

# CPM601-C Comprehensive Partial Discharge Monitor



**Rugged Monitoring presents state of the art Partial Discharge Monitor CPM601 to perform PD measurements in dual frequency ranges; 0.01MHz - 100MHz as well as 200 MHz – 2000 MHz.**

With the help of advanced electronics embedded inside CPM601, now a user can perform PD measurement using variety of sensors without the need of using external frequency down converters. This presents All-in-One solution to perform PD measurements using Acoustic, Ultrasonic, HFCT, TEV, Coupling Capacitors as well as UHF Sensors on all assets, GIS, Power Transformers, Rotating Machines and Power Cables.

Compact size and rugged enclosure with electronics makes it easy for the user to perform PD measurements with less hassle. Monitor can transfer the data directly to PD Connect software installed on laptop or data can be temporarily stored (optional) in the device enabling the user to record PD pulses with higher sampling rate. Thousands of pulses per second can be transferred to the laptop enabling the user to generate fast and reliable Phase Resolved Partial Discharge (PRPD) graphs. PRPD patterns help the user to identify type of PD.

Monitor and Software are packed with all necessary tools that help to perform effective PD measurements. Integrated variable amplifiers and on-board denoising features help during onsite testing in case of 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 transformers
- AIS/GIS switchgear/switchboards
- Rotating machines
- Cables and their accessories
- Online periodic partial discharge monitoring
- Offline PD measurement during HV AC testing (Resonant test set, VLF, OWTS)
- Multiple point PD monitoring

## Features

- Rugged, compact design
- Dual Frequency Ranges; 0.01MHz - 100MHz as well as 200 MHz - 2000 MHz
- Compatible with Acoustic, Ultrasonic, HFCT, TEV, Coupling Capacitors as wells as UHF Sensors
- Gigabit ethernet copper Cat5e communication link between monitor and laptop
- Optional rugged laptop with installed software suite IP65 rated
- An interactive and comprehensive software for reliable PD measurement and analysis

## Benefits

- Rugged sensors, monitor and laptop
- Gigabit ethernet communication between monitor and laptop
- Enhanced noise rejection
- Realtime denoising
- 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

INPUT CHANNELS	Channels	8 Multiplexed (4x HF and 4x UHF)
	Sampling Rate	250 MS/s
	Amplification	up to 50 dB, software selectable
	Filtering	Software configurable band pass filters
HF CHANNELS	Bandwidth	0.01 - 100 MHz
	Sensitivity	1mV to 2000mV
UHF CHANNELS	Bandwidth	200 MHz - 2000 MHz
	Sensitivity	-10 to -70 dBm
	Dynamic Range	60 dBm
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)
MEMORY	SSD	up to 1 TB (Optional)
COMMUNICATION LINK	Type	Ethernet Copper
	Cable	Cat5e
SYNCHRONIZATION INPUTS	2 Inputs, software	Internal
	Selectable	External
IP RATING	IP 65	
TEMPERATURE RATING	Ambient	-30°C - 60 °C
	Storage	-40°C - 85°C
POWER RATING	Input Power	100 - 240Vac, 45W
LAPTOP	Rugged laptop (Optional)	Internal

## Ordering Code

