PDMonitorC utilizes HFCT sensors to monitor the PD signals from power cables in real time. It consists of sensors, Monitoring Endpoint Units (MEU), and a Diagnostic Server Unit (DSU). It conducts real time monitoring for the PD signals from the power cables while online with Broadband Electromagnetic Coupling Technology. The PD signals detected from the sensors are transmitted to the MEU for signal acquisition. The processed data is transmitted to the DSU through optical fiber and diagnosed by the PC-based software and Intelligent Diagnostic System. PD type and location are identified and maintenance suggestions are provided.

Applications
- Power Cables

Main Features
- Monitors dozens of channels of simultaneously
- Compares and analyzes the detected data of multiple power cables
- Remotely controls the amplification of the HFCT bandwidth and filter out the disturbance signals
- PD Signals are collected and processed through the MEU, which consists of High Speed Data Sampling Module, High Speed Data Processing Module, and Communication & Control Module.
- Phase synchronization function to obtain the phase information of PD signals at the starting point of the frequency cycle

Detection Bandwidth
- HFCT: 500kHz ~ 50MHz

Technical Specifications
- Application: Continuous monitoring
- Display: PD amplitude, phase, frequency, etc.
- Data spectrum: PRPD and PRPS etc.
- 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

HFCT Sensor

Diagnostic Server Unit (DSU)

PDMonitorC 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