

- VLF
- DC
- Jacket/Sheath
- Sheath Fault Location mode<sup>3</sup>
- Fault conditioning
- DDD®  
Dual Discharge Device (internal)
- USB Data Transfer

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DHV1211 Rev03  
ENGLISH

Subject to alternations-  
Errors excepted  
Illustrations are not binding

# HVA90

## Compact and universal VLF High Voltage Test Set

### Large output load capability up to 10 $\mu\text{F}$ <sup>1</sup>

The high power HVA90 Test System is capable of testing cables up to 3,300 m (1  $\mu\text{F}$  at 0.1 Hz and 64 kV rms).

The variable output frequency allows the testing of even much longer cables. At 10  $\mu\text{F}$  – 0.01 Hz and 64 kV rms a length of approx 33,000 m can be tested (see technical data).



Type	HVA90	
Article number	SH0209	
Input Voltage	210 – 240 V 50/60 Hz (3.0 kVA)	
Output Voltage	Sinusoidal	0 – 90 kV peak, 64 kV rms
	DC	$\pm$ 0 – 90 kV
	Squarewave	90 kV
	Accuracy	$\pm$ 1 %
	Vacuum Bottle	90 kV
	Resolution	0.1 kV
Output Current	0 – 65 mA (Resolution 1 $\mu\text{A}$ ) Accuracy: $\pm$ 1 %	
Resistance Range	0.1 M $\Omega$ ...5 G $\Omega$	
Sheath Test	Umax	10 kV
	Duration	1 min – 15 min
	Trip Current	0.1 mA – 5.0 mA
Sheath Fault Location <sup>3</sup>	Unmax	10 kV
	Duration	1 min – 60 min
	Pulse/Period	1:3 / 4 s, 1:5 / 4 s, 1:5 / 6 s, 1:9 / 6 s
Output Frequency	0.01 ... 0.1 Hz in steps of 0.01 Hz (default 0.1 Hz) – auto frequency selection	
Output Load	1 $\mu\text{F}$ @ 0.1 Hz @ 64 kV rms (Approx 3,800 m of cable) <sup>2</sup> 9,25 $\mu\text{F}$ @ 0.01 Hz @ 64 kV rms (Approx 37,000 m of cable) <sup>2</sup> 10 $\mu\text{F}$ maximum Capacitance <sup>1</sup>	
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 / Discharge unit	
Memory	50 Test Records Stored	
Metering	Voltage an Current (True rms and / or peak), Capacitance, Resistance, Time, Flashover Voltage	
Duty	Continuous! No thermal limitation for operating time.	
HV Cable	7.5 m with Alligator clamps on end (other options available on request)	
Software	„HVA Control Center“	
Computer interfaces	RS232	•
	USB	•
Environmental conditions	Storage: -25°C to + 70°C, Operating: -5°C to + 45°C	
Dimensions L x W x H	545 x 445 x 610 mm (Excl. Carry Handle), also as 19" version available	
Weight	127 kg	
Upgrades (Optional)	Tan Delta TD90-MC, Partial Discharge System PD90-2 / PDTD90-2	

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

<sup>2</sup> Based on a typical cable: 250 pF/m

<sup>3</sup> In combination with locator set (not in scope of supply)