

# **Test Unit 40 kV**

## **T 99/1**

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



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

**seba KMT**



# Test Unit 40 kV T 99/1

## 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 [SF<sub>6</sub>])
- 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 to 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	260 x 160 x 400 mm (approx. 10,25" x 6,25" x 15,75")
Weight	approx. 15 kg (33 lbs)

## Scope of Delivery

- T99/1 Test Set 40 kV
- connecting leads
- operation manual

## Optional Accessories

- Battery connecting cable 10 m, 2 x 4 mm<sup>2</sup>, including battery clip
- Accessory bag
- Safety resistor < 70 kV

ISO 9001:2000

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