

UltraTEV Plus+™

Multi-functional partial
discharge investigation
tool for Power Engineers

All the features of our award-winning UltraTEV Detector™
- plus a great deal more.



Valuable Data for Power Engineers

Detecting and measuring PD (Partial Discharge) activity is the key to understanding the condition of your MV and HV assets – and achieving greater network reliability and safety.

With the UltraTEV Plus+™ you can instantly check whether:

- Assets are free of partial discharge.
- PD activity is at a level which warrants further investigation.
- PD activity is at a level which requires immediate maintenance intervention.
- Assets are in a dangerous condition.

MULTIPLE FUNCTIONS

The UltraTEV Plus+™ combines the functionality of our UltraTEV Detector™, UltraMet™ and MiniTEV2™ – all in one hand-held instrument!

This incredibly versatile instrument is purpose designed to provide Power Engineers with:

- Ultrasonic detection of surface PD activity as numerical decibel values AND as audible signals, which you can hear through the headphones provided.
- Measurement of internal PD activity in the form of TEV (Transient Earth Voltage) signals, which you can view on screen as numerical values.
- Continuous PD measurement mode, incorporating displays of maximum level, pulse count per cycle, severity level etc.
- Single shot PD measurement function also provided.
- UltraDish™ option for overhead assets.

MULTIPLE USES

Use the UltraTEV Plus+™ to:

- Investigate UltraTEV Detector™ 'red lights'.
- Rapidly survey the condition of whole substations.
- Compare changes in PD activity levels between assets and over time.
- Gather valuable data for asset condition registers.
- Check working environments for safety.

FEATURES

- Menu-driven backlit colour LCD screen and keypad, with multiple functions.
- Lightweight, ergonomically designed and tough.
- Long-life rechargeable internal Lithium-Ion (Li-Ion) battery.
- 3.5mm headphone socket and external ultrasonic sensor port.

Product Code
UTP1

BENEFITS

- No.1 instrument for assessing asset condition.
- Highly user friendly - designed specially for Power Engineers.
- Essential personal safety tool.
- Low ownership cost with excellent return on investment.



Menu-driven, multi-functional display of TEV and ultrasonic values.



Optional external microphone extends reach.



Check partial discharge activity on the surface of assets and internally.



Listen for PD activity in overhead assets with the UltraDish™ add-on.

Measurement Specifications

TEV

Measurement Range:	0 – 60dBmV
Resolution:	1dB
Accuracy:	±1dB
Max Number of Pulses/Cycle:	655

Ultrasonic

Measurement Range:	-7dBµV to 68dBµV
Resolution:	1dB
Accuracy:	±1dB
Transducer Sensitivity:	-65dB (0dB = 1 volt/µbar rms SPL)
Transducer Centre Frequency:	40 kHz
Transducer Diameter:	16mm

Hardware Specification

Enclosure:	Self-coloured injection moulded plastic case.
Indicators:	Colour back lit LCD Charging indicator LED
Controls:	Membrane keypad
Connectors:	2.1mm LV DC Charger Input 3.5mm stereo headphone socket External Ultrasonic Sensor Input
Headphones:	Min. 8 ohms

Environmental

Operating Temperature:	0 – 55 degrees C
Humidity:	0 – 90% RH non-condensing
IP Rating:	54

Dimensions

Size:	205mm x 72mm x 35mm
Weight:	0.3kg

Power Supplies

Internal Batteries:	3.7V 3.6Ah Lithium-ion
Typical Operating Time:	approx. 5 hours
Battery Conservation:	Automatic 'switch-off' when low battery voltage detected or 10 minutes elapsed.

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