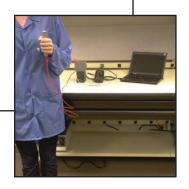
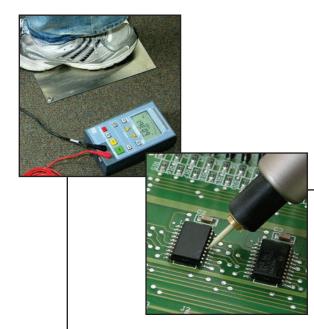


PRODUCT CATALOG

















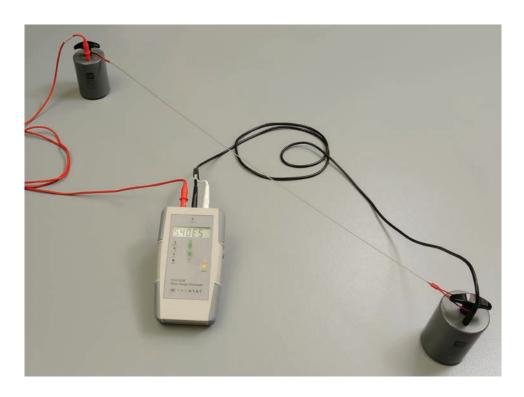




PAS-853B WIDE RANGE OHMMETER

WIDE RANGE RESISTANCE METER DESIGNED TO SUPPORT ANSI/ESD S20.20 PROGRAM STANDARD

The PAS-853B is a wide range ohmmeter designed specifically for ESD Plant Auditors who must make many measurements quickly while supporting ANSI/ESD S20.20 Program Standard and periodic verification requirements. The PAS-853B performs in accordance with standard resistance measurement practices outlined in ANSI/ESD 541 Packaging and meets all audit requirements of ESD TR53.



Variable & Constant test voltages

- <10 Volts Variable from 0.01 to 9.9x10³ ohms
- 10 Volts \pm <0.5V (\pm <5% Constant Voltage) from 1.0x10⁴ to 9.99x10⁵ ohms
- 100 Volts \pm <5V (\pm <5% Constant Voltage) from 1.0x10⁶ to 9.99x10¹² ohms





FROM 0.01 OHM TO 9.99X10¹² OHMS

Meets requirements of ESD Association Standards for material and audit resistance measurement requirements:

- Fully automatic Resistance Range, Test Voltage and Electrification Period control
- Easy to Use, only 2 control buttons and a battery bus isolation switch
- Widest resistance measurement Range in Class: from 0.01 ohm to 9.99x10¹² ohms
- Accurate: nominal full range tolerance averages <±5%
- Automatic or Continuous Electrification Control
- Extremely fast measurements

ANSI/ESD S20.20 AND ESD TR53



PRS-801 RESISTANCE SYSTEM SET

The most important ESD Audit & Evaluation instrument is this wide range, constant voltage resistance meter. Use with many accessories & fixtures. Unique wide range portable, constant voltage ohmmeter with data logging, calculating and computer communication capabilities

- Resistance Range: 0.1Ω to $2.0 \times 10^{14} \Omega$
- Test Voltages
 - » 0.001 to 10 Volts Auto Variable
 - » 10 & 100 Volts Constant \pm <5 mv
- Digital LCD Display & LED Indication
- 80 Data Point Memory
- Software for Data Download to PC
- Includes Lead Sets, Steel & Insulative Test Beds, and Calibration Shunt







RESISTANCE FIXTURES & ELECTRODES

Use five-pound electrodes for measuring resistance of floors, worksurfaces, floor mats, etc.

Measure:

- Resistance Point to Point (Rtt)
- Resistance to Ground (Rtg)

Evaluate:

- Floors
- Worksurfaces
- Equipment
- Garments
 - Production Aids





WIDE RANGE. ACCURATE. PORTABLE.





Portable, precision resistance measurement from <0.1 to 1.0 x 10¹² ohms. Designed for the Professional Corporate ESD Auditor.

- Measures resistance from < 0.1 to 1.0x10¹² ohms with overall measurement accuracy of ±5%.
- Records and stores up to 80 measurements.
- Constant voltage
- Fully automatic, controls test voltage, resistance ranging and electrification period.
- Displays measurements in ohms, kilohms, megohms, gigohms and terohms, and in exponential format.
- Battery operated (2 x 9 Volts)



PRS-812 RESISTANCE METER SET

The PRS-812 is a constant voltage, wide range ohmmeter with data logging and calculating capabilities. Fully portable and battery operated, the PRS-812 measures resistance from <0.1 to 1.0×10^{12} ohms with measurement accuracy of $\pm 5\%$. It can be operated in fully Automatic, Automatic-Manual and Manual modes.

This sophisticated instrument digitally displays measurements in ohms, kilohms, megohms, gigohms and terohms, and in exponential format, e.g., 1.5E8.

It simultaneously displays data with a fully synchronous analog scale using x1, x10 and x100 multipliers, and a bank of color coded LED's ($<10^3$ to $>10^{12}$ Ohms). Multiple test voltages include 0.01-10V, constant 10V and 100V ranges, which may be selected automatically by the instrument to comply with industry measurement practices, or manually by the operator.

The PRS-812 records and stores up to 80 measurements and calculates minimum, maximum and average of all stored data.

Fully automatic, the PRS-812 controls test voltage, resistance ranging and electrification period to make the most accurate and repeatable measurements available to ESD Auditors and technicians.





RESISTANCE METERS FOR COMPLIANCE VERIFICATION PER TR53

Note: Ron Gibson Analysis

| ESDA TR 53 | Required Ω | Required V |
|---------------------------------|-------------------|----------------------------|
| Wrist Strap Jacks | <2 | <10V |
| Soldering Tools | <10 | <10V |
| Cleanroom Stainless Steel Items | <1.0 to ≥E13 | <10V, @10V & @100V |
| Automated Handlers | 0.1 to ≥E11 | <10V, @10V, @100V ±5% |
| Electrode Verification | <500 ea. | <10V |
| Troubleshooting | <1 to ≥E12 | <10V, @10V & @100V ±10% |
| Packaging | ≥E13 | 100V ±10% |
| Garments | 5E4 to ≥1E9 | @10V |
| Work Surfaces | ≥E10 | @100V ±10% |
| Flooring | E3 to ≥E10 | @100V ±10% |
| Seating | E3 to ≥E11 | 100V ±10% |
| Mobile Equipment | ≥E10 | @100V ±10% |
| Shelving | ≥E10 | @100V ±10% |



- Meets TR53 Requirements
- Does not meet Requirements Based on Measurement Range, Test Voltage Tolerance or Accuracy

| PRS-801 | PAS-853B | PRS-812 | Meter A | Meter B | Meter C |
|---------|----------|---------|---------|---------|---------|
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RESISTANCE METERS FOR PRODUCT QUALIFICATION

Note: Ron Gibson Analysis

| ESDA TEST METHOD | Required Ω | Required V |
|-------------------------------|--|-----------------------|
| STM 11.13: 2-Point Resistance | E3 to ≥E13 | <10V, @10V, @100V ±5% |
| STM 2.1: Garments | E3 to ≥E12 | 100V ±5% |
| STM 12.1: Seating | E3 to ≥E11 | 100V ±5% |
| STM 7.1: Flooring | E3 to ≥E10 | 100V ±5% |
| STM 11.11: Surface Resistance | E3 to ≥E13 | <10V, @10V, @100V ±5% |
| S13.1: Soldering Irons | <2 & <10 | <10V |
| Wrist strap jack | <2 | <10V |
| Auxiliary Ground | <25 | <10V |
| Electrode verification | <500 | <10V |
| Clean room stainless steel | <1.0 | <10V |
| SP 10.1: Handling Equipment | 0.1 to ≥E11 | <10V, @10V, @100V ±5% |
| Packaging Field Shielding | <e3< td=""><td><10V</td></e3<> | <10V |
| SP 9.2: Footwear/Grounders | 5E4 to ≥E10 | 7 to 30V |
| STM 11.12: Volume Resistance | ≥E12 | <10V, @10V, @100V ±5% |
| S 4.1: Work Surfaces | E5 to ≥E11 | 100V ±10% |
| STM 9.1: Footwear | E3 to ≥E10 | <10V, @10V, @100V ±5% |
| S 1.1: Wrist Straps | <e5 td="" to="" ≥e8<=""><td>7 to 30V</td></e5> | 7 to 30V |



Meets Requirements

Does not meet Requirements Based on Measurement Range, Test Voltage Tolerance or Accuracy

| PRS-801 | PAS-853B | PRS-812 | Meter A | Meter B | Meter C |
|-----------|----------|---------|---------|---------|---------|
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SURFACE RESISTANCE AT ITS BEST



PRF-912B Miniature Concentric Ring

- Measures surface resistance of small areas up to 1.0x10¹² ohms.
- Measurement Area: 0.35" (8.89mm).
- Spring loaded contact pins.
- Includes two (2) each spare outer contact pins and one (1) each spare inner center electrode contact pin.



PRF-922B Miniature Two-Point Probe

- Measures point-to-point surface resistance of small areas up to 0.9x10¹² ohms.
- Measurement Area: 0.25" (6.35mm).
- Spring loaded contact pins.
- Includes one (1) each spare contact pins and conductive rubber boots for measuring surfaces in accordance with ANSI/ESD STM11.13.



PRF-922A-B Miniature Two-Point Probe Adapter

- Adapter converts the PRF-912B Micro Probes to a precision Two Point Probe.
- Measures point-to-point surface resistance of small areas up to 0.9x10¹² ohms.
- Measurement Area: 0.25" (6.35mm).
- Spring loaded contact pins.





PRF-MR55 & PRF-MR10





PRF-900

PRF-901



PRF-911 CONCENTRIC RING SET

The PRF-911 Concentric Ring is a low-profile test fixture conceived specifically for use with the Prostat PRS-801 Resistance System and PRS-812 Resistance Meter. It will measure surface resistance per ESD S11.11, and volume resistance per ESD S11.12, and ANSI/ESD SP15.1.

Its compact size allows the fixture to be inserted into small flexible containers, such as an ESD protective bag, without having to cut the package.





FEATURES

Measures surface resistance per ANSI/ESD STM11.11

Measures volume resistance per ANSI/ESD STM11.12

Measures surface volume & resistivity per ASTM D-257

Incorporates a spring loaded, self-aligning center electrode feature

The included Dual Test Bed consists of an insulated test surface for ANSI/ESD STM11.11 surface measurements laminated to a steel test plate for volume measurements.

PRF-911PT ESD PACKAGING TEST KIT



Designed originally for flat (planar) packaging materials, the portable PRF-911 Concentric Ring test fixture will measure Surface and Volume Resistance of virtually any flat material in accordance with current ESD Association Standards.

It will measure Surface Resistance per ANSI/ESD STM11.11, and Volume Resistance per ANSI/ESD STM11.12, and will approximate surface and volume resistivity measurements per ASTM D-257.

MEASURE SURFACE AND VOLUME RESISTANCE PER

ANSI/ESD STM11.11 AND STM11.12

PGA-710B

Windows 10

Compatible

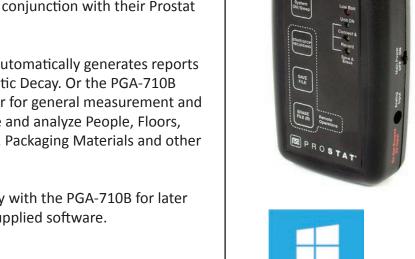


PGA-710B AUTOANALYSIS SYSTEM SET

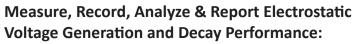
The PGA-710B Autoanalysis System® allows experienced ESD Auditors to analyze any Facility or Manufacturing Process in conjunction with their Prostat PFK-100 Field Meter Set and computer.

It records and analyzes measurements and automatically generates reports for Voltage Generation, Fields and Electrostatic Decay. Or the PGA-710B may simply function as an advanced recorder for general measurement and experimental applications. Use it to measure and analyze People, Floors, Footwear, Ionizers, Chairs, Carts, Equipment, Packaging Materials and other ESD control elements.

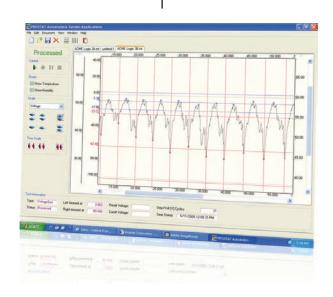
You may also record measurements remotely with the PGA-710B for later downloading and computer analysis using supplied software.







- Footwear and flooring combinations
- Carts & Chairs
- Packaging Materials & Systems
- Production Aids
- Worksurface Voltage Suppression
- Ionization Offset Voltage & Decay Performance
- Production Aids & Materials
- Record process equipment field voltages



ESD ANALYSIS AT ITS FINEST!

System Requirements: Windows XP, Windows Vista, Windows 7 32-bit, Windows 7 64-bit, Windows 8, Windows 10



PFK-100 FIELD METER SET

The PFK-100 set includes Prostat's unique PFM-711A dual range field meter, CPM-720 charged plate monitor assembly and PCS-730 ± 1 kv charging source.

With this instrument set you can measure electrostatic fields, analyze ionizer performance and assess the voltage generation of materials, equipment and personnel.







PDT-740B STATIC DECAY TIMER

The PDT-740B Static Decay Timer is designed to measure the time required for a 1,000 volt charge to dissipate to less than 100, 50 or 10 volts in tenths of a second.

This extremely useful accessory is used with the Prostat PFM-711A Field Meter and CPM-720A Charge Plate Monitor to evaluate Ionizer Decay Time in accordance with ESD Association Ionization Standard SP3.3 and TR53.

The PDT-740B may be used to evaluate the static decay capabilities of materials, personnel, equipment and other products.





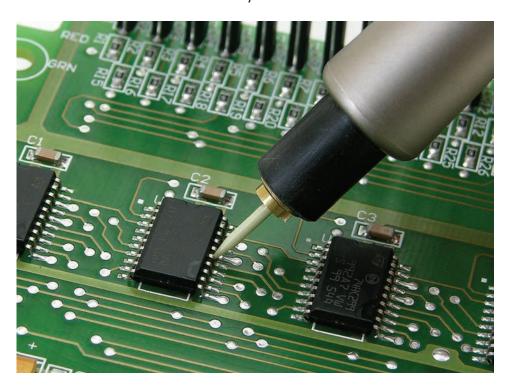
CVM-780 CONTACT VOLTMETER

A VALUABLE ESD ANALYSIS TOOL

Being a true electrostatic voltmeter, not a field meter means that it reads real voltage, without confusing it with electrostatic field strength, which can be distinctly different.

The CVM-780 Contact Voltmeter[™] uses a unique active probe design which is fully guarded and shielded for minimal interference with the surrounding E field.

The Contact Voltmeter™ is powered by rechargeable Nickel Metal Hydride batteries and is a valuable ESD Analysis Tool.



Compatible with the PGA-710B Autoanalysis System

The CVM-780 is compatible with the PGA-710B Autoanalysis System® to record measurements for probability analysis and report generation.

IF YOU CAN TOUCH IT... YOU CAN MEASURE IT!



ESD ANALYSIS APPLICATIONS

Analyze process, devices and assemblies for causes of Charged Device and Machine Model losses. Measure voltages on:

- Device Lead Frame Contacts
- Circuit Board Traces
- Automatic Test Contacts
- Conductors in process critical path
- Machine parts
- Placement heads
- Handlers
- Production Aids
- Chairs
- Carts
- Personnel
- Trays
- Shelving
- Conductive Containers





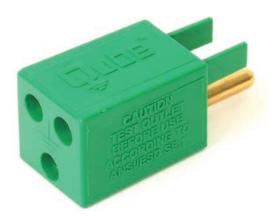
PGT-61-164 UNIVERSAL SURETEST® CIRCUIT ANALYZER

The PGT-61-164 SureTest® Universal Circuit Analyzer test circuits according to ANSI/ESD S6.1-Grounding. Verify the following wiring conditions:

- Neutral and equipment grounding conductor wires are present and not connected to each other
- · Hot and neutral wires are not reversed
- Hot and equipment grounding conductors are not reversed
- Impedance of the equipment grounding conductor is not greater than 1 ohm

In addition, you can effectively test and troubleshoot a branch circuit.





Q007B COMMON POINT GROUND CONNECTOR

The Prostat Q007B Qube™ replaces ordinary electrical grounding devices with a convenient, cost effective means to connect several ESD controls to a single grounded electrical outlet.

Use the Q007B Qube[™] to ground workstations, mats, wrist strap & testers, instruments, and other ESD control products to a pre-tested facility electrical ground. It consists of a robust multi receptacle frame encased in fire retardant ABS with a solid brass grounding pin.









PWS-610M FABRIC BAND WRIST

STRAP

In conjunction with the best product designers in the ESD industry, Prostat has created new refinements in wrist strap technology. Prostat wrist straps are specially designed for durability, lightweight, portability and comfort.

These unique personnel and instrument grounding products are intended for use in demanding, high performance applications where reliability is the priority.

PWS-620 METAL BAND WRIST STRAP

The PWS-620 Wrist Strap features a metal wristband that incorporates a patented linking system. It enables you to adjust the strap to fit virtually any wrist size. This unique band comes manufactured in 130mm lengths and can be easily enlarged using one or more of the five 10mm nylon expansion links included.



The band is extremely comfortable, as each one is "custom fit" to the user. This band eliminates the need to stock bands of various sizes.



Q007-PGT SURETEST AND QUBE

Test Electrical Circuits and provide an ESD ground path to a previously tested receptacle with the Qube

Includes:

- PGT-61-164 Universal SureTest Circuit Analyzer
- 12 inch Universal Extension Cord
- Q007-T Tube of 5 Qubes



PAR-809C VARIABLE RESISTANCE REFERENCE

ISO-9001 requires that measurement equipment be calibrated or verified at specified levels prior to use.

With the proper use of the PAR-809C, calibration of resistance indicating equipment is easily verified assuring accurate, functional performance of critical ESD control tools.

The PAR-809C provides low cost in-plant verification.

No need to pay for outside services, if calibration is not necessary.



Each of the 12 verification points are indicated with bright yellow LED's.





Using 1 percent tolerance resistors, the PAR-809C offers twelve values from 1.2×10^4 to 1.0×10^9 .

USE THE PAR-809C TO CHECK:

- Wrist Strap Testers
- Footwear Testers
- Resistance Indicating Devices

Use the Prostat PAR-809C to "verify your test equipment is operating properly" as recommended in ESD TR53-010-06.

¹ESD TR53-01-06 Compliance Verification of ESD Protective Equipment and Materials



PRS-801-W CONDUCTIVE RUBBER ELECTRODES



The PRS-801-W is a precision milled resistance probe with conductive rubber pad for use with any resistance meter. Used in point to point and point to ground resistance testing of floors, worksurfaces, floor mats or any flat object, the PRS-801-W produces repeatable measurements in accordance with ESD Association standards.

The PRS-801-W will work with any other resistance measuring meter for specification measurements.





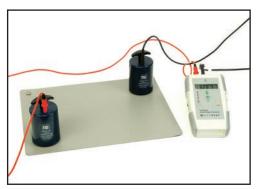
PRS-801-WV PREMIUM CONDUCTIVE RUBBER ELECTRODES

The PRS-801-WV Premium Conductive Rubber Electrodes are ideal for qualifying or certifying newly installed ESD Floors, Worksurfaces and other ESD control products. While virtually all 5 pound, 2.5 inch electrodes in today's industry are perfect when delivered to their end users, over time they may change considerably.

The Prostat Premium Electrodes are measured as described in ANSI/ESD S4.1 for electrode diameter, durometer and resistance of the pad. In addition, these electrodes are electrically tested for flatness using the Prostat PRV-813 Conductive Rubber Electrode Verifier.







CERTIFICATE TRACEABLE TO NIST WITH DATA INCLUDED!



PRV-813 CONDUCTIVE RUBBER ELECTRODE VERIFIER

The PRV-813 is a two-sided fixture designed to assess the flatness of conductive rubber electrodes, and their total resistance to surfaces under test. While virtually all 5 pound, 2.5 inch electrodes in industry are perfect when delivered to their end users, over time they may change considerably. Variation in electrodes may be due to extreme use, contamination, poor storage or ambient conditions, general wear, rough handling, and degradation over time.



This is not a criticism of electrodes or their manufacturers. Rather, electrode degradation is a reality. Over 70% of all audit and periodic verification measurements made to support ANSI/ESD S20.20 and IEC ESD Program Standards are conducted using 5 pound, 2.5 inch electrodes. Consequently, a set of electrodes may be required to make several thou-





PRV-815 PREMIUM ELECTRODE QUALIFICATION KIT



This kit includes the PRV-813 Conductive Rubber Electrode Verifier which is precision fabricated to electrically measure the surface flatness of the electrode's conductive rubber surface to within approximately 0.003 inch.

Considering surface irregularities, flatness insures the electrode's ability to make full contact with a surface under test.

IDEAL FOR QUALIFYING OR CERTIFYING YOUR MATERIALS



ESD GROUNDING PRODUCTS

QUBE KITS

Q007-T or Q007-DUO ESD Grounding Cube - Tube of 5 or 2



- Recommended for use on tested electrical outlets
- Convenient connection for ESD grounding
- Provides ESD grounding anywhere

PGC-015Q Green Ground Cord & Qube



- 15 foot straight lead Ground Connector with 10 mm snap & two banana jacks
- Includes Q007 ESD Grounding Cube

PGT-6302QG Outlet Tester with Qube & Ground Cord



- 15 foot straight lead Ground Connector with 10mm snap & two banana jacks
- Q007 ESD Grounding Cube
- Sperry GFI6302 Outlet Tester

WRIST STRAPS

PWS-661F Grounding Set - Fabric Cuff



- Includes a Qube, Wrist Strap and Ground Cord
- In accordance with En 100015/1, ANSI/ESD S1.1 and ANSI/ESD S6.1

PWS-661M Grounding Set - Metal Cuff



- Includes a Qube, Wrist Strap and Ground Cord
- In accordance with En 100015/1, ANSI/ESD S1.1 and ANSI/ESD S6.1

PWS-620 Metal Band Wrist Strap



- Includes a 10 foot cord with 1 meg Ohm Resistor
- Adjustable strap to fit virtually any wrist size
- Comes manufactured in 130mm lengths

ESD MATS

PED-655 Engineer's Desktop ESD Workstation



- 12 x 16 inch Rubber Mat for use as a grounded tablemat
- Includes a 15 foot Ground Cord, Prostat Qube and PWS-620 Metal Band Wrist Strap

PRM-653 Complete Workstation Set Up



- 2 x 4 foot Rubber Mat for use as a grounded tablemat
- Includes a 15 foot Ground Cord, Prostat Qube, PWS-620 Metal Band Wrist Strap and a GFCI Outlet Tester

PPK-646 Engineer's Field Service Kit



- $\, \blacksquare \,$ Portable ESD Workstation with storage pouch
- Includes a 15 foot Ground Cord, Bulldog Clip and Velcro sealable closure



ESG-030Q WIRE SHELVING GROUNDING KIT

The ESG-030Q Wire Shelving Grounding Kit is an easy way to ground your already assembled wire shelving units and comply with ESD requirements. The clip snap onto the shelf collar to provide a current path. You then attach the alligator clip on the ESD Clip, and use the green cord to ground your unit to the Prostat Qube.





The Wire Shelving Grounding Kit includes:

- 4 each ESC-025 ESD Clips
- 1 each Prostat Grounding Qube
- 1 each 36" Green Ground Lead
- 1 each Metal Alligator Clip

INCLUDES PROSTAT'S GROUNING:





PROSTAT PROFESSIONAL AUDITING KITS

| PFK-101 Basic Field Kit An Introduction to the Portability and Functionality of the Prostat Line. |
|--|
| PIK-110 Ionization Kit Measure ionizer performance with the upgradable PIK-110. |
| PRK-130 Advanced Powder Resistance Kit For measurement of powders and granulated materials. |
| PET-160 Packaging Engineers Test Kit Perfect for developing new materials or verifying existing products. |
| PMK-151 Resistance System Kit Resistance Measurements With Computer Download Capabilities. |
| PMK-152 Floor Resistance Test Kit General Floor Auditing and Resistance Measurements. |
| PMK-153 Plant Auditor's Surface Resistance Kit Includes the PAS-853B Wide Range Ohmmeter. |



| | PGA-710 Autoanalysis System Kit Measure, Record, Analyze & Report Electrostatic Voltage Generation and Decay Performance. |
|--------|--|
| | PFC-252 Professional Floor Certification Kit Everything you need to certify a floor, or floor and footwear combinations. |
| | PAK-210 ESD Auditor's Kit Expand Your Measurement Capabilities by Downloading Data to Your Computer. Designed for ANSI/ESD S20.20 Program Applications. |
| | PAK-212 Basic System Kit Measure Resistance, Electrostatic Fields, and More. Designed for ANSI/ESD S20.20 Program Applications. |
| 18 197 | PAK-253 ESD System Control Kit Designed to meet ANSI/ESD S20.20 Program Standards. |
| | PSK-310 ESD System Analysis Kit The choice of advanced professionals includes computer download capabilities. Designed for ANSI/ESD S20.20 Program Applications. |
| | PSK-312 ESD Basic System Analysis Kit Includes PRS-812 Resistance Meter Set. Designed for ANSI/ESD S20.20 Program Applications |



PROSTAT PROFESSIONAL AUDITING KITS



PSK-353 TR53 Verification Test Kit

Performs all TR53 Recommended Audit Measurements.



PPA-400 Process Analysis Kit

The PPA-400 ESD Process Analysis Kit is for advanced professionals who need materials testing, facility evaluation and process analysis capabilities all in one kit.



PRS-801RM Surface Resistance System Kit

Accurately Measures Point-to-Point Resistance and Resistance to Ground.



PRS-812RM Surface Resistance Meter Kit

Test Anti-Static, Static Dissipative and Conductive Surfaces.



PAS-853BRM Digital Surface Resistance Test Kit

Wide Range Surface Resistance Ohm Meter Kit.



PRF-911PT ESD Packaging Test Kit

Test packaging in accordance with ANSI/ESD STM11.11 and STM11.12.



PFK-105 Ionization Test Kit

Perfect Kit for Testing and Balancing Ionizers.



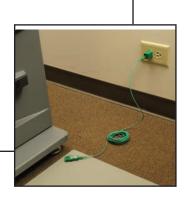


PRV-815 Premium Electrode Qualification Kit

Ideal for Qualifying or Certifying Materials.













DOU YEE ENTERPRISES (S) PTE LTD

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