



Easytest 20 kV



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sebaKMT
A member of Megger Group

Easytest – the quick VLF cable tester

Reliable and easy after repair and commissioning testing

Special features

- 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 cable systems has an increasing importance.

Reconnecting the voltage without testing is a risk and, 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 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, and therefore lead to breakdowns during operation following the test.

SebaKMT solved this problem and developed 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 μ F and up to 2.5 μ F 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 U₀.

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 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.



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Technical data

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|-----------------------------|---|
| AC testing | 0 ... 20 kV 0,5 μ F @ 0.1 Hz 1 μ F @ 0.05 Hz 2,5 μ F @ 0.02 Hz 5 μ F @ 0.01 Hz |
| DC testing | 0 ... 20 kV with leakage current measurement |
| Leakage current measurement | Automatic change-over between two measuring ranges: 0 ... 1 mA 1 ... 50 mA |
| 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 interlock |
| Supply | 110 V or 230 V, 750 W |
| Dimensions (B x H x T) | 480 x 290 x 495 mm |
| Weight | 17 kg |
| Protection class | IP 54 with closed lid |
| Operating temperature | -20 °C ... +50 °C |
| Storage temperature | -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 indication of detected back voltage
- » **Trolley**

Standard accessories

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