

HVA45TD

VLF High Voltage Test Set with integrated Tan Delta

- VLF and DC Output
- Tan Delta Diagnostics (TD)
- Leakage Guard®
- Monitored Withstand Test (MWT)
- Sheath Test
- Sheath Fault Location Mode
- Vacuum Bottle Test
- Upgradeable with partial Discharge System
- Insulation Testing

The HVA45TD with integrated Tan Delta allows **testing** and **diagnostics** of medium voltage cables. It performs **VLF** and **DC** testing, **sheath testing**, **sheath fault location mode** and **leakage current correction**. Assessments of cable condition can also be carried out by use of **Tan Delta Diagnostics**.

New - the recently introduced **Monitored Withstand Test (MWT)**, a combination of withstand testing and Tan Delta Diagnostics in compliance with IEEE 400.2-2013, can be performed.

Performance - the HVA45TD offers outstanding features in terms of size, weight (36 kg) and performance (max. 10 μ F). A dry design (no oil inside) makes the instruments nearly maintenance free.

Safety - The instrument has two independent earthing devices (electronic and mechanical discharging) and an integrated 12 kV feedback protection system to protect both operator and instrument.

Field use - A watertight and very rugged case with a protection class of IP67 makes additional transport boxes obsolete.

Connectivity - On site, no external PC is needed. All results can be downloaded later by USB or Bluetooth for further investigation and easy report creation on the PC Software.



Features

- Output voltage 45 kV_{peak} / 32 kV_{rms}
- Pure sinusoidal output voltage (load-independent)
- Internal TD measurement with high accuracy (1×10^{-4})
- Tan Delta measurement with various frequencies (0.01 – 0.1 Hz)
- Leakage Guard® - leakage current correction
- Output current 60 mA max.
- Highest test capacity of 10 μ F
- Ultra light and compact weight (36 kg)
- Protection class IP67 (with closed lid)
- Total protection – almost unbreakable, watertight, dustproof and corrosion proof case
- Large Colour display (4,3")
- USB and Bluetooth connections
- Cable testing according: IEC60502-2:2015, IEEE 400.2-2004, CENELEC HD 620/621, IEEE400.2-2013 etc.
- Programmable test sequences
- Upgradable with partial discharge diagnostic system (optional)
- Integrated 12 kV transient protection (50 Hz)
- Dual Discharge Device (DDD®), two integrated and automatic discharge devices
- Easily exchangeable HV cable
- Intuitive menu operation
- Sheath Fault Locating (in combination with Earth Fault Locator)¹
- Vacuum Bottle Test
- Insulation Testing

¹not included

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electronicgmbh

HVA45TD

VLF High Voltage Test Set with integrated Tan Delta



smallest and lightest
VLF cable test set



trolley casing



unlimited operating
time

HVA45TD		
Article number	SH0261	
Input Voltage	100 – 230 V, 50/60 Hz, 1200 VA	
Output Voltage	Sinusoidal	0 – 45 kV peak, 32 kV rms
	DC	± 0 – 45 kV
	Squarewave	0 - 45 kV
	Accuracy	± 1%
	Resolution	0.1 kV
Output Current	0 – 60 mA (Resolution 1 µA) Accuracy: ±1%	
Output Frequency	0.01 ... 0.1 Hz in steps of 0.01 Hz (default 0.1 Hz) - auto frequency	
Tan Delta accuracy	Load > 10 nF	± 1 x 10 ⁻⁴ Leakage Guard® - detection and compensation of leakage currents
Resistance Range	0.1 MΩ...5 GΩ	
Output Load	1.0 µF @ 0.1 Hz @ 32kV rms	
Sheath Test	Unmax	10 kV
	Trip Current	0.1 mA – 5.0 mA
Sheath Fault Location ¹	Unmax	10 kV
	Pulse/Period	1:3 / 4 s, 1:5 / 4 s, 1:5 / 6 s, 1:9 / 6 s
Output Modes	AC (VLF) Symmetrical and load independent across full range, DC (plus or negative polarity), Burn-/Fault Condition or Fault Trip Mode, Jacket / Sheath Testing	
Safety	50 Hz 12 kV Feedback Protection / Dual Discharge Device (internal)	
Memory	50 Test Record Stored USB almost unlimited	
Metering	Voltage and Current (True rms and / or peak), Capacitance, Resistance, Time, Flashover Voltage	
HV-Cable	5 m with clamps	
Software	"b2 Control Center" (included)	
Computer interfaces	Bluetooth	standard
	USB	standard
Dimensions	L 500 x W 305 x H 457 mm (Peli Case)	
Weight	36 kg	
Environmental conditions	Storage: -25°C to + 70°C Operating: -20°C to + 55°C Humidity: 5-85% non condensing	

¹ in combination with locating device (not in scope of supply)

DHV1365 Rev01 - ENGLISH - Subject to alternations. Errors excepted. Illustrations are not binding.



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Options

- Partial Discharge Diagnostics System PD60-2

Scope of delivery

- HVA45TD Testing Device incl. Tan Delta Diagnostics and Leakage Guard®
- PC Software - b2 ControlCenter
- 5 m HV cable
- Power and earthing cable
- Accessory Bag
- USB Stick
- Operating Manual