

Schedule of Accreditation

issued by

United Kingdom Accreditation Service

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

 UKAS CALIBRATION 4647 Accredited to ISO/IEC 17025:2017	Oxford Technical Solutions Ltd	
	Issue No: 016 Issue date: 28 February 2024	
	Unit 1 Talisman Business Park Oxfordshire OX26 6HR United Kingdom	Contact: Mary-Anne Parker Tel: +44 (0)1869 814253 Fax: +44 (0)1869 251764 E-Mail: quality@oxts.com Website: www.oxts.com
Calibration performed by the Organisation at the locations specified below.		

Location Details		Activity
Address Unit 1 Talisman Business Park Oxfordshire OX26 6HR United Kingdom	Local Contact Mary Anne Parker Tel: +44 (0)1869 814253 E-Mail: quality@oxts.com	Calibration of OxTS Inertial measurement units
Address Oxford Technical Solutions GmbH Wankelstrasse 5a 86356 Neusäß Augsburg Germany	Local Contact <i>Stefan Lohmueller</i> Tel +49 821 7898 5834 E-Mail: quality@oxts.com	Calibration of OxTS Inertial measurement units



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Calibration and Measurement Capability (CMC)

Measured Quantity Instrument or Gauge	Range	Expanded Measurement Uncertainty ($k = 2$)	Remarks
CALIBRATION OF OxTS INERTIAL MEASUREMENT UNITS			
IMU Frequency	100 Hz nominal 250 Hz nominal	400 μ Hz 900 μ Hz	Using frequency counter
Supply Voltage	14 V to 16 V	50 mV	Using digital voltmeter.
Temperature	25 °C to 50 °C	1.2 °C	Using digital thermometer with thermocouple attached to the IMU case.
Differential temperature	Any 5 °C interval within the range 25 °C to 50 °C	0.25 °C	
Accelerometer Calibration	-9.5 m s ⁻² to +9.5 m s ⁻²	0.0010 m s ⁻²	Proprietary methods developed by OxTS
Gyroscope Calibration	-30°s ⁻¹ to +30°s ⁻¹	0.010°s ⁻¹	
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: $Q[a, b] = [a^2 + b^2]^{1/2}$