



Test Unit 40 kV T 99/1

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

Benefits

- ▶ **Ideal for field application**
- ▶ **Light weight and compact design**
- ▶ **High safety due to internal discharge unit**



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 Test Unit 40 kV T 99/1 is used for:

- ▶ Testing the disruptive strength of cables, cable fittings, equipment and installations with max. 40 kV
- ▶ Locating high-impedance and intermittent cable faults in low and medium voltage systems as per 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 high-voltage parts and the automatic discharging of the test object after shutdown / power failure ensure maximum protection for the operator. The short-circuit proof design and high output current of the T 99/1 40 kV test unit also make it suitable for cable fault location (Decay method).

Technical Features

- ▶ Low weight (high voltage cascade embedded in insulating gas [SF₆])
- ▶ Voltage continuously variable up to 40 kV
- ▶ Current measurement in three ranges: 200 µA, 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 key
- ▶ Integrated timer, adjustable from 0 ... 60 min
- ▶ Controlled output voltage
- ▶ Overcurrent shutdown

Technical Data

No-load voltage	40 kV DC
Short-circuit current	approx. 15 mA
Overcurrent trip	at 2 mA (can be deactivated)
Current at 35 kV	2.5 mA
Power supply	Mains 230 V AC ± 10 % External battery 12 V DC
Max. discharge capacity	10 µF
Power consumption	approx. 220 VA
Dimensions (B x H x T)	260 x 160 x 400 mm
Weight	approx. 15 kg

Scope of Delivery

- ▶ T 99/1 Test Set 40 kV
- ▶ Connecting leads
- ▶ Operation manual

Optional Accessories

- ▶ Battery connecting cable 10 m, 2 x 4 mm², including battery clip
- ▶ Accessory bag
- ▶ Safety resistor < 70 kV