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

B2 ELECTRONICS

PDTD68

VLF Diagnostics System — Partial Discharge and Tan Delta in one device

The b2 electronics PDTD68 is a portable VLF diagnostics system for all kinds of medium-voltage cables. It measures partial discharge (PD) and Tan Delta (TD) simultaneously with a sinusoidal operating voltage, instead of one after the other, which saves measurement time and prevents pre-conditioning of the cable.

It is designed for use with b2 HVA VLF test sets. Together with an HVA set it forms a complete system for VLF cable testing and PD/TD diagnostics up to 68 kV, on cables up to 100 km long.

A 22 nF coupling capacitor and an integrated HV filter give sensitive PD measurement with high noise suppression. The unit runs on its built-in battery or USB-C power, and the b2 Suite software guides the full process with automated PD algorithms and standard-compliant test sequences.



OPERATING VOLTAGE	PD LOCALIZATION	CABLE LENGTH	WEIGHT
68 kVpeak / 48 kVrms	**1% · 0.1 m**	**Up to 100 km**	**20.6 kg**

KEY FEATURES

- Simultaneous PD and Tan Delta diagnostics
- Up to 68 kVpeak / 48 kVrms, sine wave
- For MV cables up to 100 km long
- PD localization: 1% accuracy, 0.1 m resolution
- PD resolution 0.1 pC, range 0.1 pC ... 100 nC
- 22 nF coupling capacitor, integrated HV filter
- PD per IEC 60270, Tan Delta per IEEE 400.2
- Built-in battery or USB-C power
- Galvanically isolated fiber-optic data link
- One communication cable, simple wiring
- b2 Suite software (2 activations) included
- PDC1 calibrator and wheeled transport case included

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TECHNICAL DATA — PDTD68

Operating voltage	1 … 68 kVpeak | 1 … 48 kVrms, sine wave
Operating frequency	0.01 Hz … 0.1 Hz in 0.01 Hz steps (default 0.1 Hz)
Test types	Simultaneous PD and TD, PD diagnostics, Tan Delta diagnostics
PD coupling	HV coupling capacitor 22 nF, integrated HV filter
PD measurement range	0.1 pC … 100 nC | resolution 0.1 pC
PD localization	0.1 m … 100 km | accuracy 1% of cable length
Propagation velocity (v/2)	10 … 150 m/µs
Sample rate / bandwidth	250 MS/s | 30 MHz, customizable digital filter
Tan Delta (10 nF … 10 µF)	Range 0.1 … 999 E-3 | resolution 0.01 E-3 (mean) | accuracy ±0.1 E-3
Voltage measurement	Up to 70 kVpeak / 50 kVrms | ±1% of reading or ±0.1 kVrms
Compliance	IEC 60270 (PD), IEEE 400.2 (TD)
Input voltage	USB-C PD 5 … 48 V (measurement from 9 V)
Battery	Built-in 6 V, 80 Wh (approx. 1 day at full load); TD satellite 9 V block (approx. 1 month)
Data / software	USB 3.0 to fiber; b2 Suite v2.2 or later
Environment	Operating −10 … +50 °C | storage −20 … +65 °C
Dimensions / weight	303 × 303 × 610 mm | 20.6 kg

SCOPE OF SUPPLY

Included	PDTD68 diagnostics system, PDC1 calibrator 10 pC … 10 nC, PDTD HV test leads (0.85 m and 1.6 m), grounding cables, corona spheres, PD impedance, USB fiber optic converter, 10 m optical cable, communication unit, USB-C cable, b2 Suite v2 licence (2 activations), transport case with wheels
Optional	PDTD-2 TD-MC accessory kit for guarding Near End & Far End
Works with	b2 HVA VLF test sets, e.g. HVA68TD

Technical data from b2 electronics datasheet DHV1479 Rev02. Specifications are subject to change by the manufacturer without notice. USB-C® is a registered trademark of USB Implementers Forum.

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