

Electrical Test & Measurement Instruments





LR2065-S

Micro Ohm Meter

CAT III	IP	CE	USB	Bluetooth
600V	51			

Motwane's Digital micro ohm meter LR2065-S with maximum 10A DC current injection is useful for the measurement of very low resistance in micro Ω as low as $0.1\mu\Omega$. Mains cum rechargeable battery operated LR2065-S, works on the proven principle of 4-wire measurements. The LR 2065S is having 4.5 digit LCD display with resistance measurement range from $2m\Omega$ to $20K\Omega$, with minimum resolution of $0.1\mu\Omega$. The pulse mode operation is an additional feature. The LR2065S can be used for measuring resistance of cables, wires, PCB Relays, LT bus-bar, Graphite electrode, Quality testing of resistive components, Low capacity motors etc.

LR2065-S has Bluetooth connectivity module with Motware mobile app for remote access of testing data & storage at cloud for further analysis & record purpose.

Features

- ✓ 4.3" Color TFT display with backlight
- ✓ **Resolution $0.1\mu\Omega$ on $2m\Omega$ range**
- ✓ Best Measurement **Accuracy of $\pm 0.03\%$**
- ✓ Mains cum Battery operated.
- ✓ High measurement current (10A) for faster settling of measured values on low resistance.
- ✓ True 4 wire resistance measuring technique
- ✓ Pulse Mode, Auto Hold Operation.
- ✓ Low Battery indication to prevent deep discharge of internal recharging battery.
- ✓ Temperature Measurement & Correction
- ✓ Pass/Fail limit
- ✓ Inbuilt thermal paper printer
- ✓ Bluetooth interface and cloud connectivity through MOT-WARE App

Applications

The equipment is used for quality checks, routine inspections, quick maintenance work across various industrial applications, and is suitable for design verification, testing, maintenance, QC/QA activities, as well as production use.

- Cables (cross-section below 200 sq mm)
- Transformers (up to 10MVA, dry type)
- Motors (up to 150HP or 110kVA)
- Generator (10kVA to 50kVA)
- Relays
- PC Boards
- Bus Bars
- Contactors
- Weld joints
- Electrodes
- Electronic components (circuit breakers, fuses, shunts, resistive parts, conductive elements, etc)

Technical Details

LR2065-S

Printer	Built in Thermal Printer
PC Interface	USB
Report Storage	1000 Reports
Temperature correction	Manual entry or Temperature Probe
Temperature Channel	1
Dimensions	368 mm(L) X 283 mm(W) X 188 mm(H)
Net Weight	6.0Kg Approx.

Environmental

Operating Temperature	0°C to 55°C
Storage Temperature	-10°C to 60°C
Relative Humidity	95 % RH at 40°C max. (Non Condensing)

Power

Mains Power Supply	Mains Input Voltage 110/230 Volt AC $\pm 10\%$, 50/60Hz
Battery Power Supply	Li-Ion Battery 14.8 V

Electrical Specifications

Test Current Injection	10A, 1A, 100mA, 10mA, 1mA, 100 μ A
Test ON Alert	BEEP

Resistance Range

Range	Max Reading	Resolution	MAX CURRENT	ACCURACY 3 (%RDG + DIGITS)
2m Ω	1.9999m Ω	0.1 $\mu\Omega$	10A	± 0.03 % of reading ± 4 digits
20m Ω	19.999m Ω	1 $\mu\Omega$	1 A	± 0.03 % of reading ± 4 digits
200m Ω	199.99m Ω	10 $\mu\Omega$	100mA	± 0.03 % of reading ± 4 digits
2 Ω	1.9999 Ω	100 $\mu\Omega$	10mA	± 0.03 % of reading ± 4 digits
20 Ω	19.999 Ω	1m Ω	100mA	± 0.03 % of reading ± 4 digits
200 Ω	199.99 Ω	10m Ω	10mA	± 0.03 % of reading ± 4 digits
2000 Ω	1999.9 Ω	100m Ω	1mA	± 0.03 % of reading ± 4 digits
20K Ω	19999 Ω	1 Ω	100 μ A	± 0.03 % of reading ± 4 digits

Safety

Measurement Category: CAT II (1000V)/CAT III (600V)
Reinforced insulation, IP 51
Relevant Standard Specifications: Safety According to EN 61010-1, EMC According to EN 61326-1

Accessories

Standard

■ Test Lead set (Kelvin) 2 meter	: 1 Set.
■ Test Lead set (Crocodile) 2 meter	: 1 Set.
■ Mains Power Cord	: 1 No.
■ Mains Protected Fuse 1A	: 1 No.
■ Current Protection Fuse 15A	: 1 No.
■ Thermal Paper roll	: 1 No.
■ Instruction Manual	: 1 No.
■ Calibration Certificate	: 1 No.
■ USB cable	: 1 No.
■ Temperature probe	: 1 No.
■ Pen drive	: 1 No.

Optional

■ MCRM wire test jig with wooden base	: 1 No.
■ Bluetooth Software	
■ MOT-WARE Desktop Application	

ORDERING INFORMATION

Product	Order Code
LR2065-S with Standard Accessories	109291010

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 includes continuous improvement of its product. 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 $\pm 5^\circ$ C & 55% RH $\pm 10\%$.

Contact Details

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