

Contact Resistance Meter

Model: CRM100



Real Time systems Contact resistance Meter is suitable for automatic offline measurement of contact resistance of the switchyard equipments i.e. CB, Isolators, clamp/connectors, joints, in live switchyard up to 765kV level, as per applicable standard testing procedure of Power utility.

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 10 minutes to check / verify the healthiness of the contact.

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

Technical Specification

Model	CRM100
Current Ranges	100A / 50A / 20A / 10A
Resistance Ranges	20.0 $\mu\Omega$ to 10.00m Ω (auto ranging)
Resolution	3½ Digits. Best resolution of 0.1 $\mu\Omega$ at 199.9 $\mu\Omega$ range
Accuracy	$\pm 0.5\% \pm 2$ digits $\pm 1\% \pm 2$ digits
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 (Optional)
Serial Port	RS232C for downloading stored data on PC
Key Pad	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	Plastic moulded carrying case
Protection	Over-temperature

Note: CRM100 must be used with factory supplied Test Leads

Accessories:

1. Test Leads: Current Lead (Cu-25mm²) – 2 nos. (15mtrs each)
Potential Leads (Cu-2.5mm²) – 2 nos.(15mtrs each)
Grounding Lead – 1 no. (3 mtrs)
2. Power Cord
3. Operation Manual
4. Calibration Certificate
5. Thermal Printer (optional)



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