

5-in-1 Universal
High Voltage
and Diagnostic
Testing System

HVA 28 / HVA 28 - TD

smart VLF

The smallest
VLF & TD unit
available!
14 kg / 31 lbs

VLF Jacket
DC Tan Delta
Fault Conditioning

With
Intergrated
Tan Delta!

Detects Water Tree
Degredation



HV Diagnostics
INC.



smart VLF™

HVA28 / HVA28-TD

Technical Data

Model		HVA28	HVA28-TD
Ordering Information		702 001	702 003
Input Voltage		100 - 240 V, 50/60Hz (400 VA)	
Output Voltage	Sinusoidal	0 - 28 kV peak, 20 kV rms	
	DC	± 0 - 28 kV	
	Squarewave	28 kV	
	Accuracy	±1%	
	Resolution	0.1 kV	
Output Current		0 - 20 mA (Resolution 1 µA) Accuracy: ± 1%	
Resistance Range		0.1 MΩ ... 5GΩ	
VLF Output Frequency		0.01 ... 0.1Hz in steps of 0.01 Hz (default 0.1 Hz) - auto frequency selection	
Output Load		0.5 µF @ 0.1 Hz @ 20kV rms 5.0 µF @ 0.01 @ 20kV rms 10.0 µF maximum capacitance*	
Output Models		AC (VLF) Symmetrical and load independent across full range, DC (positive or negative polarity), Burn -/ Fault Condition or Fault Trip Mode, Jacket/Sheath Testing	
Sheath Test/Sheath Fault Location	kV	0 - 10 kV	
	Trip Current	0.1 - 5 mA	
	Pulse/Period	Variable	
Safety		50 / 60 Hz - 12 kV Feedback Protection/ Dual Discharge Device (internal)	
Memory		50 Test Records Stored (internal)	
Metering		Voltage and Current (True rms and / or peak), Tan Delta, Capacitance, Resistance, Time, Flashover Voltage	
Tan Delta measurement resolution		—	± 1 x 10 ⁻⁴
Duty Cycle		Continuous!	
HV Cable		5m/16.5ft with Alligator clamps	
Software		"HVA Control Center"	"TD Control Center"
Computer Interfaces	Bluetooth	Standard	
	USB	Standard	
Environmental Conditions		Storage: -25°C to +75°C / -13°F to 167°F Operating: -5°C to 45°C / 23°F to 113°F	
Dimensions L x W x H		430 x 240 x 340 mm / 16.9 x 9.4 x 13.4 inches	
Weight		14 kg / 31 lbs	
Upgrades (Optional)		Partial Discharge Diagnostic System PD30	

*At lower frequency and voltage

Note: Due to continuous development, the information detailed in this document may change without notice.