THE QUEEN'S AWARDS FOR ENTERPRISE: INNOVATION 2007

AWARD WINNING PD INSTRUMENT

POWERPOINT ENGINEERING
www.Powerpoint-Engineering.com

UltraTEV Detector™

Dual sensor Partial Discharge (PD) detection tool

The world's best instrument for 'first pass' asset condition testing

benefits

- Identify faults BEFORE they lead to failures
- Test for critical PD activity instantly
- Detect surface AND internal PD activity
- Essential personal safety device
- Minimal training requirement
- Low cost, high productivity

Fact: 85% of disruptive failures in HV/MV assets are PD-related.

Fact: The UltraTEV Detector™ is the most effective 'first pass' PD survey instrument available.

features

DUAL SENSOR TECHNOLOGY

- Ultrasonic sensor detects PD activity beyond audible range
- TEV sensor detects PD activity as transient earth voltage effects
- Both sensors are calibrated to indicate instantly when PD activity is at a potentially critical level

CLEAR DISPLAY

- Green LED indicates the asset is working normally
- Amber LED indicates PD activity that requires more frequent monitoring
- Red LED indicates PD activity that requires immediate investigation - and potential danger to personnel

EASY TO USE

- One button operation with instant start-up
- Light, portable and ergonomically designed
- Kit complete with carrying case, protective sleeve and mains battery charger

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eq technology instruments

Innovators in **Power Engineering**

specification **UltraTEV Detector™**

SIGNAL INPUTS	
Signal	Partial discharge voltage pulses
Thresholds	Ultrasonic 1; TEV 2
Threshold Levels	20 dBmV and 29 dBmV
Accuracy	±1dBmV
Pulse Polarity	Positive or negative
Ultrasonic Threshold Level	25.4 dB rms SPL min
INDICATORS	
Ultrasonic Status LEDs	Bi-colour red/green
Status LEDs	Bi-colour red/green
Power LED	Bi-colour red/green
Rear Ultrasonic Status LED	Red
Charging LED	Red
ENVIRONMENTAL	
Operating Temperature	0 – 55 degrees C
Humidity	0 – 90% RH non-condensing
IP Rating	54
DIMENSIONS	
Size	180 x 52 x 52mm
Weight	0.28 Kg
POWER SUPPLIES	
Internal Batteries	4 x 1800 mAh, NiMH, rechargeable cells
Typical Operating Time	8 hours continuous
Battery Conservation	Automatic 'switch off' when low battery voltage detected or 5 minutes elapsed

UK, EUROPEAN & NORTH AMERICA BATTERY CHARGER		
	UK & EUROPEAN	NORTH AMERICAN
Rated Voltage	230V	120V
Frequency	50 - 60Hz	60Hz
Output Voltage	9V DC	9V DC
Time for Full Charge	7 hours	14 hours
Dimensions	80 x 60 x 50 mm	80 x 60 x 50 mm
Weight	0.34 kg	0.34 kg
Operating Temp	0 - 30 °C	0 - 30 °C
Humidity	20 – 90% RH non-condensing	0 – 90% RH non-condensing
IP Rating	54	54

service packs

UltraTEV Service Pack 1

Add-on for UltraTEV Detector™ owners includes:

- **Benchmark PD Survey of up to 30 assets.**
- **On-site training in use of UltraTEV Detector™ or UltraTEV Plus+™.**
- **12 month technical support.**
- **FREE instrument calibration after 12 months.**

PRODUCT CODE: UT2

accessories and options

UltraTEV Calibration Checker™
Tests the UltraTEV Detector™ on site for accurate calibration

PD Test Simulator™
Essential training tool, realistically simulates ultrasonic and TEV PD emissions

In-Car Charger
12V charger increases versatility in the field

Calibration Service
We recommend regular calibration of the UltraTEV Detector™ in our factory

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