

# PD ALARM

## Key Features



### Display

Ultrasonic and TEV level displayed in dB



### Alarms

patented in-built wireless sync to ensure PD viewed in phase with power cycle



### External TEV

Measurement of electrical transients generated by internal PD



### Ultrasonic detection

3 independent ultrasonic channels detecting surface PD



### Remote Data Analysis

the PD Alarm's optional tablet software allows for data analysis on the move



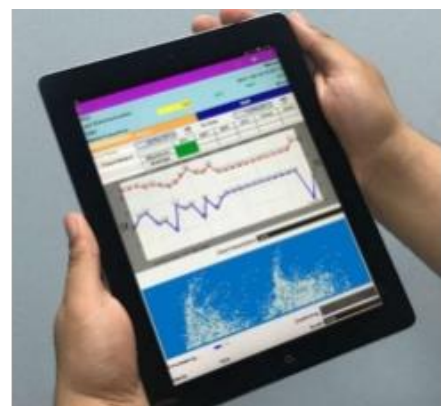
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### Integrated Noise Detection

Algorithm helps avoid 'False Alarms'








## **PD Alarm (Permanent Monitoring for Switchgear)**

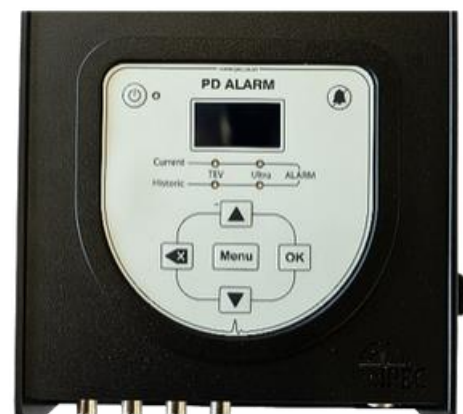
Is designed and manufactured by IPEC Ltd, is an asset mounted device for indicating the presence of partial discharge in high voltage switchgear, ring main units (RMUs) and transformers. Designed for use in small substations, the instrument can activate local and remote alarms in addition to local indication. The PD Alarm is built into a tough case that magnetically mounts to the RMU. Installation is very quick and simple with only a power connection required to get the system operational.

### **PD Monitoring**

Alarms can be configured to operate either locally with SCADA or remotely using an optional integrated modem. The system incorporates algorithms that distinguish noise from real PD, significantly reducing the likelihood of getting false alarms. The status and PD levels are displayed on a bright OLED display at the front of the unit.

### **The Benefits**

-  **Avoid power outages**  
Early warning about defects that can lead to failure
-  **Cost Effective**  
Designed for larger scale roll out across distributed assets
-  **Failure Prevention**  
Implement as part of a Condition Based Maintenance program



# Technical Specification

## PD Alarm

<b>TEV Measurements</b>	
Measurement Range	0 to 80dBmV
Measurement Bandwidth	3 to 200MHz (with FM Bandstop)
Resolution	1dB (Accuracy ±1dB)
Noise Rejection	Yes, with PRPD
<b>Ultrasonic Measurements</b>	
Measurement Range	-6dBµV to + 68dBµV
Resolution	1 dB (Accuracy ±1 dB)
Transducer Sensitivity	-65dB (0dB = 1volt/µbar RMS SPL)
Transducer Centre Frequency	40 kHz
<b>HFCT Measurements</b>	
Measurement Range	0 to 50,000pC
Measurement Bandwidth	100kHz to 70MHz
Resolution	5pC (Accuracy ±5pC)
<b>UHF Measurements</b>	
Measurement Range	0dB-75dB
Resolution	1dB (Accuracy ±1dB)
Bandwidth	200MHz – 2.0GHz
<b>Hardware</b>	
Enclosure	Injection moulded plastic case
Control	Membrane keypad
Connectors	Power, Headphones and optional sensors
Display	OLED with level LEDs, dB, PRPD, Noise
<b>Operating Environment</b>	
Operating Temperature	0°C to 60°C
Humidity	0 - 95% RH non-condensing
IP Rating	54
<b>Dimensions</b>	
Unit Size	190 x 90 x 55 mm
Unit Weight	210 g
Kit Size	295 x 340 x 145 mm
Kit Weight	2.9 kg
<b>Power</b>	
Internal Battery	Lithium Ion, 3.75V, 2.2Ah, 8.25Wh
Operating Time Approx.	8 hours
<b>Battery Charger</b>	
Charging Temperature	0°C to 45°C
Rated Voltage	100 to 250 VAC, 5V, 3A
Frequency	47 to 63Hz
Country Adapters	UK, EU, Australia, USA
Charge time	3 hours
Compliance	CE-compliant in accordance with EMC Directive (2014/30/EU)
Designed and manufactured in the United Kingdom	



### The PD Alarm system contains

- PD Alarm
- AA Ultrasonic PD Sensors
- CC-TEV Sensors
- Aerial
- Cable Set



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