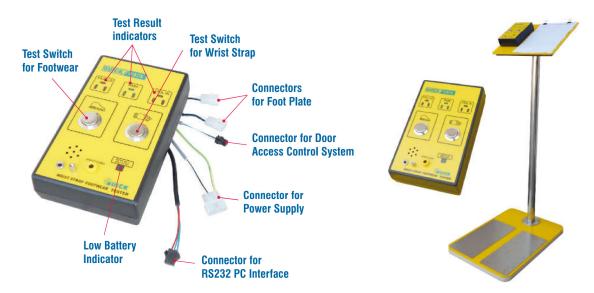
used by many MNCs in repeat orders • ANSI ESD S20.20 Compliant





Test Result Indications







Wrist Strap PASS Resistance in range



Foot Wear PASS Resistance in range



Foot Wear FAIL Resistance High



Foot Wear FAIL Resistance Low



Wrist Strap FAIL Resistance High



Wrist Strap FAIL
Resistance Low

Features

- · Has 2 Test Modes:
- Single Test Mode: Checks the ESD status of Wrist Strap or Footwear.
- Comprehensive Test Mode: Checks the ESD status of both Wrist Strap and Footwear.
- Customer can connect it to Door Control System thru Access System Control Signal from this Tester.
- This Model uses micro-current testing for stable and accurate results.
- Low Voltage Alarm Function: when the battery goes low in this Tester, there will be alarm indication.

Specifications

Accuracy

Power supply : 9V Battery

Touch-Point : Voltage ≤ 400V (peak, DC or AC)

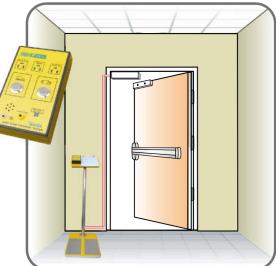
Switching Output Switch Current ≤ 130 mA

Touch-Point Resistance of < 30Ω Test PASS: Touch-Point Close Test FAIL: Touch-point open : Wrist Strap testing: ± 10%

Footwear testing: \pm 10% (100 K Ω), \pm 20% (100 M Ω), \pm 30% (1 G Ω)

Access Control : ±400V (Peak DC/AC); 100mA
Signal Output (Recommended Relay KAQW214)
Dimensions (approx.) : 160 mm x 100 mm x 40 mm

Weight (approx.) : 0.6 kg (Test Unit only)



This Combo Tester can be connected to Door Control System thru Access Control System Signal from this Tester. It gives signal of $\pm 400V$ (Peak DC/AC); 100mA to operate relay (KAQW214) of Access Control System

Warranty is 12 months from the date of invoice. It excludes any mechanically damaged and electrically misused part.

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While the information contained herein in, has been carefully compiled to the best of our knowledge, nothing is intended as representation and warranty on our part; and no statement shall be construed as recommendation to infringe any of existing patents. We accept no liability of whatsoever for any faults and errors in the information contained herein. Contents of this catalogue and specifications of the products, are subject to change without notice due to continuous improvements.





Wrist Strap Tester P/N: 498

Wrist straps are the primary method to minimize the static charge on the human body. They must be able to drain this charge as rapidly as it is generated. For this reason it is important to test wrist straps on a regular basis to ensure they are working properly. To ensure the proper working of Wrist Straps, this model 498 is used to check the grounding quickly.

- Use anywhere to check personnel ESD grounding guickly
- Checks contact resistance between Wrist Strap and skin

Specifications:

 Resistance Test Range : 750KΩ ~ 10MΩ Power Supply : 9-volt battery

 Changeover Point : ±10%

 Dimensions (approx.) : 117mm (L) x 80mm (W) x 40mm (H)

 Weight (approx.) : 110 grams

Operation

Simply touch circular surface on Tester with your hand and connect ground wire. In case of a safe ground, LED will be 'Green'. Opposite Table summarizes test indications.





Scope of Supply:

 Wrist Strap Tester Model 498 Power Supply: 9V Battery Grounding Wire: 2.5 meter

LED Indication	Resistance	Buzzer
Power Low (Red)	<750ΚΩ	0FF
Good (Green)	$750 \text{K}\Omega \sim 10 \text{M}\Omega$	ON
High (Red)	>10MΩ	0FF

Continuous Wrist Strap Monitor P/N: 495

Model 495 Continuous Wrist Strap Monitor continuously monitors the ESD integrity of wrist strap and its ground. It provides instant notification of the wrist strap or ground failure. When the production process is of very high value, reliable ESD safety and ground is must for continuous monitoring at operator level.

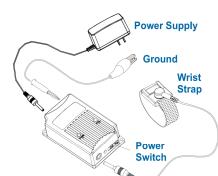
Features:

- Sound and light alarm
- Portable and compact, easy to use
- Real time monitoring of Wrist Straps
- Real time monotoring of groudning

Specifications:

 Input Voltage : 6 ~ 12 VDC : <50mA (12VDC) Working Current Weight (approx.) : 50 grams

Dimensions (approx.): 75Lx46Wx27H mm





Scope of Supply:

- Wrist Strap Monitor
- Grounding Cord
- Power Supply Adaptor (DC 6-12V)

LED	Value
OK (Green)	$825 \mathrm{K}\Omega \sim 9 \mathrm{M}\Omega$
Fail (Red)	11M Ω and above
Fail (Red)	765KΩ and below

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ESD Audit Test Kit P/N: 499ZC

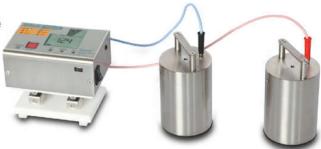
Heavy Hammer type for surface impedance

Features:

- Testing by putting on the surface to be tested
- · Testing voltage switches automatically
- · Various testing modes can meet different testing requirement.
- LCD display, easy to read.
- Chargeable battery (via USB Adaptor)

Specifications:

Measurement Range	10 ²⁵ ~ 10 ^{13.5} Ohm
Testing Modes	Standard surface impedance test mode ESD material and ground terminal test mode IEC specified heavy hammer test mode
Power Supply	3.7V chargeable battery (standard USB or adapter)
LCD Display	Test result displayed in digital form Test time display, Battery display
Testing Time	15s/30s/60s
Testing Voltage	Automatic switches 1-10 ^{2.5} -10 ⁶ Ohm 10V, 10mA max 2-10 ⁶ -10 ^{13.5} Ohm 100V, 1mA max
Resolution	0.1 digit
Accuracy	±0.5 digit
Dimensions	114(L)×78(W)×69(H)mm (approx.)
Weight	5kg (Including battery) (approx.)





 Floors - ANSI/ESD S7.1 Resistive Characterization Floor Materials

with the test methods in:

- Workstations ESD-ADV53.1 **ESD Protective Workstations**
- Work Surfaces ANSI/ESD S4.1 Worksurfaces Compliance Verification **ESD TR35-Resistance Measurements**

Routine ESD Surface Resistivity & Grounding Tester P/N: 499D Digital Display (not mere LEDs indication as in low priced models)

Surface Impedance Tester is used for measuring the surface coefficient and grounding resistance of objects, as well as the antistatic and insulating material.

Specifications:

Test range $: 10^3 \sim 10^{12} \Omega$ Power : 9V battery

Resolution ratio : 0.1 order of magnitude

Precision : ±10%

Condition : 0°C ~ 49°C, RH 0%-80%

Size : 130(L)×72(W)×35(H)mm (approx.) Weight : about 170 g (battery included)

Test Results reading

X.X E XX display means X.X raise to the power 10 (10^{xx}) Example: If display shows 9.5E10, it means $9.5*10^{10}\Omega = 95G\Omega$

Interpretation of Digital Display

bL --- It needs Battery replacement.

CE --- It means Calibration Error, needs re-calibration.

Lr --- Test resistance is less than 300Ω (3*10² Ω).

Hr --- Test resistance is more than $3T\Omega$ (3*10¹²Ω).



the back side

Digital display readout



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