



Partial Discharge Coupling Capacitor 17.5kV rms / 1000pF



Key Features ___

- Nominal Voltage 17.5kVrms
- Build in Quadrupole with voltage reference output
- Build in Overvoltage Protection
- Capacitive floating Signal output to avoid Eddy Current Loops

Applications ___

- Hydro Generators
- Turbo Generators
- Windmills
- Industrial Motors

General Description

The 1000pF coupling capacitor is a sensor used for online and offline partial discharge measurements on rotating machines. The sensor will be usually installed at the busbar or on the high voltage terminals of the rotating machine. Permanent or temporary partial discharge detectors / analyzera can be connected via standard RG58 BNC cables to the coupler, usually by using a termination box in between.

The PDC17.5-1000 has an integrated high voltage cable which will be connected via cable lugs to the high voltage busbars of the rotating machine to pickup partial discharge signals without any loss. A specially designed measurement impedance located in the base of the sensor allows to pick up partial discharge signals as well as the line frequency (1:1000). This allows to transfer partial discharge signals and line frequency signal over the same cable to the partial discharge detector. The Signal output is protected via 90V surge arrestor. The 'shield' of te coaxial output is capacitive floating to avoid eddy currents in the signal cables due to high magnetic fields.

Ordering Information		
Order Code:	18.0175.1000	

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Technical Data

Electrical

Nominal Voltage: 17.5kV rms PD Level @ Un: < 5pC 1000pF Capacitance: Voltage Divider: 1:1000 Frequency Range: 50/60Hz Signal Output Type: **BNC** female Ground Connection:

Withstand Voltage (1min): 45kVrms

Lightning Impulse Withstand (BIL): Creeping Distance (mm): ~310 105kVp

(1.2/50us, 10p / 10n)

Environment _____

Operating Temperature Range: -20 .. +125°C

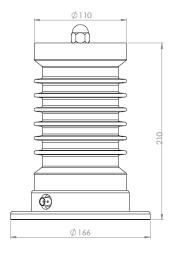
Mechanical

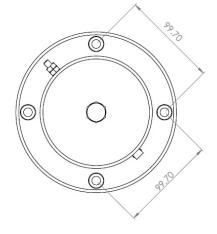
Mounting / Fixing: 4x M8 Allen Key Screws **Electrical Connection:** M12

Dimensions

Outline:

Fixing:





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