

# Verification Tester Operation Instructions



Figure 1. SCS [770065](#) Verification Tester

## Description

The SCS [770065](#) Verification Tester is used to perform periodic test limit verification of the SCS [724](#) Workstation Monitor and [725](#) Portable Wrist Strap Monitor. Verification may be accomplished without removing the monitor from its workstation. The Verification Tester is National Institute of Standards and Technology ([NIST](#)) traceable. Frequency of verification is based on the critical nature of the ESD susceptible items handled. SCS recommends annual calibration of workstation monitors and the Verification Tester. The SCS [770065](#) Verification Tester meets ANSI/ESD S20.20 and Compliance Verification ESD TR53.

The SCS [770065](#) Verification Tester can be used with the following items:

Item	Description
<a href="#">724</a>	Workstation Monitor
<a href="#">724MO</a>	Workstation Monitor, No Power Adapter
<a href="#">724K-WM11</a>	Workstation Monitor Kit
<a href="#">725</a>	Portable Wrist Strap Monitor

## Packaging

- 1 Verification Tester
- 1 Certificate of Calibration

## Operation

### 724 Workstation Monitor

The operator high test limit and test voltage may be configured using the switches located on the right-side of the 724 Workstation Monitor. The test limit may be set to either 10 megohms or 35 megohms, and the test voltage may be set to either 9V or 16V. Take note of the test limit setting before following the instructions listed below. The test voltage may be set to any position.

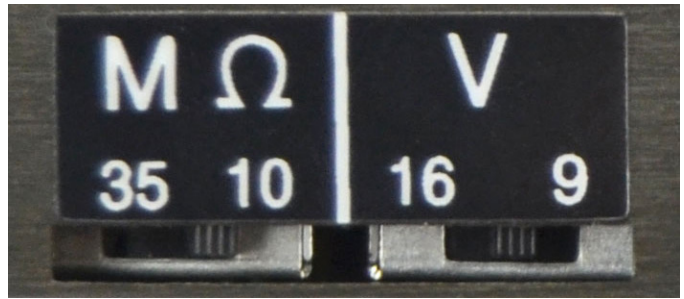


Figure 2. Operator test limit and test voltage switches located on the right-side of the 724 Workstation Monitor

The Verification Tester's ground clip toggle switch is not used in the verification of the 724 Workstation Monitor. It may be set to any position.

1. Insert the Verification Tester's stereo plug into the monitor's operator remote jack #1.



Figure 3. Using the Verification Tester with the 724 Workstation Monitor

2. Select "1.5M LOW" with the operator rotary switch. The monitor's green OK 1 LED should illuminate, and the yellow L LED should blink. The audible alarm should not sound.
3. Select "1.5M PASS" with the operator rotary switch. The monitor's green OK 1 LED should illuminate, and its audible alarm should not sound.
4. Select either "10M PASS" or "35M PASS", whichever one is appropriate, with the operator rotary switch. The monitor's green OK 1 LED should illuminate, and its audible alarm should not sound.
5. Select either "10M HIGH" or "35M HIGH", whichever one is appropriate, with the operator rotary switch. The monitor's red H LED should illuminate, and its audible alarm should sound continuously.
6. Repeat steps 1-5 for jack #2 on the operator remote. The audible alarm will chirp when jack #2 fails high.
6. Select "35M PASS" with the operator rotary switch, and select "10M PASS" with the ground clip toggle switch. The monitor's LED should not illuminate, and its audible alarm should not sound.
7. Select "10M HIGH" with the ground clip toggle switch. The monitor's LED should illuminate, and its audible alarm should sound continuously.

## Specifications

Operating Temperature	50 to 95°F (10 to 35°C)
Environmental Requirements	Indoor use only at altitudes less than 6500 ft. (2 km) Maximum relative humidity of 80% up to 85°F (30°C) decreasing linearly to 50% @ 85°F (30°C)
Dimensions	3.8" L x 2.4" W x .9" H (97 mm x 61 mm x 23 mm)
Weight	0.2 lbs. (0.1 kg)
Country of Origin	United States of America

## 725 Portable Wrist Strap Monitor

1. Select "SHORT" with the Verification Tester's ground clip toggle switch.
2. Connect the monitor's ground clip to the pins located at the top of the Verification Tester. Each conductor on the ground clip should only touch one pin.
3. Insert the Verification Tester's stereo plug into the monitor's operator jack.



Figure 4. Using the Verification Tester with the 725 Portable Wrist Strap Monitor

4. Select "35M PASS" with the operator rotary switch. The monitor's LED should not illuminate, and its audible alarm should not sound.
5. Select "35M HIGH" with the operator rotary switch. The monitor's LED should blink, and its audible alarm should sound.

### Operator Resistance Values:

Setting	Nominal Resistance	% Tolerance of Nominal Resistance
1.5M LOW	1.33 Megohms	±2%
1.5M PASS	1.69 Megohms	±2%
10M PASS	8.45 Megohms	±2%
10M HIGH	11.5 Megohms	±2%
35M PASS	29.4 Megohms	±2%
35M HIGH	40.2 Megohms	±2%

### Ground Clip Resistance Values:

Setting	Nominal Resistance	% Tolerance of Nominal Resistance
SHORT	< 1 Ohm	±2%
10M PASS	4.99 Megohms	±2%
10M HIGH	11.5 Megohms	±2%

These resistance values may be verified using a digital ohmmeter. Connect the ohmmeter's test leads across the Verification Tester's stereo plug. If any value is out of specification, the Verification Tester must be returned to the manufacturer for repair.

### Limited Warranty, Warranty Exclusions, Limit of Liability and RMA Request Instructions

See the SCS Warranty -

<http://staticcontrol.descoindustries.com/warranty.aspx>