

## PD Detector Pro

### A New Generation in Handheld PD Spot Testing

PD Detector™ Pro brings innovation, ground-breaking functionality and advanced design to deliver a new generation in handheld PD Spot Testing. Building on IPEC's market leading technology, the PD Detector Pro includes new features to ensure the most accurate testing of your HV assets.

The PD Detector Pro is an efficient and easy to use tool to detect PD in MV and HV assets. Compatible with a wide range of sensors, the PD Detector Pro can be used on multiple assets to easily identify and quantify Partial Discharge. The large colour touch screen makes analysis clear and simple and data storage with integrated software give a clear picture of asset health over time.

The PD Detector Pro features advanced noise rejection algorithms to effectively filter out background electrical noise, displaying both PD and Noise level for the user.

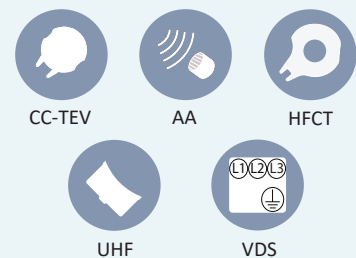


## Key Features

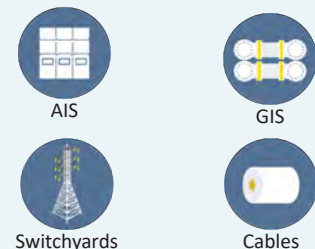
- **PD and Noise:** Shows both PD and noise level simultaneously
- **Auto Recognition of Sensors:** Automatically recognise type of sensors when plugged in
- **PD Data:** PD, PRPD, PRPS
- **Wireless Sync In-built:** Automatically locks on to exact 50/60Hz frequency from HV assets – wireless sync built in to the instrument
- **3.5" Widescreen Touchscreen:** Widescreen for larger PRPD and data views
- **Internal Storage:** Save PD data for analysis & reporting
- **Multi Language:** English, Arabic, Chinese, French, Bahasa and more
- **Centralised data management and analysis tool**
  - **PD Smart Hub™ Cloud services:**
    - Data storage and sync from PD Detector Pro device to cloud – via PC or mobile phone connection
    - Data Stored on IPEC's SmartHub cloud storage and data management system
    - View trends, PRPDs and severity of PD detected
    - Compare data from different assets
    - Centralised management of all PD Detector Pro device
  - **PC software:**
    - Data storage and sync from PD Detector Pro device
    - Data logged against assets/sites and regions
    - Management of Database and editing of references
    - Local PC app for data recall and reviewing

## Compatible Sensors & Asset Types

### Sensors



### Assets





## Technical Specification

### TEV Measurements

Sensor	Capacitive
Measurement Bandwidth	2MHz to 80MHz
Measurement Range	0 to 80 dBmV
Resolution	1dB (Accuracy ±1dB)
Noise Algorithm	Yes

### Ultrasonic Measurements

Measurement Range	-10dBµV to + 70dBµV
Resolution	1 dB (Accuracy ±1 dB)
Transducer Sensitivity	-65dB (0dB = 1volt/µbar RMS SPL)
Transducer Centre Frequency	40 kHz

### HFCT Measurements

Measurement Range	0 to 80dBmV
Measurement Bandwidth	100kHz to 70MHz
Resolution	1 dB (Accuracy ±1 dB)

### UHF Measurements

Measurement Range	-70dBµV to + 10dBµV
Measurement Bandwidth	1MHz – 1.5GHz
Resolution	1dB (Accuracy ±1dB)

### VDS Measurements

Measurement Range	2MHz to 80MHz
Measurement Bandwidth	0 to 80 dBmV
Resolution	1 dB (Accuracy ±1 dB)

### Hardware

Sample Rate	14 bits 4MS/s
Samples per power cycle	50 Hz = 80000 samples 60 Hz = 66667 samples
Enclosure	Injection moulded plastic case
Control	Membrane keypad, touchscreen
Connectors	Connectors USB-C, headphones, Multi-Sensor Connection Port
Display	Full colour, 3.5Inch, widescreen, 640p x 480p, 7:5 ratio

### Operating Environment

Operating Temperature	-20°C to 55°C
Humidity	0 - 95% RH non-condensing
IP Rating	54



### PD Detector Pro kit contains

PD Detector Pro	Function Tester
USB-C Charger	Cable Charging Adaptor
Headphones	Peli® Carry Case

### Application

Communication	USB-C
Data Storage	Device, Customer Server
Data Access	Direct from device Web based interface optional
Results	Results PD Level, Noise Level PRPD, PRPS, PD Count, Severity

### Dimensions

Unit Size	220 x 95 x 55 mm
Unit Weight	425 g
Kit Size	270 x 246 x 124 mm
Kit Weight	1.98 kg

### Power

Internal Battery	Lithium Ion, 3.7V, 7Ah, 25.9Wh
Operating Time Approx.	8 hours

### Battery Charger

Charging Temperature	0°C to 55°C
Rated Voltage	100 to 250 VAC, 5V, 1.5A
Frequency	47 to 63Hz
Charge time approx.	2 hours

### Compliance

- CE-compliant in accordance with EMC Directive (2014/30/EU)
- IEC 62478: High voltage test techniques - Measurement of partial discharges by electromagnetic and acoustic methods

**Designed and manufactured in the United Kingdom**