

# 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 200MΩ & 2000MΩ 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	: $\pm 0.2\%$ / $^{\circ}\text{C}$
OPERATING & RELATIVE HUMIDITY	: 0 to 45 $^{\circ}\text{C}$ <90% RH at 40 $^{\circ}\text{C}$ non condensing
STORAGE & RELATIVE HUMIDITY	: -10 to 70 $^{\circ}\text{C}$ , < 90% RH at 40 $^{\circ}\text{C}$ non condensing
<b>PHYSICAL:</b>	
DIMENSIONS	: 100mm(W)x180mm(H) x 54 mm(D) Approx WEIGHT : 0.5 Kg. Approx.

## ELECTRICAL SPECIFICATIONS

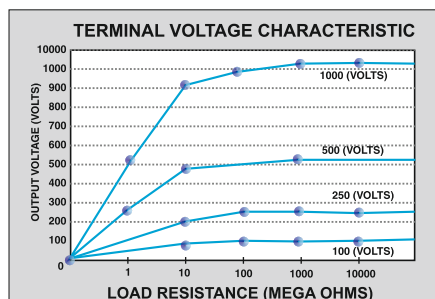
<b>RESISTANCE</b>	
Ranges	: 200 M $\Omega$ and 2000 M $\Omega$
Accuracy	: $\pm 2\% \pm 5\text{digits}$ (from 10% to 90% of the range)
<b>OUTPUT VOLTAGE</b>	
Ranges	: 100V/250V/500V and 1000V DC
Accuracy	: $\pm 5\%$ (with 1000M $\Omega$ i/p impedance probe)
Short Circuit Current	: 1mA approx for all Test Voltages
<b>AC VOLTAGE MEASUREMENT</b>	
0 to 750V at 50Hz to 500Hz : ( $\pm 5\% + 5\text{digit}$ )	
<b>POWER SOURCE</b>	
Operates from internal rechargeable battery	
Battery Backup	: 1 to 3 hours for load from 20 to 2000 M $\Omega$
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 200M $\Omega$  & 2000M $\Omega$ , 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 crocodile clip.
2. Battery charger.
3. Instruction Manual.
4. Test lead pair for AC Voltage Measurement.

we have a solution....

### 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 $^{\circ}\text{C} \pm 5^{\circ}\text{C}$  & 55% RH  $\pm 10\%$

Designed and Manufactured by:

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