MANUAL

TOM 100 TERA – Ohmmeter

L.C. TERA – Ohmmeter for surface and down conductor measurement

Contents

Product description

With the *TERA*-Ohmmeter TOM 100 you get a Low Cost measure instrument to measure the surface- and the specific volume resistance.

The measuring electrode is a plastic plate with 100mm x 100m and two Aluminum sheets. On this are two conductive rubber strips with 10cm length in a distance from 10 cm. There is also a lead weight with 2kg included.

With the TOM 100 you get reproducible measurements. If you want measure conform to the standard, than use our TERA – Ohm Meter TOM 600.

The measuring value is from 10^3 Ohm up to 10^{12} Ohm.

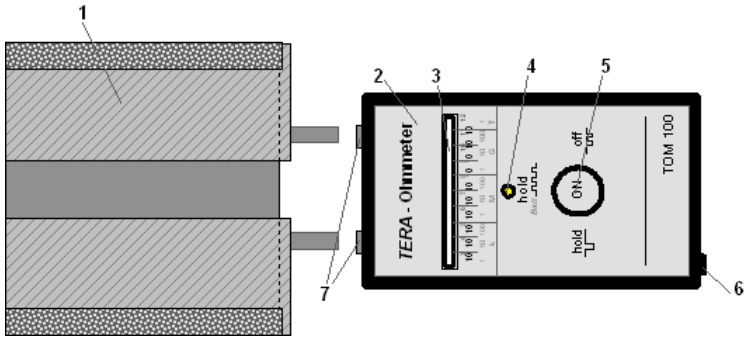
The result is displayed with 10 colored LED´s.

The measuring voltage is 100V !

The internal resistance of the TOM 100 is 100kOhm, that´s why you don´t need a lower measuring voltage !

Optionally you can get a simple instrument to measure the relative humidity and air temperature.

Legend



1 Measuring electrode
2 TOM 100
3 Display 10 x LED
4 Hold LED
5 function/on key
6 Grounding plug
7 Input plugs.

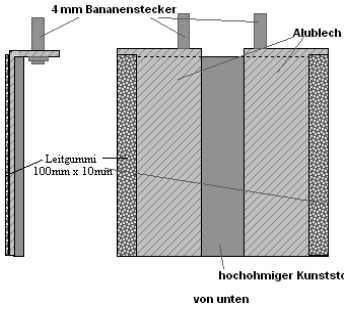
Since the electrode is a square with 100mm x 10mm the measured value is the specific square resistor per m^2.
To get a reproductive pressing on the surface place the lead weight with 2kg on the electrode. This weight together with the conductive rubber strips enables a reproductive measurement. Optional we offer a L.C. Relative humidity and temperature measuring instruments to add these values to the resistor measure.

Specifications

Instrument

Dimensions (L x B x H):	70mm x 122mm x 26mm
Weight :	130g
Measuring Voltage:	100 V
Battery:	9V NiMH-Battery
Working time:	10h

Electrode



Dimensions (L x B):	110mm x 100mm
Distance between the rubbers:	100mm

Weight

Dimensions (L x B x H):	Appr. 100mm x 100mm x 35mm
Material:	Isolated lead
Weight:	2 kg

Operating Instruction

Preparation of the unit

To use the measurement do the following steps:

Surface Resistance :

Put the measuring electrode on to the probe

↓

Poke the TOM 100 on to the electrode

↓

Put the 2kg weight on the electrode

↓

Switch ON

↓

You are ready to measure

Specific volume resistance :

- Connect the TOM 100 only to one plug of the electrode.
- Connect the other one to ground.
- Switch on the unit.

You also can use the instrument without the electrode with the included cords.

Display :

LED 10^3 flashes	R = < 1 x 10^3
LED 10^n shines alone	R = 0,75...1,25 x 10^n
LED 10^{n-1} and 10n shines	R = 0,25...0,75 x 10^n
LED 10^{12} flashes	R = > 10^{12}

Example:

10^5 and 10^6 shines	R = 0,25 ...0,75 x 10^6 (250kΩ.... 750kΩ
10^6 shines alone	R = 0,75 ...1,25 x 10^6 (750kΩ.... 1,25MΩ

Scope of delivery

- Measuring unit
- 9V-Alkaline-Battery
- Measuring electrode
- Weight 2kg
- 2 pce. Silicon cable 1,5m
- Manual
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Optional

Temperature and relative humidity Instrument TFA 100