

100HVT-DI & DDX9121B

PORTABLE PARTIAL DISCHARGE TEST SOLUTION

www.haefely-hipotronics.com





100HVT-DI & DDX9121B

APPLICATION

HAEFELY HIPOTRONICS standard 100HVT-DI AC test system is designed to perform AC High Voltage test on electrical apparatus. The 100HVT-DI is a modern digital solution to AC field-testing of bucket trucks, switchgear, vacuum interrupters, breakers and more. It includes a portable digital control section, bonnet, and interconnecting cables.

The DDX9121b is the latest in the DDX family of partial discharge measurement instruments. The DDX9121b is equipped with digital filters allowing the measurement frequency band to be shifted into a less noisy range and suppressing frequency dependent noise, as well as gating possibilities to blank out static interferences while still meeting the IEC60270 standard.

PORTABLE PD TEST SYSTEM

Following customer feedback, we have combined our 100HVT-DI with our DDX9121b partial discharge measuring system to create a more complete portable automatic test set.



FEATURES

Portable, Simple, Reliable

Automated Test Routines

Manual and Automatic Modes

Easy to use, Comprehensive Design

Analog Outputs

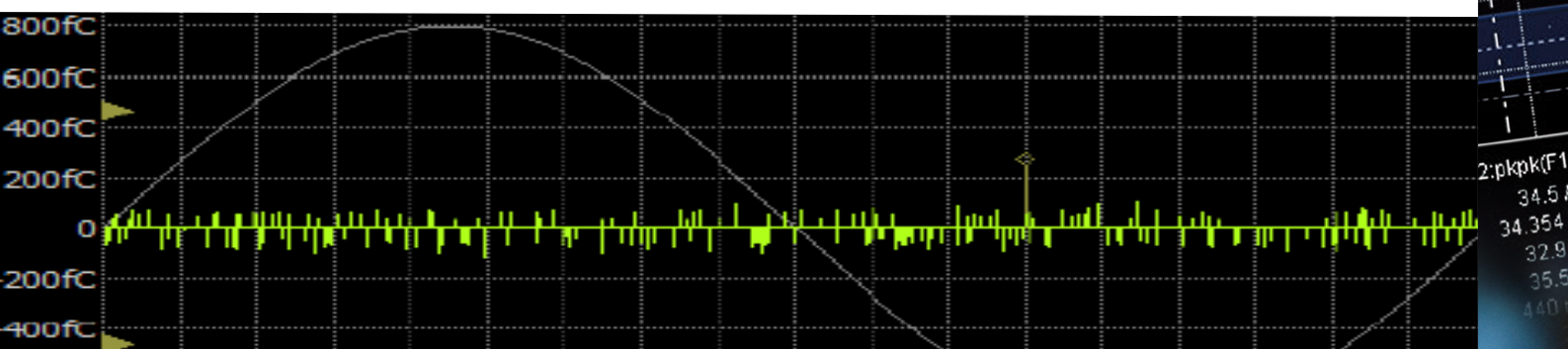
BENEFITS

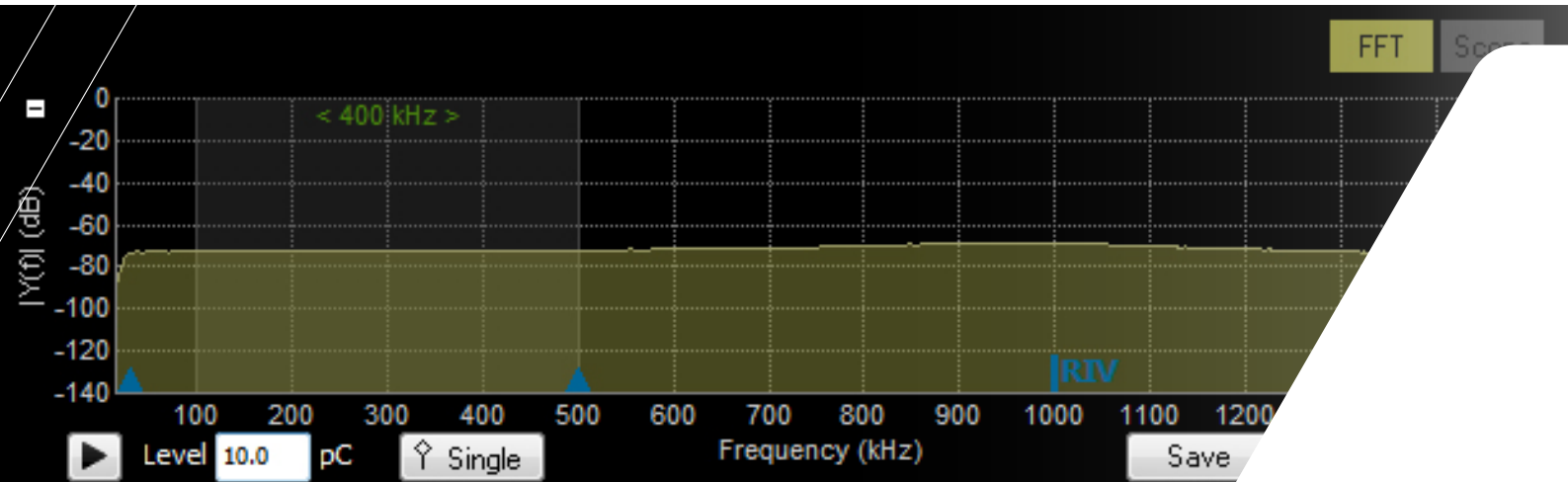
- Portable compact solution for testing in tight corridors.
- Shorter testing time with consistent results.
- Additional manual mode allows the user to test objects where sequences are not possible.
- Easy PD readings, multiple chart types for a wide variety of analysis.
- Allows for connecting any external device such as oscilloscopes for further post-processing of raw data. Great for R&D Applications!

APPLICATIONS

Mobile test system for on site testing of:

- Switchgear
- Bushings
- Small Components
- Electrical Apparatus
- Research & Development





ACCURATE

9230/100/1

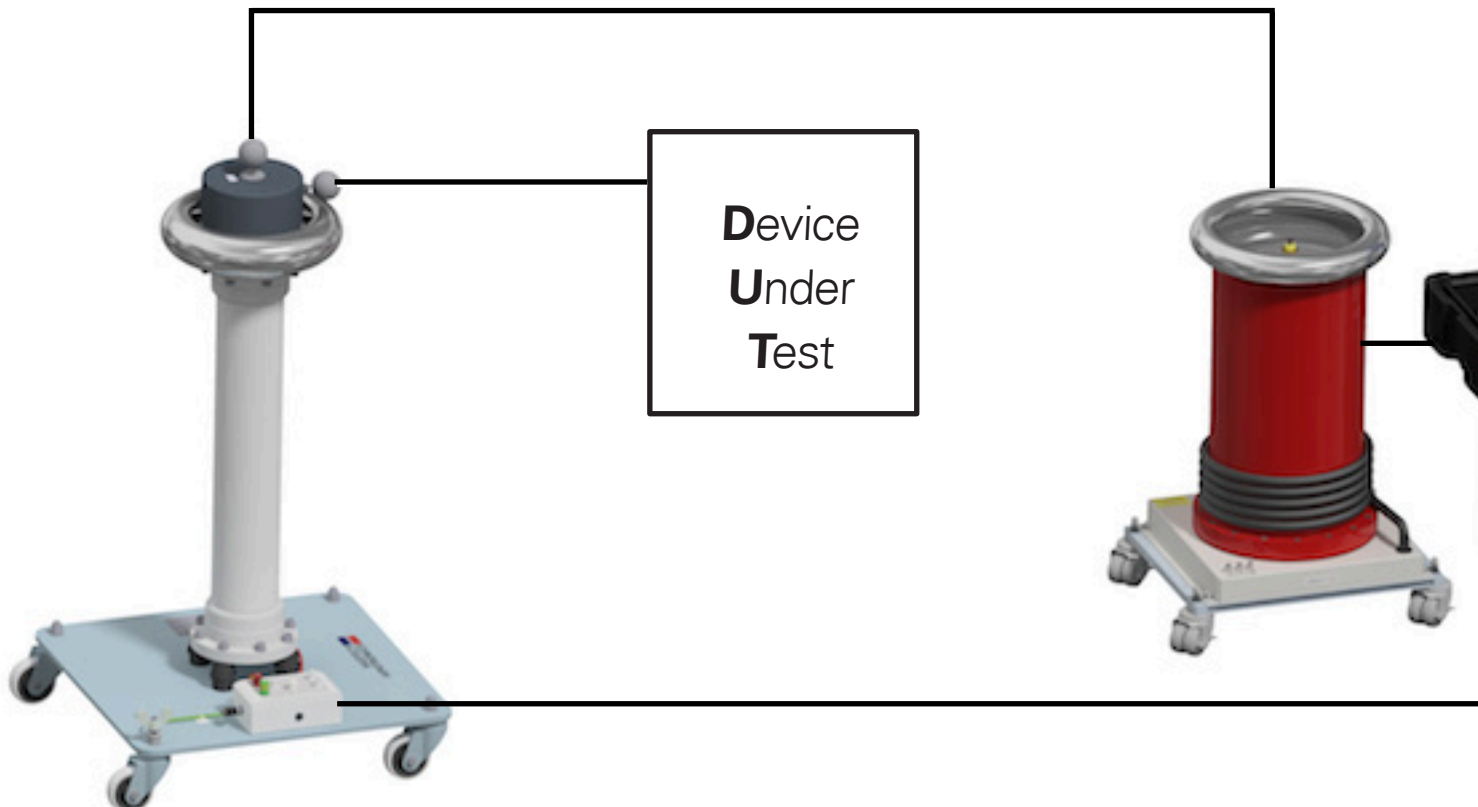
Coupling capacitor with large measurement frequency bandwidth, high stability in capacitance values with frequency and temperature guarantee a consistent and reliable measurement.

With the optional HV filter, interferences from the HV power supply are sufficiently suppressed and Signal-to- Noise Ratio of the test circuit is improved.

SAFE

HVT-DI

A guard circuit prevents stray or surface leakage currents from being measured by the current meter. To ensure safe operation the unit is equipped with a fast-acting fuse, an external interlock, and an E-stop.



The 100HVT-DI and DDX9121b combination is ideal for customers doing PD tests on DUT's with low current requirements.

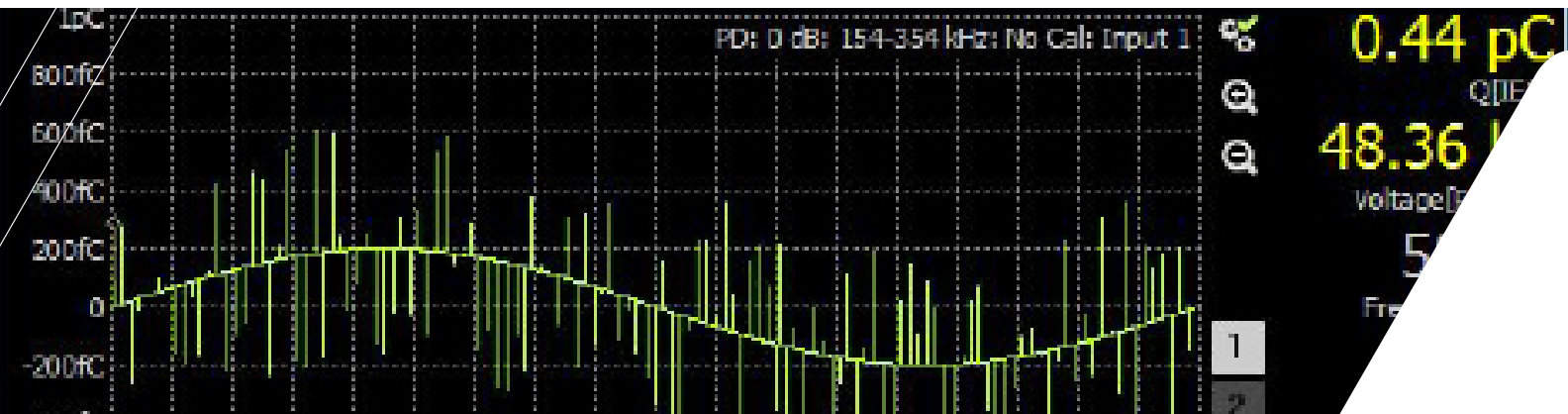


CONVENIENT

DDX 9121b

With the DDX9121b you can setup, control, test, monitor, and generate test reports of Partial Discharge tests from a single computer. Its modular design makes the DDX9121b flexible for any application.

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BASIC SPECIFICATIONS

HVT-DI

Voltage Output (AC)

0-100 kV (50 - 60 Hz)

Current Output

50 mA (100 kV Tap) / 100 mA (50kV Tap)

Input

120 V ... 240 V (50 - 60 Hz)

Duty Cycle

5 min ON / 5 min OFF max. 6 times. Then 2 h OFF

PD Rate

$\leq 10\text{pC}$ @ $\leq 30\text{ kV}$

DDX9121b

PD System Bandwidth

30 kHz ... 1.5 MHz (-6 dB) (with internal analog filter)

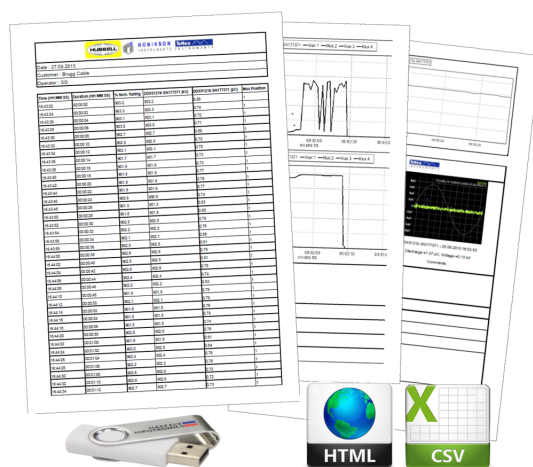
Sensitivity

$< 0.1\text{ pC}$ (directly at AKV 9310T quadripole input)

Linearity Error

$< 5\%$ (1 % ... 100 % FSR)

Complete technical specifications are located in the DDX9121b and HVT-DI datasheets available online at www.haefely-hipotronics.com



STANDARD PACKAGE

HV POWER SUPPLY

100HVT-DI AC Hipot, 100/50kV AC, 5kVA, with VM Probe, Digital Interface



PD DETECTOR

DDX9121b Digital partial discharge detector in a 2U stackable desktop housing.



COUPLING CAPACITOR

9230/100/1 High Voltage capacitor, 100 kV, 1 nF. With Upper toroid and base with wheels.



9230/AKV 9310T Wide-band PD measuring impedance, for PD and RIV, optimized for DDX9121b. To be mounted in



CALIBRATOR

KAL 9511 Type B Basic PD Calibrator, range 10 - 1000 pC (logarithmic scale), battery powered



OPTIONAL ITEMS

ACCESORIES

HH-FS Foot operated interlock switch

HH-HS Hand operated interlock switch

HH-SAFE Safety strobe light with magnetic base



CALIBRATOR OPTIONS

KAL 9511 Type A Basic PD Calibrator, range 1 - 100 pC (logarithmic scale), battery powered

KAL 9511 Type C Basic PD Calibrator, range 100 - 10'000 pC (logarithmic scale), battery powered

KAL 9510 Intermediate PD Calibrator, battery powered, basic features, range 1 pC - 50 nC (logarithmic scale)





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