

# HVA28

## VLF High Voltage Test Set

- VLF and DC Output
- Sheath Test
- Sheath Fault Location Mode
- Vacuum Bottle Test
- Upgradeable with partial Discharge System
- Insulation Testing

The HVA28 is a truly compact and portable VLF test set system for testing medium voltage cables. It performs **VLF** and **DC** testing, **sheath testing** and **sheath fault location mode**.

The system can be modified with an internal Tan Delta Diagnostics unit (retroactive).

**Performance** - the HVA28 offers outstanding features in terms of size, weight (14 kg) and performance (max. 10  $\mu$ 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<sub>peak</sub> kV<sub>rms</sub>
- Pure sinusoidal output voltage (load-independent)
- Output current 20 mA max.
- Highest test capacity of 10 $\mu$ F
- Ultra light and compact weight (14 kg)
- Total protection – almost unbreakable, watertight, dustproof and corrosion proof case
- Protection class IP67 with closed lid
- Unlimited and continuous duty circle
- Large Colour display (4,3")
- USB and Bluetooth connections
- Cable testing according: CENELEC HD 620/621, IEEE 400.2-2004, IEC60502-2:2014
- Programmable test sequences
- Upgradable with partial discharge diagnostic and Tan Delta system (optional)
- Integrated 12kV 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 included

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**b2**  
electronicgmbh

# HVA28

## VLF High Voltage Test Set

HVA28		
Article number	SH0219	
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	Unmax	10 kV
	Trip Current	0.1 mA – 5.0 mA
Sheath Fault Location <sup>2</sup>	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 Alligator 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	

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

DHV1301 Rev02 - ENGLISH - Subject to alternations. Errors excepted. Illustrations are not binding.



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## Options

- Internal / External Tan Delta Diagnostics System
- Partial Discharge Diagnostics System PD30-E

## Scope of delivery

- HVA28 Testing Device
- PC Software - b2 ControlCenter
- HV cable 4 m
- Power and earthing cable
- Accessory Bag
- USB Stick
- Operating Manual