

# HPM601-C High Frequency Partial Discharge Monitor



**"Rugged Monitoring High Frequency Partial Discharge (PD) monitoring solution is a platform that enables HV asset owners to keep monitoring PD round the clock due to insulation defects.**

System can also be used to perform online PD measurement during HV AC testing. Solution can communicate with its user over IEC61850 or using Rugged Monitoring proprietary Rugged Enterprise software suite. Shielded monitor with small dimensions make it easy to get installed and start.

Enhanced and newly added hardware and software features ensure highly sensitive multi-channel PD measurements for reliable, industry-standard PD testing on a variety of electrical equipment and components. System simple design enables it to get interfaced to third party protocols. 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 noise suppression features help during onsite testing even in case of presence of huge noise.

Rugged Monitoring's team of experienced condition monitoring specialists provide innovative testing, Diagnosis and Customized Monitoring Solutions.

## Applications

- Online PD measurement during HV AC testing (Resonant test set, VLF, OWTS)
- Multiple point PD monitoring
- Cables and their accessories
- Rotating machines
- AIS/GIS switchgear/switchboards
- Power transformers

## Features

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

## Benefits

- Highly Efficient sensors, monitor and server
- Gigabit ethernet communication between monitor and Server
- Robust design parameters
- Each device is tested rigorously
- Software packed with useful tools for reliable and interactive PD measurements
- Robust recording and analytics
- Customizable according to customer specific applications
- Suitable for Online PD measurements

## Technical Specifications

<b>MONITOR</b>	Channels	4 simultaneous channels 8 & 12 channel options available with multiplexer
	Sampling Rate	250 MS/s
	Bandwidth	0.01-100 MHz
	Amplification	up to 28 dB, software selectable
	Filtering	Software configurable band pass filters
<b>MEMORY</b>	SSD	upto 256 GB (Optional)
<b>DATA TRANSFER</b>	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)
<b>REMOTE COMMUNICATION</b>	IEC61850 (Optional)	
	Proprietary Rugged Connect for remote communication	
	Customized third party interface on request	
<b>COMMUNICATION LINK</b>	Type	Ethernet Copper or Fiber (100/1000 BASE-T)
	Connector	RJ45 or LC Multi-mode
	IP Rating	IP65
<b>TEMPERATURE RATING</b>	Ambient	-30°C - 60°C
	Storage	-40°C - 85°C
<b>POWER RATING</b>	Input Power	240-100Vac, 45W
<b>SYNCHRONISATION INPUTS</b>	2 Inputs, software	Internal
	Selectable	External
<b>DIMENSIONS</b>	260mm(L)x310mm(W)x120mm(H)	
<b>SOFTWARE</b>	Rugged Enterprise	

## Ordering Code

