CERTIFICATE OF CALIBRATION

Issued by: RS Components Ltd

Date Issued: 17 Nov 2022 Certificate No. 1771284

0310

RS Calibration

Calibration and Repair Service
DPN 175, Lammas Rd,
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Corby, Northants, NN17 9RS

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Mark Connelly

Client	VIAMED LTD KEIGHLEY WEST YORKSHIRE BD20 7DT
Instrument	TIME 1030 MICROCAL
Serial No.	6939K6
Client Reference	CE076
Procedure ID.	610.348 Rev. P4
Date of Calibration	17 Nov 2022

Remarks

This certificate reports recorded values for the instrument 'As Received'.

Uncertainties

The reported expanded uncertainties are based on a standard uncertainty multiplied by a coverage factor $k = 2$, providing a level of confidence of approximately 95%. The uncertainty evaluation has been carried out in accordance with UKAS requirements.

For certificate statements of conformity see Appendix SCQAR 533
The following calibration results relate only to the items defined above.

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Environment

The ambient temperature and relative humidity throughout the calibration were (20 ± 2) °C and (40 ± 20) %RH respectively.

Prior to the calibration the instrument was held within the laboratory for a period of not less than 30 minutes.

The instrument was calibrated by outputting values to the input terminals of a digital multimeter and recording the measured values in the tables below.

All measurements are based on four readings. The average measured values are reported in the table below.

Range	Output Value	Measured Value	Measurement Uncertainty
1 V	0.2 V	0.199 94 V	± 0.54 mV
1 V	0.6 V	0.599 96 V	± 0.55 mV
1 V	1 V	0.999 13 V	± 0.57 mV
100	100 mV	99.905 mV	± 8.19 uV
10	10 mV	9.992 0 mV	± 8.07 uV
100	100 mA	99.995 mA	± 17.4 uA
10	10 mA	9.985 1 mA	± 5.7 uA

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Compliance to Specification

The specification published by the manufacturer and found in the instrument's handbook has been used to determine performance at the measured points.

Reported values not annotated.

The instrument passed the stated specification, due allowance having been made for the uncertainty of measurement which carries no implication regarding the long term stability of the instrument.

END OF CALIBRATION

Appendix SCQAR533 Certificate Statements of conformity

RS Components is standardising how it reports conformity across all disciplines in line with requirements within **ISO/IEC: 17025:2017**.
Where the laboratory reports a statement of conformity to a specification, guidance has been drawn on reporting structure and decision rules from ILAC document series **ILAC-G8:09/2019**.
Unless otherwise instructed by you the Customer, acceptance limits applied are derived from the manufacturers specification or applicable standard (e.g. DIN, EEC, BS etc.) or where applicable: SCQAR532_RS Standard Limits for Calipers, available on request.
The statements found on this certificate produced by RS Components Laboratory are as follow:

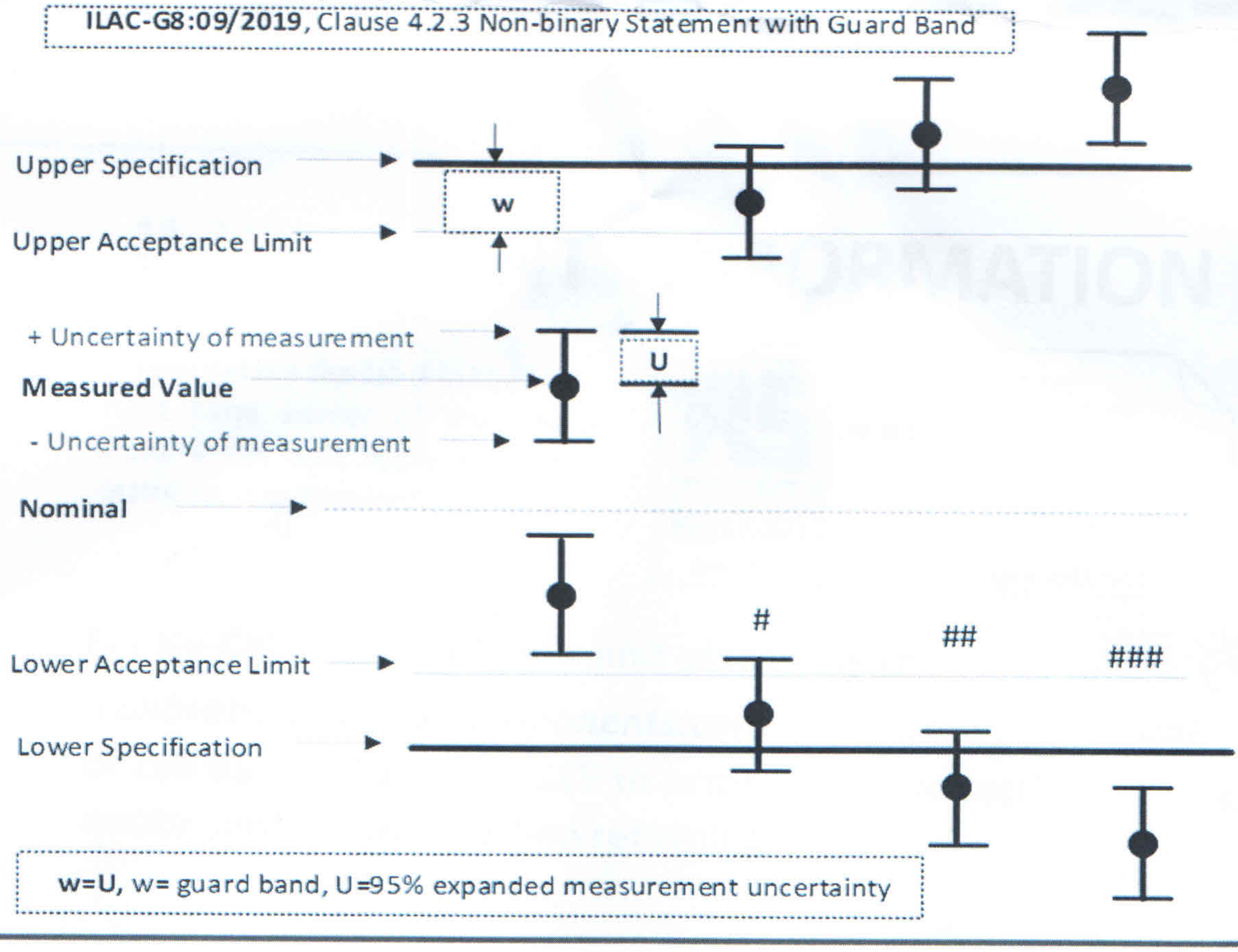
1) Reported values with **No Annotation**:
The instrument **passed** the stated specification, even with allowance having been made for the uncertainty of measurement, which carries no implication regarding the long-term stability of the instrument.

2) Reported values annotated with **"#"**
The measured result is a **conditional pass** to the limit but by a margin less than the measurement uncertainty, it is therefore not possible to state compliance based on the stated level of confidence.

3) Reported values annotated with **"##"**
The measured result is a **conditional fail** to the limit but by a margin less than the measurement uncertainty, it is therefore not possible to state compliance based on the stated level of confidence.

4) Reported values annotated with **"###"**
The measured result **failed** the stated specification, even with allowance having been made for the measurement uncertainty.

ILAC-G8:09/2019, Clause 4.2.3 Non-binary Statement with Guard Band



w=U, w= guard band, U=95% expanded measurement uncertainty