

High Frequency Partial Discharge Portable Monitor



- Rugged, compact design
- 4 synchronous input channels allow 3 phase synchronous measurement with additional external synchronous channel to enable the use of other type of sensor
- An interactive and comprehensive software **Rugged Enterprise** for reliable PD measurement and analysis
- Gigabit ethernet copper Cat5e communication link between monitor and laptop
- Rugged laptop with installed software suite
- IP65 rated

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

Product Summary

Rugged Monitoring High Frequency Partial Discharge (PD) Monitor is a compact and rugged device enabling the user to perform periodic offline and online PD measurements in power cables and accessories, switchgears and rotating machines. Compact size and rugged enclosure and electronics makes 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 Rugged Enterprise 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

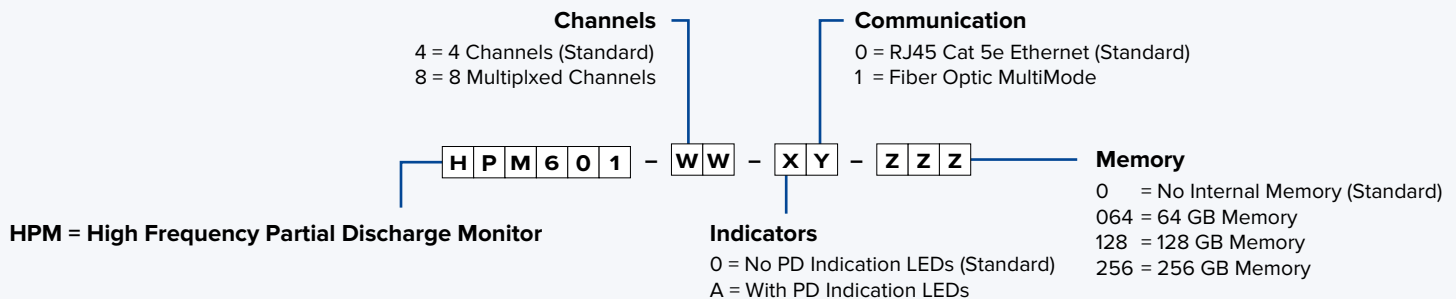
- Rugged sensors, monitor and laptop
- Gigabit ethernet communication between monitor and laptop
- Enhanced noise rejection
- IEC60270 compliant (optional)

- 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 Simultaneous Channels		Memory	
Channels	4 simultaneous channels	SSD	upto 256 GB (Optional)
Sampling Rate	250 MS/s		
Bandwidth	0.01 - 100 MHz		
Amplification	up to 28 dB, software selectable		
Filtering	Software configurable band pass filters (optional)		
Data Transfer		Communication Link	
High Resolution (pulses data on simultaneous channels)	10,000 pulses per second for 4 simultaneous channels	Type	Ethernet Fiber / Copper
Low Resolution (pulse amplitude on simultaneous channels)	50,000 pulses per second for 4 simultaneous channels	Cable	Multimode Fiber / Cat5e
Transfer Rate	400 Mbps (depending on operating system and connection)		
Power Rating		Synchronisation Inputs	
Input Power	35 W	2 Inputs, software selectable	Internal External
		IP Rating	IP65
		Temperature Rating	
		Ambient	-30C - 60C
		Storage	-40C - 85C
		Laptop	
		Rugged Laptop	IP55 (optional)
Dimensions			
260mm(L)x310mm(W)x120mm(H)			

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.