

HVA34TD-1

the smallest VLF test system of its performance class
with integrated Tan Delta Diagnostics

- VLF and DC output
- Sheath Test
- Sheath Fault Location Mode
- Vacuum Bottle Test
- PD system upgrade available
- Insulation Testing

The HVA34TD-1 is a truly compact and portable VLF test set system for testing medium voltage cables. It performs **VLF** and **DC** testing, **sheath testing with sheath fault location mode** and **TD leakage current correction** (guard terminal) is included. 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 HVA34TD-1 offers outstanding features in terms of size, weight (39 kg) and performance (max. 10 μ F).

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 34 kV_{peak}, 24 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 Current Guard® - leakage current correction
- Output current 60 mA max.
- 1.5 μ F @ 0.1 Hz @ 24 kV_{rms}
- Highest test capacity of 10 μ F
- Ultra light and compact weight (39 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, IEEE400.2-2013, CENELEC HD 620/621, 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

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b2
electronicgmbh

¹ not in scope of supply

HVA34TD-1

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smallest and lightest
VLF cable test set



trolley casing



unlimited operating
time

Type	HVA34TD-1	
Article number	SH0276	
Input voltage	100 - 240 V, 50/60 Hz, 1.200 VA	
Output voltage	VLF sine wave	0 - 34 kVpeak, 24 kVrms
	DC	± 0 - 34 kV
	VLF square wave	0 - 34 kV
	accuracy	± 1 %
	resolution	0.1 kV
Output current	0 - 60 mA (resolution 1 µA) accuracy: ±1%	
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	
Tan Delta	Accuracy ± 1 x 10 ⁻⁴	
Output load	1.5 µF @ 0.1 Hz @ 24 kVrms 2.8 µF @ 0.1 Hz @ 18 kVrms 10.0 µF maximum capacitance! ¹	
Sheath test	max. test voltage	10 kV
	trip current	0.1 mA - 5.0 mA
Sheath fault location ²	max. test voltage	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)	
Record storage	Built-in memory: up to 50 reports & 50 test sequences USB flash drive: unlimited	
Metering	voltage and current (true rms and/or peak), capacitance, resistance, time, flashover voltage	
HV Cable	5 m with clamps	
PC Software	"b2 Control Center" (included)	
Computer interfaces	Bluetooth and USB	
Dimensions LxBxH	500 x 305 x 457 mm (Peli Case)	
Weight	39 kg	
Environment	temperature: storage -25°C to + 70°C, operating -20°C to + 55°C humidity: 5-70 % non condensing	

¹ at lower frequency and voltage | ² in combination with locating device (not in scope of delivery)



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Options

- Partial Discharge Diagnostics System

Scope of delivery

- HVA34TD-1 testing device
- PC-Software - b2 ControlCenter
- 5 m HV cable
- Power and earthing cable
- Accessory bag
- USB Stick
- Operating manual