



STATCLEAN TECHNOLOGY (S) PTE. LTD.

30 Kaki Bukit Road 3, # 03-12/13/14, Empire Technocentre, Singapore 417819.

Tel: 65-6746 2706 Fax: 65-6746 3045 / 65-6746 3755

Email: sales@statclean.com Website: www.statclean.com

RT-1000 Megohmmeter (STME-RT1000)

Applications

The Ohm-Stat™ RT-1000 Megohmmeter measures **Surface Resistivity** using parallel electrodes and concentric rings. **Tests Resistance To Ground (RTG), Resistance between Two Points (RTT), Volume Resistance** using two 5lb. 2.5" disc probes, and **humidity** and **temperature** during the resistivity-resistance testing. Ohm-stat™ RT-1000 tests each sleeve of a garment for continuity in addition to performing **dissipative seating** tests.

Conforms to ANSI/EOS/ESD (S4,S7.1,S12,S2.1), ASTM-F150, and NFPA 99A standards. The Ohm-Stat™ RT-1000 Megohmmeter is designed to quality inspect incoming materials such as floor finishes, floor mats, table mats, conductive floor tiles, work surfaces, paints, bags, wrist straps, common point ground cords, footwear, packaging materials, clothing, and ESD chairs in static controlled areas.

Applications include engineering, maintenance, quality control, incoming inspection, manufacturing, and training.

Major Specifications

- Range: 10E3 – 10E12 ohms
- Measures Temperature: 32OF-100OF or 0OC-37OC
- Measures resistance/resistivity, humidity & temperature
- Automatic zeroing and power shut off
- CE approved
- Conforms to EOS/ESD, NFPA, ANSI, UL, ASTM, Military, EIA, and CECC standards
- 10 volts and 100 volts - test voltages
- LCD Display - Easily read
- Automatic range indicator

Sold with:

- Parallel, two 5lb., 2.5" probes, seating probe, garment clamps, and earth ground probe
- Coil cords, grounding hardware, and instructions
- One-year limited warranty
- NIST Certificate
- Extended Warranty



- 9v DC alkaline battery
- AC Adapter: 120v or 220v
- Insulated foam-lined carrying case

Optional Accessories

- 5lb. concentric ring probe
- Nickel cadmium re-chargeable battery



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Testing Instructions:

Resistivity:

Place the Ohm-Stat™ RT-1000 Megohmmeter on the material to be tested. After selecting either 10 or 100 volts, press the test button until the reading appears on the LCD display. The humidity, temperature, and electrical resistivity (displayed in ohms/sq.) values will appear on the meter display. The meter will turn itself off after approximately 45 seconds. Alternative method is to use the optional concentric ring probe.

Resistance/RTG/RTT:

Resistance/RTT: Position the two 5 lb. probes 3 ft. away from each other on the surface to be measured. Attach the 3.5mm leads into the meter and then insert the banana plug ends into the 5 lb. test probes. Press the meter power button until the resistance reading is displayed on the LCD screen in ohms.

RTG: (Resistance to ground) Position one probe on the surface to be tested 3 ft. away from the common point ground. Attach one cord to the meter and the other to the common point ground position. This may be at the snap of the earth ground point. Press the meter power button until the reading is displayed in ohms.

Seating:

Position an ESD wheel or drag chain of the seat over the footplate probe. Connect the leads to each electrode, or connect directly with a alligator clip. Press the test button and hold for 15 seconds. Repeat the test by placing the electrode perpendicular to any spot on the armrest and hold for 15 seconds. Repeat the test on other points of the chair, such as the middle of the backrest, middle of the rear of backrest, or on either end of the armrest. Refer to ESDSTM2.1 - 1997 Specifications.

Garments

Sleeve-to-Sleeve: Hang the garment from each sleeve with clamps and insert one coil cord into one clamp, and insert the other coil cord into the other clamp. Press the test button for 15 seconds. Reading will be displayed in ohms.

Point-to-point: Position the garment on an insulative surface, position one electrode on the garment, and place the second electrode on another point on the garment. Press the test button for 15 seconds.

Refer to ESD-STM2.1 - 1997 Specifications.

To select the test voltage of either 10 or 100 volts, position the voltage switch to the desired setting. The meter will turn itself off automatically after approximately 45 seconds. Refer to the EOS/ESD specifications for complete descriptions.