



Evaluate the condition of cables using VLF or DC voltage

Features

- Extremely compact high-power VLF test device
- Easily portable for 1-2 people
- Simple operation: menu-assisted control with industrial class OLED display
- Fully automatic test sequence
- Integrated timer 1-300 min with automatic tripping
- Integrated breakdown detection
- Integrated fault time detection
- Voltage measurement direct at HV output
- Protective ground connection
- High voltage start key interlock
- Protective circuit / indication in accord. with EN 50191
- Leakage current measurement during VLF test



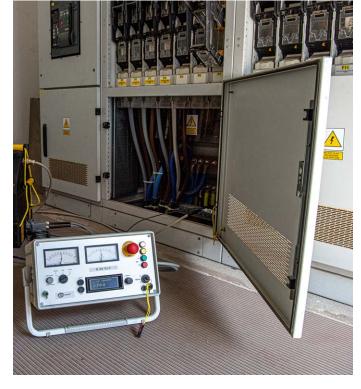
Overview

The compact, robust and portable S VLF cable test sets are used for testing of medium voltage cables in accordance to the standards IEEE400, IEC 60502-2, CENELEC HD 620 & 621 and DIN VDE 0276/620 & 621. The test is carried out with a low strain practice with VLF (very low frequency) test voltage at 0.1 Hz frequency.

VLF test enables detection of damages of the insulation within shortest test time. The S VLF series device can test cables with extruded insulation (XLPE-, PE-, EPR-insulation) as well as cables with paper-oil insulation (PILC). Cable sheath testing with direct voltage is also possible.

Optional features

- Data logging (USB stick) for VLF test sets
- Frequency extension: 0.05 + 0.02 Hz
- Customized test cables
- Transport case





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Technical specification

		S-24 VLF	S-36 VLF	S-44 VLF		S-57 VLF
Index		WMUSS24VLF	WMUSS36VLF	WMUSS44VLF	WMPAS44VLF	WMUSS57VLF
Power supply		230 V (±10%) 10 A, 50/60 Hz	230 V (±10%) 10 A, 50/60 Hz	230 V (±10%) 10 A, 50/60 Hz	110 V (100 V127 V) 15 A, 50/60 Hz	230 V (±10%) 10 A, 50/60 Hz
Output voltage		$\begin{array}{c} 024 \text{kV}_{\text{RMS}} \text{VLF 0.1 Hz} \\ \text{(option: } 0.05 \text{Hz} + 0.02 \text{Hz)} \\ \pm 034 \text{kV DC} \end{array}$	$036 \text{ kV}_{\text{RMS}} \text{ VLF } 0.1 \text{ Hz}$ (option: $0.05 \text{ Hz} + 0.02 \text{ Hz}$) $\pm 052 \text{ kV DC}$	$044 \text{ kV}_{\text{RMS}} \text{ VLF } 0.1 \text{ Hz}$ (option: $0.05 \text{ Hz} + 0.02 \text{ Hz}$) $\pm 062 \text{ kV DC}$	$044 \text{kV}_{\text{RMS}} \text{VLF } 0.1 \text{Hz}$ (option: $0.05 \text{Hz} + 0.02 \text{Hz}$) $\pm 062 \text{kV DC}$	057 kV _{RMS} VLF 0.1 Hz (option: 0.05 Hz + 0.02 Hz ± 062 kV DC
Voltage waveshape	VLF	similar sine-wave, symmetrical, with True RMS measurement				
	DC	direct voltage, negative and positive polarity				
Overcurrent trip (DC)		10 mA				
Max. testable cable length, max. capacitance (VLF)		up to 60 km (15 µF at 24 kV _{RMS} , 0.02 Hz)*	up to 60 km (15 µF at 18 kV _{RMS} , 0.02 Hz)*	up to 60 km (15.0 µF at 18 kV _{RMS'} 0.02 Hz)*	up to 60 km (15.0 μF at 6 kV _{RMS} , 0.02 Hz)*	up to 60 km (15.0 μF at 18 kV _{RMS} , 0.02 Hz)*
		*at a cable capacitance of approx. 0.25 μF/km				
Max. load at max. output voltage (VLF) and 0.1 Hz		5 μF at 24 kV _{RMS}	2.4 µF at 36 kV _{RMS}	1.6 µF at 44 kV _{RMS}	1.0 µF at 44 kV _{RMS}	0.55 μF at 57 kV _{RMS}
Discharge - integrated automatic discharge device		max. 9000 J	max. 12500 J	max. 12500 J	max. 12500 J	max. 12500 J
Voltage measuring range		-40040 kV accuracy ±1%	-60060 kV accuracy ±1%	-70070 kV accuracy ±1%	-70070 kV accuracy ±1%	-70070 kV accuracy ±1%
Current meas	uring		±	0100 μA / 1 mA / 10 m	nA	
Operating temperature				-20+45°C -4+113°F		
Storage temperature				-25+70°C -13+158°F		
Duty				continuous operation		
PC interface				USB stick		
Construction		in two parts: operation unit and high voltage unit				
Dimensions and weight	Operation unit	37 x 34 x 20 cm n 14.6" x 13.4" x 7.9" 17 kg 37.5 lbs				
	High voltage unit	40 x 41 x 24 cm 15.7" x 16.1" x 9.4" 38 kg 83.8 lbs	40 x 44 x 24 cm 15.7" x 17.3" x 9.4" 48 kg 108.5 lbs	40 x 44 x 24 cm 15.7" x 17.3" x 9.4" 49 kg 108 lbs	40 x 44 x 24 cm 15.7" x 17.3" x 9.4" 49 kg 108 lbs	40 x 44 x 24 cm 15.7" x 17.3" x 9.4" 49 kg 108 lbs

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Standard accessories



High voltage connecting cable (shielded) 5 m

Bridging cables



Connecting cable between high voltage unit and station ground



Connecting cable between operation unit and protective ground



Service pack



Start keys



Case





User manual

Optional accessories



USB stick for data logging

WAADAHVVLFDL



Case with wheels \WAWALVLF2



Frequency extension 0.05 Hz + 0.02 Hz

WAADAHVVLFFE



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