



MICRO-OHM METER (CONTACT RESISTANCE METER)

Model: CRM100



RTS make Micro-Ohm Meter is suitable for automatic offline measurement of contact resistance of the switchyard equipments i.e. Circuit Breaker, Isolators, clamp/connectors, Bus Bar joints, in live switchyard up to 765kV level, as per applicable standard testing procedure of Power utility. The instrument is suitable for measurement of very small resistance of Shunts, cables etc.

The test results are repeatable, consistent & immune to electromagnetic interference in live switchyard up to 765 kV levels. The instrument can perform properly in both side ground open as well as one side ground open condition.

Duty cycle at 100A continuous current is 5 minutes to check / verify the healthiness of the contact.

Built-in Real Time Clock and memory as standard feature.

Technical Specification:

Particulars	Specification
No. of Channel	1 for contact resistance 1 for test current (internal)
Current Ranges	5, 10, 20, 50, 100A (user selectable) Continuous operation at 5, 10, 20, 50A output 5 min ON, 5 min OFF at 100A output
Resistance Range	20.00 $\mu\Omega$ to 1999.9m Ω (auto ranging)
Resolution	4½ Digits. Best resolution of 0.01 $\mu\Omega$ at 199.99 $\mu\Omega$ range
Accuracy	$\pm 0.1\%$ of reading $\pm 0.07\%$ of range
Display	240 x 128 pixels Graphic LCD display with backlit for Resistance & Current
Open Circuit voltage	5Vdc
Memory	Non-volatile memory to store 200 measurements
Real Time Clock (RTC)	Built-in RTC with stamping in Test Results
Printer	Built-in 2" thermal printer for taking printout at site (Optional)
Serial Port	RS232C for downloading stored data on PC
Key Pad	Alpha-numeric keypad for operation of kit
Indications	Current ON
Power supply	230V AC $\pm 10\%$, 50Hz $\pm 5\%$
Environment	0 to 50°C under live HV switchyard
Software	Necessary PC down-loading s/w provided
Casing	Instrument case
Instrument Protection	From Over temperature
Weight	12Kg (Approx.)

Standard accessories:

1. Test Leads: Current Lead (Cu-25mm²) – 2 nos.
Potential Leads (Cu-2.5mm²) – 2 nos.
Grounding Lead – 1 no.
2. Power Cord
3. Operation Manual
4. Calibration Certificate

Optional Features / Accessories:

1. Thermal Printer: Paper width 2"

REAL TIME SYSTEMS

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