

# 2 FOOT TESTER.

Introducing the first dedicated dual footwear station, offering repeatable checks on both right and left feet at the same time.

Simply stand on the two stainless steel foot prints, and push the "Press to test" button.

High bright LED's indicate one of the following: High fail, Pass, or Low fail, depending on the resistance of your shoes, heel straps, or toe straps an independent measurement is taken simultaneously of both right and left feet at the same time. Other footwear stations can only measure one foot at a time, or the combined resistance of both feet. The two foot tester reduces footwear testing time by half, and offers the operator a visual and audible measurement of pass or fail of both feet before entering the EPA.

The tester is powered by a 9 volt PP3 Alkaline battery, or (9 volt DC mains power supply not included).

Features Red high/low fail & green pass LED's for both RIGHT & LEFT feet.

Yellow Battery low LED.

Test range is between .9-35 meg Ohms.

The factory set resistance can be altered in accordance to your country resistance specifications.



Sturdy plastic coated metal frame with wall mounting bracket as standard.

# 2-14 -T, 2 Foot Tester

The 2 foot tester measures the resistance of both right and left feet independently, but simultaneously. It uses a unique circuit design, that enables the operator to check both feet using just one stainless steel "Push to test" button. If either right or left feet are high fail, low fail, or pass, the range of six display LED's will indicate. The tester is manufactured using the highest quality 1% metal film resistors, giving the tester an accuracy of +/-5%. High and low resistance's can be altered for your relevant country specification.

## Operation of 2 foot tester

Stand on the two stainless steel foot prints, with your weight evenly distributed. Make sure that your feet are on the foot prints at all times. Push the "Press to Test" stainless steel button and hold down. If the resistance of both left and right feet, falls within the resistance of the tester i.e. greater than it's lowest resistance and less than it's highest resistance both green LED's will light. However if either left or right feet are not within the desired resistance, one or both of the high or low fail LED's will light. If one or both high or low fail LED's light, then you must change footwear, heel straps, or toe straps for a product within specification.

**Calibration** Parameters were set to 900k low and 35megohms high.

Calibration is recommended on average every twelve months. A resistance decade box can be used. Connect one of the two leads from the decade box to the Stainless steel "Press to Test" button. The other lead to the left stainless steel foot print. Set the resistance just below the lowest acceptable resistance level of the tester. The RED low fail LED will light and an audible buzzer will pulse on the left side of the tester, when you push the "Press to Test" button. Increase the resistance to just inside the pass range and the GREEN pass LED will light. As you increase the testers resistance to above it's highest resistance level the RED high fail LED will light. To check the resistance of your right foot, connect the decade box lead currently making contact with the left stainless steel foot print, over to the right foot print and repeat the process.

## Specification

Power supply	9 volt PP3 Alkaline battery (PSU-02 9 volt 100mA UN-regulated)
Test Voltage	Nominal 9 volts
Temperature Range	
Operating	40°F to 120 °F (5°C to 49°C)
Storage	(-15°C to +60°C)
Relative Humidity	0% to 90% ( non-condensing)
Accuracy	+/- 5%
Repeatability	+/-5%
Weight	4.5Kg
Dimensions of tester	190mm x 135mm x 45mm
Height of station	1 metre - 39 1/2"

**2-14-T 2 Foot tester**

*(Testeur pour les 2 pieds / 2-Fuß Prüfgerät /  
2 Tester calzature / 2 Probador de pie)*

**Technical Data Sheet**

*(Produit - Fiche de données techniques / Technische Daten / Scheda dati tecnici / Hoja de datos técnicos)*

**English:**

Dimensions :- approx.  
 Tester 190mm x 140mm x 40mm  
 Height 990mm  
 Weight :- approx. 7 kgm  
 Power :- Battery 9v PP3 or  
 Mains power supply (Technical data sheet ref TSPSU - 01)  
 Input 110v - 260v AC 50/60 Hz  
 Output 9v DC 100mA  
 Connections :- 2 x 4mm Banana skts for foot plate connection  
 3.5mm jack for Power supply  
 Test Range :- 900k ohms to 35 meg ohms for each foot.  
 Method of Measurement :- Resistance  
 Accuracy :- +/- 10 %  
 Method of operation :- Contact push button  
 Led indicators :- Pass = green x 2  
 High Fail = red x 2  
 Low fail = red x 2  
 Bat low = yellow

CE approved

Technical data sheet ref TSS2-14-T

**French:**

Dimensions :- approx.  
 Testeur 190mm x 140mm x 40mm.  
 Hauteur 990mm.  
 Poids :- approx. 7kg  
 Alimentation :- Pile 9V PP3 ou  
 Alimentation secteur (Fiche de données techniques - Réf TSPSU - 01).  
 Entrée C.A. 110V - 260V 50/60 Hz.  
 Sortie C.C. 9V 100mA.  
 Connexions :- 2 Fiches femelles bananes de 4mm pour connexion d'embase  
 Prise jack de 3,5mm pour alimentation.  
 Gamme d'essai :- 900k ohms à 35 mégohms pour chaque pied.  
 Méthode de Mesure :- Résistance.  
 Précision :- +/- 10 %.  
 Méthode d'opération :- Bouton-poussoir de contact.  
 Témoins à DEL :- Réussite = vert (2)  
 Haut - Echec = rouge (2)  
 Bas - Echec = rouge (2)  
 Pile faible = Jaune.

Homologation CE.

Fiche de données techniques - Réf. TSS2 -14 -T.

### ASSEMBLY INSTRUCTIONS FOR ACL-700:

- 1 Insert circular pole through the centre hole in the base plate, locating the square welded end plate into the routed underside of the base foot plinth. Make sure that the stainless steel foot prints are visible.
- 2 Check that the two cables are tightly fastened to the foot print studs, and insert the cables through the centre of the circular tube, until they come out of the top.
- 3 Using the four (4) self tapping screws supplied, fasten the metal base plate to the foot plinth. The remaining two (2) screws hold the tester bracket to the top of the circular tube.
- 4 When the tester bracket is securely fastened, connect the tester by inserting the cable from the right hand foot print via the 4mm banana plug into the banana socket. Insert the left hand banana plug into the banana socket. To make sure that you have the correct in the right and left sockets, as you push the "press to test" button the row of LED's to the right represent the right foot and the row of LED's to the left represent the left foot.
- 5 The whole station now must be screwed to a wall to give complete stability. You can achieve this by using the holes in the bracket holding the tester. When deciding where to have your footwear station choose the area used by all operators leading into the EPA.

## **2-14-T-M + 2-14-T 2 Foot Tester**

**(Testeur pour les 2 pieds / 2-Fuß Prüfgerät /  
2 Probador de pie / 2 Tester calzature)**

### **User Guide**

(Mode D'emploi / Anweisung / Istruzioni Per L'utente / Guía del Usuario)

#### **English:**

Whilst wearing ESD safe footwear or heel/toe grounders, stand on the two metal plates on the tester's base. Press the test button and note the result on both sides of the tester.

LEDs indicate the following:

Top Red LED = High fail.

Green LED = Pass.

Bottom Red LED = Low fail.

Yellow LED indicates battery low.

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#### **French:**

Chaussé des chaussures de protection contre les décharges électrostatiques, ou portant des chaussures à contreforts de protection des talons/orteils, tenez-vous debout sur les deux plaques métalliques situées à la base du Testeur. Appuyez sur le bouton 'Test' et notez le résultat de chaque côté de l'appareil. Les témoins lumineux donnent les indications suivantes :

DEL supérieure rouge = Haut - Echec.

DEL verte = Réussite.

DEL inférieure rouge = Bas - Echec.

La DEL jaune indique que la pile est faible.

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#### **German:**

EGB geeignetes Schuhwerk bzw. Fersen/Zehen Erdungsvorrichtung anziehen und auf den beiden Metallplatten des Prüfgeräts stehen. Die Prüftaste drücken und das Meßergebnis auf beiden Seiten des Prüfgeräts notieren.

LED-Anzeige:

Rote LED (oben) = Fehler (hoher Widerstand)

Grüne LED = Gut

Rote LED (unten) = Fehler (niedriger Widerstand)

Gelbe LED = Batterie erschöpft.

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#### **Italian:**

Indossare calzature a prova di scarica elettrostatica o dispositivi tacco/punta di scarica a terra e posizionarsi sulle due piastre metalliche alla base del tester. Premere il pulsante di controllo e prendere nota del risultato su entrambi i lati del tester. I diodi luminosi

## 2-14-T, 2 Foot Tester & Wrist Strap/Cord Tester.

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### Testing Wrist Bands and Cords.

Using the same decade box, connect one of the two leads to the 4mm banana jack on the right hand side of the tester. The other lead to the "Press to Test" button. Increase the resistance to just inside the pass range and the GREEN pass LED will light. As you increase the testers resistance to above it's highest resistance level the RED high fail LED will light.

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ATTN: Jeff Fisher  
From: Steve Carter.

**ACL MODEL #700  
2 FOOT TESTER  
CALIBRATION INSTRUCTIONS**

**EQUIPMENT NEEDED:**

**RESISTANCE TO DECADE BOX  
TWO TEST LEADS WITH BANANA PLUG CONNECTORS**

1. Connect one lead to the black banana socket on the right rear of the tester. The other to the push button. Changing the resistance of the decade box while depressing the push button.
2. Repeat the same procedure for the left side of the tester.

Parameters were set to 900k low and 35megohms high.

For additional information please contact:

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