



9231/30/9-PD

Coupling capacitor 30 kV for
partial discharge
measurement

Datasheet



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Current and voltage – our passion

Designed by

Tettex 

General Description

The coupling capacitor type 9231/30/9-PD includes a high voltage capacitor, a high voltage filter and a low-voltage (LV) termination to connect external measuring impedance in a compact design. It is optimized for measuring partial discharges together with the PD detector DDX 9160 or 9161 (optimally using internal (built-in) measuring impedance (AKV)).

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
▪ HV filter ▪ Coupling capacitor ▪ Built-in over-voltage protection	☑ All in one solution including the coupling capacitor, and the HV filter, ready to plug into PD detector DDX 9160 or 9161 using an internal (built-in) measuring impedance (AKV) and start the measurement
▪ High stability in capacitance values ▪ Guaranteed optimal frequency bandwidth ▪ PD free (< 10 pC)	☑ Highest accuracy results – large measurement frequency bandwidth, high stability in capacitance values with frequency and temperature guarantee a consistent and reliable measurement.
▪ High capacitance (9 nF)	☑ High capacitance provides better sensitivity (Signal to Noise Ratio) while measuring 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
- Test certificate
- Operating manual

Technical Data

Signal generation	
Voltage	30 kV
Capacitance	9 nF +/-5 %
PD level	< 10 pC
Max. current	3 A (continuous), 6.7 A (10 minutes ON, 15 minutes OFF)
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

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