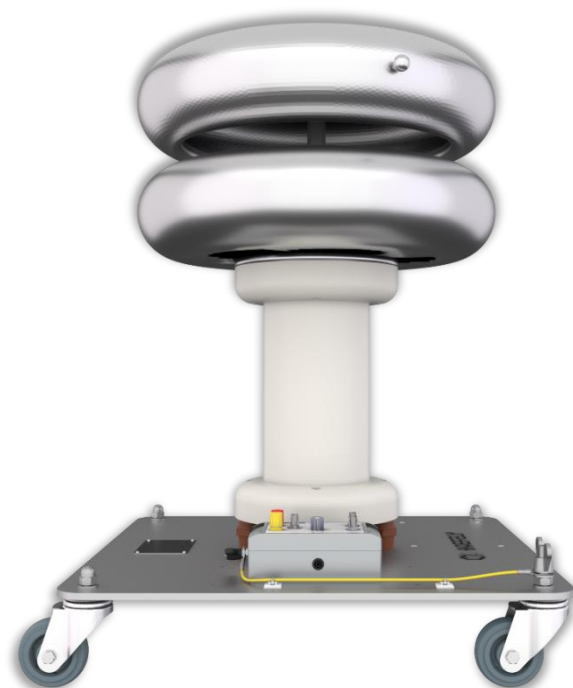




9230/30/9-PD

Coupling capacitor 30 kV for
partial discharge
measurement

Datasheet



HAEFELY

Current and voltage – our passion

Designed by



General Description

The coupling capacitor type 9230/30/9-PD includes a high voltage capacitor, a high voltage filter and a measuring impedance in a compact design. It is optimized for measuring partial discharges together with the PD detector DDX 9121b.

A half-T filter incorporated with the high voltage electrode not only attenuates any interference from the power supply, but also increases the sensitivity of the PD measuring circuit. The filter is protected from overvoltage by a mechanical spark-gap.

Features	Advantages
<ul style="list-style-type: none">▪ HV filter▪ Coupling capacitor▪ Measuring impedance AKV 9310	<ul style="list-style-type: none">☑ All in one solution including the coupling capacitor, the HV filter, and the measuring impedance ready to plug into PD detector and start the measurement.
<ul style="list-style-type: none">▪ High stability in capacitance values▪ Guaranteed optimal frequency bandwidth▪ PD free (< 10 pC)	<ul style="list-style-type: none">☑ Highest accuracy results – large measurement frequency bandwidth, high stability in capacitance values with frequency and temperature guarantee a consistent and reliable measurement.
<ul style="list-style-type: none">▪ High capacitance (9 nF)	<ul style="list-style-type: none">☑ High capacitance provides better sensitivity (Signal to Noise Ratio) while measuring on test objects with large capacitance.

Applications

- Distribution transformers (LV/MV)
- Instrument transformers (LV/MV)
- Rotating machines
- Switchgears (LV/MV)
- Surge arresters (LV/MV)
- Bushings (LV/MV)
- Components testing
- Research and development

Scope of Supply

- Coupling capacitor with embedded HV filter and measuring impedance
- Test certificate
- Operating manual

Technical Data

Signal generation	
Voltage	30 kV
Capacitance	9 nF +/-5 %
PD level	< 10 pC
Max. current	8 A (continuous)
Filter typical attenuation (with 1 nF load)	30 dB (40 – 1000 kHz)

Environmental	
Operating temperature	0 °C ... +50 °C
Storage temperature	-20 °C ... +70 °C
Humidity	5 ... 90% r.h., non-condensing

Mechanical	
Dimensions (W x D x H)	550 x 550 x 690 mm (21.7 x 21.7 x 27.2 in)
Weight	68 kg (150 lb)

Accessories	
BNCTwin/20	BNC twin cable (2 x BNC) 50 Ohm, 20 m
BNCTwin/40	BNC twin cable (2 x BNC) 50 Ohm, 40 m

Global Presence

Europe

HAEFELY AG
Birsstrasse 300
4052 Basel
Switzerland

☎ + 41 61 373 4111
✉ sales@haefely.com

China

HAEFELY AG Representative Office
8-1-602, Fortune Street, No. 67
Chaoyang Road, Beijing 100025
China

☎ + 86 10 8578 8099
✉ sales@haefely.com.cn

This document has been drawn up with the utmost care. We cannot, however, guarantee that it is entirely complete, correct or up to date.
©Copyright HAEFELY/ Subject to change without notice

V2022.11

