



UltraTEV® Plus²

**INCLUDES TRAINING
AND PD TESTING REGIME
IMPLEMENTATION ADVICE**

Make Partial Discharge discovery simple

This latest hand-held Partial Discharge (PD) instrument is easy to use, and combines additional sensing capabilities with real time advanced analytical features. The ability to distinguish true PD from noise and other interference means that you can make better decisions, save time, money and enhance safety.

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Range of kits and uses

The UltraTEV® Plus² is a multifunctional instrument that can be used to rapidly survey the condition of whole substations and check that working environments are safe. Changes in PD activity levels can be compared between assets and analysed over time, providing a clear indication if further investigation is required. To meet your needs we offer the following instrument kits:

Kit 1	Metal clad Switchgear	Standard kit for Switchgear condition assessment includes headphones & battery chargers
Kit 2	Metal clad Switchgear and Cables	This kit has additional external sensors and includes an RFCT, allowing quick and easy condition assessment of your cables*
Kit 3	Metal clad Switchgear, Cables and Outdoor assets	With the UltraDish™ option included in Kit 3, PD activity can be measured in overhead assets, offering a comprehensive condition assessment package*
Kit 4	Locator probe kit 4 can be added to any of the above kit types	Specifically designed carry case containing Locator probe, 2m lead and 6m lead and allowing accurate location of PD within Switchgear

* Access to cable earth required.

Multiple Functions



UltraTEV® Plus² – Locator probe

The UltraTEV® Plus² Locator probe accessory has been designed to attach to the UltraTEV® Plus², ensuring that all your PD needs can be catered for in one instrument.

The Locator probe is used in conjunction with the UltraTEV® Plus² TEV sensor to locate the source of PD activity, using time-of-flight measurements. Advanced software enables the instrument to easily locate PD at multiple discharge sites.



UltraTEV® Plus² – Cable PD

An RFCT can be placed around an earth termination for testing cables for PD.

Other Accessories



Flexible Sensor

The Flexi Sensor accessory is used to detect ultrasonic PD activity in hard to reach places where access is limited.



Environmental Sensor

The Environmental Sensor is used to measure local temperature and humidity.



UltraDish

The UltraDish accessory is used to detect ultrasonic PD activity in overhead assets or at a distance.



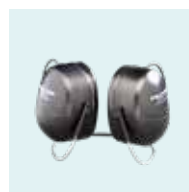
NFC Tags

NFC (Near Field communication) tags can be used to hold key asset information and results locally on the assets.



Ultrasonic Contact Probe

The Contact Probe is used to detect ultrasonic PD in sealed chambers.



Headphones

The low-profile Headphones are comfortable to wear and are compatible with other PPE.

The UltraTEV® Plus² Survey Process

1. Enter Substation Data

Details of substations and assets can be uploaded from NFC tags or manually entered on screen.



4. Easy to transport

The UltraTEV® Plus² Kit 3 stored in the specifically designed carry case.



The UltraTEV® Plus² Locator probe stored in the specifically designed carry case.



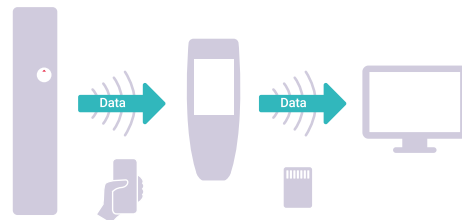
2. Survey and Capture Data

The instrument guides users through the simple PD survey process, quickly capturing high quality diagnostic data. The new advanced analytics allow measurements to be examined more precisely in real-time or after the PD survey has been completed. Asset data results, ultrasonic and TEV activity, as well as screen shots can all be recorded for later review and analysis.



3. Transfer Asset Information

The UltraTEV® Plus² has the ability to transfer data directly to your PC or corporate system via Wifi or USB / SD Card.



Business Benefits

- Detect problems early by using the in-built PD classification and interpretation tools to avoid dangerous and damaging failures and minimise network outages
- Accurately measure and locate PD activity, enabling you to identify potential faults before they lead to failures
- Optimise maintenance cycles and asset life through a better understanding of asset condition, comparing PD results over time to identify trends
- Increase on-site productivity by using Survey mode to rapidly collect key condition information in an accurate and consistent manner
- Detect PD in a wide range of plant, cable and overhead line assets using a single instrument with dedicated accessories
- Easy to use with an intuitive and user friendly interface meaning little training is needed to become competent
- Identify deteriorating assets and trends by comparing current measurements to previous results stored locally on 'smart' Near Field Communication (NFC) tags
- Integrate PD surveys into your asset management process by seamlessly transferring data via zip or CSV file into your corporate system

User Features

- Provides numerical and audible ultrasonic readings for classification of PD
- Provides numerical and audible TEV readings for interpretation of PD
- Use the Locator probe accessory to accurately locate multiple PD sources
- Use the Radio Frequency Current Transformer (RFCT) to detect PD activity in cables
- Phase resolved and waveform displays allow more reliable and conclusive decisions to be made based on measured PD
- Wi-Fi connectivity allows survey results to be easily synchronised with asset management systems
- Use NFC tags attached to the assets to store and retrieve key results
- Menu-driven backlit colour touch-screen and buttons (can be used when wearing gloves) giving an intuitive user experience
- Multi language options
- Long-life rechargeable internal Lithium-Ion (Li-Ion) battery
- Temperature and Humidity sensor

For more information please call us on +44 (0)151 347 2376 or email us at sales@eatechnology.com



Safer, Stronger, Smarter Networks

EA Technology Limited
Capenhurst Technology Park
Capenhurst, Chester CH1 6ES

t +44 (0) 151 339 4181
e sales@eatechnology.com
www.eatechnology.com