

# T 99/1 – Test unit 40 kV

## Insulation testing of cables, cable fittings, equipment and installations

**Megger**<sup>®</sup>



- For testing of cables and MV-plants
- Ideal for field applications
- Light, compact design
- High level of safety due to internal discharge unit
- Overcurrent trip

### DESCRIPTION

The T 99/1 High Voltage Test Unit is a powerful portable device able to generate a DC voltage of up to 40 kV.

The T 99/1 is used for:

- Testing newly installed cables, joints, equipment and installations up to 40 kV
- Locating high-impedance and intermittent cable faults in low and medium voltage systems through the decay method in conjunction with a TDR (Time Domain Reflectometer)
- Converting high-impedance and intermittent cable faults into low-resistance faults (burning)

The touch-voltage-proof enclosure of all HV parts and the auto-discharge of test objects after shutdown / power failure maximises operator safety. The short-circuit proof design and high output current of the T 99/1 also make it suitable for cable fault location (Decay method).

### Technical features

- Portable
- Continuously adjustable voltage up to 40 kV
- Current measurement in three ranges: 200  $\mu$ A, 2 mA, 20 mA
- 12 V battery and 230 V mains operation
- Built-in discharge unit and automatic discharge after shutdown, power failure or upon pressing the discharge button
- Integrated timer, adjustable from 0 - 60 min
- Controlled output voltage
- Overcurrent trip

## TECHNICAL DATA\*

### T 99/1

<b>No-load voltage</b>	0 ... - 40 kV DC
<b>Short-circuit current</b>	approx. 15 mA
<b>Overcurrent trip</b>	at 2 mA (can be deactivated)
<b>Max. Current at 35 kV</b>	2,5 mA
<b>Power supply</b>	Mains 230 V AC ± 10 % External battery 12 V DC
<b>Max. discharge capacity</b>	10 µF
<b>Power consumption</b>	approx. 220 VA
<b>Dimensions (W x H x D)</b>	260 x 160 x 400 mm
<b>Weight</b>	approx. 15 kg

## SCOPE OF DELIVERY

- T99/1
- HV connection cable 3 m
- LV cable set

## ORDERING INFORMATION

Product	Order no.
<b>T 99/1 DC test system 40 kV consisting of:</b>	
T 99/1 DC test system (incl. HV connection- and ground lead, manual)	892502429
<b>Mandatory selection mains cable (1x)</b>	
Mains cable EU	810000024
Mains cable UK	118307335
Mains cable US	502025220
Mains cable AUS	90020435
<b>Optional:</b>	
<b>HV connection cable 10 m</b>	890019739
<b>HV connection cable 15 m</b>	890019967
<b>HV connection cable 20 m</b>	2004994
<b>Battery connecting cable 10 m, 2 x 4 mm<sup>2</sup>, including battery clip</b>	893020635
<b>Accessory bag</b>	892480883
<b>Calibration certificate T99/1</b>	2004130

\* We reserve the right to make technical changes.

### SALES OFFICE

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### T99-1\_DS\_EN\_V02

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