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VALUE ADDED DISTRIBUTOR

Authorized distributor of **b2 electronics** in the Kingdom of Saudi Arabia

B2 ELECTRONICS

TD120-MC

Tan Delta Diagnostics System for HV cables

The b2 electronics TD120-MC is a compact Tan Delta (TD) diagnostics system for evaluating the dielectric condition of high-voltage cables. Tan Delta measurement is a proven, simple method for assessing insulation, and cables damaged by water trees can be clearly identified. b2 HVA VLF test sets with a matching voltage range, such as the HVA120, serve as its high-voltage source. It suits XLPE, PE, EPR and PILC cables and other electrical equipment.

Measurements run at variable VLF frequencies from 0.01 to 0.1 Hz, and testing and diagnostics happen at the same time. The unit runs on two D-size batteries and sends results to the PC over Bluetooth, so there is no cable to the computer and wiring stays simple. Short cables from 500 pF can be tested as well.



OPERATING VOLTAGE	TAN DELTA	LOAD RANGE	WEIGHT
120 kVpeak / 85 kVrms	**1 × 10^{-5} resolution**	**500 pF – 10 µF**	**16 kg**

KEY FEATURES

- Operating voltage up to 120 kVpeak / 85 kVrms (sine wave)
- Tan Delta resolution 1 × 10^{-5}, accuracy ±1 × 10^{-4}
- Detects water-tree damage in cable insulation
- Variable VLF frequency 0.01–0.1 Hz
- Testing and diagnostics at the same time
- Load range 500 pF to 10 µF, including very short cables
- Bluetooth data transfer, no PC cable needed
- Runs on two D-size batteries
- Monitored Withstand Test with b2 Suite v2 (IEEE 400.2)
- Works with b2 HVA VLF test sets such as the HVA120

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TECHNICAL DATA — TD120-MC

Output voltage	1–85 kVrms (120 kVpeak max.), sine wave
Frequency	0.1 Hz; 0.01–0.09 Hz (calibration certificate for variable frequencies optional)
Voltage measurement	Resolution 0.1 kVrms, accuracy 1% of reading
Current measurement	Resolution 1 µArms, accuracy 1% of reading
Tan Delta	Resolution 1×10^{-5}, accuracy $\pm 1 \times 10^{-4}$
Load range	500 pF to 10 µF
Power	2 × D-size alkaline cells or NiMH batteries
Interface	Bluetooth
Compliance	IEEE 400.2, HD 620; safety EN 60950, EN 50191, EN 61010-1
Operating temperature	−10 to +50 °C, humidity 5–85% non-condensing
Dimensions / weight	300 × 280 × 790 mm / 16 kg

SCOPE OF SUPPLY & OPTIONS

Included	TD120-MC test device, TD ControlCenter PC software, Bluetooth dongle, earthing cable, operating manual, transport case
Works with	b2 HVA VLF test sets such as the HVA120

Technical data from b2 electronics datasheet DHV1381 Rev00 and b2hv.com. Specifications are subject to change by the manufacturer without notice.

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