

HVA28TD

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
- Insulation Testing

The HVA28TD 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 HVA28TD offers outstanding features in terms of size, weight (14 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.

Transport - Dimensions and weight of the device makes it easy to transport including in small airplane or helicopter cabin, saving carriage costs and time.



Features

- Output voltage 28 kV_{peak} / 20 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 20 mA max.
- Highest test capacity of 10 μ F
- Ultra light and compact weight (14 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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HVA28TD

VLF High Voltage Test Set with integrated Tan Delta

Typ		HVA28TD
Article number		SH0216
Input Voltage		100 – 240 V, 50/60 Hz, 400 VA
Output Voltage	Sinusoidal	0 – 28 kV peak, 20 kV rms
	DC	± 0 – 28 kV
	Squarewave	0 - 28 kV
	Accuracy	± 1%
	Resolution	0.1 kV
Output Current		0 – 20 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		0.5 µF @ 0.1 Hz @ 20kV rms 5.0 µF @ 0.01 Hz @ 20 kV rms 10.0 µF maximum Capacitance! ¹
Sheath Test	Unmax	10 kV
	Trip Current	0.1 mA – 5.0 mA
Sheath Fault Location ²	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		4 m with clamps
Software		“b2 Control Center” (included)
Computer interfaces	Bluetooth	standard
	USB	standard
Dimensions		L 416 x W 221 x H 334 mm (Peli Case)
Weight		14 kg
Environmental conditions		Storage: -25°C to + 70°C Operating: -20°C to + 55°C Humidity: 5-85% non condensing

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

DHV1299 Rev03 - ENGLISH - Subject to alternations. Errors excepted. Illustrations are not binding.



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Options

- Partial Discharge Diagnostics System PD30-E

Scope of delivery

- HVA28TD Testing Device incl. Tan Delta Diagnostics and Leakage Guard®
- PC Software - b2 ControlCenter
- 4 m HV cable
- Power and earthing cable
- Accessory Bag
- USB Stick
- Operating Manual