

VLF SINE 34 kV

Test system for medium voltage cables



- High test capacity of 5 μ F
- Suitable for outdoor use (IP 54)
- Single-button operation
- Integrated safety system
- Reporting
- Continuous duty cycle

DESCRIPTION

The **VLF sine wave 34 kV** is a compact, robust and portable VLF sine wave test system for medium voltage cables.

The design, optimized for rapid transportation and quick setup, and the continuous duty cycle make the system an ideal tool for routine cable testing.

For both 0.1 Hz sine wave voltage tests and rectangular or DC voltage tests, the **VLF sine wave 34 kV** fulfils the highest demands of test voltage quality and stability. Moreover, the integrated "breakdown detection" shuts down the test voltage in the event of an excessive charge current and guarantees limited damage to the cable.

Consistent single-button operation combined with a sophisticated operating concept allows fast and targeted use of the system.

The integrated USB port enables seamless reporting.

The **VLF sine wave 34 kV** is a multi-purpose device: it can be used for cable testing, sheath testing, and in combination with the optional step voltage probe ESG NT2, for sheath fault pinpointing.

The system can also be used as a voltage source for the optional tan delta measurement and partial discharge attachments and can be easily expanded to a universal testing and diagnostic system.

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TECHNICAL DATA*

Output voltage

| | |
|-------------------------|--|
| VLF sine wave | 0 ... 24 kV _{RMS} / 0 ... 34 kV _{peak} |
| DC voltage | ±0 ... 34 kV |
| VFL rectangular voltage | 0 ... 34 kV |
| Precision | ± 1 % |
| Resolution | 0.1 kV |

Output current

| | |
|-----------------|-------------|
| Measuring range | 0 ... 14 mA |
| Precision | ± 1 % |
| Resolution | 1 µA |

General

| | |
|--------------------------|--|
| Frequency range | 0.01 Hz ... 0.1 Hz |
| Output | autom. frequency adjustment 0.6 µF @ 0,1 Hz at 24 kV _{RMS} 5 µF @ 0,01 Hz at 21 kV _{RMS} |
| Input voltage | 100 V ... 260 V, 50/60 Hz, 400 VA |
| Sheath testing | 0 ... 5 kV, 0 ... 10 kV DC |
| Sheath fault pinpointing | 0 ... 5 kV, 0 ... 10 kV DC, Pulse rate 1:3 and 1:4 |
| Safety | Earth loop ground monitoring, autom. discharging of the test object |
| Dimensions (W x H x D) | 520 x 450 x 300 mm |
| Weight | 25 kg |
| Protection class | IP 20/IP 54 (operation/transportation) |
| Operating temperature | -20 °C ... +55 °C |
| Storage temperature | -25 °C ... +70 °C |

FEATURES

- Testing without operational interruptions
- AC testing in compliance with DIN VDE, EN, IEEE
- Compact, rugged, lightweight and IP 54 for transportation
- Sheath testing and sheath fault pin-pointing acc. to IEC 60229
- Maximises user safety through automatic discharge of the test object and earth loop ground monitoring
- Breakdown detection and load recognition (R, C)
- Quick & easy logging, and updates via USB port

SCOPE OF DELIVERY

- VLF sine wave 34 kV
- Accessory bag
- HV connection cable 5 m
- Mains cable / grounding cable
- USB stick for reporting
- Easyprot reporting software

ORDERING INFORMATION

| Product | Order no. |
|--|-----------|
| VLF sine wave 34 kV consisting of: | |
| VLF sine wave 34 kV test system | 890026134 |
| Mandatory selection lead set (1x) | |
| Lead set „standard“ | 890020757 |
| Lead set „NAFTA“ | 2008779 |
| Mandatory selection mains cable (1x) | |
| Mains cable EU | 810000024 |
| Mains cable UK | 118307335 |
| Mains cable US | 502025220 |
| Mains cable AUS | 90020435 |
| Options: | |
| External safety unit for stand-alone systems | 128309600 |
| HV connection cable VLF sine wave 34, 10m | 2009692 |
| HV connection cable VLF sine wave 34, 15m | 118303277 |
| HV connection cable VLF sine wave 34, 10m (NAFTA) | 2008781 |
| HV connection cable VLF sine wave 34, 15m (NAFTA) | 2008782 |
| External tan delta attachment (see tan delta attachment datasheet) | |
| PDS 62-SIN PD attachment (see PDS 62-SIN datasheet) | |
| Calibration certificate VLF sine wave 34 kV | 2004131 |

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