



TRANSFORMING TECHNOLOGIES, LLC
OUTSTANDING ALTERNATIVES IN STATIC CONTROL

TRANSFORMING TECHNOLOGIES, LLC



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Ohm Metrics™

Dual Footwear/Wrist Strap Tester

Model PDT700



Instruction Manual

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Service and Warranty

Transforming Technologies, LLC provides a limited warranty for the Model PDT 700. All new products are guaranteed to be free from defects in material and workmanship for a period of one (1) year from the date of shipment. Liability is limited to servicing (after evaluating, repairing or replacing) any product returned to Transforming Technologies. The company does not warrant damage due to misuse, neglect, alteration or accident. In no event shall Transforming Technologies be liable for collateral or consequential damages.

To receive service under warranty, please contact Transforming Technologies Technical Support.

About Transforming Technologies

Since 1998, Transforming Technologies has helped electronic manufacturing facilities to protect their products and processes from the many serious problems associated with static electricity.

Transforming Technologies offers a wide range of unique and outstanding products to detect, protect, eliminate and monitor electrostatic charges. Our products are integral components of an effective static control program.

Product Specifications

ESD Footwear Test:	100% Left/Right Foot Independent Testing
ESD Wrist-Strap Test:	Traditional Single Wrist-Strap
Test Modes:	WS only / FW only / Both WS and FW
High/Low Test Limits :	Factory default: Wrist 1MΩ~35MΩ / Foot 1MΩ~100MΩ. Accept customer preset at factory; range is 100KΩ~1GΩ.
Test Push Button:	Ergonomic Metal Plate for Reliable/Durable Operation.
System Built-in Relay:	Dry Contact Control, 1A 30VDC
Special Reminder:	Indicate “Near-Fail” Test Result on LED
Input Voltage:	100-240/VAC, 50/60Hz, 1A
Operation Temperature:	0°C ~ 40°C, for Indoor Use Only
System Dimension:	140x125x33 mm (L x W x H)
Dual Independent Footplate Dimension:	480x403x25 mm (L x W x H)

Parts Included List

1. PDT700 tester.
2. Foot plate.
3. Pedestal.
4. AC adapter
5. 2 connection cords.
6. Screws

Description

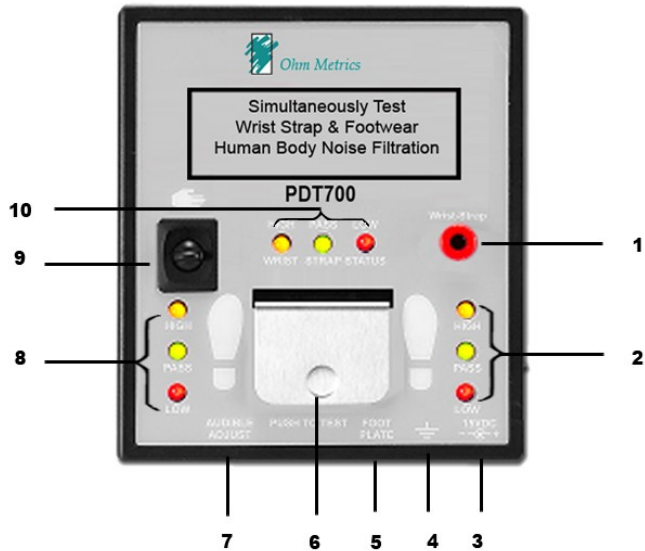
Ohm Metrics Combo Wrist Strap and Footwear Tester: Model PDT700

The PDT 700 is an easy, accurate, and time saving *One-Touch* digital wrist strap and footwear tester. Simultaneously and independently test both feet and a wrist strap while filtering out human body noise. The proactive “Near-Fail” indicator alerts the user that the ESD grounding device under test is operational but nearing failure levels. This tester fully supports the “Compliance Verification Plan” requirements as stated in the ANSI ESD S20.20.

Features include:

- Independently tests both feet and a wrist strap.
- Human body noise filter.
- Proactive “Near-Fail” LED indicator to prevent sudden failure of grounding device after test.
- Only one touch is needed to complete the testing of both wrist and foot grounding devices.

Front Control Panel



- | | |
|------------------------------|-----------------------------|
| 1. Wrist strap Plug-jack | 7. Adjustable Audio Alarm |
| 2. Right Foot LED Indicators | 8. Left Foot LED Indicators |
| 3. Power Input | 9. Toggle Switch |
| 4. Grounding Jack | 10. Wrist-Strap LED |
| 5. Foot-Plate Wire Jack | Indicators |
| 6. Test Button | |

Assembly

The PDT700 has two options for installation: Free-standing installation with a pedestal or wall mounting. The most common is the free standing option.

Footwear Testing

For the following testing, one must be wearing foot grounding ESD protection. The PDT700's dual footwear sensors allow for testing of each foot independently. The left foot ESD protection is indicated with the LED lights on the left side and the right foot is indicated on the right side of the monitor.

1. Turn the toggle switch located down to test "FOOTWEAR"
2. Place feet onto silver sensors of platform.

NOTE: No cord should be plugged into "WRIST Strap" jack.

3. Press the test button and hold for 2-3 seconds

NOTE: Testing of footwear on both feet happens simultaneously.

4. The **green LED** located on the **LEFT** side of monitor labeled "**PASS**" indicates that the **LEFT** foot ground is functioning properly.
5. The **green LED** located on the **RIGHT** side of monitor labeled "**PASS**" indicates that the **RIGHT** foot ground is functioning properly.
6. If either the **red LED "LOW"** or the **yellow LED "HIGH"** light on the **LEFT** side of monitor and audible alarm sound, then check the **LEFT** foot ground set immediately.
7. If either the **red LED "LOW"** or the **yellow LED "HIGH"** light on the **RIGHT** side of monitor and audible alarm sound, then check the **RIGHT** foot ground set immediately.

Testing

After the PDT700 is powered on, a short beep will sound and all the corresponding LED's turn on. Now the tester is ready to be used.

Use the Toggle switch on the left-upper side of the tester to select the test you desire:

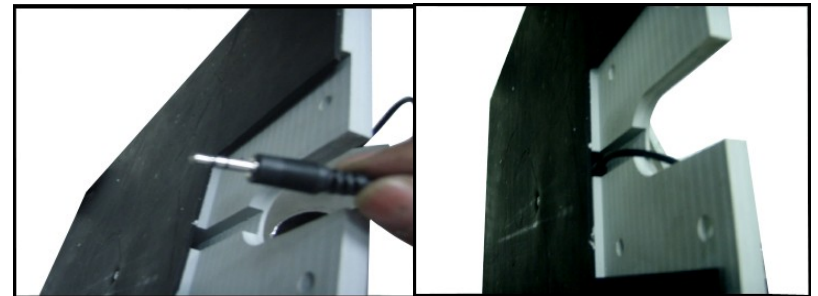
- UP: Tests Wrist Strap Only**
Down: Tests Footwear Only
Middle: Tests Both Footwear and Wrist Strap

Wrist Strap Only Testing

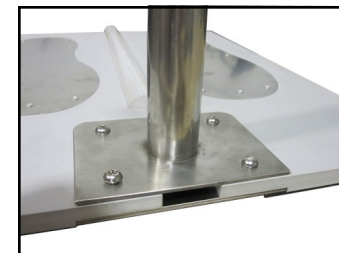
1. While wearing a wrist strap, insert the banana plug end of cord in the jack labeled "WRIST STRAP"
2. Toggle switch up for "WRIST STRAP".
3. Press and hold the test button.
4. A **short audible beep** and a **green LED labeled "PASS"** lights up indicating that the wrist strap and cord are functioning properly.
5. If the **red LED** and a **long beep** activate than the wrist strap failed "**LOW**".
6. If the **yellow and green LED lights**, along with two short beep sounds, than the wrist band "**FAILED HIGH**".

Free Standing Installation

1. Remove all items from carton and confirm you have received all items contained in the "Parts Included List."
2. Thread Cord A through the pedestal with the straight plug emerging from the bottom and the right angle plug emerging from the top.
3. Unscrew and remove the metal plate on the front of the footplate and set the screws aside.
4. Connect the straight stereo wire to underside of footplate. See Image:



5. Fasten the stand to the footplate with the four (4) screws that were removed earlier.

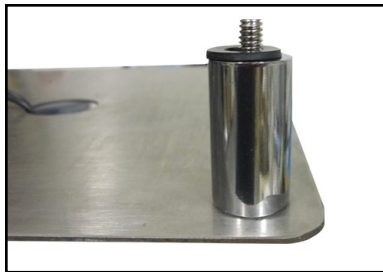


Installation Cont.

6. Thread CORD A through the smaller whole of the metal mounting plate, and secure the plate to the top of pedestal with the included screws.



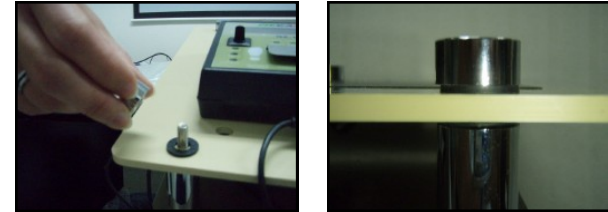
7. Attach the four spacer posts to the metal plate and place a rubber washer on each spacer post.



8. Thread the remaining two wires through the large whole in metal plate and the whole in beige backing board and connect the to the Tester.



9. Place the backing board on the spacer posts and place a rubber washer on top of the backing board around each spacer post.



10. Fasten the spacer post cap to secure the backing board to assembly.
11. Connect CORD B to Ground.
12. Plug in the power cord.

Note: In free standing installation, it is recommended to have the unit against a wall for stability,

Wall Mount

The PDT700 can be mounted on to any flat, stationary surface. Frequently, the unit is mounted on a table or wall

1. Secure monitor to a solid wall with screws via the 4 holes in the corners of the back plate.
2. Connect the footplate and monitor together with the footplate cord and place footplate directly under monitor.