

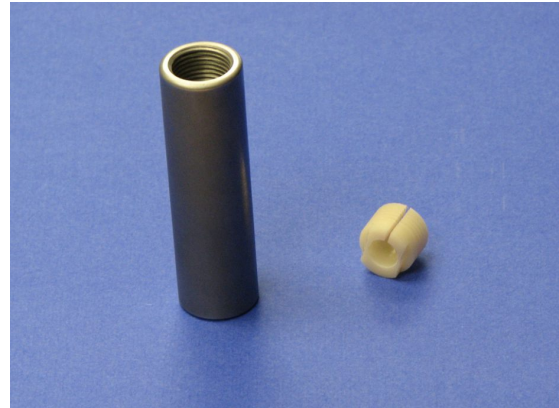
Walking Test Adapter Kit

Accessory for Advanced Energy Trek 541A Electrostatic Voltmeters

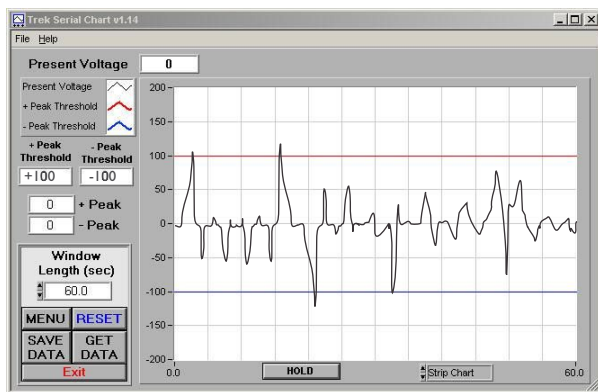
The walking test adapter kit [CN 1K037] for the Trek 541A series allow analysis of charge levels accumulated on the human body per compliance with ANSI/ESD STM 97.2. and IEC Standard 61340-4-5. The electrostatic charge and the ability for charge accumulation of a person walking on an ESD safe floor with ESD safe footwear can be measured with a walking test adapter. This test, in addition to data from standard resistance measurements, provide measurement data on the actual charge on a person while walking. This test ensures ESD safe practices are being implemented properly and that charge is being maintained under the maximum allowed voltages (typically less than 100V as per ANSI/ESD S20.20-2007, IEC 61340-5-1:2007, and IEC 61340-5-2:2007).



Trek 541A with Probe



Walking Test Case and Probe Holder Cap



Computer software captures real time data or saves it for later analysis. Trek Model 541A electrostatic voltmeters are microprocessor based electrostatic voltmeters and utilize a miniature electrostatic field chopper probe to provide highly accurate, noncontacting, DC stable, spacing independent, voltage measurements in either ionized or non-ionized environments.

A twenty by four (20 x 4) alphanumeric LCD screen displays the present measured voltage, the positive peak voltage value, the negative peak voltage value, and additional menu information. Two specific voltage detection ranges are available.

The Model 541A-1 has a voltage measurement range of 0 to ± 1 kV. The Model 541A-2 has a measurement range of 0 to ± 100 V. Both instruments have exceptional 1% accuracy and 0.1% resolution.

The Model 541A series includes independently programmable plus (+) and minus (-) voltage threshold/alarm limits to provide audible, visual, and external warning signals. Audible and visible alarms indicate the detection of programmed surface voltage limits. A relay contact output changes state when alarm thresholds are met or exceeded. This signal can be connected to a process controlling device or other equipment to monitor a particular environment. A voltage output monitor and the 4-20 mA current loop output can provide additional signal interfacing to facility monitoring equipment. An RS-232 serial port can provide computer based control and monitoring.