

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
- Ideal for quick voltage test before putting a cable into operation

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 μF (and up to 2.5 μF 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 MeggerBook/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.

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TECHNICAL DATA*

AC testing	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 (automatic frequency adjustment)
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 interloc
Supply	110 V oder 230 V, 750 W
Dimensions (W x H x D)	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 chip card and reporting software "MeggerBook lite"
or via USB stick and reporting software "Easyprot"
- Pinpointing
Step voltage receiver ESG NT2 for sheath fault pinpointing
- External back voltage protection
Additional timer functionality for delayed HV ON, allowing 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 consisting of:	
Easytest 20 kV test system (incl. connection leads, manual)	820007466
Mandatory selection mains cable (1x)	
Mains cable EU	810000024
Mains cable UK	118307335
Mains cable US	502025220
Mains cable AUS	90020435
Options:	
Reporting (USB)	820009645
MeggerBook Lite + option chip card reader (USB reporting compulsory)	2016452
Back voltage protection	820007563
Trolley	890009658
External safety unit for stand-alone system	128309600
ESG NT2	1014430

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