



High-Voltage

TD family

**Portable Tan Delta
VLF cable diagnostics systems**

Type		TD30	TD60
Article number		SH0207	SH0208
Input Voltage		2 Typ "C" alkaline cells or NiMH batteries	
Operating Voltage	Sinusoidal	1-23 kV rms	1-44 kV rms
	Frequency	0.1 Hz	
Voltage measurement	Resolution	0.1 kV rms	
	Accuracy	1% of reading	
Current measurement	Resolution	1 μ A rms	
	Accuracy	1% of reading	
Tan delta measurement	Resolution	1 x 10 ⁻⁵	
	Accuracy	$\pm 1 \times 10^{-4}$ (Last > 15 nF) $\pm 3 \times 10^{-4}$ (Last < 15 nF)	
Load range	Standard	15 nF – 5 μ F	
	Lower accuracy	1 nF – 15 nF	
Weight		3 kg	5 kg
Dimensions	Length x diameter	240mm x 80mm	450mm x 120mm
Computer interface		Bluetooth™	
Delivery includes		HV connection cable	
		Earth cable	
		Transport case	
		Bluetooth™ Dongle	
		TD Control Center Software	
		Operating manual	
Standards	EMV	IEC6100-4-2, IEC6100-4-4, EN55011	
	Safety	EN60950, EN50191, EN61010-1	
Temperature	Storage	-25 °C bis +70 °C	
	Operating	-5 °C bis +45 °C	
Relative humidity		Max. 80% R.H, non condensing	

- Tan Delta
- Ultra light and compact design
- Easy handling
- Testing and diagnostics simultaneously
- Transfer of test results via Bluetooth
- Fully automatic reporting
- No complicated wiring

TD30

High Voltage Cable Diagnostic System

Tan Delta measurement is a proven, simple and reliable test method for confirming the dielectric condition of cables or other electrical plant and infrastructure. "Water-tree" damaged cables can be easily and clearly be identified.

The ease of use, low weight and the compact elegant design is truly impressive. The HVA series vlf test sets serve as the ideal high voltage source for these TD units.

The TD30 provide the testing and commissioning engineer with versatile high voltage tan delta measurement systems suitable for testing XLPE, PE, EPR and PILC cables plus other electrical equipment such as capacitors, switchgear, transformers and rotating machines.



Type		TD30
Article number		SH0207
Input Voltage		2 type "C" alkaline cells or NiMH batteries
Operating Voltage	Sinusoidal	1 - 23 kV rms
	Frequency	0.1 Hz
Voltage measurement	Resolution	0.1 kV rms
	Accuracy	1 % of reading
Current measurement	Resolution	1µA rms
	Accuracy	1 % of reading
Tan delta measurement	Resolution	1 x 10 ⁻⁵
	Accuracy	± 1 x 10 ⁻⁴ (load > 15 nF), ± 3 x 10 ⁻⁴ (load < 15 nF)
Load range		Standard: 15 nF to 5 µF; Lower Accuracy: 1 nF to 15 nF
Weight		3 kg (7 lbs)
Dimensions		240 mm long x 80 mm in diameter (9.5" long x 3.2" in diameter)
Computer interface		Bluetooth™
Delivery includes		HV connection cable, transit case, Bluetooth™ Dongle, Earth cable, TD Control Center Software, Operating manual, Dell Netbook
Standards		EMC: IEC6100-4-2, IEC6100-4-4, EN55011; Safety: EN60950, EN50191, EN61010-1
Environmental conditions		Storage: -25 °C to +70 °C, Operating: -5 °C bis +45 °C; Humidity max. 80 % R.H. (non-condensing)

b2 High-Voltage
is a business division of

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- Ultra light and compact design
- Easy handling
- Testing and diagnostics simultaneously
- Transfer of test results via Bluetooth
- Fully automatic reporting
- No complicated wiring

TD60

High Voltage Cable Diagnostic System

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The TD60 provide the testing and commissioning engineer with versatile high voltage tan delta measurement systems suitable for testing XLPE, PE, EPR and PILC cables plus other electrical equipment such as capacitors, switchgear, transformers and rotating machines.



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DHV1216

Type		TD60
Article number		SH0208
Input Voltage		2 type "C" alkaline cells or NiMH batteries
Operating Voltage	Sinusoidal	1 - 44 kV rms
	Frequency	0.1 Hz
Voltage measurement	Resolution	0.1 kV rms
	Accuracy	1 % of reading
Current measurement	Resolution	1µA rms
	Accuracy	1 % of reading
Tan delta measurement	Resolution	1 x 10 ⁻⁵
	Accuracy	± 1 x 10 ⁻⁴ (load > 15 nF), ± 3 x 10 ⁻⁴ (load < 15 nF)
Load range		Standard: 15 nF to 5 µF; Lower Accuracy: 1 nF to 15 nF
Weight		5 kg (11 lbs)
Dimensions		450 mm long x 120 mm in diameter (18" long x 5" in diameter)
Computer interface		Bluetooth™
Delivery includes		HV connection cable, transit case, Bluetooth™ Dongle, Earth cable, TD Control Center Software, Operating manual, Dell Netbook
Standards		EMC: IEC6100-4-2, IEC6100-4-4, EN55011; Safety: EN60950, EN50191, EN61010-1
Environmental conditions		Storage: -25 °C to +70 °C, Operating: -5 °C bis +45 °C; Humidity max. 80 % R.H. (non-condensing)