

# CERTIFICATE OF CALIBRATION

Issued by: RS Components Ltd

Date Issued: 02 Mar 2015

Certificate No. 1387866



## RS Calibration

Calibration and Repair Service

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A handwritten signature in black ink.

Marlyn Goodacre

Client	VIAMED LTD KEIGHLEY WEST YORKSHIRE BD20 7DT
Instrument	TIME 1030 MICROCAL
Serial No.	6939K6
Client Reference	CE076
Procedure ID.	610.348 Rev. P2
Date of Calibration	02 Mar 2015

### 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.



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This certificate is issued in accordance with the laboratory accreditation requirements of the United Kingdom Accreditation Service. It provides traceability of measurement to the SI system of units and/or to units of measurement realised at the National Physical Laboratory or other recognised national metrology institutes

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UKAS Accredited Calibration Laboratory No. 0310



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## Environment

The ambient temperature and relative humidity throughout the calibration were  $(20 \pm 2) ^\circ\text{C}$  and  $(50 \pm 20) \% \text{RH}$  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	0.200 06 V	$\pm$ 550 $\mu\text{V}$
1 V	0.6 V	0.600 44 V	$\pm$ 560 $\mu\text{V}$
1 V	1 V	0.999 86 V	$\pm$ 580 $\mu\text{V}$
100 mV	100 mV	100.004 mV	$\pm$ 41 $\mu\text{V}$
10 mV	10 mV	10.003 4 mV	$\pm$ 8 $\mu\text{V}$
100 mA	100 mA	100.111 mA	$\pm$ 17 $\mu\text{A}$
10 mA	10 mA	9.993 2 mA	$\pm$ 13 $\mu\text{A}$

## END OF CALIBRATION

CALIBRATED BY:- MAG

## 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 complies with 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.