

Users manual  
**PERSONNEL STATIC TESTER**  
(Model: PST-01)

The Model PST-01 is designed to measure the static Voltages carried on a personnel. It is a precession instrument to verify whether Personnel entering an ESD safe area are carrying any hazardous charges on themselves.

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 in volts on the meter. Apart from the measuring the voltages, it can also be used to safely drain away the charges from the personnel. The instrument has a special feature of visual and audible "HAZARD" indication when it measures more than +/-100V. It is very quick and convenient method to check personnel voltages.

**IMPORTANT NOTE:** The instrument must always be connected to ground. Not grounding the unit can result in inconsistent results. The circuit will only become responsive when you offer a path to ground.

**OPERATION:** Place the finger on the 'TOUCH TO TEST' plate on the tester. Watch the display, depending on the humidity and types of shoes/slippons, indication between 000 to +/- 1999 Volts of static charge may be displayed. If the person is carrying more than 100Volts, it indicates "HAZARD" led indication with buzzer sound.

To Discharge the Body Voltage to the ground, continuously touch the TOUCH TO TEST plate until the body voltages discharges to the ground. (Ie, until hazard alarm goes off). Again touch the "TOUCH TO TEST" Plate on the tester. Reading must be 000 Volts on the LCD.

However, it is quite normal the instrument to display a few volts due to stray electromagnetic or static fields and can be ignored. This in no way affects the accuracy of the instrument.

Moreover the tester will audit any potential static generator or dissipater, like. Wrist straps, heel grounders, toe straps, static safe shoes, floor mats, etc....

**WRIST STRAP TEST:** connect the wrist strap jack to the instrument with the strap on the wrist. Shuffle your foot while touching the "touch to test" plate. If the wrist strap and cord are okay the reading displayed on instrument will be "000" volts on the LCD. Disconnect the wrist strap from the cord and repeat the test while touching the plate by shuffling your foot again. Depending on the humidity and types of shoes, person static charge may be displayed.

**FOOT WEAR TEST:** Hold the instrument with thumb or fingers making contact with the "touch to test" plate. Wearing heel or toe grounders or appropriate footwear, shuffle your foot while still making contact with the rectangular plate. If you have properly grounded the floor, the reading on the LCD will be "000". Try the same test on a known Insulative floor with the same footwear, shuffle your foot again and see that even with perfectly good footwear a charge can be generated on an Insulative floor.

**SPEFIFICATIONS:**

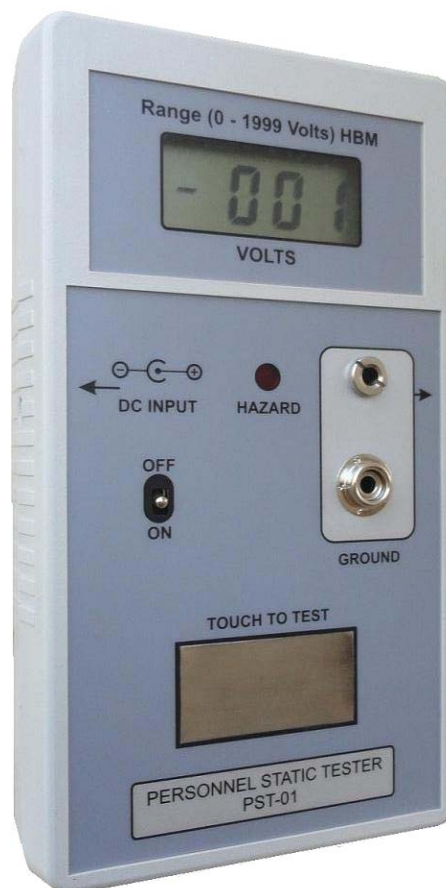
|                   |                                                                  |
|-------------------|------------------------------------------------------------------|
| Range             | : +/-1999V                                                       |
| Hazard Indication | : Visual and audible alarm if voltage exceeds +/-100V            |
| Indications       | : 3 ½ Digit LCD display with polarity indication                 |
| Resolution        | : 1 Volt                                                         |
| Accuracy          | : +/- 10%                                                        |
| Test actuation    | : Touch To Test                                                  |
| Power supply      | : 9V DC Adopter or 9V Battery                                    |
| Low battery       | : indicates at < 7 V on Display                                  |
| Dimensions        | : 180 X 100 X 45 MM                                              |
| Weight            | : 300 Gms (with battery)                                         |
| Calibration       | : Recommended every 12 months                                    |
| Warranty          | : 12 Months                                                      |
| Accessories       | : 9V DC Adopter, Instruction board, Grounding cord & Carry case. |

DATA SHEET  
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One of the most common causes of electrostatic damage is the direct transfer of electrostatic charge from the human body. When one walks across a floor, an electrostatic charge accumulates on the body. Simple contact of a finger allows the body to discharge, possibly causing device to damage.

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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 in volts on the meter. Apart from the measuring the voltages, it can also be used to safely drain away the charges from the personnel. The instrument has a special feature of visual and audible "HAZARD" indication when it measures more than +/-100V. It is very quick and convenient method to check personnel voltages.



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...continued

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| Dimensions        | : 180 X 100 X 45 MM                                              |
| Weight            | : 300 Gms (With battery)                                         |
| Calibration       | : Recommended every 12 months                                    |
| Traceability      | : To National Standards                                          |
| Warranty          | : 12 Months                                                      |
| Accessories       | : 9V DC Adopter, Instruction board, Grounding cord & Carry case. |



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.