

M K I S



Calibration Company

Milton Keynes Instrumentation Services
Unit 4 Furtho Court
Towcester Road
Old Stratford
Milton Keynes
MK19 6AQ

Tel: 01908 568250
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CERTIFICATE OF CALIBRATION

CERTIFICATE NO: 31872

DATE OF ISSUE: 25.04.07

Customer:	DJB Labcare Limited	Order Number:	15763
Location:	Newport Pagnell	Serial Number:	79760235
Instrument Type:	Fluke 73 MK 3 Multimeter	Adjustment Required:	No

All measurements were made using equipment whose values are referenced directly or by approved ratiometric procedures to laboratory standards whose values are traceable to National Standards.

The ambient temperature and relative humidity throughout the test was $20\text{ }^{\circ}\text{C} \pm 2\text{ }^{\circ}\text{C}$ and $50\% \pm 20$ respectively.

The calibration was carried out in accordance with the general requirements of BS EN ISO/IEC 17025: 2005.

This is to certify that the above listed instrument meets or exceeds as defined by our established calibration procedures, the published manufacturers specification.

The uncertainties refer to the applied values only with no account being taken of the instruments ability to maintain its calibration.

The uncertainties did not exceed:

VOLTS DC

1 μV to 1000 mV $\pm (0.002\% \text{ setting} + 0.0015\% \text{ range} + 4 \mu\text{V})$

1 V to 1000 V $\pm (0.004\% \text{ setting} + 0.001\% \text{ range})$

VOLTS AC

10 mV to 1000 V $\pm (0.08\% \text{ setting} + 0.005\% \text{ range} + 10 \mu\text{V})$

40 Hz to 10 kHz

CURRENT DC

10 nA to 1000 mA $\pm (0.02\% \text{ setting} + 0.005\% \text{ range} + 50 \text{ nA})$

1 A to 10 A $\pm (0.025\% \text{ setting}) + \text{DC volts error at } 10 \text{ V}$

CURRENT AC

100 μA to 1000 mA $\pm (0.05\% \text{ setting} + 0.005\% \text{ range})$

1 A to 10 A $\pm (0.05\% \text{ setting}) + \text{AC Volts error at } 10 \text{ V}$

OHMS

100 Ω to 1 M Ω $\pm (0.005\% \text{ setting} + 0.35 \Omega)$

10 M Ω $\pm (0.01\%)$

Calibration procedure used MKIP 206

Applicable UKAS certificates 29197

The following results were obtained (see results sheet).

Signed:

Uncertainties are for a confidence probability of not less than 95%.



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ENGINEERS REPORT

Certificate No.: 31872

Date of Issue: 25.04.07

Customer : DJB Labcare Limited

Instrument Type: Fluke 73 MK III Multimeter

Serial Number: 79760235

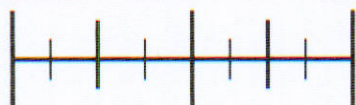
Fault:

Ohms intermittent.

Repair Action:

Resoldered input post (com) was loose.

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TEST RESULTS

Certificate No.: 31872

Date of Issue: 25.04.07

Customer : DJB Labcare Limited

Instrument Type: Fluke 73 MK III Multimeter

Serial Number: 79760235

Function	Range	Applied Value	Indicated Value		
DC Volts	300 mV	300 mV	299.6 mV		
		-300 mV	-299.6 mV		
	3 V	2.7 V	2.698 V		
		10 V	9.99 V		
		20 V	19.99 V		
		30 V	29.98 V		
	300 V	270 V	269.9 V		
		600 V	600 V	599 V	
	AC Volts	3 V	2.7 V @ 100 Hz	2.704 V	
			2.7 V @ 500 Hz	2.692 V	
30 V		27 V @ 100 Hz	27.05 V		
		270 V @ 100 Hz	270.5 V		
600 V		600 V @ 100 Hz	601 V		
		600 @ 1 kHz	601 V		
Resistance	300 Ω	100 Ω	99.9 Ω		
	3000 Ω	1000 Ω	1000 Ω		
	30 kΩ	10 kΩ	10.00 kΩ		
	300 kΩ	100 kΩ	100.0 kΩ		
	3 MΩ	1 MΩ	1.001 MΩ		
	30 MΩ	10 MΩ	10.00 MΩ		
Current	30 mA	10 mA	DC	AC @ 100 Hz	
			9.95 mA	9.98 mA	
	300 mA	100 mA	99.7 mA	99.9 mA	
			10 A	10 A	9.98 A