PDMonitorG
GIS Online Partial Discharge Monitoring System

PDMonitorG utilizes Internal and External UHF Sensors to monitor the PD signals emitted from GIS in real time. It consists of sensors, Monitoring Endpoint Units (MEU), a Diagnostic Server Unit (DSU), and cables. The PD signals detected from the sensors are transmitted to the MEU for processing. The processed data is transmitted to the DSU through optical fiber and is analyzed and diagnosed by the PC-based software and Intelligent Diagnostic System. PD type and location are identified and maintenance suggestions are provided.

Applications
- GIS

Detection Bandwidth
- UHF: 300MHz ~ 1500MHz

Main Features
- Optional Internal/External UHF Sensor to detect the PD signal from the GIS chamber
- Compares signals from the Noise Sensor and the UHF Sensor to identify the disturbance signals and PD 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
- The ultra-high Speed Detection Technology is employed to capture the time-domain characteristics of the UHF signal
- The DSU identifies the possible PD type and location through statistics and analysis of the historical data
- Diagnostic results and maintenance suggestion are provided

Technical Specifications
- Application: Continuous PD monitoring with Internal or External UHF Sensor
- Display: 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
Configuration Options

Internal UHF Sensor  External UHF Sensor  Diagnostic Server Unit (DSU)

PDMonitorG 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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