

Users manual
DIGITAL STATIC METER
(Model: DSM-01)

Static meters are ideal instruments for measuring the magnitude and polarity of electrostatic potentials commonly encountered in development laboratories, electronic manufacturing areas, printing press, packing and production lines, etc.

The model DSM-01 is a light weight non-contacting static meter to measure static voltages with a polarity on objects & surfaces. The unit gives direct readings of electrostatic potentials on any surface, when held at a distance of 1 inch. However, virtually higher electrostatic potential can be measured by proportionately increasing the distance from the meter to the charged object. The instrument features large display with a very low drift circuit to give measurements.

MEASURING PROCEDURE:

Put the ON – OFF switch to ON Position. First press the PRESS TO READ switch on the meter, bring the instruments towards the object at one inches now display reads from the 0.00 to +/-10.00 KV, For Example

| Reading | x Distance | = Static voltage |
|----------------|-------------------|-------------------------|
| 3.30 KV | 1 Inches | 3.30 KV |
| 9.09 KV | 1 Inches | 9.09 KV |

If the value is more (i.e., Over range LED indicates), Release the PRESS TO READ switch.

Again press the PRESS TO READ switch on the meter, bring the instruments towards the object at two inches now display reads from the 0.00 to +/-10.00 KV, For example

| Reading | x Distance | = Static voltage |
|----------------|-------------------|-------------------------|
| 3.30 KV | 2 Inches | 6.60 KV |
| 9.09 KV | 2 Inches | 18.18 KV |

If the value is more (i.e., Over range LED indicates) even at 2 inches, Release the PRESS TO READ switch, The same procedure can be conduct for three inches.

SPEFIFICATIONS:

- Measurement Range : +/- 10.0 kV @ 1 Inch,
+/- 20.0 kV @ 2 Inch,
+/- 30.0 kV @ 3 Inch.
- Accuracy : +/-10%
- Indication : 3 ½ Digit LCD Display
- Resolution : 10 Volts
- Over Range : by an LED Indication
- Power supply : 9 Volt Battery
- Low Battery : On LCD "BAT" indicates low battery
- Calibration : Recommended every 12 months
- Dimensions : 135 x 70 x 25 mm & Weight: 160 gms (with battery)
- Warranty : 12 Months
- Accessories : Carry case.

MAINTENANCE: Apart from routine battery replacement, this Static meter is designed to be completely maintenance free. There are no parts inside which can be replaced by the user himself. In case of malfunction, kindly refer to manufacturer or his authorised personnel. The instrument can be cleaned with a damp cloth. Never use solvent as they may damage the plastic case.

DATA SHEET
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| Accuracy | : +/-10% |
| Indication | : 3 ½ Digit LCD Display |
| Resolution | : 10 Volts |
| Over Range | : By LED indication |
| Test Actuation | : Press to Read |
| Power supply | : 9 Volt Battery |
| Low Battery | : On LCD " BAT " indicates low battery |
| Calibration | : Recommended every 12 months |
| Traceability | : To National Standards |
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Note: The specifications mentioned in this datasheet are subject to change without prior notice due to our continuous research of product development, Buyer or User should decide the suitability of the product for the intended application.