



UltraTEV Plus+™

Multi-functional Partial Discharge (PD) instrument

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

benefits

- Measures accurate data on PD activity.
- Works with many different types of assets.
- Highly user friendly with little training required.
- Low ownership cost - one instrument replaces several.
- Excellent value and return on investment.

features

- The core functionality of the UltraTEV Plus+™, is a combination of our UltraTEV Detector™ and UltraMet Plus+™ – all in one hand-held instrument
- Detects and measures PD activity as numerical values for both ultrasonic and TEV emissions.
- Menu-driven backlit color screen and keypad.
- Locate and listen to ultrasonic PD activity with headphones included.
- Switchable modes: one-shot PD detection or continuous measurement.
- Lightweight, ergonomically designed and tough.
- Long-life rechargeable internal Lithium-Ion (Li-Ion) battery.
- Standard headphone socket and external ultrasonic sensor port.

No-Outage Electrical Testing
A member of the EA Technology Group



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valuable data for power engineers

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

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

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

multiple functions

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

This amazingly versatile instrument is designed to provide power engineers with:

- Ultrasonic detection of surface PD activity as numerical values AND as audible signals, which you can hear through the headphones provided.
- Measurement of internal PD activity in the form of Transient Earth Voltage (TEV) 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™ waveform concentrator with laser pointer option for overhead line equipment.

multiple uses

Use the UltraTEV Plus+™ to:

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

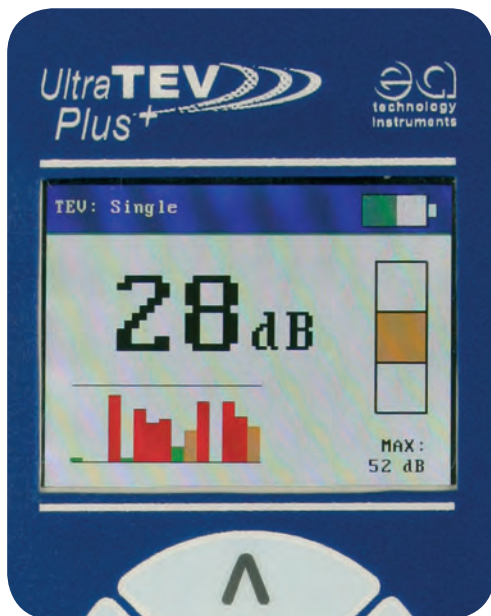
UltraTEV Plus+™ service pack

When you purchase an UltraTEV Plus+™, we can provide you with an additional condition assessment Service Pack.

- Baseline PD survey of up to 30 assets.
- On-site training in use of UltraTEV Plus+™ by our expert technicians.
- 12 month technical support.
- FREE instrument calibration after 12 months.



The UltraDish™ has a precision laser sight built in.



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



Optional external microphone extends reach.

specification **UltraTEV Plus+™** add-ons



TEV	
Measurement Range	0 – 60 dBmV
Resolution	1dB
Accuracy	±1dB
Max Number of Pulses/Cycle	655
ULTRASONIC	
Measurement Range	-7 dBµV to 68dBµV
Resolution	1dB
Accuracy	±1dB
Transducer Sensitivity	-65 dB (0dB = 1volt/µbar rms SPL)
Transducer Centre Frequency	40 kHz
Transducer Diameter	16mm
Heterodyning Frequency	38.4 kHz
HARDWARE	
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
Headphones	Min. 8 ohms
Battery Charger	90 - 264V 47 - 53Hz, 6V 0.5A
ENVIRONMENTAL	
Operating Temperature	0 – 55 degrees C
Humidity	0 – 90% RH non-condensing
IP Rating	54
DIMENSIONS	
Size	205 x 72 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
BATTERY CHARGER	
Rated Voltage	90 – 264V AC
Frequency	47 - 63Hz
Operating Temperature	0 - 40 degrees C
Humidity	20 – 85% RH non-condensing

- Kit 1**
Function checker, clip-on earphones, battery charger and carrying case with high density foam insert
- Kit 2**
Deluxe neckband headset, ultrasonic contact probe, flexible microphone sensor, function checker, battery charger and ruggedized storage case with high density foam insert
- Kit 3**
Deluxe neckband headset, ultrasonic contact probe, flexible microphone sensor, ultradish waveform concentrator with laser pointer, function checker, battery charger and ruggedized carrying case with high density foam insert

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