

Users manual
COMBO TESTER
(Model: CT-03)

The potential for damage caused by a static charge build-up on personnel involved in the handling of semiconductor devices. ESD wrist strap, heel strap, toe-strap and foot wears are most commonly used protective devices which prevent the build-up of electrostatic charge on personnel. The random failure of wrist strap or foot wears compromises the protection. Thus, it is important to test every wrist strap / footwear regularly.

The CT-03 is a friendly user, precision engineered combination tester, and it measures the electrical resistance of LEFT FOOT, RIGHT FOOT and WRIST STRAP individually under actual operating conditions. The tester reduces the testing time by half, and offers the operator a visual and audible measurement of PASS or FAIL of personnel groundings. Moreover the tester has a special feature of controlling the tripod turnstile before entering the EPA.

The tester has special circuits for drift less readings (i.e., it displays only one result accurately). It is very quick and convenient method to check personnel groundings.

FOR CHECKING WRIST STRAP: Connect the wrist strap jack to the instrument and with the strap on the wrist, press & hold the metal sensor on the wrist strap tester. The instrument will check whether the resistance of the wrist strap falls within the acceptable range (0.75 – 10 Meg ohms). This is indicated by the GREEN Led and the TURNSTILE solenoid gets de-energized and the passage can be made.

FOR CHECKING FOOTWEARS: Simply stand on the two stainless steel footprints with footwear on the foot plate, press & hold the metal sensor on the foot wear tester. The instrument will check individually in one test whether the resistance of the footwear's falls within the acceptable range of (0.75 – 100 Meg ohms). This is indicated by the Left & right foot GREEN led's. If both foot wears are PASS the TURNSTILE solenoid gets de-energized and the passage can be made

SPEFIFICATIONS:

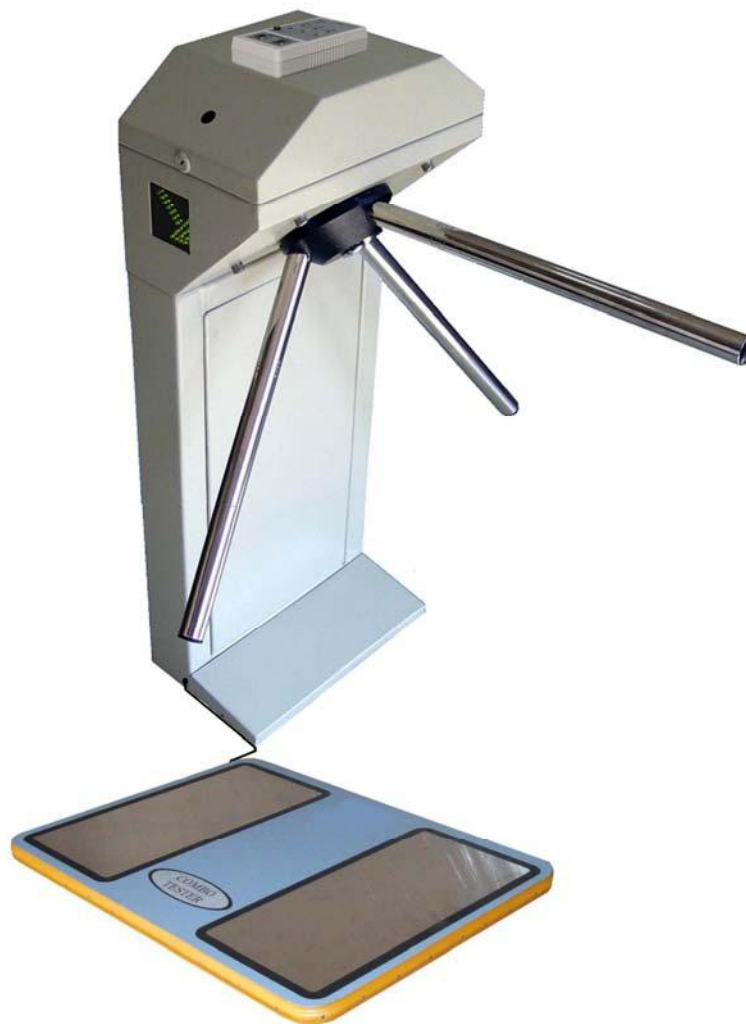
Range	: Wrist strap 0.75 to 10 Meg ohms Left footwear 0.75 to 100 Meg ohms Right footwear 0.75 to 100 Meg ohms
Indications	: Pass - GREEN LED Low & High fail - RED LED with Buzzer sound
Test actuation	: By press & hold the respective sensor plates
Accuracy	: +/- 10%
Power supply	: 9V DC @ 500mA
Power supply status	: By Dual Color LED.
Dimensions in MM	: Instrument: 180 X 100 X 45 mm Foot Plate: 485 x 380 mm
Calibration	: Recommended every 12 months
Warranty	: 12 Months only for Instrument
Accessories	: 9V DC Adopter, Dual foot plate with M.S powder coated frame, S.S sixing clamps for Instruments & Exit switch.

MAINTENANCE: The Combo Tester is designed to be completely maintenance free. There are no parts inside which can be replaced by the user himself. In case of malfunction, kindly refer to manufacturer or his authorised personnel. The instrument and foot plate can be cleaned with a damp cloth. Never use solvent as they may damage the instrument plastic case.

DATA SHEET
COMBO TESTER CONTROLLED ENTRY SYSTEM
(Model: CT-03)

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The model CT-03 Combo Tester Controlled Entry Systems is designed to control of personnel into ESD safe area by measuring foot wears or wrist strap resistance. If the measured resistance is within limits and access is approved, the turnstile unlocks permitting passage. Also the tester offers the operator a visual and audible measurement of PASS or FAIL of the personnel groundings. It is good security system for entry of personnel into the restricted ESD safe area.



Front View of Tester

CT-03 SPECIFICATIONS:

- Range : Wrist strap 0.75 to 10 Meg ohms
Left footwear 0.75 to 100 Meg ohms
Right footwear 0.75 to 100 Meg ohms
- Accuracy : +/- 10%
- Indications : Pass - GREEN LED
Low & High fail - RED LED with Buzzer sound
- Test actuation: By press & hold the respective metal sensor plates
- Power supply : 9V DC Power supply
- Calibration : Recommended every 12 months
- Traceability : Traceable To National Standards



TURNSTILE SPECIFICATIONS:

- Overall Dimensions : L-420 x B-630 x H-1020 mm
- Weight : 40 Kg approx.
- Material Finish : Stainless Steel or Mild Steel powder coated
- Input Power : 230V AC, 50Hz
- Power Consumption : 30 Watt max.
- Tripod Release Time : 3 seconds
- Lane indicator : It indicates lane direction & tripod status
Green arrow mark – GO
Red Cross mark – STOP
- Operation : Entry by the COMBO TESTER
Exit by the SWITCH
- Warranty : 12 Months

Note: The specifications mentioned in this datasheet are subject to change without prior notice due to our continuous research of product development, Buyer or User should decide the suitability of the product for the intended application.