

TD90-MC

HV Cable Diagnostics System

Tan Delta measurement is a proven, simple and reliable test method for evaluating the dielectric condition of cables and other electrical equipment such as transformers or rotating machines. "Water-tree" damaged cables can be easily and clearly identified.

The ease of use, low weight and the compact design is truly impressive. The HVA series (VLF test sets) serve as the ideal high voltage source for the TD90-MC.

The TD90-MC provides the testing and commissioning engineer with versatile high voltage tan delta measurement system suitable for testing XLPE, PE, EPR and PILC cables or other electrical equipment.

When carried out at fixed intervals TD testing can be the basis of a predictive maintenance program for your HV cables.

The diagnostic report of the analysing software "TD Control Center" provides a comprehensive and clear record of the individual measurements made during a TD test cycle.

An easy to interpret graphical display of the values offers a fast and accurate assessment of the dielectric condition of the cable.



Features

- Ultra light and compact design
- Easy handling
- Testing and diagnostics simultaneously
- Transfer of test results via Bluetooth
- Fully automatic reporting
- No complicated wiring
- Diagnostics at variable frequencies
- Also testing of very short cables > 500 pF

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High Voltage Cable Diagnostics System

TD90-MC		
Article number		SH0241
Input Voltage		2 type „D“ alkaline cells or NiMH batteries
Output Voltage	Sinusoidal	1 - 64 kV rms
	Frequency	0.1 Hz 0.01 to 0.09 Hz ¹
Voltage Measurement	Resolution	0.1 kV rms
	Accuracy	1 % of reading
Current Measurement	Resolution	1 µA rms
	Accuracy	1 % of reading
Tan Delta Measurement	Resolution	1×10^{-5}
	Accuracy	$\pm 1 \times 10^{-4}$
Load Range	Standard	500 pF to 10 µF
Dimensions		L 300 x W 280 x H 790 mm
Weight		16 kg
Computer interfaces		Bluetooth
Standards		EMV: IEC6100-4-2, IEC6100-4-4, EN55077; Safety: EN60950, EN50191, EN61010-1
Environmental conditions		Storage: -25°C to + 70°C Operating: -10°C to + 50°C Humidity: 5-85% non condensing

¹ Calibration certificate for variable frequencies optional.

Scope of delivery

- TD90-MC Testing Device
- PC Software - TD ControlCenter
- Bluetooth™ Dongle
- Earthing cable
- Operating Manual
- Transport Case