

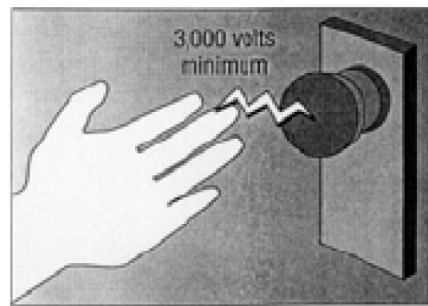
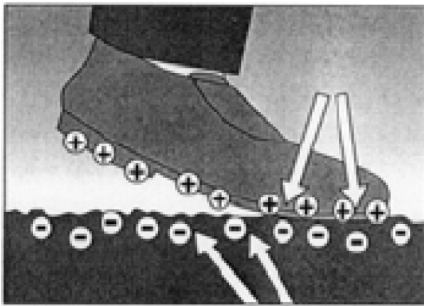
HUMAN BODY VOLTAGE CHECKER

(Model: SC-02)

WHAT IS STATIC ELECTRICITY: Static electricity is an electrical charge that is at rest, as opposed to electricity in motion or current electricity. Static charges can be generated by either friction or induction.

HOW IS GENERATED: The most common generation of static charge is the triboelectric charge or the friction electricity developed when rubbing tighter and then separating two masses. For example, when two blocks are rubbed tighter and then separated, a triboelectric charge is developed on each block. The two blocks will have opposite polarities; one will be negatively charged and the other will be positively charged.

STATIC GENERATION FROM THE CARPET: When a person walks across a carpet or tile floor, a triboelectric charge builds up in the body due to the friction between the shoes and the floor material. The more you generate this friction static the greater the voltage potential develops in the body, you are acting as a capacitor.



Everyone's capacitance to hold charges is different. However a sure sign of static presence is hair standing on end or static discharge sparks. Static discharges can be noticed when you touch an object of lower electrical potential such as a doorknob, and a bolt of electricity flows from your charged body to the knob. This flow of electricity is actually a result of the stored static charge that is being rapidly discharged to the lower potential object. This discharge that can be felt as well as seen, is commonly referred to as an electrostatic discharge, or "ESD"



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Human Body Voltage Checker is a new and unique visual method of detecting how much static charge a person is carrying. The unit can be wall mounted outside the ESD protected area to avoid charged persons unknowingly entering, or used by operators to periodically check that they are not creating a charge within the protected area.

It is very simple to use and only requires the personnel under test to touch the plate on the instrument and directly read the charge level on the meter. Apart from the measuring the charge, it can also be used to safely drain away the charges Existing on the body.

It has a feature of visual and audible warning when it detects voltage over a certain threshold.

IMPORTANT INSTRUCTIONS:

The instrument must always be connected to ground; not grounding the unit can result in inconsistent results. If the Human Body Voltage Checker is not grounded, a charge is retained just as an insulator would retain a charge and therefore the readings are inconsistent. The circuit will only become responsive when you offer a path to ground.

APPLICATION:

1. Human Body Voltage Checker can be used to detect how much static a person is carrying.
2. Human Body Voltage Checker will audit any potential static generator or dissipater, like. Wrist straps, heel grounders, toe straps, static safe shoes, chairs, floor mats, ground leads, purpose built floors, garments, static sprays, floor finishes, etc....



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SPECIFICATIONS:

Dimension	: 180 X 100 X 45 MM
Weight	: 320 Grams (With battery)
Indicating Range	: +/- 1999V
Display	: 3 ½ Digit LCD Display
Resolution	: 1 Volt
Accuracy	: 10%
Test Surface	: S.S. Plate
Power Supply	: 9V Battery
Calibration	: Recommended once in 12 months
Warranty	: 12 Months
Accessories	: Instruction Board with Instrument Fixing Clamp & 1 Meg Ohms Molded Grounding Cord.



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