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

B2 ELECTRONICS

PD120-2

VLF Diagnostics System — Partial Discharge

The b2 electronics PD120-2 is a portable VLF diagnostics system for medium-voltage cables, designed for use with b2 HVA VLF test sets. It has an integrated partial discharge (PD) unit and can be extended later with a Tan Delta (TD) unit. Together with the b2 HVA120 it forms a complete cable test and diagnostics system up to 120 kVpeak / 85 kVrms. According to b2, it suits XLPE, PE, EPR and PILC cables up to 100 km long, as well as rotating machines and transformers.

PD faults are located in real time with 1% accuracy and a resolution of 0.1 pC and 0.1 m, with a PD background level below 10 pC. Cables of different lengths are measured at constant frequency, so results can be compared with earlier measurements across the grid.



OPERATING VOLTAGE	PD LOCALIZATION	PD RESOLUTION	CABLE LENGTH
120 kVpeak / 85 kVrms	**1% · 0.1 m**	**0.1 pC**	**Up to 100 km**

KEY FEATURES

- Operating voltage up to 120 kVpeak / 85 kVrms (sine wave)
- Integrated PD unit, extendable with Tan Delta
- For MV cables up to 100 km (XLPE, PE, EPR, PILC)
- PD localization with 1% accuracy, 0.1 pC and 0.1 m resolution
- PD background level below 10 pC
- PD measuring range 0.1 pC to 100 nC, 100 MHz bandwidth
- Setup and calibration per IEC 60270
- Phase-resolved PD display and comprehensive reporting

Contact Mushor Technology — Authorized b2 electronics distributor in Saudi Arabia

CALL **920031385**
WHATSAPP **+966 50 025 4300**
EMAIL **info@mushor.com**
WEB **mushor.com**

Riyadh – King Fahad Road – Al Washam Tower · Branches: Olaya · Al Khobar · Jeddah

TECHNICAL DATA — PD120-2

Operating voltage	1–120 kVpeak / 1–85 kVrms, sine wave
Operating frequency	0.01–0.1 Hz in 0.01 Hz steps (default 0.1 Hz)
Test types	Partial discharge
Coupling capacitor / HV filter	~1 nF / ~1 nF
PD measuring range	0.1 pC to 100 nC, background level < 10 pC
PD localization	0.1 m to 100 km, 1% of cable length, resolution 0.1 pC and 0.1 m
Propagation velocity (v/2)	10–150 m/µs
Sample rate / bandwidth	Up to 250 MS/s / 100 MHz
Signal amplification	0–52 dB (channel 1), 0–72 dB (channel 2)
Compliance	IEEE 400.2 and 400.3, HD 620, CEI EN 50393, IEC 60270, IEC 60502-2
Power	110–240 V, 50/60 Hz, max. 240 VA; PD built-in battery 6 V, 42 Wh (about 4 h at full load)
Data / software	USB type B; b2 Suite v1.8 included, b2 Suite v2 optional
Operating temperature	−5 to +45 °C
Coupling capacitor	330 × 280 × 870 mm, 24.7 kg
HV filter	300 × 280 × 720 mm, 34.0 kg

SCOPE OF SUPPLY & OPTIONS

Included	Coupling capacitor, HV filter, PDC1 calibrator 10 pC–10 nC, HV test leads, grounding cables, PD impedance, fiber-optic USB converter, b2 Suite v1.8 licences, wheeled transport cases
Works with	b2 HVA VLF test sets such as the HVA120

Technical data from b2 electronics datasheet DHV1477 Rev00 and b2hv.com. Specifications are subject to change by the manufacturer without notice.

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