



Human System Tester TS-ESD01 Specification

■ Actual Photo



■ Safety Attention

- Please do not disassemble unless necessary
- Please do not use it in dangerous environment (flammable, explosive , etc)
- Please do not use it in high moisture environment

■ Industrial Standards

- Conform ISO/CD8782-I Standard
- Conform to ANSI/ESD S20.20 Standard
- Conform to ANSI/ESD S1.1 Standard
- Conform to ANSI/ESD STM 9.1 Standard
- Conform to ANSI/ESD TR53 Standard
- Conform to IEC 61340-5-1 Standard
- Conform to GJB3007A-2009 Standard

■ Features

- Designed to test system ohm of single/double wire wrist strap and ESD shoes.
- ESD Wrist strap test range: 750K-10M。 (default)
- ESD Shoes: 750K-100M, able to adjust as per needs to user.
- Test accuracy: +/-10%。
- Test results could be shown on both Display and LED indicator--PASS/HIGH/LOW
- Buzzer would be alarmed in case Test Result is unqualified
- Unique touch buttons, which to avoid trouble and decrease the times for maintenance.
- Signal to open the door would be provided when pass the test, and could connect with Gate
- Low voltage to supply power safely
- Quick and stable test.

■ Specification

Subject	Instruction
ESD Shoes Test	Two feet test separately
ESD Wrist Strap Test	Wrist strap-Single and Double
Test Mode	test shoes (double-feet) only/ test wrist strap only / test both
Result Indicator	LED indicator and LCD display
ESD Shoes Test Up and Down limits	750K-500M, adjust as per needs, +/-15%
ESD Wrist Strap Test Up and Down limits	750K-10M。 (default) , +/-10%

Power Supply	Power Adaptor : AC100~240V 50/60Hz; DC 12V
Host exterior dimension	188 x 138 x 33mm (LxWxH)
Working Environment	0°C~60°C, ambient working
Meter Weight	0.46KG
Gross weight(including parts)	5.2KG

■ Interface and ports

Dial Switch A

Dial Switch B

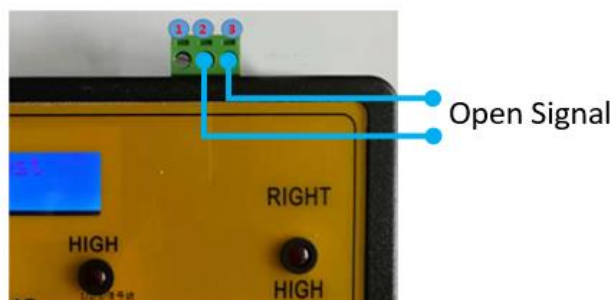


Test Interface

232 Signal Interface

- Remark:

1. ESD Wrist Strap, 2 ESD Shoe Left, 3 ESD Shoe Right,
4. inspect wire connection/earth wire connection



- Remark:

■ Operation Instruction

- Insert Wrist Strap into testing port, two feet step separately onto standing pad.
- Slight touch "PRESS TO TEST" to start test, the test would stop once finger leaves the button. For each test, LCD display would show test result for 2 seconds. If finger pressing time exceeds 5 seconds, the test would also stop.
- test wrist strap, shoes and heel strap at the same time.
- There would be buzzer and signal to open the door once test is passed, then test personnel can enter.

■ Parameters Setting

Dial Switch (A): V.1.16 standard version

Encoder	Direction (Up/Down)	Ohm Range
1. 2. 3. 4	Down Down Down Down	750K-100M
1. 2. 3. 4	Up Down Down Up	100K-100M
1. 2. 3. 4	Up Down Down Down	800K-35M
1. 2. 3. 4	Down Down Down Up	750K-500M

Dial Switch (B): V.1.16 standard version

Encoder	Direction (Up/Down)	Test Function
1. 2. 3. 4	Down Down Down Down	Single loop wrist strap + both feet
1. 2. 3. 4	Down Up Up Down	Feet only

1. 2. 3. 4	Down Up Up Up	Wrist strap only
1. 2. 3. 4	Up Down Down Down	Wrist strap + both feet

■ Test Result (Example)

ESD Shoes: 750K~100M; Wrist Strap: 750K~10M

LED display \ Name Range	FOOTWEAR	WRIST STRAP	Alarm
HI	$R > 100M\Omega$	$R > 10M\Omega$	Yes
PASS	$R \geq 750K\Omega$ $R \leq 100M\Omega$	$R \geq 750K\Omega$ $R \leq 10M\Omega$	NO
LOW	$R < 750K\Omega$	$R < 750K\Omega$	有

■ Abnormal Alarm

Abnormal situation 1: no light or display during the test

Solution: Replace the power supply

Abnormal situation 2: only lights of "High" are on

Solution: Switch line is off, need to weld again.