

## High-voltage test system T 22/1

### High voltage testing up to 75 kV<sub>RMS</sub> AC / 80 kV DC



- **Compact and light**
- **Continuous testing with AC voltages up to 75 kV<sub>RMS</sub> at 1 kVA**
- **Expandable with a second transformer for testing up to 150 kV<sub>RMS</sub>**
- **Built-in overload protection**
- **DC testing up to 80 kV with optional rectifier**

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#### DESCRIPTION

The High-voltage test system T 22/1 is a portable test set consisting of two separate units: the control unit and the high-voltage unit. This division enables the operator to use the test set on site without transport aids. The test set can be equipped with a rectifier attachment for DC voltage testing up to 80 kV.

The Test Set T 22/1 is used for:

- AC voltage testing of low capacity test objects (e. g. metal-enclosed high voltage switchgears)
- DC voltage testing of cable systems and equipment up to 80 kV using a rectifier attachment

The light and compact high-voltage transformer, insulated with insulating gas (SF<sub>6</sub>), produces a high voltage of 75 kV<sub>rms</sub>. The voltage is continuously adjustable from 0 – 75 kV using a regulating transformer.

In the basic version for AC voltage testing, the output voltage is calculated and indicated by measuring the primary voltage of the high-voltage transformer and converted using the turn factor (M 402 measuring unit).

Alternatively, the voltage can be measured on high-voltage potential cables by using a measuring resistor and the M 402/1 unit.

DC voltage can be generated using the optional rectifier attachment. The voltage is then measured by using a separate measuring resistor and the M 401 measuring unit.

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#### TECHNICAL DATA\*

##### T 22/1

<b>Power consumption P<sub>N</sub></b>	1 kVA
<b>Power consumption short-time P<sub>k</sub> (1 min)</b>	4 kVA
<b>Input voltage</b>	230 V / 50 ... 60 Hz
<b>Output voltage</b>	0 ... 75 kV <sub>RMS</sub> (basic version) 0 ... 150 kV <sub>RMS</sub> (upgrade version 150 kV <sub>RMS</sub> ) 0 ... 80 kV <sub>DC</sub> (upgrade version 80 kV <sub>DC</sub> )
<b>Measuring range</b>	0 ... 80 kV <sub>RMS</sub> (basic version, multiply by factor two for upgrade version 150 kVrms) 0 ... 60 kV / 0 ... 120 kV <sub>DC</sub> (upgrade version 80 kV <sub>DC</sub> )
<b>Precision</b>	2.5 %
<b>Output current</b>	0 ... 13 mA 50 mA maximum (1 min)
<b>Measuring range</b>	0 ... 20 A <sub>RMS</sub> (basic version), 0 ... 200 μA / 0 ... 2 mA / 0 ... 20 mA DC (upgrade version 80 kV <sub>DC</sub> ) 0 ... 60 mA <sub>RMS</sub> (option current measurement HV potential)

##### Control unit T 22/124

<b>Weight</b>	19 kg
<b>Dimensions (W x H x D)</b>	551 x 255 x 380 mm

##### Transformer T 22/12

<b>Weight</b>	29 kg
<b>Dimensions (Ø x H)</b>	420 x 560 mm

#### FEATURES

- Continuous testing with AC voltages up to 75 kV at 1 kVA
- Separate control and HV-unit
- Built-in overload protection
- DC Voltage testing with optional rectifier attachment

#### SCOPE OF DELIVERY

- Control Unit
- Transformer
- Set of cables T 22/1 incl. bag
- Filling device
- Secondary current measurement

#### ORDERING INFORMATION

Product	Order no.
<b>T 22/1 High voltage test set</b>	
T 22/1 High voltage test set (control unit, HV, Transformer, set of cables)	892502151
Filling adapter for SF6 transformer	118304872
<b>Option:</b>	
Upgrade to 80 kV <sub>DC</sub>	892504480
Upgrade to 150 kV <sub>RMS</sub>	892502152
Voltage measurement on HV-potential	899000409
Earthing stick 100 kV	810327
Transport case (offshore)	90015989

\* The information in this document is subject to change without notice and should not be construed as a commitment by Megger Germany. Megger Germany assumes no responsibility for any errors that may appear in this document.

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