PDMonitorT
Transformer Online Partial Discharge Monitoring System

PDMonitorT utilizes UHF, HFCT, and AE contact sensors to detect, analyze, and diagnose the partial discharge signals from transformers. It consists of Main Units, sensors, and cables that conducts real time monitoring for the PD signals from the transformer while online. It analyzes the data, eliminates the noise, and diagnoses the failure. Alarms are delivered when the signals monitored reach the conditions set forth by the user. The monitoring results are transmitted to the remote server through IEC 61850 and the user can arrange a maintenance plan to avoid an unexpected power outage or failure.

Applications
- Transformers

Main Features
- The communication network supports TCP/IP and IEC 61850 communication protocols and provides data calls and communication with the remote server
- UHF/HFCT/AE detection methods are employed
- Identifies typical PD types and disturbance signals
- Built-in typical PD and disturbance characteristics database
- Database System for data storage
- Self-Diagnostic Function to transmit the diagnostic results remotely as required

Detection Bandwidth
- UHF: 300MHz ~ 1500MHz
- HFCT: 500kHz ~ 50MHz
- AE: 20kHz ~ 300kHz

Technical Specifications
- Application: Continuous monitoring with Internal or External UHF Sensors
- Display: PD amplitude, phase and frequency, and more.
- Data spectrum: PRPD, PRPS, and more.
- Data communication and protocol: Ethernet compatible with IEC 61850 communication protocol
- Power supply: AC 85 ~ 264V, 50/60Hz
- Operating temperature: -40 °F ~ 158 °F / -40 °C ~ 70 °C
- Humidity: 0 ~ 90%, non-condensing
Configuration Options

External UHF Sensor  |  AE Contact Sensor  |  HFCT Sensor

PDMonitorT Software

- High speed data sampling and processing in real time
- Multiple spectrums and analyzing methods
- Identifies all PD types and disturbance signals through statistics and Intelligent Diagnostic Technology
- Built-in typical PD and disturbance characteristics database
- Historical trend statistics and data record inquiry
- Partial discharge alarm
- Supports IEC 61850 communication protocol
- External data access and data export capability

* Note: Customized products are available upon request.

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