9231/25/1-PD

Coupling capacitor 25 kV for partial discharge measurement

Datasheet



HAEFELY

Current and voltage – our passion

Designed by Tettex

General Description

The coupling capacitor type 9231/25/1-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 overvoltages by a mechanical spark-gap.

Features	Advantages
▪ HV filter ▪ Coupling capacitor ▪ Built-in over-voltage protection	☑ All in one solution including the coupling capacitor, 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 (< 1 pC)	☑ Highest accuracy results – large measurement frequency bandwidth, high stability in capacitance values with frequency and temperature guarantee a consistent and reliable measurement.
▪ Small dimensions ▪ Lightweight	☑ Portable and perfect solution for onsite measurements of rotating machines (together with MIDAS 2881 and DDX 9160 or 9161).

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

Electrical	
Voltage	25 kV
Capacitance	1.1 nF
PD level	< 1 pC
Max. current	2 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)	178 x 239 x 420 mm (7.0 x 9.4 x 16.5 in)
Weight	10.5 kg (23.1 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

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