

CERTIFICATE OF CALIBRATION

Issued by: RS Components Ltd

Date Issued: 28 Jun 2010

Certificate No. 1183430



0310



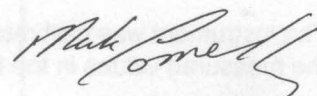
Calibration and Repair Service

Page 1 of 2 Pages

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MARK CONNELLY

Client	VIAMED KEIGHLEY WEST YORKSHIRE BD20 7DT
Instrument	TIME 1030 MICROCAL
Serial No.	6839K6
Client Reference	CE076
Procedure ID.	610.348 Rev. P2
Date of Calibration	28 Jun 2010

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.



RS Components takes its environmental responsibilities very seriously and as such has printed this double sided document in black and white, on paper from sustainable sources.

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

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UKAS Accredited Calibration Laboratory No. 0310



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Page 2 of 2 Pages

Environment

The ambient temperature and relative humidity throughout the calibration were $(20 \pm 2) ^\circ\text{C}$ and $(50 \pm 10) \% \text{RH}$ 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 09 V	$\pm 550 \text{ uV}$
1 V	0.6 V	0.600 60 V	$\pm 560 \text{ uV}$
1 V	1 V	0.999 59 V	$\pm 580 \text{ uV}$
100 mV	100 mV	99.966 mV	$\pm 8 \text{ uV}$
10 mV	10 mV	9.996 0 mV	$\pm 8 \text{ uV}$
100 mA	100 mA	100.054 mA	$\pm 17 \text{ uA}$
10 mA	10 mA	9.991 9 mA	$\pm 6 \text{ uA}$

END OF CALIBRATION

CALIBRATED BY:-

MSC

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.