


Schedule of Accreditation

issued by

United Kingdom Accreditation Service

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

 <p>0446</p> <p>Accredited to ISO/IEC 17025:2017</p>	<p>Siemens Public Limited Company</p> <p>Issue No: 037 Issue date: 08 April 2022</p>	
	<p>Commissioners Road Medway City Estate Rochester Kent ME2 4GN</p>	<p>Contact: Mr Peter Rees Tel: +44 (0) 1634 719584 E-Mail: peter.rees@siemens.com Website: www.siemensenergy.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>Address Commissioners Road Medway City Estate Rochester Kent ME2 4GN</p> <p>Local contact Mr Peter Rees</p>	<p>Electrical LF (Frequency, Voltage & Current)</p> <p>Electrical Power and Energy</p>	Laboratory

Site activities performed away from the locations listed above:

Location details	Activity	Location code
<p>Customers' 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>Local contact Mr Peter Rees</p>	<p>Electrical Power and Energy</p>	Site



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Calibration and Measurement Capability (CMC)

Measured Quantity Instrument or Gauge	Range	Expanded Measurement Uncertainty ($k = 2$)	Remarks	Location Code
All calibration is by comparison to a reference device				
AC VOLTAGE	30 V to 500 V 45 Hz to 55 Hz	100 μ V/V		Laboratory
AC CURRENT	45 Hz to 55 Hz 10 mA to 50 mA 50 mA to 10 A 10 A to 120 A	100 μ A/A 100 μ A/A 100 μ A/A		Laboratory
FREQUENCY	10 Hz to 10 MHz 10 MHz to 100 MHz	0.10 μ Hz/hz 1.0 μ Hz/Hz		Laboratory
All AC POWER / ENERGY ACTIVE POWER / ENERGY	30 V to 500 V 45 Hz to 60 Hz <i>Cos $\phi = 1$</i> 10 mA to 10 A 10A to 120 A <i>Cos $\phi = 0.5$ Lead to 0.5 Lag</i> 10 mA to 10 A 10 A to 120 A <i>Cos $\phi = 0.25$ Lead to 0.25 to Lag</i> 10 mA to 10 A 10 A to 120 A	 100 μ A/A 100 μ A/A 100 μ A/A 100 μ A/A 100 μ A/A 100 μ A/A	Single and Poly Phase	Laboratory
REACTIVE POWER / ENERGY	 <i>Sin $\phi = 1$</i> 10 mA to 10 A 10 A to 120 A <i>Sin $\phi = 0.5$ Lead to 0.5 Lag</i> 10 mA to 10 A 10 A to 120 A <i>Sin $\phi = 0.25$ Lead to 0.25 Lag</i> 10 mA to 10 A 10 A to 120 A	 100 μ A/A 100 μ A/A 100 μ A/A 100 μ A/A 100 μ A/A 100 μ A/A	Single and Poly Phase	Laboratory
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: $Q[a, b] = [a^2 + b^2]^{1/2}$