	6 mA		Lab



0505  
Accredited to  
ISO/IEC 17025:2017

**Schedule of Accreditation**  
issued by  
**United Kingdom Accreditation Service**  
2 Pine Trees, Chertsey Lane, Staines-upon-Thames, TW18 3HR, UK

**Ramcare Ltd**

**Issue No: 040 Issue date: 20 February 2026**

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

Measured Quantity Instrument or Gauge	Range	Expanded Measurement Uncertainty (k = 2)	Remarks	Location Code
TEMPERATURE SIMULATION				
Temperature indicators, simulators, recorders, controllers and transmitters, calibration by electrical simulation				
Base metal thermocouple Generate and Measure			including cold junction compensation	Lab & Site
Type E	-250 °C to -200 °C -200 °C to 0 °C 0 °C to 990 °C	1.0 °C 0.76 °C 0.37 °C		
Type J	-200 °C to 0 °C 0 °C to 1190 °C	0.46 °C 0.39 °C		
Type K	-200 °C to +1370 °C	0.50 °C		
Type N	-200 °C to 0 °C 0 °C to 1290 °C	0.51 °C 0.35 °C		
Type T	-250 °C to -200 °C -200 °C to -150 °C -150 °C to +390 °C	0.86 °C 0.43 °C 0.37 °C		
Noble metal thermocouple Generate			including cold junction compensation	Lab & Site
Type R	0 °C to 1760 °C	0.73 °C		
Type S	0 °C to 1760 °C	0.65 °C		
Measurement				
Type R	0 °C to 1760 °C	0.74 °C		
Type S	0 °C to 1760 °C	0.66 °C		
Pt 100 Generate	-200 °C to +850 °C	0.090 °C		Lab & Site
Measurement	-200 °C to 0 °C 0 °C to 160 °C 160 °C to 800 °C	0.07 °C 0.11 °C 0.28 °C		
Cold junction compensation	At ambient temperature Source and measurement	0.17 °C		Lab



0505  
Accredited to  
ISO/IEC 17025:2017

**Schedule of Accreditation**  
issued by  
**United Kingdom Accreditation Service**  
2 Pine Trees, Chertsey Lane, Staines-upon-Thames, TW18 3HR, UK

**Ramcare Ltd**

**Issue No:** 040 **Issue date:** 20 February 2026

Calibration performed by the Organisation at the locations specified

Measured Quantity Instrument or Gauge	Range	Expanded Measurement Uncertainty ( $k = 2$ )	Remarks	Location Code
<b>ROTATIONAL SPEED</b> Centrifuges, motor shafts Generation and measurement Measurement Generation	6 RPM to 90 RPM 90 RPM to 900 RPM 900 RPM to 90 000 RPM 10 RPM to 5 000 RPM 250 RPM to 5 000 RPM	0.10 RPM 0.91 RPM 9.2 RPM 5.5 RPM 7.0 RPM	Optically triggered devices  Mechanically driven.	Lab & Site
<b>PRESSURE</b> Pneumatic Pressure (gauge) Calibration of pressure indicating instruments and gauges  Hydraulic Pressure (gauge) Calibration of pressure indicating instruments and gauges	- 95 kPa to -2 kPa -2 kPa to 0 kPa 0 kPa to 2 kPa 2 kPa to 2 MPa 2 MPa to 6 MPa 6 MPa to 20 MPa  0 MPa to 6 MPa 6 MPa to 20 MPa	2.7 kPa 35 Pa 14 Pa 3.0 kPa 27 kPa 0.30 MPa  25 kPa 0.24 MPa	Methods consistent with EURAMET CG17.  Measure only  Measure only	Lab & Site  Lab & Site



0505  
Accredited to  
ISO/IEC 17025:2017

**Schedule of Accreditation**  
issued by  
**United Kingdom Accreditation Service**  
2 Pine Trees, Chertsey Lane, Staines-upon-Thames, TW18 3HR, UK

**Ramcare Ltd**

**Issue No: 040 Issue date: 20 February 2026**

Calibration performed by the Organisation at the locations specified

Measured Quantity Instrument or Gauge	Range	Expanded Measurement Uncertainty ( $k = 2$ )	Remarks	Location Code
<b>TEMPERATURE</b>			Calibration by comparison	
Resistance thermometers, and electronic thermometers with sensors, including probes with indicators	-196 °C -100 °C to 0 °C 0 °C to +155 °C 155 °C to 315 °C 315 °C to 660 °C	0.15 °C 0.056 °C to 0.036 °C 0.036 °C to 0.044 °C 0.044 °C to 0.056 °C 0.056 °C to 0.092 °C	In Liquid Nitrogen Within a block bath	Lab
	-100 °C to +155 °C 155 °C to 660 °C	0.19 °C 1.47 °C	Within a block bath	Site
Base metal thermocouples	-100 °C to 660 °C 660 °C to 1000 °C	0.36 °C 2.7 °C	Within a block bath	Lab & Site
Nobel metal thermocouples	0 °C to 660 °C 660 °C to 1000 °C	0.46 °C 2.7 °C	Within a block bath	Lab & Site
Temperature-controlled incubators, ovens, environmental chambers, fridges/refrigerators and freezers (inclusive of associated indicators, controllers and recorders)	-196 °C to -100 °C -100 °C to +160 °C 160 °C to +200 °C 200 °C to 600 °C 600 °C to 1200 °C	0.32 °C 0.20 °C 0.30 °C 1.5 °C 2.2 °C	Single and multipoint time-dependent temperature profiling, also referred to as spatial temperature surveying or mapping  Including data loggers, wireless transmitters, controllers and process transmitters with sensors	Site
Dry Block Calibrator	-100 °C to -50 °C -50 °C to +155 °C 155 °C to 600 °C 600 °C to 1200 °C	0.15 °C 0.05 °C 0.40 °C 2.1 °C	Calibration within a fixed or removable metal insert in accordance with Euromet CG13	Lab
Temperature measurements in air	-35 °C to 0 °C 0 °C to 60 °C	0.32 °C 0.21 °C	In a portable chamber	Lab & Site
Temperature-controlled, air-pressurised enclosures (autoclaves)	50 °C to +250 °C	1.8 °C		Site



0505  
Accredited to  
ISO/IEC 17025:2017

**Schedule of Accreditation**  
issued by  
**United Kingdom Accreditation Service**  
2 Pine Trees, Chertsey Lane, Staines-upon-Thames, TW18 3HR, UK

**Ramcare Ltd**

**Issue No: 040 Issue date: 20 February 2026**

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

Measured Quantity Instrument or Gauge	Range	Expanded Measurement Uncertainty ( $k = 2$ )	Remarks	Location Code
<b>HUMIDITY</b>			Calibration by comparison with reference instruments	
Dewpoint	- 30 °C to + 20 °C +20 °C to +60 °C	0.36 °C 0.36 °C	In a humidity and temperature-controlled chamber	Lab
Relative humidity instruments	5 %rh to 90 %rh <i>For the temperature range</i> 0 °C to 10 °C	0.5 %rh to 3.0 %rh  0.21 °C	Calibration by comparison with a reference chilled mirror hygrometer and platinum resistance thermometers	Lab
	5 %rh to 95 %rh <i>For the temperature range</i> 10 °C to 45 °C	0.5 %rh to 2.4 %rh  0.21 °C		
	5 %rh to 90 %rh <i>For the temperature range</i> 45 °C to 60 °C	0.5 %rh to 2.1 %rh  0.21 °C		
Relative humidity instruments	5 %rh to 90 %rh <i>For the temperature range</i> 0 °C to 10 °C	2.3 %rh 0.4 °C	Calibration by comparison with a reference thermohygrometer in a portable chamber	Lab & Site
	5 %rh to 95 %rh <i>For the temperature range</i> 10 °C to 45 °C	2.3 %rh 0.4 °C		
	5 %rh to 90 %rh <i>For the temperature range</i> 45 °C to 60 °C	2.3 %rh 0.4 °C		
Humidity-controlled chambers (inclusive of associated indicators, controllers and recorders, all with sensors within the specified parameters and ranges)	5 %rh to 90 %rh 0 °C to 50 °C	2.7 %rh 0.4 °C	The quoted uncertainty will depend on the stability of the customer's environment.	Site
<b>GAS CONTENT</b>			Calibration by comparison with a reference instrument	
Carbon Dioxide	Over the range 25 °C to 50 °C 0% to 5% 5% to 20 %	0.3% 1.0%	Gas Analyser	Lab
Carbon Dioxide	Over the range 0 °C to 50 °C 0% to 5% 5% to 20%	0.3% 1.0%	Single-point calibration in the centre of the incubator	Site
END				



0505  
Accredited to  
ISO/IEC 17025:2017

**Schedule of Accreditation**  
issued by  
**United Kingdom Accreditation Service**  
2 Pine Trees, Chertsey Lane, Staines-upon-Thames, TW18 3HR, UK

**Ramcare Ltd**

**Issue No: 040 Issue date: 20 February 2026**

Calibration performed by the Organisation at the locations specified

**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:  $Q[a, b] = [a^2 + b^2]^{1/2}$