

# MANUAL

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## TOM 100 TERA – Ohmmeter

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L.C. TERA – Ohmmeter for surface measurement

## Product discription

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 1 dm<sup>2</sup> big. It has a conductive rubber with 10cm length in a distance from 10 cm.

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

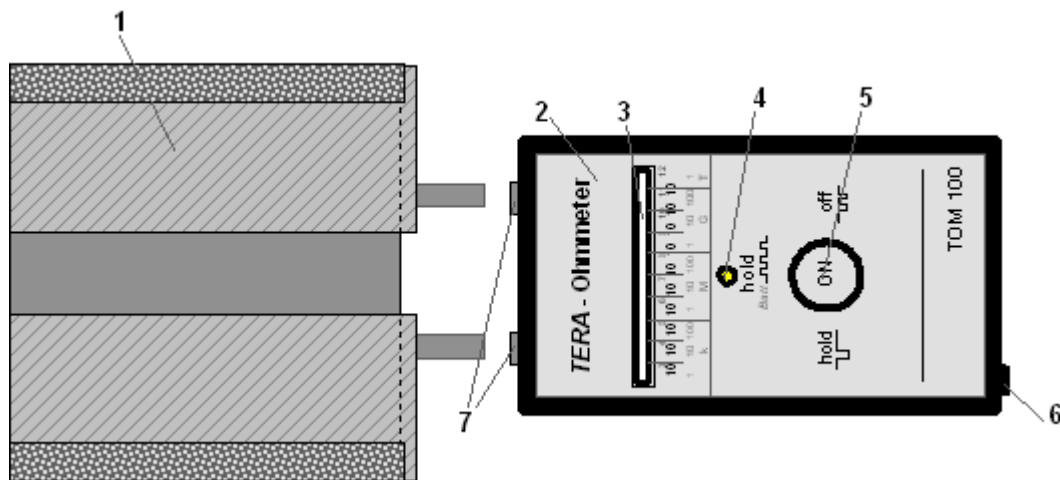
The measuring value is from 10<sup>3</sup> Ohm up to 10<sup>12</sup> Ohm.

The result is displayed with 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 !

## Legend



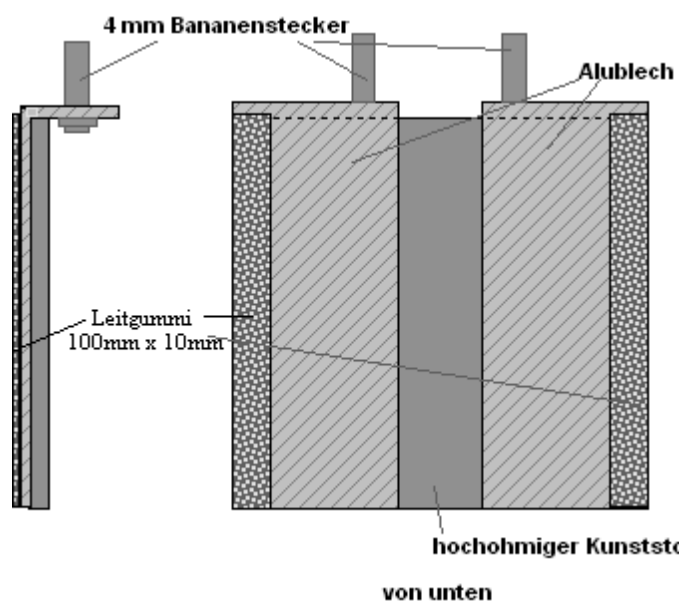
- 1 Measuring electrode
- 2 TOM 100
- 3 Display 10 x LED
- 4 Hold LED

- 5 function/on key
- 6 Grounding plug
- 7 Input plugs.

## Specifications

### Instrument

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



### Electrode

<b>Dimensions (L x B):</b>	110mm x 100mm
<b>Distance between the rubbers:</b>	100mm

### Weight

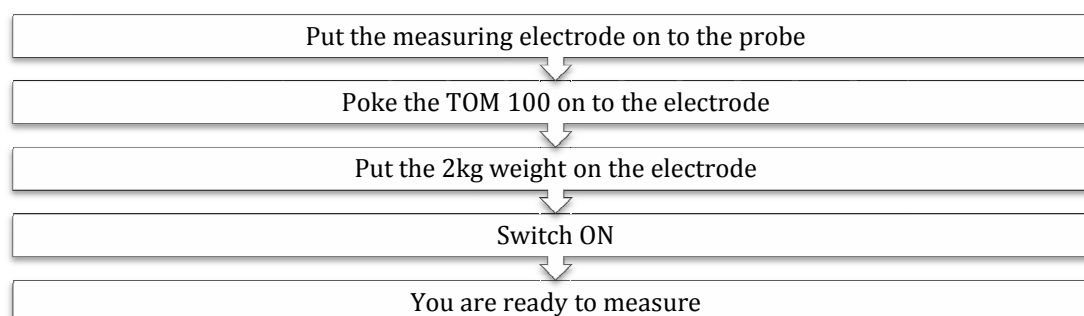
<b>Dimensions (L x B x H):</b>	Appr. 100mm x 100mm x 35mm
<b>Material:</b>	Isolated lead
<b>Weight:</b>	2 kg

## Operating Instruction

### Preparation of the unit

*To use the measurement do the following steps:*

#### Surface Resistance :



**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 can also use the instrument without the electrode.

**Display :**

LED 10 <sup>3</sup> flashes	$R = < 1 \times 10^3$
LED 10 <sup>n</sup> shines alone	$R = 0,75 \dots 1,25 \times 10^n$
LED 10 <sup>n-1</sup> and 10 <sup>n</sup> shines	$R = 0,25 \dots 0,75 \times 10^n$
LED 10 <sup>12</sup> flashes	$R = > 10^{12}$

**Example:**

10 <sup>5</sup> and 10 <sup>6</sup> shines	$R = 0,25 \dots 0,75 \times 10^6$ (250kΩ.... 750kΩ)
10 <sup>6</sup> shines alone	$R = 0,75 \dots 1,25 \times 10^6$ (750kΩ.... 1,25MΩ)

**Parts included****TOM 100**

- Measuring unit
- 9V-NiMH-Battery
- Plug charger for EC109
- Measuring electrode
- Weight 2kg
- Silicon cable 1m (blue) and 1m (red)
- case