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

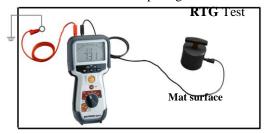
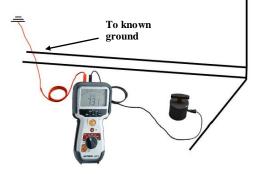


Fig 2.1

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

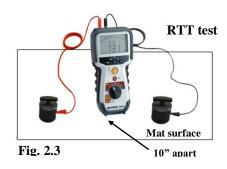
Note: ESD 7.1 is designed to measure floor materials with resistance of 2.5×10^4 to 1.0×10^{11} ohms.

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



REPORTING AND USING TEST RESULTS

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

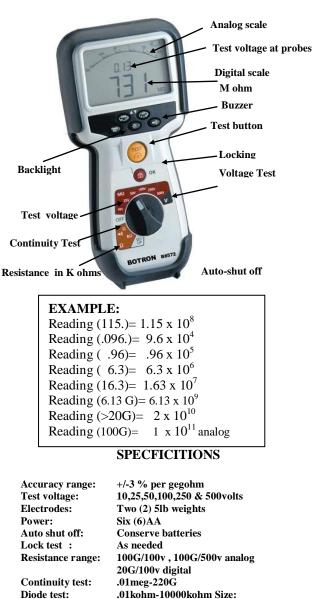
Per ESD 4.1 (work surfaces)

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	Resistar	nce is l	less than 10 kohms				S
0.01	MΩ	10	κΩ	10,000 Ω	1.0E+04 Ω	1.0 x 10 ⁴	Ω	CONDUCTIVE
0.10	MΩ	100	KΩ	100,000 Ω	1.0E+05 Ω	1.0 x 10 ⁵	Ω	CTI
1.00	MΩ	1	MΩ	1,000,000 Ω	1.0E+06 Ω	1.0 x 10 ⁶	Ω	ž
5.00	MΩ	5	MΩ	5,000,000 Ω	5.0E+06Ω	5.0 x 10 ⁶	Ω	
10.00	MΩ	10	MΩ	10,000,000 Ω	1.0E+07Ω	1.0 x 10 ⁷	Ω	묘
50.00	MΩ	50	MΩ	50,000,000 Ω	5.0E+07Ω	5.0 x 10 ⁷	Ω	DISSIPATIVE
100.00	MΩ	100	MΩ	100,000,000 Ω	1.0E+08 Ω	1.0 x 10 ⁸	Ω	ATIV
500.00	MΩ	500	MΩ	500,000,000 Ω	5.0E+08 Ω	5.0 x 10 ⁸	Ω	m
1.00	GΩ	1	GΩ	1,000,000,000 Ω	1.0E+09 Ω	1.0 x 10 ⁹	Ω	
5.00	GΩ	5	GΩ	5,000,000,000 Ω	5.0E+09Ω	5.0 x 10 ⁹	Ω	
10.00	GΩ	10	GΩ	10,000,000,000 Ω	1.0E+10Ω	1.0 x 10 ¹⁰	Ω	A
50.00	GΩ	50	GΩ	50,000,000,000 Ω	5.0E+10 Ω	5.0 x 10 ¹⁰	Ω	TIST
100.00	GΩ	100	GΩ	100,000,000,000 Ω	1.0E+11 Ω	1.0 x 10 ¹¹	Ω	ANTISTATIC
>1.00	GΩ	Resistar	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)						



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.

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A-500V

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 x10⁹ 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 #	1000-351/110111/1335
DATE	06-21-11
1	l to activate warranty -888-257-3680 mation sent by mail



DIGITAL/ ANALOG AUDIT MEGOHM METER B8572



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