

## 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**

### 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 not permitted by most standards and internal regulations.

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.

If a cable is old, it is a well-known fact that DC voltage testing is useless – particularly for XLPE cables. Moreover if the cables are old, the polarisation effects of DC voltage testing can cause additional ageing or damage.

Looking at this current practice, it is 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  $\mu\text{F}$  (and up to 2.5  $\mu\text{F}$  at 0.02 Hz), the Easytest provides sufficient power to test 20 kV cables that are up to 2 km in length at 0.1 Hz with a test voltage of 1.7  $U_0$ .

A DC voltage module with leakage current measurement is available for testing with both PVC and PILC. A sheath testing function and pulsed-output-voltage for sheath fault pinpointing complete the module's testing options.

Measured data can be saved to a memory stick with the optional logging function. 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. 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 be- tween 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 functionality for delayed HV ON, allow-  
ing you 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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### EASYTEST20KV\_DS\_EN\_V01

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