

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.



Multiple Patents



USB
Bluetooth



IP67



Color
Display
4.3"

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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VLF High Voltage Test Set with integrated Tan Delta

Typ		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%
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 Frequency		0.01 ... 0.1 Hz in steps of 0.01 Hz (default 0.1 Hz) - auto frequency
Output Load		1.0 µF @ 0.1 Hz @ 32 kV 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 LxBxH / Weight		500 x 305 x 457 mm (Peli Case) / 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)



Options

- Partial Discharge Diagnostics System PD60-2

Scope of delivery

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



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