

PRY-CAM PORTABLE

A revolution in Partial Discharge management



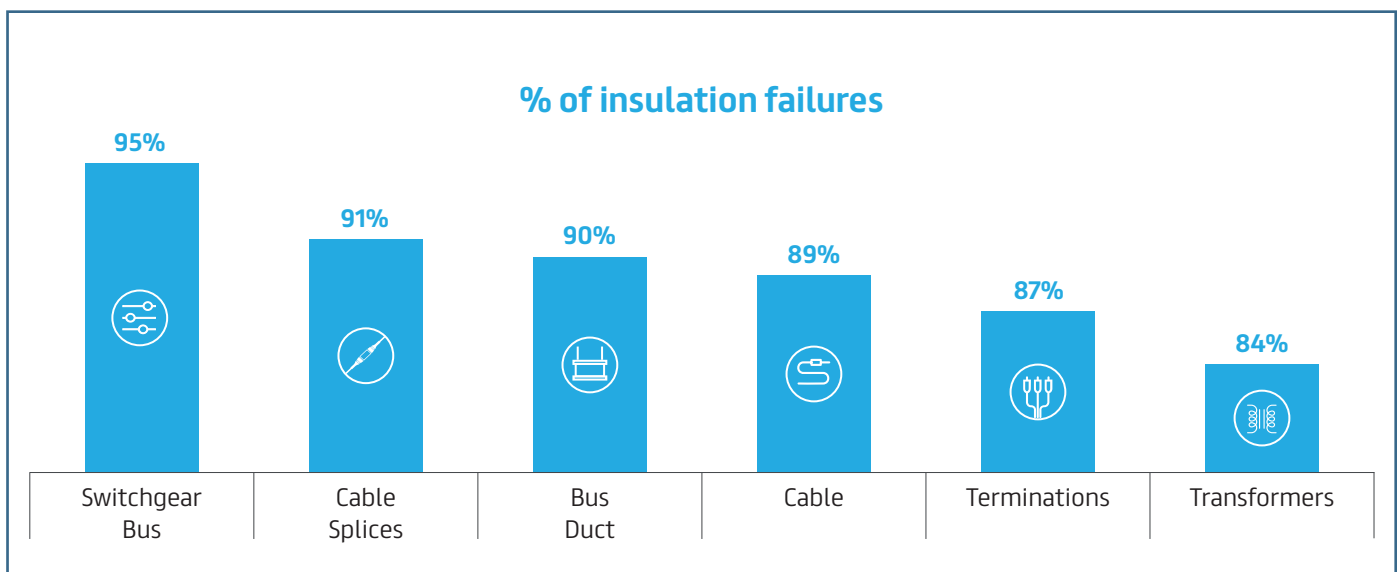
A Brand of Prysmian Group

For data-driven
power

Innovative solutions to real-world challenges

PD measurement is a key parameter to assess the conditions of any electrical system. Nevertheless, PD testing has never been widely used as a powerful online diagnostic tool due to several limitations of traditional PD technologies, which are usually complex, expensive, unscalable to the whole asset, nearly impossible to integrate with all key asset parameters. In addition, such traditional PD technologies do not always allow defect detection and localization to be performed online.

More than 80% of failures in HV/MV assets are related to Partial Discharge (PD) activity



Source: 493-1997 – IEEE Recommended Practice for the Design of Reliable Industrial and Commercial Power Systems (Gold Book)

The PRY-CAM answer

PRY-CAM's breakthrough wireless technology allows online, accurate and reliable PD measurements, diagnosis and defect localization.

PRY-CAM allows PD testing to be performed online – i.e. without having to de-energize a system and to request an outage – and without the need for a direct (galvanic) connection to what is being tested, which means greater safety for operators.

PRY-CAM is faster, more data-driven and more effective than ever before, solving problems today and delivering learning for tomorrow.

For data-driven power



Use on HV and MV equipment



CABLES



SWITCHGEAR



SPLICES



TRANSFORMERS



TERMINATIONS



ELECTRICAL MACHINES



DETECT



MONITOR



LOCATE



PREVENT





PRY-CAM PORTABLE

Key features



NO GALVANIC CONNECTION



WIRELESS DATA TRANSMISSION



USER-FRIENDLY MOBILE APPLICATION



LIGHTWEIGHT AND EASY TO CARRY



AUTOMATIC A.I. DIAGNOSIS

PRY-CAM PORTABLE is an integrated portable instrument for the automatic acquisition, processing and classification of pulse signals generated by PD phenomena occurring in insulating materials of Medium and High Voltage electrical systems and equipment, such as transformers, electrical machines, cable systems and switchgear.

It provides an instant diagnosis and snapshot of the conditions of the object being monitored, that is easy and immediate to read thanks to a red-yellow-green traffic-light-like visual interface.

Automatic pre-diagnosis is based on the PRY-CAM BRAIN™ Artificial Intelligence (A. I.) algorithm.

Wireless data transmission paired with the absence of galvanic connections ensure maximum safety for operators.

Maximum safety for operators

Very high sampling rate and advanced filtering capabilities

PD measurement outcome with PD pattern, waveform (Time Domain Analysis) and frequency spectrum (Frequency Domain Analysis).



Patented Ultra-Wide Band (UWB) capacitive probe sensor

Enhanced noise rejection

High sensitivity and directivity



Technical specifications

Sensor type: Electromagnetic sensor, based on a patented Ultra-Wide Band (UWB) active capacitive probe

Sampling frequency: 200 MS/s

Bandwidth: 100 MHz

PD sensitivity: Better than 1pC

Synch frequency: From 10 Hz to 1 kHz

Processing: Real-time filtering capabilities

Communication interfaces:
Wireless 802.11 b/g (Wi-Fi)

AC synchronization source: Electric field, magnetic field, light, auxiliary/external

Internal battery: Li-Po 7.4 V, 2200 mAh, autonomy of approximately 6 hours

Working temperature: From -25°C to 70°C

Weight: 1.2 lbs

Dimensions: 7 × 5 × 2.75 inches (L × W × H)

Case: Carbon Fiber

One instrument and one APP, all your needs covered

Seamlessly move between BASIC, ADVANCED and PREMIUM operating modes depending on your information needs and PD expertise.

3 operating modes. Discover the right one for you.

| | | RECOMMENDED FOR MV | RECOMMENDED FOR HV |
|--------------------------------|-------------------------------------------------------------------------------------------------------------------------------|--------------------|--------------------|
| BASIC Free use | Your PRY-CAM PORTABLE can be used as a reliable PD monitor with simplified PD pattern and traffic-light like visual interface | ✓ | |
| ADVANCED Pay-per-use | Provides you with the PD pattern for simple diagnosis only | ✓ | ✓ |
| PREMIUM Pay-per-use | Provides you with the complete PD pattern, waveform and frequency spectrum, for any single PD pulse | ✓ | ✓ |

Users can temporarily upgrade from BASIC to ADVANCED or PREMIUM modes for more detailed diagnosis as and when needed.



Why PRY-CAM PORTABLE is good for your business

100% successful diagnosis on HV and MV

80% measurement time reduction compared to traditional technologies

Up to 5× higher sensitivity on small defects

One device for all types of equipment and all voltage classes

Cost savings generated by online (system in operation) measurement

Easy to use – training available

Reliable remote diagnosis by PD experts on demand

Applications

Suitable for any electrical equipment from 3 kV to 600 kV

Suitable for cable systems (cables, splices, terminations), GIS, switchgear, transformers and electrical machines (motors, generators, turbines, etc.)

Suitable for AC and DC

Data management

Every single PD measurement can be saved alongside other useful details, such as pictures, recorded messages, GPS coordinates, notes and tags.



Optional extras

PRY-CAM backpack kit

Includes one backpack, one telescopic stick, one tripod, one strap and one car charger, providing you with everything you need, even in the most difficult situations.





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