

VECTECH 497

Static Check Meter

1. Summary

This unit is a new style, unique and intuitionistic meter which can check and discharge electrostatic on human body. It is reliable, portable design and easy to use. The meter can be wall mounted outside ESD protected area to display the electrostatic on human body and discharge electrostatic when entering the ESD protected area. It is also effective in detecting the electrostatic potential difference between two persons and checking whether the personnel ground straps, coil cords, ground pin, special floors, anti-static dope, and anti-static clothing etc. are effective or not.



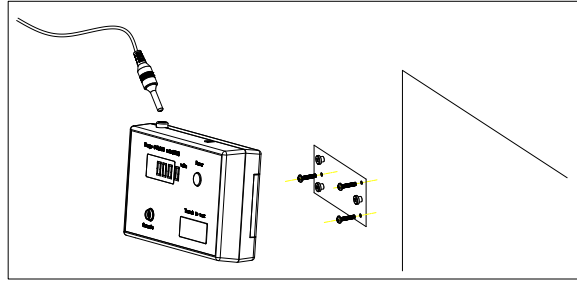
2. Specification

| | |
|------------------------|---|
| Accuracy: | $\pm 5\%$ ± 1 digit ($0 \pm 10000V$) |
| Operating Temperature: | $0 \sim 50^{\circ}C$ |
| Power supply: | 9VDC Battery (or AC coupling adapter and its output voltage is $9 \sim 12VDC$) |
| Output: | LCD Digit Display |
| Dimension: | $160mm \times 100mm \times 40mm$ |
| Weight: | About 0.4Kg |

3. Installation

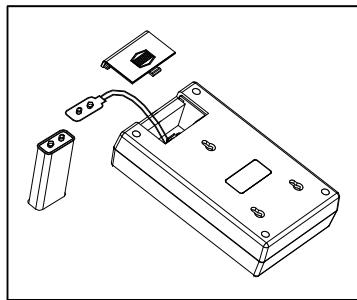
Take out the meter and check whether it is broken or not.

Select an orientating plate and install orientating poles on it according to the size and position of the orientating holes on the back of the meter. And then mount the orientating plate on the wall and hang the meter on it directly.



4. Replace battery

The battery can be easily replaced by removing the battery case on the back of the meter and replace a new 9V DC battery. (An AC coupling adapter (output voltage is 9~12V) also can be used.)



5. Test

Meter must always be grounded to provide an accurate reading and to allow for instant discharge to safe handling limit. Connect the plug of grounding wire into the grounding jack on the unit and the other terminal is connected to earth. Press “POWER” button to test the static charge carried by human body.

Test person’s electrostatic:

Touch the stainless steel testing board with hand and the display value is the electrostatic on body. If you need to discharge the electrostatic, please touch “Ground” socket and the electrostatic will be discharged.

Test the electrostatic potential difference between two persons:

One person touches the testing plate and not releases, the other person also touches the testing board. Here, the display value is the electrostatic potential difference between two persons.


Test the wrist strap:

Before testing, rub foot on the floor and touch the testing plate. If the wrist strap is not well grounded, the meter will display the value of electrostatic.

Display value of the static check meter:

The voltage range of the meter is from 0V to 19990V (HBM Mode). “0” printed on panel means “1” digit, so the final Voltage value = Value displaying on LCD X 10.

It can be used to test the voltage of “+” and “-” polarities. When displaying “-”, it means negative voltage, and when not displaying “+” or “-” means positive voltage.

 **Warning:** The meter must ground reliably when using or checking some values between 0~19990V.