

New UltraTEV Plus+™ raises standard in partial discharge investigation



EA Technology has launched a new multifunctional partial discharge investigation tool, to build on the success of its UltraTEV Detector™ - winner of the Queen's Award for Innovation 2007.

Called the UltraTEV Plus+™, it combines all the functionality of the Detector, with many new features for investigating and understanding Partial Discharge (PD) activity in MV and HV switchgear in greater detail.

Like the Detector, it measures PD activity in the form of ultrasonic and transient earth voltage (TEV) signals, but provides operators with considerably more comprehensive information about emission levels.

Ultrasonic emissions are displayed as decibel readings as well as being converted into audible signals, which can be heard through the headphones supplied. TEV signals appear on the menu-driven colour LCD screen as numerical values, a bar graph, and as a green-amber-red indication.

An optional plug-in microphone is available to investigate PD activity in hard-to-reach areas. In addition, an optional UltraDish™ parabolic waveform concentrator can be added to listen to activity in overhead assets and at a distance.

The UltraTEV Plus+™ is most likely to be used by power engineers to investigate and assess the source of PD activity detected by the UltraTEV Detector™. Its ability to display the number of PD pulses per cycle, severity and maximum levels for internal discharges, in addition to displaying ultrasonic emissions numerically for surface discharges, provides information which is vital for deciding on a course of action.

Instruments Director Neil Davies said: "The UltraTEV Plus+™ represents a step change in the ability of engineers to investigate PD activity and gather data about asset condition in the field. It is effectively several powerful instruments in a single hand-held package.

"We will continue to sell the UltraTEV Detector™ because it is without rival as an easy to use instrument that gives immediate warning when PD activity reaches critical levels. But the UltraTEV Plus+™ provides new levels of functionality and versatility for engineers who require more information in a wider range of applications.

More ...

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“We are confident that the UltraTEV Plus+™ will be an even greater long term international success than the UltraTEV Detector™.”

Since its launch in 2003, the UltraTEV Detector™ has been adopted by every electricity network operator in the British Isles and won major export sales from the USA to China. Users include power asset owners in the petrochemicals, defence, health, processing and manufacturing sectors.

More details on www.eatechnology.com.

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High resolution JPEGs are available from [John Hutchinson](#).

	<p>Menu-driven colour LCD shows PD activity as numerical decibel readings for both ultrasonic and TEV values.</p>
	<p>Optional microphone and included headphones enable engineers to listen to PD emissions as audible signals.</p>
	<p>Optional UltraDish™ parabolic waveform concentrator picks up PD activity in overhead assets and at a distance.</p>

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