CERTIFICATE OF CALIBRATION

Issued By SPECIALIST INSTRUMENT SERVICES

Date of Issue 17 July 2008

Certificate Number STD4725

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Unit A, Frenbury Estate Helesdon Park Road Norwich NR6 5DP

A)

Mains Frequency:

M French

☐ M.Grafflin

Job Number: NJ6986-1

☐ D.P.Cooper

Approved Signatory

Customer:

Edmundson Electrical (032)

Units 2 & 3 Macfarlane Court, Morton Peto Road Gapton Hall Ind Estate Gt Yarmouth, NR31 0LT

Date Received: 17 June 2008

Instrument -

System ID : Description :

DI2783

Metrel

Multifunction Tester

Manufacturer : Model Number :

Eurotest 16070973

Serial Number : Procedure Version :

1.10/fast

Environmental Conditions

Temperature:

Relative Humidity:

22.3°C +/- 1°C 45.6% +/- 10%

Mains Voltage :

235V +/- 10V 50Hz +/- 1Hz

Comments

Unit placed in the lab prior to calibration to stabalise.

Unit was calibrated with the leads supplied.

Traceability Information

Instrument description 2100 Electrical Test Calibrator (HI) Serial number 107745A6 Certificate number

12873

Cal. Date 08/01/2008

Cal. Period 52

Calibrated By: M.French

Date of Calibration: 17 July 2008

This certificate provides traceability of measurement to recognised National Standards, and to the units of measurement realised at the National Physical Laboratory or other recognised National Standards laboratories.

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Test Title	Tolerance	Applied Value	Reading	Pass/Fail
250V Voltage	25V	250V	260V	Pass
Insulation $1M\Omega$	45kΩ	1.00ΜΩ	$1.00 \mathrm{M}\Omega$	Pass
Insulation $10M\Omega$	180kΩ	10.00ΜΩ	$9.95 M\Omega$	Pass
Insulation 100M Ω	1.8ΜΩ	100.0ΜΩ	100.3M $Ω$	Pass
500V Voltage	50V	500V	521V	Pass
1000V Voltage	100V	1 000V	1 037V	Pass
20Ω Cont Range	43 m Ω	0.20Ω	0.23Ω	Pass
20Ω Cont Range	$45 \text{m}\Omega$	1.00Ω	1.03Ω	Pass
20Ω Cont Range	$180 \text{m}\Omega$	10.00Ω	10.01Ω	Pass
200Ω Cont Range	1.8Ω	100.0Ω	99.7Ω	Pass
2000Ω Cont Range	18Ω	$1~000\Omega$	989Ω	Pass
200mA Cont Current	37.5mA	250mA	225mA	Pass
Measured Mains	2.1V	238.3V	238.5V	Pass
20Ω Range	111.8m Ω	0.39Ω	0.39Ω	Pass
20Ω Range	141.9m Ω	1.40Ω	1.43Ω	Pass
20Ω Range	408.9m $Ω$	10.30Ω	10.63Ω	Pass
200Ω Range	4Ω	101.6Ω	103.0Ω	Pass
2000Ω Range	39.8Ω	993Ω	997Ω	Pass
PFC	255.5A	730A	538A	Pass
10mA Trip Current	1mA	10.00mA	10.66mA	Pass
30mA Trip Current	3mA	30.00mA	30.55mA	Pass
100mA Trip Current	50mA	100.0mA	102.9mA	Pass
300mA Trip Current	30mA	300.0mA	308.1mA	Pass
500mA Trip Current	50mA	500.0mA	516.1mA	Pass
1000mA Trip Current	200mA	1 000.0mA	1 041.6mA	Pass
30mA lx5	15mA	150.0mA	154.4mA	Pass
30mS Trip Time	400us	30.0ms	30.0ms	Pass

Uncertainties

Mains Voltage RCD Current

RCD Current Loop Impedance

Continuity Ohms
Insulation Ohms

Insulation Voltage RCD Time ± 0.5V

1.2%

0.5% + 0.004 Ohms ± 1 digit

0 to 20kOhms: 0.25% ± 10milliohms ± 1 digit.

10kohms to 5Mohms: 0.1%, 5Mohms to 10Gohms: 1% +/- 1 Digit.

1% ± 800mV

0.7ms