

Easytest 20 kV

Easytest - the quick AC cable tester

Reliable and easy after repair- and commissioning testing

Benefits:

- ▶ Easy to operate
- ▶ Configurable test sequences
- ▶ Compact, rugged and lightweight design
- ▶ No polarisation effects
- ▶ Full AC voltage testing



Function description

Quick and reliable testing after installing or repairing cable systems has an increasing importance.

Reconnecting the voltage without testing is a risk and is in accordance with most standards and internal regulations not permitted.

A typically applied method is a five- or ten-minute DC test in the operating voltage range. Either simple DC testers or insulation testers are used; however, with maximum voltages of 10 kV, they seldom come close to the operating voltage range.

It is a well-known fact that – particularly for XLPE cables – testing with DC voltage is useless, and if the cables are old, it can even cause additional ageing or damage due to polarisation effects.

Looking at this current practice, it soon becomes clear that DC voltage tests can only reveal the most serious problems. Hidden problems cannot be detected in this way, and therefore lead to breakdowns during operation following the test.

SebaKMT solved this problem and developed a very small, lightweight testing device which offers the advantage of alternating voltage. With an output voltage of 20 kV and 0.1 Hz AC at 0.5 μF and up to 2.5 μF at 0.02 Hz, the Easytest provides sufficient power to test cables up to 2 km lengths at 0.1 Hz in the 20 kV range with a test voltage of 1.7 U_0 .

A DC voltage module with leakage current measurement is available for testing of PVC and PILC.

The testing options are completed by a sheath testing function and pulsed output voltage for sheath fault pinpointing.

An optional logging function allows the measured data to be recorded on a USB memory stick and in combination with the Winkis/chip card version, also allows all test parameters to be set directly using the PC. When the chip card is inserted, the test parameters contained on it are loaded directly to the Easytest, and once the test has taken place, the readings are stored on the chip card.

Standard accessories

- ▶ Connection cable for HV, mains supply and earth
- ▶ Accessory bag
- ▶ Operating manual
- ▶ Carrying belt
- ▶ Trolley

Technical data

AC cable tester 0 ... 20 kV	0.5 μF @ 0.1 Hz 1 μF @ 0.05 Hz 2.5 μF @ 0.02 Hz 5 μF @ 0.01 Hz
DC testing	0 ... 20 kV with leakage current measurement
Leakage current measurement	1 mA measuring range
Breakdown detection	Visual signalisation
Timer	0 ... 60 minutes, 5 min intervals
Sheath testing	0 ... 5 kV, 0 ... 10 kV
Sheath fault location	0 ... 5 kV, 0 ... 10 kV, DC, duty cycling 1:3
Safety	F-ohm monitoring/ emergency stop, HV key interloc
Supply	110 V or 230 V, 750 W
Dimensions	480 x 290 x 495 mm
Weight	17 kg
Protection class	IP 54 with lid closed
Operating temperature	-20 °C ... +50 °C
Storage temperature	-20 °C ... +60 °C

Options

- ▶ Logging by USB stick or chip card via Winkis VLF

External back voltage protection by:

- ▶ Additional timer function for delayed HV ON permitting to leave the HV switchgear area
- ▶ The system is switched off in the event of back voltage and the HV output is opened by a circuit breaker
- ▶ Visual and audible indication of detected back voltage
- ▶ Step voltage receiver ESG 80 for sheath fault pinpointing

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ISO 9001:2000

Technical data subject to change without notice.
LFT_Easytest 20 kV_eng_2008_29