

## Press release

### **MONTESTO 200**

#### Portable on-line partial discharge measurement and monitoring system for various electrical assets

OMICRON's MONTESTO 200 combines on-line partial discharge (PD) measurement and temporary on-line PD monitoring functions into one portable system. The IP65 rated MONTESTO 200 can be used both indoors and outdoors for insulation condition assessments on various medium-voltage and high-voltage electrical assets under load, including motors and generators, power transformers and power cables. Partial discharge activity is a reliable indicator of insulation condition, as it is often a sign of insulation defects that can potentially cause failure in electrical assets.

#### **Plug-and-play connections to various PD sensors**

MONTESTO 200 is designed for use with a variety of PD measurement sensors from OMICRON and other suppliers, including coupling capacitors for rotating machines, bushing tap sensors and UHF drain-valve sensors for power transformers, and high-frequency current transformers (HFCTs) for power cables. These PD measurement sensors can be permanently installed and connected to MONTESTO 200 via OMICRON's Terminal Box, which is also permanently installed at the asset. This enables safe and convenient plug-and-play connections while the asset is on line to avoid unnecessary downtime during setup.

#### **Easy on-site PD measurements**

The lightweight and compact MONTESTO 200 comes with all the necessary connection cables in a wheeled case that is easy to transport to various locations for on-line PD measurements on site. The system's wide measurement frequency range can be freely adjusted to ensure an optimal signal-to-noise ratio. PD measurement data streams can be recorded and replayed later for detailed analysis.

#### **Remote monitoring setup and data access**

For temporary PD monitoring, users can easily mount MONTESTO 200 to a surface on or near the asset, connect it to the Terminal Box, and then leave it unattended. MONTESTO 200 features a built-in computer that enables long-term data collection and archival. Users can access this computer from any remote location to set up monitoring sessions and to view the collected PD data with the system's convenient web interface. Users can also configure the system to automatically send email alarm notifications when PD levels exceed user-defined thresholds.

### **User-friendly software**

The user-friendly MONTESTO 200 software simplifies system setup, PD data analysis and reporting. Unique software features, such as 3PARD (3-Phase Amplitude Relation Diagram) and Automatic Cluster Separation, automatically separate noise from PD signals to help users quickly and reliably determine the signal source. Data from third-party sensors can also be easily integrated for correlation with the PD data.

### **Various application areas**

MONTESTO 200 is intended for use by asset manufacturers, maintenance teams at utilities and industrial sites, as well as service providers for convenient on-line PD measurements and temporary PD monitoring. The two-in-one solution can be used, for example, to clarify asset insulation issues during warranty periods; to periodically check insulation condition during an asset's service life; to identify insulation issues that require immediate attention; to observe assets at risk over extended periods of time; and to plan maintenance and investment based on asset condition.

OMICRON has several years of experience in the field of PD measurement, monitoring and analysis on medium-voltage and high-voltage assets with customers in the asset manufacturing, power utility and industry sectors all over the world.

[www.omicronenergy.com/montesto200](http://www.omicronenergy.com/montesto200)

### **Image**



MONTESTO 200 is a two-in-one solution for on-line partial discharge measurement and temporary monitoring on various electrical assets.

## **Company profile**

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 150 countries rely on the company's ability to supply leading edge technology of excellent quality. Service centers on all continents provide a broad base of knowledge and extraordinary customer support. All of this together with our strong network of sales partners is what has made our company a market leader in the electrical power industry.

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