

# Schedule of Accreditation

issued by

## United Kingdom Accreditation Service

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



0764

Accredited to  
ISO/IEC 17025:2017

### Klipspringer Limited

Issue No: 024 Issue date: 17 September 2024

Foxtail House  
Foxtail Road  
Ransomes Industrial Estate  
Ipswich  
IP3 9RX

Contact: Mr T A Carlyon  
Tel: +44 (0)1473 741500  
Fax: +44 (0)1473 747200  
E-Mail: [service@klipspringer.co.uk](mailto:service@klipspringer.co.uk)  
Website: [www.klipspringer.com](http://www.klipspringer.com)

Calibration performed at the above address only

#### Calibration and Measurement Capability (CMC)

Measured Quantity Instrument or Gauge	Range	Expanded Measurement Uncertainty ( $k = 2$ )	Remarks
ELECTRICAL			Comparison with reference instrument
Temperature indicators, calibration by electrical simulation			
Base metal thermocouples Type K and T	-20 °C to +250 °C	0.30 °C	including cold junction compensation
Resistance thermometers (Pt 1000)	-18 °C to + 120 °C	0.20 °C	
Temperature simulators, calibration by electrical simulation			
Base metal thermocouples Type K and T	-20 °C to +250 °C	0.30 °C	including cold junction compensation
Resistance thermometers (Pt 1000)	-40 °C to +250 °C	0.20 °C	
DC Resistance			
Measurement	200 $\Omega$ to 2 k $\Omega$ 2 k $\Omega$ to 20 k $\Omega$ 20 k $\Omega$ to 1 M $\Omega$	0.024 % + 15 m $\Omega$ 0.026 % + 0.11 $\Omega$ 0.049 % + 5.8 $\Omega$	
TEMPERATURE			
Temperature loggers and indicators with sensors	-30 °C to +150 °C	0.080 °C	Comparison in liquid bath
Resistance thermometers (Pt 1000)	-30 °C to +150 °C	0.20 °C	
Liquid in glass thermometers	-30 °C to +150 °C	0.13 °C + 1/5 scale division	Partial immersion thermometers
Block calibrators	-18 °C to +100 °C	0.27 °C	Calibration of ECMP4-8-12 Lazaport Multipoint Calibrators
	+75 °C	0.35 °C	ECMP1 Lazaport Singlepoint



0764  
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

**Klipspringer Limited**  
**Issue No: 024    Issue date: 17 September 2024**

Calibration performed at main address only

Measured Quantity Instrument or Gauge	Range	Expanded Measurement Uncertainty ( $k = 2$ )	Remarks
HUMIDITY  Relative humidity indicators and recorders      Temperature probes incorporated into humidity indicators	10 %rh to 85 %rh 20 °C to 23 °C      20 °C to 23 °C	2.1 %rh      0.28 °C	Comparison in humidity and temperature controlled chamber  Relative humidity can also be reported in terms of $a_w$ (water activity)
END			



0764

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

**Klipspringer Limited**

**Issue No: 024    Issue date: 17 September 2024**

Calibration performed at main address only

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