PDMonitorI
Partial Discharge Intelligent Electronic Device

PDMonitorI utilizes Internal and External UHF Sensors to monitor the PD signals from GIS in real time. It consists of Main Units, sensors, and cables. The PD signals detected from the sensors are transmitted to the Main Unit for processing. The processed data is transmitted to the Diagnostic Server Unit (optional) through IEC 61850 Communication Protocol. Then it is analyzed and diagnosed by the PC-based software and Intelligent Diagnostic System in the Diagnostic Server Unit (optional).

Applications
- GIS
- MV switchgear
- Power cables
- Transformers

Technical Specifications
- Application: Continuous monitoring with Internal or External UHF Sensor
- Display: Discharge PD amplitude, phase, 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

Detection Bandwidth
- UHF: 300MHz ~ 1500MHz

Main Features
- The communication network communicates with the remote server through TCP/IP and IEC 61850 communication protocols
- UHF detection method is employed
- Detects any partial discharge signal and identifies typical PD types
- The Expert System analyzes and processes the data collected, providing PD trends as well as diagnostic suggestions through statistics and intelligent diagnostic technology
- Database System for data storage
- Typical PD and disturbance characteristics database provided in software
**Configuration Options**

- **Internal UHF Sensor**
- **External UHF Sensor**
- **Diagnostic Server Unit (DSU) (Optional)**

**PDMonitorl 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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