

# 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 $\pm$ 10 %<br>External battery 12 V DC |
| <b>Max. discharge capacity</b> | 10 $\mu$ F  |
| <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><br>T 99/1 DC test system (incl. HV connection- and ground lead, manual) |           |
| <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.

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