CERTIFICATE OF CALIBRATION

Issued by: RS Components Ltd

Date Issued: 26 Jan 2017 Certificate No. 1468033

0310

RS Calibration

Calibration and Repair Service

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Alan Goodley

Client	MED-LAB LIMITED DERBY DERBYSHIRE DE1 2PU
Instrument	Fluke 73 Digital Multimeter
Serial No.	78640328
Client Reference	N/A
Procedure ID.	284.2109 Rev. P2
Date Received	25 Jan 2017
Date of Calibration	26 Jan 2017

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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Environment

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

Method

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 applying nominal values to the input terminals and recording the displayed values in the tables below.

Function	Range	Applied Value		UUT Display	Measurement Uncertainties
DC Voltage	320 mV	300 mV		300.2 mV	± (0.04% + 1 LSD)
	3.2 V	3 V		3.002 V	± (0.04% + 1 LSD)
		- 3 V		-3.002 V	± (0.04% + 1 LSD)
	32 V	10 V		10.01 V	± (0.12% + 1 LSD)
		20 V		20.02 V	± (0.06% + 1 LSD)
		30 V		30.03 V	± (0.04% + 1 LSD)
	320 V	300 V		300.3 V	± (0.04% + 1 LSD)
	600 V	590 V		590 V	± (0.20% + 1 LSD)
AC Voltage	3.2 V	3 V	50 Hz	3.000 V	± (0.04% + 1 LSD)
	32 V	30 V	50 Hz	30.01 V	± (0.05% + 1 LSD)
	320 V	300 V	50 Hz	300.2 V	± (0.05% + 1 LSD)
		300 V	500 Hz	300.2 V	± (0.05% + 1 LSD)
	600 V	590 V	50 Hz	590 V	± (0.20% + 1 LSD)
DC Current	32 mA	30 mA		29.94 mA	± (0.04% + 1 LSD)
	320 mA	250 mA		249.9 mA	± (0.05% + 1 LSD)
	10 A	2 A		2.00 A	± (0.58% + 1 LSD)
AC Current	32 mA	30 mA	50 Hz	29.95 mA	± (0.09% + 1 LSD)
	320 mA	250 mA	50 Hz	250.0 mA	± (0.12% + 1 LSD)
	10 A	2 A	50 Hz	1.99 A	± (0.59% + 1 LSD)
Resistance	320 Ω	100 Ω		99.9 Ω	± (0.12% + 1 LSD)
	3 200 Ω	1 000 Ω		1 000 Ω	± (0.12% + 1 LSD)
	32 kΩ	10 kΩ		10.00 kΩ	± (0.12% + 1 LSD)
	320 kΩ	100 kΩ		100.0 kΩ	± (0.12% + 1 LSD)
	3.2 MΩ	1 MΩ		1.000 MΩ	± (0.12% + 1 LSD)
	32 MΩ	10 MΩ		10.02 MΩ	± (0.12% + 1 LSD)

END OF CALIBRATION **CALIBRATED BY :- AAG**

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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 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.