



# CableData Collector™

online cable testing system

Identifies and reports Partial Discharge (PD) activity in  
LIVE CABLES of distribution voltage

[www.eatechnology.com](http://www.eatechnology.com)

## benefits

- Identifies cable defects before they fail
- Does not require a cable outage
- Quick, safe and non-destructive
- Expert cable condition analysis & reports

## features

- Detects and measures PD activity in single and three phase cables
- Works with most insulated cable types up to distances of several miles
- Small, robust, portable and easy to use

**fact:** Partial Discharge (PD) activity is the primary cause of failure in cables

**fact:** Offline PD testing requires cable outages and can be disruptive

**fact:** The CableData™ Collector works online and can detect and measure PD activity

## system components

The CableData Collector™ is supplied as a ready-to-use system, in its own carry case.

The CableData Collector™ is machined from aluminum then anodized, making it lightweight and tough. It is conveniently powered via its USB port from a laptop or PC.



Channel 1 – user configurable for phase

Channel 2 – user configurable for phase

Channel 3 – user configurable for phase

Power frequency phase reference



3 off Radio Frequency Current Transformers (RFCTs)



Rugged carry case

# CableData Collector™ hardware



**1. plug in**

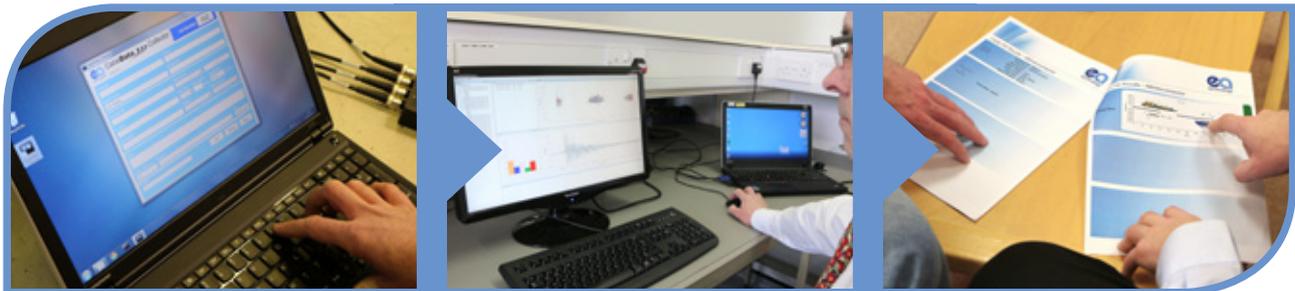
**2. clip on**

**3. test for PD**

The CableData Collector™ detects and quantifies PD activity in live distribution cables by measuring radio frequency currents, which are produced when discharges occur.

Simply clip the Radio Frequency Current Transformers (RFCTs) around the Cable Earth (Ground) Straps and plug them into the CableData Collector™. Measurements of any PD activity are recorded on a PC or laptop, via a USB cable.

# CableData Collector™ analysis software



**1. data capture**

**2. analysis**

**3. report**

Recorded data on PD activity is interpreted with CableData Collector™ analysis software.

The results are output as reports showing:

- The severity of PD activity
- Evidence on which to assess the risks of failure
- Intelligence for decisions on remedial action or replacement

| User Options    | CableData Collector™ hardware | CableData Collector™ analysis software                   |
|-----------------|-------------------------------|--|
| Purchase Pack 1 | Buy*                          | Buy*   |
| Purchase Pack 2 | Buy*                          | Expert analysis & reports by EA Technology – pay per use |
| Hire            | Pay per hire period*          | Expert analysis & reports by EA Technology – pay per use |
| Site Service    | Pay per cables tested         | Expert analysis & reports by EA Technology – pay per use |

\* Includes training and support

# technical specification

## HARDWARE

|            |  |
|------------|--|
| Enclosure  | Anodized Aluminum  |
| Indicators | Phase Reference Status LED,<br>Waveform Capture LED,<br>Events LED |
| Connectors | 1 x Mini USB, 1 x Ethernet<br>(inactive), 4 x BNC                  |

## ENVIRONMENTAL

|                       |                              |
|-----------------------|------------------------------|
| Operating Temperature | 32°F to 140°F (0°C to 60°C)  |
| Humidity              | 0 - 90%<br>RH Non-Condensing |
| IP Rating             | 31                           |

## DIMENSIONS

|        |   |
|--------|---|
| Size   | 1.1in x 4.7in x 6.9in<br>(28mm x 120mm x 176mm) |
| Weight | 1.25lb (570g)                                   |

## POWER SUPPLY

|              |                            |
|--------------|----------------------------|
| Power Source | Power Supplied by USB port |
|--------------|----------------------------|

## CABLE PD MEASUREMENTS

|                                 |   |
|---------------------------------|---|
| Measurement Type                | Single Phase or Three Phase   |
| Sensor                          | 3 x RFCT  |
| Capture Window                  | 153µs, 76µs and 38µs  |
| Cable Length                    | Cable Construction<br>Dependent   |
| Resolution                      | Range Dependent<br>(14pC, 28pC, 56pC, 112pC)                                    |
| Measurement Range               | Range Dependent<br>(14pC to 200,000pC)  |
| Gain Range                      | 4 (Auto Ranging)  |
| Power Frequency Phase Reference | Automatically picked up from<br>RFCT or supplied phase<br>reference transformer |



See our latest podcasts at: [www.eapodcasts.com](http://www.eapodcasts.com)

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

tel +44 (0) 151 339 4181  
fax +44 (0) 151 347 2404  
email [sales@eatechnology.com](mailto:sales@eatechnology.com)  
web [www.eatechnology.com](http://www.eatechnology.com)



Improving Network  
Performance



Facilitating Low  
Carbon Energy



Delivering  
New Technology



Developing  
Your Team



Communicating  
the Message

