

Certificate of Accreditation



Contronics Limited

Calibration Laboratory No. 9636

**Is accredited in accordance with International Standard ISO/IEC 17025:2017
– General Requirements for the competence of testing and calibration
laboratories.**

This accreditation demonstrates technical competence for a defined scope specified in the schedule to this certificate, and the operation of a management system (refer joint ISO-ILAC-IAF Communiqué dated April 2017). The schedule to this certificate is an essential accreditation document and from time to time may be revised and reissued.

The most recent issue of the schedule of accreditation, which bears the same accreditation number as this certificate, is available from www.ukas.com.

This accreditation is subject to continuing conformity with United Kingdom Accreditation Service requirements.

A handwritten signature in black ink, appearing to read "Matt Gantley", is positioned above a horizontal line.

Matt Gantley, *Chief Executive Officer*
United Kingdom Accreditation Service

Initial Accreditation: 22 February 2017
Certificate Issued: 25 January 2021



Scan QR Code to
verify

Schedule of Accreditation

issued by

United Kingdom Accreditation Service

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

 <p>UKAS CALIBRATION</p> <p>9636</p> <p>Accredited to ISO/IEC 17025:2017</p>	<h3>Contronics Limited</h3> <p>Issue No: 007 Issue date: 07 February 2022</p>	
	<p>Greenfield Farm Estate Congleton CW12 4TU United Kingdom</p>	<p>Contact: Mr Paul Flood Tel: +44 (0) 1260 298383 Fax: +44 (0) 1260 298387 E-Mail: paul.flood@contronics.co.uk Website: http://www.contronics.co.uk</p>
<p>Calibration performed by the Organisation at the locations specified</p>		

Locations covered by the organisation and their relevant activities

Laboratory locations:

Location details		Activity	Location code
<p>Address</p> <p>Greenfield Farm Estate Congleton CW12 4TU United Kingdom</p>	<p>Local contact</p> <p>Mr Paul Flood Tel: +44 (0) 1260 298383 Fax: +44 (0) 1260 298387 E-Mail: paul.flood@contronics.co.uk Website: http://www.contronics.co.uk</p>	<p>Temperature Time</p>	<p>Lab</p>

Site activities performed away from the locations listed above:

Location details		Activity	Location code
<p>Customer's sites or premises</p> <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>Contact</p> <p>Mr Paul Flood Tel: +44 (0) 1260 298383 Fax: +44 (0) 1260 298387 E-Mail: paul.flood@contronics.co.uk Website: http://www.contronics.co.uk</p>	<p>Temperature</p>	<p>Site</p>



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Calibration and Measurement Capability (CMC)

Measured Quantity Instrument or Gauge	Range	Expanded Measurement Uncertainty ($k = 2$)	Remarks	Location Code
TEMPERATURE Calibration performed within Metal Block Baths Temperature sensors with indicators or recorders Thermal calibration within chamber volume	-90 °C to -50 °C -50 °C to 50 °C 50 °C to 125 °C	0.22 °C 0.15 °C 0.24 °C	CMC includes allowance of 0.1 °C for instrument under test resolution	Lab & Site
Temperature controlled, incubators, ovens, environmental chambers, fridges/refrigerators, and freezers (inclusive of associated indicators, controllers and recorders, all with sensors)	-90 °C to +125 °C	0.36 °C	Single and multipoint time dependent temperature profiling, also referred to as spatial temperature surveying or mapping	Lab & Site
Temperature indicators and chart recorders built into incubators, fridges and freezers	-90 °C to +125 °C	0.43 °C	Calibration performed in air within the chamber	Lab & Site
TIME Calibration by comparison				
Time interval	1 minute to 24 hours	0.50 s		Lab
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: $Q[a, b] = [a^2 + b^2]^{1/2}$