

## PrecisePD Cable PD Test and Location



**PrecisePD** is an on-line PD Spot Testing and PD location system for Cables and Switchgear with advanced signal processing for detection of PD in high noise environments.

The system allows users to investigate and locate Partial Discharge sources on live electrical equipment helping to prevent potential faults in high voltage assets. Designed by IPEC Ltd, the PrecisePD Spot Tester takes advantage of the many years of IPEC's field experience. Using the advanced DeCIFer algorithm which is designed to operate in high noise environments the unit offers significant advantages over many other Spot Testing systems.



### The Benefits

- **Asset Condition** – It is important to understand the condition of electricity assets in any network. Routine testing allows the asset operator to build up a picture of the equipment condition. With PrecisePD all testing is conducted whilst the equipment is online and under normal operating conditions
- **Automated PD Detection** – PrecisePD acquires high resolution data which is processed by the DeCIFer algorithm to reject noise and classify PD by type
- **Defect Location** – PrecisePD's cable mapping function enables the location of a discharge source to be identified with a high degree of accuracy



### Easy to use

PrecisePD is simple to use for routine operation however it also incorporates more advanced features for the experienced engineer to fully analysis and get a clear picture of discharge activity. The built-in reporting system collates the necessary data and information for subsequent detailed analysis where required.

- Sensitive PD detection in high noise environments
- Test cables up to 4km in length
- Accurate Cable PD Mapping for defect location
- Integrated cable length measurement



# Technical Specification

## PrecisePD

[www.ipec.co.uk](http://www.ipec.co.uk)



### The PrecisePD kit contains

- PrecisePD
- 2x HFCT 48 PD Sensor
- 4x CC-TEV PD Sensor
- Sync Transmitter
- Cable Set
- Hard wearing PELI™ case (suitable for hold luggage)

### Input Channels

Number of Channels	4
Sensor Types	CC for TEV & HFCT for Cable PD
Spike Protection	Yes

### PD Spot Testing

Cable PD Range	50pC – 1,000,000pC
TEV Range	0dBmV – 63dBmV
Test Type	PRPD – PD pattern, Wave shape analysis
Reporting	On screen, PDF

### Cable PD Mapping

Cable Length Range	100m – 4km
Analysis	Automatic, Manual
Reporting	On screen, PDF

### mPD Pulser

Pulse Voltage	-15 to -500V
Pulse Width	1µs
Trigger Types	Auto

### Operating Environment

Operating Temperature	-10°C to 60°C (excluding laptop)
Humidity	60 ±25% RH non-condensing
IP Rating	67 when not in use, not rated in use

### Dimensions

Size	565mm x 350mm x 230mm
Weight	13.5kg

### Power

Rated Voltage	90 to 295 VAC
Internal Battery	Lithium Ion, 96Wh
Frequency	47 to 63Hz
Operating Time Approx.	4 hours
Charging Temperature	0°C to 45°C
Charge Time	5 hours

### iPD Pulser unit

Pulse Voltage	500V
Trigger Types	PD, Level, Auto
Battery Life	12 hours
Size	230mm x 260mm x 160mm
Weight	4kg

Safety and EMC	CE-compliant in accordance with Low Voltage Directive (2014/35/EU) and EMC Directive (2014/30/EU)
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Designed and manufactured in the United Kingdom

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