

CRM 100A

Contact Resistance Meter



Features

- Selectable Current 10A,20A,50A & 100A
- 0.1 $\mu\Omega$ Resolution
- 20m Ω Resistance range
- Internal Memory for 99 Results
- Software for report generation & trending analysis



Description

The Motwane make Contact Resistance Meter- CRM-100A is a digital micro ohmmeter, designed to measure extremely low resistances. The Instrument is based on the proven 4-wire measurement method for low resistances to eliminate the effect of lead resistance of two wire method. The instrument is designed to replace complex bridge set up with a single compact unit. The D.C current injection in continuously adjustable between 10A to 100A. The testing information is displayed on large LCD with backlit, real time data is displayed during the test ON condition. The instrument gives a high resolution of 0.1 $\mu\Omega$ on 200 $\mu\Omega$ resistance range. The instrument is easy to operate and user friendly. Accessories are rugged and come with heavy duty clips for better grip on test object. The kit and accessories are housed in a trolley mounted casing for easy transportation. Advanced Dot Net based software is provided for data downloading, analysis and report generation. The instrument can be operated through software from a remote location. Internal memory is provided for onsite data storage

Applications

CRM-100A has a large application for direct and indirect measurements in various industries and manufacturing facilities. High accuracy makes it a reliable tool for Quality Assurance and easy operation makes it a very handy tool for quick maintenance checks for process industries

Typical resistance measurement applications are:

- Circuit Breaker contact resistance
- Electrode resistance measurement
- Bus bar joints
- Isolator contacts
- Cable drum resistance measurement
- Cable splice
- Weld joints
- Bond resistance



Technical Specification

Output Current

DC Test Current : 10A, 20A, 50A & 100A
Accuracy : 5%
Open Circuit Voltage : 5V DC

Resistance Measurement

Resistance ranges	200 $\mu\Omega$	2m Ω	20m Ω
Resolution	0.1 $\mu\Omega$	1 $\mu\Omega$	10 $\mu\Omega$
Accuracy	$\pm(0.5\% + 5 \text{ digits})$		

Operation Time

Continuous Operation up to 50A
4 minutes-ON and 10 minutes-OFF for 100A

Display

3½ digit large LCD display

PC interface

USB for data transfer

Warning

Audio Visual Indication for Test ON Operation
Indication on Mains ON Operation
Blinking display for Over range indication

Power Supply

230V, 50Hz $\pm 10\%$

Environment

Operating Temperature: 0°C to 55°C
Storage Temperature: -10°C to 55°C
Humidity: < 90% RH, Non condensing

Physical

Dimensions (DxWxH in mm) : 365 x 426 x 178
Weight : 12 Kg

Accessories

Standard

- Output lead Set 4 X 10m
- Mains Cord
- Mains Protection fuse 5A
- User Manual
- Calibration Certificate
- Carrying Case

Optional

- Software CD
- USB Cord



Notes

1. The Instrument is accompanied with Test & calibration sheet. 2. Test Facilities can be provided at the factory with the available test set-ups only. 3. The company's policy is continuous improvement of its products. We therefore reserve the Right of any deviation from illustration or specifications without notice. 4. Stated accuracies are valid from 10% of the range to 95% of the range. 5. Accuracy Specified for temperature range of 25°C $\pm 5^\circ\text{C}$ & 55% RH $\pm 10\%$



Designed and Manufactured by:

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