

UPM601-P Ultra High Frequency Partial Discharge Monitor



Rugged Monitoring Ultra High Frequency Partial Discharge (PD) monitoring solution is a platform that enables HV asset owners to monitor PD due to insulation defects 24/7. System can also be used to perform offline PD measurement during HV AC testing. Compact size and rugged enclosure of monitor makes it easy to get installed and get started.

Solution can communicate with its user over IEC61850 or using Rugged Monitoring proprietary Rugged Enterprise/ RMEYE software suite. System simple design enables it to get interfaced to third party protocols. Each Monitor is capable of transferring data directly to software installed on Server or data can be temporarily stored in the device in case of communication loss between server and monitor. Thousands of pulses per second can be transferred to the Server enabling the user to generate fast and reliable Phase Resolved Partial Discharge (PRPD) graphs. PRPD graphs help the user to identify type of PD in HV assets. Monitoring solution is packed with all necessary tools that help to perform effective PD measurements. Integrated variable amplifiers and on-board denoising features help during onsite testing even in presence of huge noise.

We at Rugged Monitoring are motivated to provide innovative and exceptional quality products, our vision remains focused on meeting customer requirements while anticipating and exceeding the needs of a continuously changing dynamic market.

Applications

- Power Transformer
- Gas Insulated Switchgear (GIS)
- Circuit Breakers
- Cable Terminations
- Online continuous partial discharge monitoring
- Offline PD measurement during HV AC testing
- Multiple point PD monitoring

Features

- Rugged, simple design with IP 65 rating
- 4 synchronous input channels allow 3 phase synchronous measurement with additional external synchronous channel to enable the use of other type of sensor
- Indicator LEDs to alert in case of PD alarm or warning
- Comprehensive software suite for analyzing the data and generating reports
- Gigabit ethernet copper Cat5e or multimode fiber communication link between monitor and server

Benefits

- Rugged and robust sensors, monitor and server
- Gigabit ethernet communication between monitor and server
- Each device is rigorously tested
- Software packed with useful tools for reliable and interactive PD measurements
- Robust recording and analytics
- Customizable according to customer specific applications
- Suitable for online or offline PD measurements

Technical Specifications

| | | |
|-------------------------------|---|---|
| MONITOR | Channels | 4 simultaneous channels |
| | Sampling Rate | 250 MS/s |
| | Bandwidth | 300 MHz - 2000 MHz |
| | Amplification | up to 50 dB, software selectable |
| | Filtering | Software configurable band pass filters |
| MEMORY | SSD | upto 256 GB (Optional) |
| DATA TRANSFER | High Resolution (pulses data on simultaneous channels) | 10,000 pulses per second for 4 simultaneous channels |
| | Low Resolution (pulse amplitude on simultaneous channels) | 50,000 pulses per second for 4 simultaneous channels |
| | Transfer Rate | 400 Mbps (depending on operating system and connection) |
| REMOTE COMMUNICATION | IEC61850 (Optional) | |
| | Proprietary Rugged Connect for remote communication | |
| | Customized third party interface on request | |
| COMMUNICATION LINK | Type | Ethernet Fiber / Copper |
| | Cable | Multimode Fiber / Cat5e |
| | IP Rating | IP65 |
| TEMPERATURE RATING | Ambient | -30°C - 60°C |
| | Storage | -40°C - 85°C |
| POWER RATING | Input Power | 35W max |
| SYNCHRONIZATION INPUTS | Input 2 Inputs, software | Internal |
| | Selectable | External |
| DIMENSIONS | 260mm(L)x310mm(W)x120mm(H) | |
| SOFTWARE | PD Live, Rugged Enterprise/ RMEYE | |

Ordering Code

