

PCRM 200S

Contact Resistance Meter



Features

- 100A /200A DC selectable test current
- Resistance range : 0.1 $\mu\Omega$ to 20m Ω
- Direct mV drop reading
- Built in thermal printer
- Internal memory of 199 test results
- Mains and Battery operated
- USB interface for data transfer
- LED indication for Mains/Battery/LOBAT
- Calibration due indicator
- Dual Grounding Facility
- Bluetooth connectivity via Motware app
- IP 54, CE

The Motwane make Contact Resistance Meter (Model:PCRM-200S) is a digital micro-ohmmeter, specially designed to measure extremely low resistances in micro ohm. The Instrument is based on Kelvin 4- wire connection method for measurement of low resistance.

The Current injection is 100A/200A. Test information like current injected with measured resistance & voltage drop is displayed with real time data on large LCD with backlit.

This User friendly Instrument and it's accessories are housed in easy transportation case. Advanced Windows based software is provided for data downloading, analysis and report generation. Internal memory of 199 records is provided for onsite data storage. Thermal printer is the additional feature provided to print the test results.



Applications

PCRM-200S is specially used to measure static contact resistance of HT / LT circuit breaker contacts installed in energised switchyards. High accuracy and repeatability makes it a reliable tool for Quality Assurance and easy operation makes it a very handy tool for quick maintenance checks in various industries.

Typical resistance measurement applications are:

- Circuit Breaker contact resistance
- Bus bar joints
- Isolator contacts
- Weld joints
- Bond resistance

Technical Specification

Test Current Injection	: 100A & 200A DC
Test ON Alert	: BEEP
Range & Resolution	: 20 $\mu\Omega$ with 0.1 $\mu\Omega$ 200 $\mu\Omega$ with 0.1 $\mu\Omega$ 2000 $\mu\Omega$ with 1 $\mu\Omega$ 20m Ω with 0.01m Ω
Measurement Principle	: Four wire measurement
Basic Accuracy	: $\pm 2\%$ of reading, ± 5 digits
Memory Storage	: 199 reading storage facility.
Computer Interface	: USB
Thermal Printer	: For printing the test results.
Display	: Custom Built 3 1/2 digit LCD Display with Backlit.

Physical Specifications

Enclosure Material	: Industrial grade Polypropylene
Dimensions (DxWxL)	: 188mm x 395mm x 502mm
Weight	: 13 Kg

Power Supply

Mains	: 115V-230V, 50Hz / 60Hz Single phase AC supply
Battery	: Rechargeable Li-ion
Power Consumption	: 35VA, 6.0 Watt on battery .

Environmental

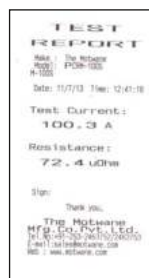
Operating Temperature	: 0°C to 55°C.
Storage Temperature	: 0°C to 50°C.
Humidity	: less than 95% RH, Non condensing.

Safety Standards

Safety	: According to EN 61010 - 1
EMC	: According to EN 61326 - 1
IP Rating	: IP 54
Measurement Category	: CAT II
CE certification	: LVD: 2006/95/EC
EMC certification	: 2004/104/EC.

Software Details

Type	: Windows based software
Interface	: USB
Data Transfer	: Real Time Data
Internal DataStorage	: 199 Test results
Features	: Remote Operation Data down loading Analysis and report generation



Sample Print Report



Sample Software Template

Accessories

Standard Accessories

- 15 meter lead set with C Clamp 75mm opening
- Master Earthing Cable (7 meter)
- Mains power cord
- User Manual
- Calibration Certificate
- Thermal Paper Role
- Spare Fuse (250mA/250V slow blow)

Optional Accessories

- 22 meter lead set with C Clamp 150mm jaw size
- 15 meter heavy duty lead set with alligator clip
- Software and USB Cord
- Bluetooth connectivity via Motware app

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°C & 55% RH \pm 10%



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