

CERTIFICATE OF CALIBRATION

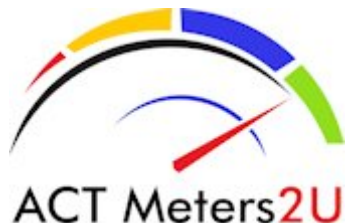
Issued By Associated Calibration & Training Ltd

Date of Issue 01 June 2023

Certificate Number

ACT60583

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Associated Calibration & Training Ltd
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Stoke-on-Trent
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Tel: 01782 827018

Approved Signatory

T.P Rowley J. Taylor A.J Corbishley C. Whalley P.G Casey

Customer :

Date Received : 01 June 2023

Instrument -	System ID :	ID28279	Job Number :	R60452-1
	Description :	Multifunction Tester		
	Manufacturer :	Megger	Site :	
	Model Number :	MFT1721	Location :	
	Serial Number :			
	Procedure Version :	313 3.50		

Environmental Conditions

Temperature :	21°C +/- 3°C	Mains Voltage :	240V +/- 10V
Relative Humidity :	50% +/- 15%	Mains Frequency :	50Hz +/- 1Hz

Comments

The Instrument was allowed to stabilise before calibration.

Traceability Information

<i>Instrument description</i>	<i>Serial number</i>	<i>Certificate number</i>	<i>Cal. Date</i>	<i>Cal. Period</i>
3200 Electrical Test Calibrator (HI)	M1370L14	UKAS48590	26/04/2023	52

Calibrated By : A.J Corbishley

Date of Calibration : 01 June 2023

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 +/-		Pass/Fail	
General Operation				
Controls & Display	---	---	Pass	
Bar Display	---	---	Pass	
P-E P-N Indicators	---	---	Pass	
Voltage Range VAC	---	---	Pass	
Continuity Resistance				
0.5Ω	30mΩ	0.50Ω	0.51Ω	Pass
1Ω	40mΩ	1.00Ω	1.00Ω	Pass
10Ω	400mΩ	10.0Ω	10.0Ω	Pass
100Ω	5.2Ω	100.0Ω	100.0Ω	Pass
250V Insulation Range				
0.25MΩ	27.5kΩ	0.25MΩ	0.25MΩ	Pass
0.5MΩ	35kΩ	0.50MΩ	0.50MΩ	Pass
1MΩ	50kΩ	1.00MΩ	1.00MΩ	Pass
100MΩ	3.2MΩ	100.0MΩ	98.8MΩ	Pass
250V Test V @ 1mA	52V	250V	267V	Pass
500V Insulation Range				
0.25MΩ	27.5kΩ	0.25MΩ	0.25MΩ	Pass
0.5MΩ	35kΩ	0.50MΩ	0.51MΩ	Pass
1.0MΩ	50kΩ	1.00MΩ	1.00MΩ	Pass
100MΩ	3.2MΩ	100.0MΩ	98.9MΩ	Pass
500V Test V @ 1mA	102V	500V	539V	Pass
1kV Insulation Range				
0.25MΩ	27.5kΩ	0.25MΩ	0.26MΩ	Pass
0.5MΩ	35kΩ	0.50MΩ	0.51MΩ	Pass
1.0MΩ	50kΩ	1.00MΩ	1.02MΩ	Pass
100MΩ	3.2MΩ	100.0MΩ	98.5MΩ	Pass
1000V Test V @ 1mA	202V	1 000V	1 016V	Pass

Uncertainties

Loop Impedance	0.5% + 0.004 Ohms ± 1 digit
Continuity Ohms	0 to 20kOhms: 0.25% ± 10milliohms ± 1 digit.
Continuity Current	0.05% + 0.1mA
Insulation Ohms	10kohms to 5Mohms: 0.1%, 5Mohms to 10Gohms: 1% +/- 1 Digit.
Insulation Voltage	1% ± 800mV
RCD Current	1.2%
RCD Time	0.7ms
D.C. Voltage	0 to 1000V: 0.01% ± 1digit
A.C. Voltage	0 to 1000V: 0.01% ± 1digit

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Test Title	Tolerance +/-			Pass/Fail
RCD Trip Time				
150ms @ 30mA	5.5ms	150ms	150ms	Pass
100ms @ 30mA	4ms	100ms	100ms	Pass
30ms @ 150mA	1.9ms	30.0ms	30.4ms	Pass
Loop Test Hi Range				
1Ω	74.9mΩ	0.50Ω	0.54Ω	Pass
1Ω	80.3mΩ	0.61Ω	0.63Ω	Pass
1Ω	100.6mΩ	1.01Ω	1.02Ω	Pass
10Ω	1Ω	10.7Ω	10.8Ω	Pass
100Ω	10.7Ω	101.6Ω	102.0Ω	Pass
PFC Test				
PFC Loop Test	---	---	Pass	
Loop Test No Trip Range				
No Trip Test	---	---	Pass	

End of results

Uncertainties

Loop Impedance	0.5% + 0.004 Ohms ± 1 digit
Continuity Ohms	0 to 20kOhms: 0.25% ± 10milliohms ± 1 digit.
Continuity Current	0.05% + 0.1mA
Insulation Ohms	10kohms to 5Mohms: 0.1%, 5Mohms to 10Gohms: 1% +/- 1 Digit.
Insulation Voltage	1% ± 800mV
RCD Current	1.2%
RCD Time	0.7ms
D.C. Voltage	0 to 1000V: 0.01% ± 1digit
A.C. Voltage	0 to 1000V: 0.01% ± 1digit