OPERATING INSTRUCTIONS

Always clean bottom of electrodes with alcohol pads

- Place the **B8572** instrument on table top or flat surface, test button a if low battery symbol appears , replace batteries.
- Take 5lbs weights from case (use care)
- Plug red/black test leads into test weights
- Plug other end of leads into **B8572**
- Accessories: **B8565/20** (one 20' test lead) (For testing surface to ground on floors)

TESTING:

- Types of testing as specified in ESD-S4.1

1. Periodic testing on installed static safe workstations.
2. Qualification of workstation materials
3. Performance of materials
4.

PERIODIC TESTING OF INSTALLED PRODUCTS

Measure RTG (Resistance to Ground)

- Remove items from surface to be tested
- Remove ESD sensitive devices
- Clip one end of test lead from B8572 to grounded point (see fig 2.1)
- Use one 5lb electrode on other test lead to surface to be tested and push green button

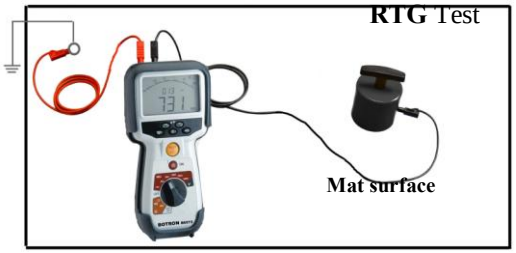
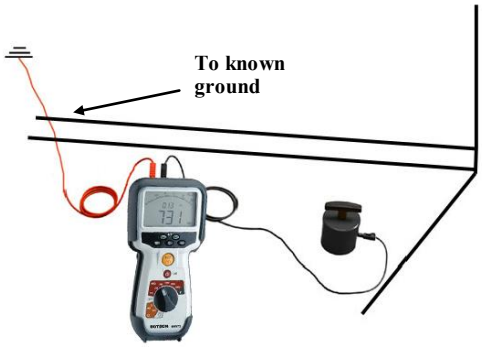


Fig 2.1

TESTING FLOORS

- Place one 5lb electrode of floor surface and with **B8565/20** 20'
  lead connect to known ground point.



(check with your facility staff)

Fig 2.2

Always clean mat surface with approved cleaner

Note: ESD 7.1 is designed to measure floor materials with resistance of 2.5 x 10^4 to 1.0 x 10^{11} ohms.

Note: ESD-S4.1 suggests that a static control surface in the test range of 1 x 10^6 to 1.0 x 10^{10} ohms is acceptable.

QUALIFICATION OF INSTALLED STATIC SAFE SURFACE RT_T

Measurements of resistance of Top to Top and resistance point to point are the same.

- Place both 5lb electrodes on surface to be tested.
- Place no closer than 2" from edge of surface to be tested.
- Place no closer than 3" from any groundable point. (snaps are a groundable point).
- Place in the center of mat area it would be area most worn. (about 10" apart)
- For **RTG** Fig 2.1 place one lead with insulated plug to groundable point.

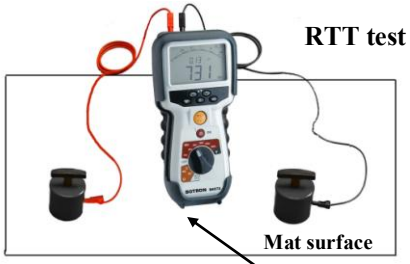


Fig. 2.3

REPORTING AND USING TEST RESULTS

Different standards have different requirements please review the standards that you are testing too.

Per ESD 4.1 (work surfaces)
RTG maximum and minimum values measured for resistance-to ground
RTG maximum and minimum values measured for point-to-point resistance in ohms.

Per ESD 7.1 (floors)

- RTG all values in ohms for resistance to ground
- RTT all values in ohms for point-to-point resistance.
- Voltage levels tested
- <10^6 @ 10 volts
- >10^6 @ 100 volts
- Note: Temperature & Humidity
- Test dates (work surfaces) quantity see ESD handbook TR 20.20 phg/ 5.3.1.3

Meter Reading	Ohms	Ohms	Scientific Notation	ESD	
<0.01 MΩ	*Resistance is less than 10 kohms*				CONDUCTIVE
0.01 MΩ	10 KΩ	10,000Ω	1.0E+04Ω	1.0 x 10^4 Ω	
0.10 MΩ	100 KΩ	100,000Ω	1.0E+05Ω	1.0 x 10^5 Ω	
1.00 MΩ	1 MΩ	1,000,000Ω	1.0E+06Ω	1.0 x 10^6 Ω	
5.00 MΩ	5 MΩ	5,000,000Ω	5.0E+06Ω	5.0 x 10^6 Ω	DISSIPATIVE
10.00 MΩ	10 MΩ	10,000,000Ω	1.0E+07Ω	1.0 x 10^7 Ω	
50.00 MΩ	50 MΩ	50,000,000Ω	5.0E+07Ω	5.0 x 10^7 Ω	
100.00 MΩ	100 MΩ	100,000,000Ω	1.0E+08Ω	1.0 x 10^8 Ω	
500.00 MΩ	500 MΩ	500,000,000Ω	5.0E+08Ω	5.0 x 10^8 Ω	
1.00 GΩ	1 GΩ	1,000,000,000Ω	1.0E+09Ω	1.0 x 10^9 Ω	
5.00 GΩ	5 GΩ	5,000,000,000Ω	5.0E+09Ω	5.0 x 10^9 Ω	ANTISTATIC
10.00 GΩ	10 GΩ	10,000,000,000Ω	1.0E+10Ω	1.0 x 10^{10} Ω	
50.00 GΩ	50 GΩ	50,000,000,000Ω	5.0E+10Ω	5.0 x 10^{10} Ω	
100.00 GΩ	100 GΩ	100,000,000,000Ω	1.0E+11Ω	1.0 x 10^{11} Ω	
>1.00 GΩ	*Resistance is greater than 1 GigOhm (Change to 100V test)*				
>20 GΩ	*Resistance is greater than 20 GigOhms (Change to 500V test)*				
>100 GΩ	*Resistance is greater than 100 GigOhms (Reading is higher than meter can read)*				

EXAMPLE:

Reading (115.)= 1.15 x 10^{8}
Reading (.096.)= 9.6 x 10^{4}
Reading (.96)= .96 x 10^{5}
Reading (6.3)= 6.3 x 10^{6}
Reading (16.3)= 1.63 x 10^{7}
Reading (6.13 G)= 6.13 x 10^{9}
Reading (>20G)= 2 x 10^{10}
Reading (100G)= 1 x 10^{11} analog

SPECFICITIONS

Accuracy range:	**+/-3 % per gegohm**
Test voltage:	**10,25,50,100,250 & 500volts**
Electrodes:	**Two (2) 5lb weights**
Power:	**Six (6)AA**
Auto shut off:	**Conserve batteries**
Lock test :	**As needed**
Resistance range:	**100G/100v , 100G/500v analog 20G/100v digital**
Continuity test:	**.01meg-220G**
Diode test:	**.01kohm-10000kohm Size:**
Voltage:	**+/-1 V-500V**
Test leads:	**2-4' long banana to banana (red & black)**
Millivolt test:	**+/- 1m-1999mV**
Low battery:	**Symbol**
Water& dust proof:	**IP54**
Weight:	**775gms with boot**
Size:	**11mm x 220mm x 45mm**
Designed to:	**IEC1010-1**
Case:	**Foam filled**
Warranty:	**Three (3) years**

ACCESSORIES:

B8563/20: 20' lead for floor testing

B48775: Electrostatic field meter

B48775PVS: Complete periodic verification system for testing ionization. Field meter, charger, plate & case.

Caution, risk of shock.
Caution, refer to user guide.
Equipment protected throughout by
Double insulation case (Class II).
Equipment complies with current EU directives.
Equipment must not be connected to installations >500V.

Footwear: Incoming testing on sampling basis should be performed for all static footwear products. *(TR 20.20 pgh. 5.3.3.4)*
Floor: Per *(TR 20.20 pgh. 5.34.13)* Testing and monitoring are required for performance.
Seating: ESD STM 12.1 and *(TR 20.20 pgh. 5.3.5.3)* recommend testing should be preformed. With a reading of 1 x10^{9} ohms.
Garments: A process of testing garments per ESD STM 2.1, point-to point and sleeve-to-sleeve resistance should be done.
see *(TR 20.20 pgh. 5.3.3.4)*

MODEL # B8572

SERIAL # _____

DATE _____

DIGITAL/ ANALOG AUDIT MEGOHM METER B8572

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