

High-voltage test system T 22/1

High voltage testing up to 75 kV_{RMS} AC / 80 kV DC



- Compact and light
- Continuous testing with AC voltages up to 75 kV_{RMS} at 1 kVA
- Expandable with a second transformer for testing up to 150 kV_{RMS}
- Built-in overload protection
- DC testing up to 80 kV with optional rectifier

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 (SF₆), produces a high voltage of 75 kV_{rms}. 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 (M402 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.

TECHNICAL DATA*

T 22/1

Power consumption P_N	1 kVA
Power consumption short-time P_k (1 min)	4 kVA
Input voltage	230 V / 50 ... 60 Hz
Output voltage	0 ... 75 kV _{RMS} (basic version) 0 ... 150 kV _{RMS} (upgrade version 150 kV _{RMS}) 0 ... 80 kV _{DC} (upgrade version 80 kV _{DC})
Measuring range	0 ... 80 kV _{RMS} (basic version) 0 ... 60 kV / 0 ... 120 kV _{DC} (upgrade version 80 kV _{DC})
Precision	2.5 %
Output current	0 ... 13 mA 50 mA maximum (1 min)
Measuring range	0 ... 20 A _{RMS} (basic version), 0 ... 200 µA / 0 ... 2 mA / 0 ... 20 mA DC (upgrade version 80 kV _{DC}) 0 ... 60 mA _{RMS} (option current measurement HV potential)

Control unit T 22/124

Weight	19 kg
Dimensions (W x H x D)	551 x 255 x 380 mm

Transformer T 22/12

Weight	29 kg
Dimensions (Ø x H)	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 T 22/124
- Transformer T 22/12
- Set of cables T 22/1

ORDERING INFORMATION

Product	Order no.
T 22/1 High voltage test set	892502151
Filling device for transformer (mandatory)	118304872
Option:	
Upgrade to 80 kV_{DC}	892504480
Upgrade to 150 kV_{RMS}	892502152
Voltage measurement on HV-potential	899000409
Current measurement on HV-potential	899000407
Earthing stick 100 kV	810327
Transport case	90015989

* We reserve the right to make technical changes.

SALES OFFICES
T221_DS_EN_V01