

Certificate of Calibration



Issued by: Megger Instruments Limited
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Instrument Details

Model MTR105
Description Megger Baker MTR105
Serial Number 1010361102005047

Environment Details

Temperature	Relative Humidity	Mains Frequency	Mains Voltage	Date Tested	6-Aug-2020
20°C ± 3°C	50% ± 20%	50Hz ± 0.5Hz	230V -2% + 10%	Date Commissioned	<div></div>

Traceability Information

Serial No	Test Equipment Description	Procedure Version
T3246	MTR105 Test Equipment	V22

Test Title	Applied Value	Reading Value	Tolerance	Uncertainties	Pass/Fail
Voltage Ranges					
70 mV DC	70 mV	70.0 mV	1.6 mV	±1% ±1d	Pass
7 V AC	7 V	6.99 V	0.16 V	±1% ±1d	Pass
70 V DC	70 V	70 V	1.6 V	±1% ±1d	Pass
50 Hz	50 Hz	50.0 Hz	0.3 Hz	±1% ±1d	Pass
230 V DC	230 V	230 V	6 V	±1% ±1d	Pass
Continuity Range					
4 Ω	4.292 Ω	4.08 Ω	0.14 Ω	±0.5% ±1d	Pass
50 Ω	50.289 Ω	50.2 Ω	1.7 Ω	±0.5% ±1d	Pass
500 Ω	500.31 Ω	501 Ω	27 Ω	±0.5% ±1d	Pass
5 kΩ	4996 Ω	5.04 kΩ	0.27 kΩ	±0.5% ±1d	Pass
Ω S/C Current	2.292 Ω	203.755 mA	-5 mA + 15 mA	±0.5% ±1d	Pass
Insulation Ranges					
50 kΩ @ 50 V	50.05 kΩ	49 kΩ	1.2 kΩ	±0.5% ±1d	Pass
10 MΩ @ 50 V	9.983 MΩ	9.95 MΩ	0.4 MΩ	±0.5% ±1d	Pass
O/P Volts @ 50 V / 1 mA	50 V	50.86 V	50 V - 53 V	±0.5% ±1d	Pass
0.5 MΩ @ 500 V	500 MΩ	0.50 MΩ	0.03 MΩ	±0.5% ±1d	Pass
100 MΩ @ 500 V	100.1 MΩ	99.9 MΩ	0.04 MΩ	±0.5% ±1d	Pass
O/P Volts @ 500 V / 1 mA	500 V	504.06 V	500 V - 512 V	±0.5% ±1d	Pass
100 MΩ @ 1000 V	100.1 MΩ	100 MΩ	4 MΩ	±0.5% ±1d	Pass
1.0 MΩ @ 1000 V	1.0003 MΩ	0.99 MΩ	0.04 MΩ	±0.5% ±1d	Pass
O/P Volts @ 1000 V / 1 mA	1000 V	1007.47 V	1000 V - 1022 V	±0.5% ±1d	Pass
Capacitance Range					
700 nF	697.1 nF	696.119 nF	37 nF	±0.5% ±1d	Pass
10 uF	10.2 uF	10.074 uF	0.7 uF	±0.5% ±1d	Pass
Four Wire Resistance Range					
1 mΩ	1.1 mΩ	1.02 mΩ	0.08 mΩ	±0.05% ±1d	Pass
5 Ω	5.0003 Ω	4.999 Ω	0.01 Ω	±0.05% ±1d	Pass
Inductance Range					
100 uH @ 120 Hz	103 uH	105.973 uH	6 uH	±2% ±1d	Pass
1 H @ 1 KHz	0.8548 H	0.858 H	0.05 H	±2% ±1d	Pass
Temperature Range					
100 DegC	100 DegC	100.4 DegC	3 DegC	±2% ±1d	Pass