



PD Hawk™

switchyard fault locator

SAFELY locates internal Partial Discharge (PD) activity in open terminal switchgear

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Delivering Innovation in **Power Engineering**

benefits

- Locates internal PD activity in all types of live open terminal switchgear components
- Filters out background emissions to eliminate false readings
- Safe
- Fast and accurate
- Easy to use

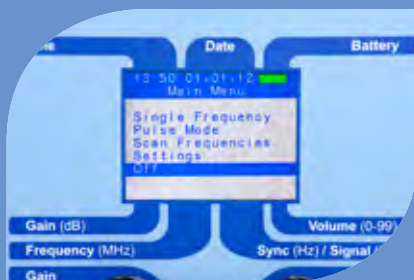
features

1. Rugged, lightweight design
2. Ergonomic handle
3. Menu-driven colour display
4. Power/Gain control
5. Menu/Tuning control
6. Speaker
7. Headphone jack
8. Internal rechargeable battery input
9. Charging indicator
10. USB port
11. Headphones
12. Case



fast and accurate

Rotating the PD Hawk™ while scanning helps locate the strongest signals from PD emissions



1. Switch on – the PD Hawk™ is instantly ready for action
2. Sweep the switchyard for radio emissions
3. Filter out irrelevant emissions e.g. mobile phone and television signals
4. Watch/listen to readings as they peak, to focus on the source of emissions
5. Use pulse mode to confirm emissions are PD
6. Note the severity and location of PD emissions
7. Rate the health of the asset and its risk of failure
8. Decide whether to investigate further and/or intervene

tuned for internal PD

The PD Hawk™ measures emissions in the 47 – 1000 MHz frequency range but is factory tuned to focus around 800MHz, which is typical of internal PD activity. This enables the operator to disregard non-PD emissions and eliminate false readings.

The operator can listen to emissions on the built-in speaker and/or over headphones and/or view them on menu-driven screens, which display them as:



Frequency



Magnitude



Pulse timing

versatile

The PD Hawk™ safely locates internal PD activity in switchyard assets including:

- Current Transformers (CT)
- Voltage Transformers (VT)
- Current Breakers
- Isolators
- Disconnectors



surface PD

The UltraTEV Plus+™ with UltraDish™ directional microphone is highly effective at locating and measuring surface PD

The PD Hawk is uniquely effective at locating INTERNAL PD activity in switchyard assets. But it can be used to even greater effect in conjunction with the UltraTEV Plus+™, which quickly locates and quantifies SURFACE PD activity. The two instruments together provide a complete picture of PD problems in switchyards.



MEASUREMENT	
Sensor	UHF Directional Antenna
Measurement Bandwidth	50 – 1,000 MHz
Resolution	1dB
Accuracy	±1dB

HARDWARE	
Enclosure	Self-coloured vacuum formed plastic case
Indicators	Color back-lit LCD Charging indicator LED
Controls	2 off Rotary Encoders with Push-Buttons
Connectors	2.1mm LV DC Charger Input 3.5mm stereo headphone socket
Headphones	Min. 8 ohms

ENVIRONMENTAL	
Operating Temperature	0 – 55 degrees C
Humidity	0 – 90% RH non-condensing
IP Rating	65

DIMENSIONS	
Size	420mm x 420mm x 120mm
Weight	2.4kg

POWER SUPPLIES	
Internal Batteries	3.7V 6.8Ah Lithium-Ion
Typical Operating Time	approx. 8 hours
Battery Conservation	Automatic 'switch off' when low battery detected

BATTERY CHARGER	
Rated Voltage	90 – 264V AC
Frequency	47 – 63Hz
Charging Voltage	18V DC
Charging Output Current	0.7 A
Battery Charging Current:	2.6 A @ 4.2V
Time for Full Charge	3 hours
Dimensions	74mm x 44mm x 34mm
Weight	0.12 kg
Operating Temperature	0 - 40 degrees C
Humidity	20 – 85% RH non-condensing

To find out more, why not see the Podcasts at: www.eapodcasts.com

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Improving Network
Performance



Facilitating Low
Carbon Energy



Delivering
New Technology



Developing
Your Team



Communicating
the Message