

Terminal Box

Connection device for online partial discharge measurement and monitoring



Safe and easy online access to your electrical assets

Our Terminal Box provides a safe, reliable, and convenient way to perform online partial discharge (PD) measurements as well as online temporary and permanent PD monitoring on rotating electrical machines, power cable joints and terminations, and other assets.

It connects OMICRON PD measurement and monitoring devices with permanently installed PD sensors and allows measurements even if the electrical asset is in operation.

One-time installations

Both the PD sensors and the Terminal Box are installed and connected during a routine maintenance outage. After that, electrical assets can remain in service when PD testing and monitoring devices are connected for online trending and diagnosis of detected PD activity.

As a result, unnecessary downtime can be avoided, operator safety is ensured, and the asset can be evaluated under normal operating conditions.

Switch easily between PD testing and monitoring

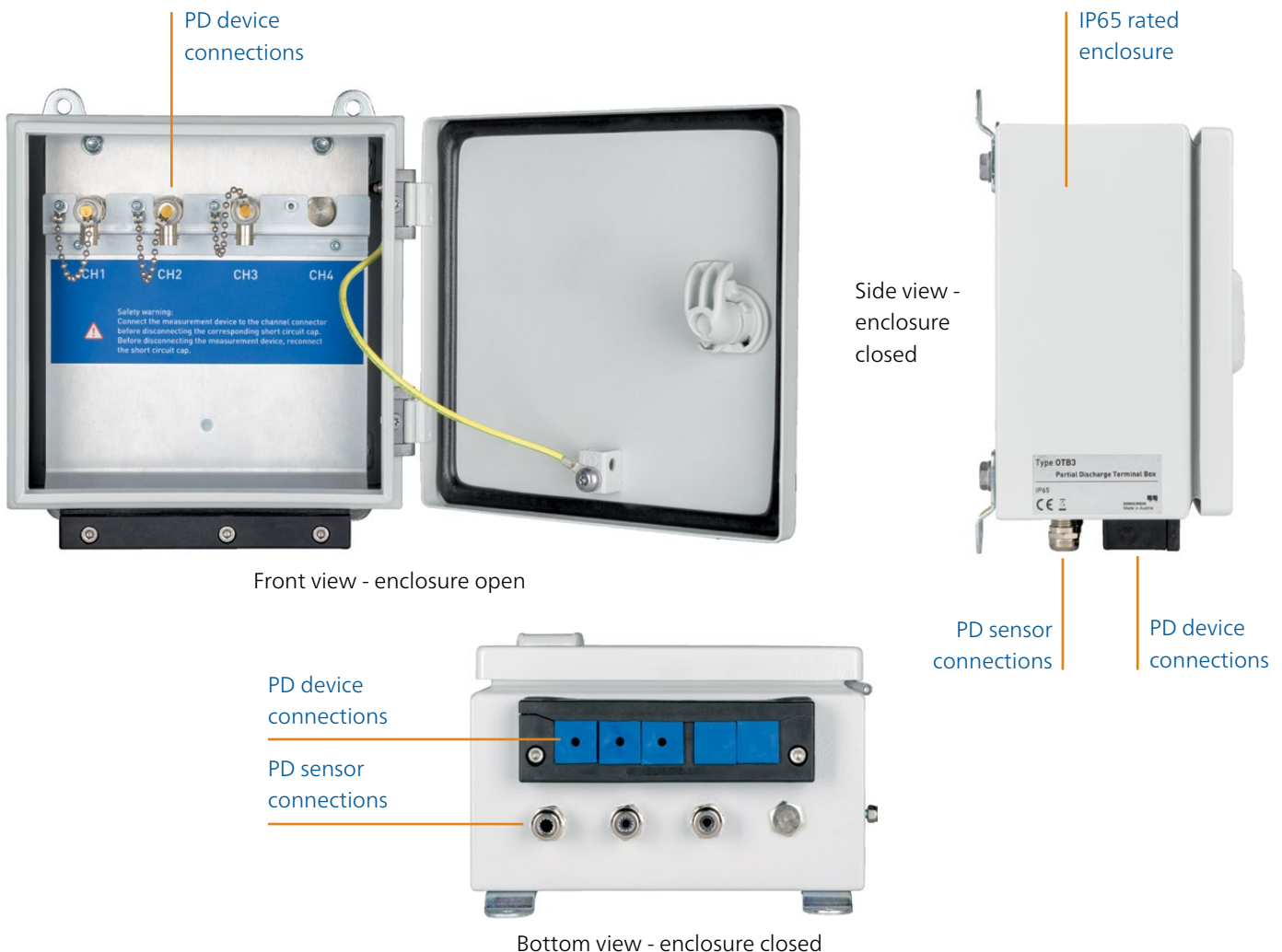
The plug-and-play operation enables you to easily switch from continuous PD monitoring to performing PD measurements for more detailed diagnosis.

For online PD measurements, the Terminal Box can only be used with our MPD 800 PD measurement devices. For temporary and permanent PD monitoring, it can only be used with our MONTESTO 200, MONCABLO, and MONGEMO PD monitoring systems.

These diagnostic and monitoring devices are connected via the Terminal Box to permanently installed PD sensors only available from OMICRON, such as our CPL 844, MCT 085 or MCT 120, MCC 112, MCC 117, or MCC 124 models.

Flexible indoor and outdoor use

The Terminal Box has an IP65 protection class to prevent moisture and dust ingress during outdoor operation. It is available with either 3-channel or 4-channel outputs to match your PD measurement and monitoring application.



Terminal Box configurations

PD sensors

Permanently installed on each phase of electrical power assets (as shown below).



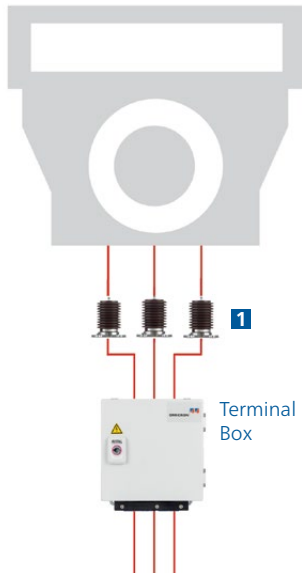
1 MCC Coupling Capacitors



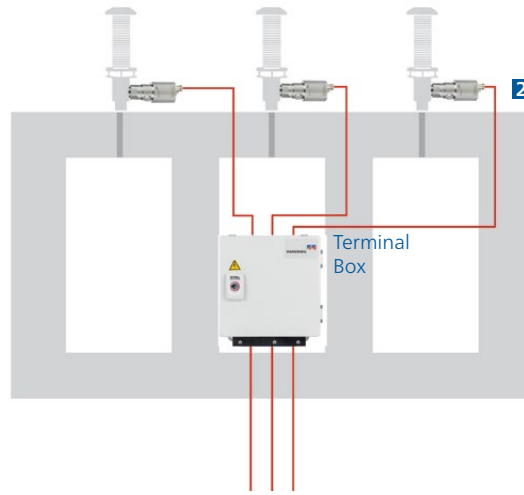
2 CPL 844 Bushing Tap Sensors



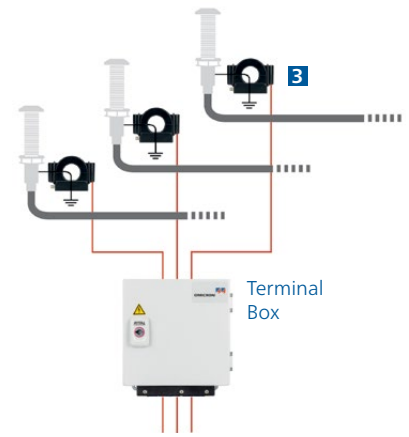
3 HFCTs (High-Frequency Current Transformers)



Motors & Generators



Power Transformers



Power Cable Terminations & Joints

PD measurement & monitoring devices

Connected when needed to online electrical power assets.



MPD 800 Diagnostic PD Measurement & Analysis System



MONTESTO 200 Temporary PD Monitoring System



MONGEMO & MONCABLO Permanent PD Monitoring Systems

Technical Specifications

- > Dimensions (W x D x H): 209 mm x 137 mm x 242 mm (8.22 in. x 5.39 in. x 9.52 in.)
- > Weight: ~2.9 kg (6.39 lb.)
- > Ingress protection: IP65 (IEC/EN 60529)
- > Inputs/outputs: 3 or 4 channels

Your benefits

- > Provides reliable connections of PD acquisition units to permanently installed PD sensors available from OMICRON.
- > Enables easy plug-and-play online PD measurements and monitoring without interrupting electrical asset operation.
- > Includes 3 or 4 channels to match your PD measurement and monitoring installations.
- > Designed with IP65 protection class for outdoor use.

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OMICRON is an international company that works passionately on ideas for making electric power systems safe and reliable. Our pioneering solutions are designed to meet our industry's current and future challenges. We always go the extra mile to empower our customers: we react to their needs, provide extraordinary local support, and share our expertise.

Within the OMICRON group, we research and develop innovative technologies for all fields in electric power systems. When it comes to electrical testing for medium- and high-voltage equipment, protection testing, digital substation testing solutions, and cybersecurity solutions, customers all over the world trust in the accuracy, speed, and quality of our user-friendly solutions.

Founded in 1984, OMICRON draws on their decades of profound expertise in the field of electric power engineering. A dedicated team of more than 900 employees provides solutions with 24/7 support at 25 locations worldwide and serves customers in more than 160 countries

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