HV Diagnostics

HVA

- **VLF**
- **DC**
- **Jacket/Sheath**
- **Sheath Fault Location mode[3]**
- **Fault conditioning**
- **DDD®**
  Dual Discharge Device (internal)
- **USB Data Transfer**

HVA90

Compact and universal VLF High Voltage Test Set

Large output load capability up to 10 µF[1]

The high power HVA90 Test System is capable of testing cables up to 3,300 m (1 µF at 0.1 Hz and 64 kV rms).

The variable output frequency allows the testing of even much longer cables. At 10 µF – 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	± 0 – 90 kV
	Squarewave	90 kV
	Accuracy	± 1 %
	Vacuum Bottle	90 kV
	Resolution	0.1 kV
Output Current		0 – 65 mA (Resolution 1 µA) Accuracy: ± 1 %
Resistance Range		0.1 MΩ….5 GΩ
Sheath Test	Umax	10 kV
	Duration	1 min – 15 min
	Trip Current	0.1 mA – 5.0 mA
Sheath Fault Location[3]	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 µF @ 0.1 Hz @ 64 kV rms (Approx 3,800 m of cable)2 9,25 µF @ 0.01 Hz @ 64 kV rms (Approx 37,000 m of cable)2 10 µF maximum Capacitance!1
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

[1] At lower frequency and voltage
[2] Based on a typical cable: 250 pF/m
[3] In combination with locator set (not in scope of supply)