

MCC 117 Coupling Capacitor

Partial discharge sensor for generators & motors

Our *MCC 117* coupling capacitor is specifically designed for partial discharge (PD) diagnosis testing and monitoring on middle-voltage generators and motors with a voltage level of up to 17 kV.

The *MCC 117* provides high measurement standards required for PD analysis. It can be used with our MPD 500 and MPD 600 PD measuring systems as well as our OMS 600 and OMS 605 PD monitoring systems.

Compact for easy integration

The compact sensor can be easily integrated into new or existing in-service generators or motors. To decouple PD signals, one coupling capacitor is installed at each phase – for example within the generator's main terminal enclosure.

Each coupling capacitor is connected to the appropriate MPD or OMS data acquisition unit via double-screened coaxial cables in order to minimize the impact of external interferences.



Technical Data

Rated HV Parameter

Rated input voltage (U_r)	17 kV
Nominal capacitance (C_N)	2.0 nF
Withstand voltage (1 min.)	38 kV
Q_{PD}	< 2.5 pC @ 20 kV
Dissipation factor ($\tan \delta$)	< 0.2%

Output

Socket	TNC
Max. output current	15 mA (@ 60 Hz)

Physical Characteristics

Outer dimensions (\emptyset body x \emptyset foot x H)	104 x 150 x 165 mm / 4.1 x 5.9 x 6.5 in.
Weight	2.3 kg / 5.1 lbs
Temperature range	-20° C ... +80° C / -4° F ... +176° F

Ordering Number	VMON0161
------------------------	----------

OMICRON is an international company serving the electrical power industry with innovative testing and diagnostic solutions. The application of OMICRON products allows users to assess the condition of the primary and secondary equipment on their systems with complete confidence. Services offered in the area of consulting, commissioning, testing, diagnosis, and training make the product range complete.

Customers in more than 140 countries rely on the company's ability to supply leading edge technology of excellent quality. Broad application knowledge and extraordinary customer support provided by offices in North America, Europe, South and East Asia, Australia, and the Middle East, together with a worldwide network of distributors and representatives, make the company a market leader in its sector.

For more information, additional literature, and detailed contact information of our worldwide offices please visit our website.