

TE-02 Electrostatic Properties Tester

Purpose:

Apparatus is intended for electrostatic properties testing (surface and vertical resistance) of materials for protective clothing, protective gloves and materials for other use.

Apparatus is made according to the requirements and apply for the tests according to the following standards:

EN 1149-1 Protective clothing – Electrostatic properties – part 1: Test method for measurement

of surface resistivity

EN 1149-2 Protective clothing – Electrostatic properties – part 2: Test method for measurement

of the electrical resistance trough a material (vertical resistance)

EN 420; c. 4.5 Protective gloves – General requirements and test methods

Description of the device:

Device consists of electrical resistance measuring instrument (Ohmmeter) with range of $10^5 \Omega$ to $10^{14} \Omega$ with a limit of errors \pm 5% for range \leq $10^{12} \Omega$ and a limit of errors \pm 20% for range > $10^{12} \Omega$, annular electrodes for surface resistivity and base plate electrode (with insulating plate) for vertical resistance.

Dimension: Ohmmeter: (L) 200 x (W) 155 x (H) 100 mm; Electrodes and base: Ø 100 − 115 x 47 mm;

Weight: Ohmmeter: 1 kg; Electrodes and cables: 2,3 kg;

Power supply: 230 V ~ 50 Hz; 25 W



Operating principle:

Chose program for surface resistivity EN 1149-1 or vertical resistance ΕN 1149-2. Conditioned (and normative prepared) sample is placed between the electrodes described by corresponding and standard) then. automatically applied potential of (100 ± 5) V after (15 ± 1) second determined resistance is read off the screen.

