

Comprehensive Partial Discharge Portable Monitor



- Rugged, compact design
- Dual Frequency Ranges; 0.01MHz - 100MHz as well as 300MHz - 2GHz
- Compatible with Accoustic, Ultrasonic, HFCT, TEV, Coupling Capacitors as wells as UHF Sensors
- An interactive and comprehensive software **PD Connect** for reliable PD measurement and analysis
- Gigabit ethernet copper Cat5e communication link between monitor and laptop
- Optional rugged laptop with installed software suite
- IP65 rated

Rugged design, designed for reliability, 3 Phase synchronous UHF or HF partial discharge monitoring equipment.

Product Summary

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 300MHz - 2GHz. 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 Accoustic, Ultrasonic, HFCT, TEV, Coupling Capacitors as wells as UHF Sensors on all assets; GIS, Power Transformers, Rotating Machines and Power Cables. Compact size and rugged enclosure and electronics make it portable, easy to carry and enabling the user to perform PD measurements with less hassle.

Monitor is capable of transferring 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.

There is a dedicated team for application specific customizations for sensors, monitor configuration and software integration to simplify data collection of testing and monitoring applications.

Applications

- Online periodic partial discharge monitoring
- Offline 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

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	-50dBm
Dynamic Range	50dB

UHF Channels	
Bandwidth	300 MHz - 2 GHz
Sensitivity	-80 dBm
Dynamic Range	70 dB

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

Synchronisation Inputs	
2 Inputs, software selectable	Internal External

IP Rating	
	IP65

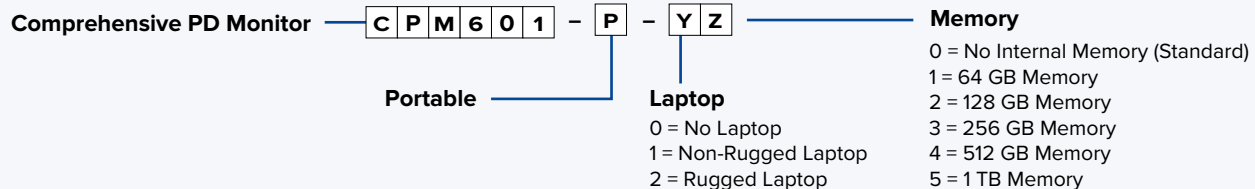
Temperature Rating	
Ambient	-30C - 60C
Storage	-40C - 85C

Power Rating	
Input Power	45 W

Dimensions	
	260mm(L)x310mm(W)x120mm(H)

Laptop	
Rugged Laptop	(Optional)

ORDERING CODE



Rugged Monitoring Services

Rugged Monitoring provides customization of sensors, monitors & software. In addition we offer on-site commissioning services, maintenance contracts and technical support to all customers worldwide.



About Rugged Monitoring

Industry leading team of fiber optic experts with 100+ years of combined experience committed to delivering customizable solutions for challenging applications. We offer a range of reliable, high performance, customizable sensors and monitoring solutions that are immune to external influence.