## **HVA28TD**

## the smallest VLF test system of its kind 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 HVA28TD 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 corection** (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 HVA28TD offers outstanding features in terms of size, weight (14 kg) and performance (max. 10  $\mu$ 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.







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#### **Features**

- Output voltage 28 kV<sub>peak</sub>, 20 kV<sub>rms</sub>
- Pure sinusoidal output voltage (load-independent)
- Internal TD measurement with high accuracy (1 x 10<sup>-4</sup>)
- 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 μF
- 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)<sup>1</sup>
- · Vacuum Bottle Test
- Insulation Testing



<sup>1</sup>not in scope of supply

## HVA28TD VLF High Voltage Test Set with integrated Tan Delta

Туре		HVA28TD
Article number		SH0216
Input voltage		100 - 240 V, 50/60 Hz, 400 VA
Output voltage	VLF sine wave	0 - 28 kV peak, 20 kV rms
	DC	± 0 - 28 kV
	VLF square wave	0 - 28 kV
	accuracy	± 1%
	resolution	0.1 kV
Output current		0 - 20 mA (resolution 1 μA) accuracy: ±1%
Resistance range		0.1 ΜΩ - 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 <sup>-4</sup>
Ouput load		$0.5~\mu F$ @ $0.1~Hz$ @ $20kV~rms~l~5.0~\mu F$ @ $0.01~Hz$ @ $20~kV~rms~10.0~\mu F$ maximum Capacitance! $^1$
Sheath test	max. test voltage	10 kV
	trip current	0.1 mA - 5.0 mA
Sheath fault location <sup>2</sup>	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		4 m with clamps
PC Software		"b2 Control Center" (included)
Computer interfaces		Bluetooth and USB
Dimensions LxBxH		L 416 x W 221 x H 334 mm (Peli Case)
Weight		14 kg
Environment		temperature: storage -25°C to + 70°C, operating -20°C to + 55°C humidity: 5-70 % non condensing

<sup>&</sup>lt;sup>1</sup> at lower frequency and voltage | <sup>2</sup> in combination with locating device (not in scope of supply)



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#### **Options**

Partial Discharge Diagnostics System

### Scope of delivery

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

DHV1299 Rev04 - ENGLISH - Subject to alternations. Errors excepted. Illustrations are not binding.