

MCT1000

Magnetisation Curve Test System



Features

- Dual range output
- Triple supply voltage
- Large LED displays
- True RMS metering for output voltage and current
- Dual range metering
- Zero voltage interlock
- X-Y plotter true RMS interface
- Test protective class CTs safely and easily

T&R Test Equipment is a market leader in the field of current injection equipment and high voltage test equipment. The range includes relay test systems, current injection units from 100A to 6000A and high voltage systems up to 100kV.

The MCT1000 test system provides commissioning and protection engineers with a simple to use and highly accurate test system for checking the magnetisation curves of protective class current transformers.

Two output ranges (300V and 1000V) are provided, allowing a wide range of CTs to be tested with the unit. The MCT1000 has two large LED displays to simultaneously show true RMS output voltage and current. An output is also provided for an X-Y plotter, allowing for the easy identification of CT knee points.

The unit is compact and portable, and is supplied with an output lead and carrying bag.



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MCT1000 Specification

Output

The main output of the MCT1000 has two ranges.

	Output Voltage	Current (Continuous)	Current (5 min on/15 min off)
Range 1	0-1000Vac	0.75A	1.5A
Range 2	0-300Vac	2.5A	5A

Metering

The output is metered by two digital true RMS reading instruments. Two voltage and two current ranges are provided to match the output ranges. All ranges remain accurate with high crest factor waveforms.

Range	Full scale	Resolution	Accuracy	Max CF
Range 1				
Current	0-1.999A	0.001A	0.6% rdg+6d	5
Voltage	0-1000V	1V	0.6% rdg+6d	3
Range 2				
Current	0-19.99A	0.001A	0.6% rdg+6d	5
Voltage	0-300.0V	0.1V	0.6% rdg+6d	3

DC outputs are also provided for an X-Y plotter.

	DC output Full scale	AC input Full scale	Output Scaling	Max CF
Current	5V	5A	1V/A	5
Voltage	5V	1000V	5mV/V	3

The maximum ripple on the DC plotter outputs is 5mV p-p.

Supply Requirements

115V+6-10% 50/60Hz 1ph 1600VA max
220V±10% 50/60Hz 1ph 1600VA max
240V±10% 50/60Hz 1ph 1600VA max

Protection and Safety

A zero voltage interlock ensures that the output can only be switched on with the output control in the zero position.

The outputs are protected by electronic over current trips set at 110% of range. The unit is designed to comply with BSEN61010, and is CE marked.

Temperature Range

Storage -20°C to 60°C
Operating 0°C to 45°C

Dimensions

471mm x 191mm x 362mm

Weight

23.7kg

Accessories

Operating manual, o/p lead set, mains lead, spare fuses, carrying case.

Optional Accessories

X-Y Plotter lead.

Note: Due to the company's continuous research programme, the information above may change at any time without prior notification. Please check that you have the most recent data on the product.

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