

## Easytest 20 kV

# The quick VLF cable tester – reliable and easy after repair and commissioning testing



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

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### DESCRIPTION

Quick and reliable testing after installing or repairing a cable system has become increasingly important.

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

A typical method of testing 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 DC voltage testing is useless – particularly for XLPE cables. Moreover if the cables are old, DC voltage testing can 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, which leads to breakdowns during operation following the test.

Megger solved this problem by developing Easytest, 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  $\mu$ F and up to 2.5  $\mu$ F at 0.02 Hz, the Easytest provides sufficient power to test cables up to 2 km in length at 0.1 Hz in the 20 kV range with a test voltage of 1,7 U<sub>0</sub>.

A DC voltage module with leakage current measurement is available for testing both 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 saved on a USB memory stick. In combination with the Winkis/chip card version, all test parameters can be set directly from the PC. After inserting the chip card, the test parameters saved on it are loaded directly to the Easytest, and once the test has taken place, the readings are stored on the chip card.

## TECHNICAL DATA\*

### Easytest 20 kV

<b>AC testing</b>	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
<b>DC testing</b>	0 ... 20 kV with leakage current measurement
<b>Leakage current measurement</b>	Automatic change-over between two measuring ranges: 0 ... 1 mA 1 ... 50 mA
<b>Breakdown detection</b>	Visual signalisation
<b>Timer</b>	0 ... 60 minutes, 5 min. intervals
<b>Sheath testing</b>	0 ... 5 kV, 0 ... 10 kV
<b>Sheath fault location</b>	0 ... 5 kV, 0 ... 10 kV DC, duty cycling 1:3
<b>Safety</b>	F-Ohm monitoring/emergency stop, HV key interloc
<b>Supply</b>	110 V or 230 V, 750 W
<b>Dimensions (W x H x D)</b>	480 x 290 x 495 mm
<b>Weight</b>	17 kg
<b>Protection class</b>	IP 54 with closed lid
<b>Operating temperature</b>	-20 °C ... +50 °C
<b>Storage temperature</b>	-20 °C ... +60 °C

## OPTIONS

- **Logging**  
by USB stick or chip card via Winkis VLF
- **Pinpointing**  
Step voltage receiver ESG NT for sheath fault pinpointing
- **External back voltage protection**  
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 operated by a circuit breaker. Visual and audible alerts indicate detected back voltage.
- **Trolley**

## STANDARD ACCESSORIES

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

## ORDERING INFORMATION

Product	Order no
Easytest 20 kV	820007931
<b>Options:</b>	
Reporting (USB)	820007931
Back voltage protection	820007563
Trolley	890009658
ESG NT	1004629-S

\* We reserve the right to make technical changes.

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### CERTIFICATION ISO

Registered to ISO 9001 Cert. no. 000677 QM08

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