



## Digital Insulation Tester **D2K-M**

### FEATURES

- Selectable multi test voltages 100V , 250V , 500V and 1000V DC .
- Resistance Measurement up to 2000 M ohms in two ranges 200M $\Omega$  & 2000M $\Omega$  on all test voltages.
- SHOCK , DROP and DUST proof .
- Special type of Low noise leads to eliminate use of separate guard lead.
- Additional AC voltage measurement function up to 750V AC (50 Hz to 500 Hz) sine wave .
- High Voltage indication by LED for user safety .
- Auto discharge of capacitive load .
- Automatic zeroing , no need to short Earth & Line Terminal.
- Recessed Terminals & Shrouded Leads for enhanced user safety .
- Linear and Accurate reading .
- Long life Re-chargable battery operated with charger .

## GENERAL SPECIFICATIONS

DISPLAY	: 3½ digit LCD, 1999 counts, 'LO BAT' indication
OVER RANGE INDICATION	: "1" is displayed in most Significant digit.
DIELECTRIC STRENGTH	: Withstands 1 min after application of 2000 V AC (rms) between measuring terminals and the case.
<b>ENVIRONMENT :</b>	
TEMP COEFFICIENT	: ± 0.2% / °C
OPERATING	: 0 TO 55°C < 90% RH at 40°C non condensing
STORAGE	: -10 to 70°C, < 90% RH at 40°C non condensing
<b>PHYSICAL:</b>	
DIMENSIONS	: 100mm(W)x180mm(H) x 54 mm(D) Approx WEIGHT : 0.5 Kg. Approx.

## ELECTRICAL SPECIFICATIONS

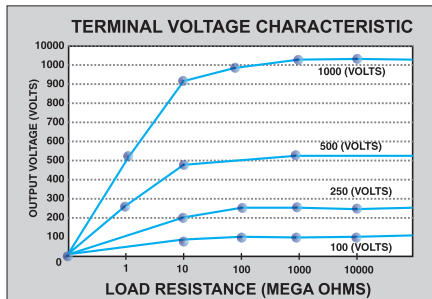
<b>RESISTANCE</b>	
Ranges	: 200 MΩ and 2000 MΩ
Accuracy	: ± 2% ± 5digits (from 10% to 90% of the range )
<b>OUTPUT VOLTAGE</b>	
Ranges	: 100V/250V/500V and 1000V DC
Accuracy	: ± 5% (with 1000MΩ i/p impedance probe)
Short Circuit Current	: 1mA approx for all Test Voltages
<b>AC VOLTAGE MEASUREMENT</b>	
0 to 750V at 50Hz to 500Hz : (± 5%+ 5digit)	
<b>POWER SOURCE</b>	
Operates from internal rechargeable battery	
Battery Life	: 1 to 3 hours for load from 20 to 2000 MΩ
Charging Time	: 16 hours

## DESCRIPTION

The Digital Insutester® D2K-M is a compact, light weight 3½ digit Insulation Tester. It operates from an internal rechargeable battery thus eliminates recurring cost of frequent battery replacement. The Insutester® is equipped with selectable test voltages of 100V, 250V, 500V & 1000 V DC available with resistance ranges of 200MΩ & 2000MΩ, combining the ranges of various conventional hand cranking insulation testers. The instrument offers unprecedented accuracy of 2% and is designed to withstand extreme environmental conditions. The Insutester® is housed in a robust moulded ABS case for shock resistance, and its dust resistant construction keeps out contaminants for high reliability. The performance of the D2K-M is evaluated at Government accredited Regional Test Laboratory.

## APPLICATION

The Insutester® D2K-M will find applications in electrical contracting, both on domestic and industrial systems and onsite maintenance departments. It is suitable for insulation measurements during installation, servicing and maintenance work. The instrument is ideal for testing Transformers, Motors, Generators, Switch Gears, Domestic Appliances, Power Tools, Power Cables etc. as well as fixed wiring systems. By virtue of its capability to take fast reading, it is well suited to test relays, switches and contactors. The D2K-M can also be used for QA testing of PCB's, capacitors and insulating materials. Suitable for Cable Industries where testing is carried out at 100V.



## STANDARD ACCESSORIES

1. A set of low noise one meter long leads with multipurpose with crocodile clip.
2. Battery charger.
3. Instruction Manual.
4. Test lead pair for AC Voltage Measurement.

### 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 1/10th of range to FS.
5. Accuracy Specified for temperature range of 25°C ± 5°C & 55%RH ± 10%.



# The Motwane Manufacturing Company Pvt. Ltd.

REGD. OFF. & FACTORY : Gyan Baug, Motwane Road, Nashik Road-422101

Tel.: +91 - 253 - 2463752 / 53 Fax.: +91 - 253 - 2463197 e-mail: sales@motwane.com Toll Free No.:18002332222

MUMBAI : 223-224, MIDAS, Sahar Plaza, Andheri - Kurla road, J. B. Nagar, Andheri (E), Mumbai – 400059

TEL: +91-22-40155585 / 6 / 7 FAX: +91-22-40155588 e-mail: mumbai@motwane.com

DELHI : 2 D, 2nd Floor, Vandana Building, 11, Tolstoy Marg, Cannaught Place, New Delhi - 110 001

Tel.: +91 - 11 - 41522 105 Fax.: +91 - 11 - 41522 106 e-mail: delhi@motwane.com

BANGALORE : #8 / 12, 3rd Floor, Honnam Complex, South Cross Road, Basavanagudi, Bangalore - 560 004.

Tel.: +91 - 80 - 26611323 Fax.: +91 - 80 - 26621186. e-mail: bangalore@motwane.com

KOLKATA OFFICE : Eden Terrace , 10 , Tarak Datta Road, Near Beck Bagan Methai, Kolkata – 700019.

Tele Fax : +91-33-22832436. FCT Land Line : +91-9007791374. E-mail:Kolkata@motwane.com

To make enquiry please visit  
[www.motwane.com](http://www.motwane.com) and click  
'Make an enquiry'.

Represented by



we have a solution.....

DBS/PC/IR-01/Rev-02