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# DATA-SHEET



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**WHY BUY**  
WHEN YOU CAN HIRE

# HVA28TD

## Ultra-compact and universal VLF High Voltage Test Set with integrated TD Diagnostics

The b2 electronic GmbH high voltage testing and diagnostics device **HVA28TD** offers outstanding features in terms of size, weight, ruggedness, safety and ease of use. Testing and diagnostics of medium voltage cables, rotating machines and transformers was never that easy.

### Short Facts

- VLF and DC Output
- Tan Delta Diagnostics (TD)
- Leakage Guard®
- Sheath Test
- Sheath Fault Location
- Vacuum Bottle Test



TD  
Tan Delta

14kg

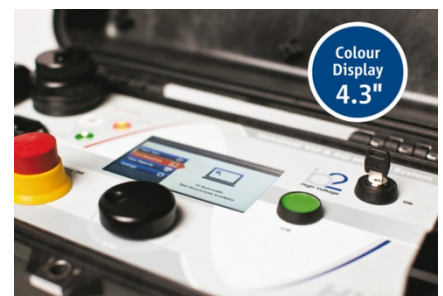
10µF

IP67

DDD®



USB  
Bluetooth



Colour  
Display  
4.3"

### Features

- Output voltage 28kV<sub>peak</sub>, 20kV<sub>rms</sub>
- Pure sinusoidal output voltage (load-independent)
- Output current 20mA max.
- Highest test capacity of 10µF
- Ultra light and compact weight (14kg)
- Total protection – unbreakable, watertight, dustproof, chemical resistant and corrosion proof case
- Protection class IP67 (with closed lid)
- Unlimited and continuous duty cycle
- Large Colour display (4,3")
- Internal TD measurement with high accuracy ( $1 \times 10^{-4}$ )
- Tan Delta measurement with various frequency (0,01 – 0,1 Hz)
- Leakage Guard® - leakage current correction
- Cable testing according: CENELEC HD 620/621, IEEE 400.2-2004, IEEE 400-2001, etc.
- Programmable test sequences
- USB and Bluetooth connections
- Upgradable with partial discharge diagnostic system (optional)
- Integrated 12kV transient protection (50Hz)
- Dual Discharge Device (DDD®), both integrated and automatic discharge devices
- Easy exchangeable HV cable
- Intuitive menu operation
- Sheath Test
- Sheath Fault Locating (in combination with Earth Fault Locator)
- Vacuum Bottle Test

b2 High-Voltage is a business division of

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DHV1299 Rev01  
ENGLISH

Subject to alternations.  
Errors excepted,  
illustrations are not binding.

# HVA28TD

Type	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%	
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	0.5 µF @ 0.1 Hz @ 20kV rms 5.0 µF @ 0.01 Hz @ 20 kV rms 10.0 µF maximum Capacitance! <sup>1</sup>	
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	50Hz 12kV Feedback Protection / Dual Discharge Device (internal)	
Memory	Internally 50 / USB unlimited test reports stored	
Metering	Voltage and Current (True rms and / or peak), Tan Delta, Capacitance, Resistance, Time, Flashover Voltage	
Tangens Delta accuracy	Load > 10 nF	± 1 x 10 <sup>-4</sup>
Duty	Leakage Guard® - detection and compensation of leakage currents	
Duty	Continuous! No thermal limitation for operating time.	
HV Cable	4 m with Alligator clamps	
Software	"HVA Control Center"	
Computer interfaces	Bluetooth	standard
	USB	standard
Environmental conditions	Storage: -25°C to + 70°C, Operating: -5°C to + 45°C Humidity: 5-85% non condensing	
Dimensions L x W x H	Peli Case 1430, 430 x 240 x 340 mm	
Weight	14 kg	
Upgrades (Optional)	Partial Discharge System	

<sup>1</sup> At lower frequency and voltage

<sup>2</sup> in combination with locating device (not in scope of supply)

## Options

- Partial Discharge Diagnostics System PD30

## Scope of delivery

- HVA28TD Testing Device inclusive
- Leakage Guard®
- HV cable 4 m
- Power and earthing cable
- Accessory bag
- USB stick
- Operating manual



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\*subject to availability and conditions

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LAB NO. 0535



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