



CableData™ Collector

online MV cable testing system

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

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 all insulated cable types over distances up to several kilometres
- Small, robust, portable and easy to use

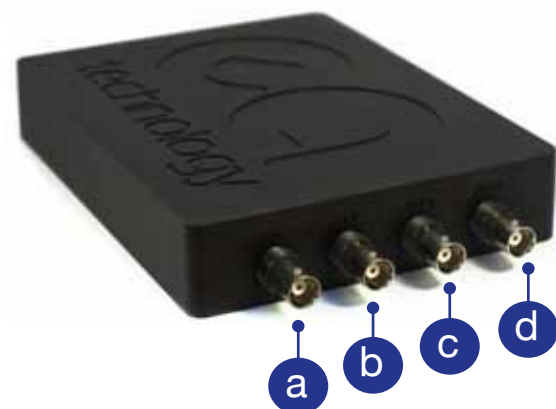
fact: Taking cables offline to test for PD is disruptive

fact: The PD CableData™ system WORKS ONLINE to detect, locate and measure PD activity

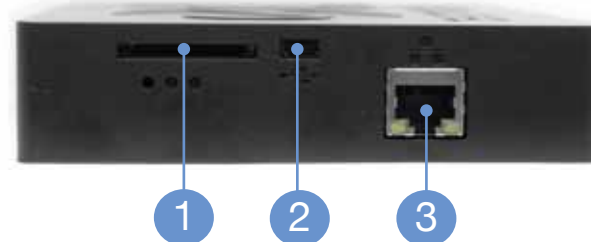
system components

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

The central unit is machined and anodised aluminium for light weight and toughness, and is powered via its USB port from a laptop or PC.



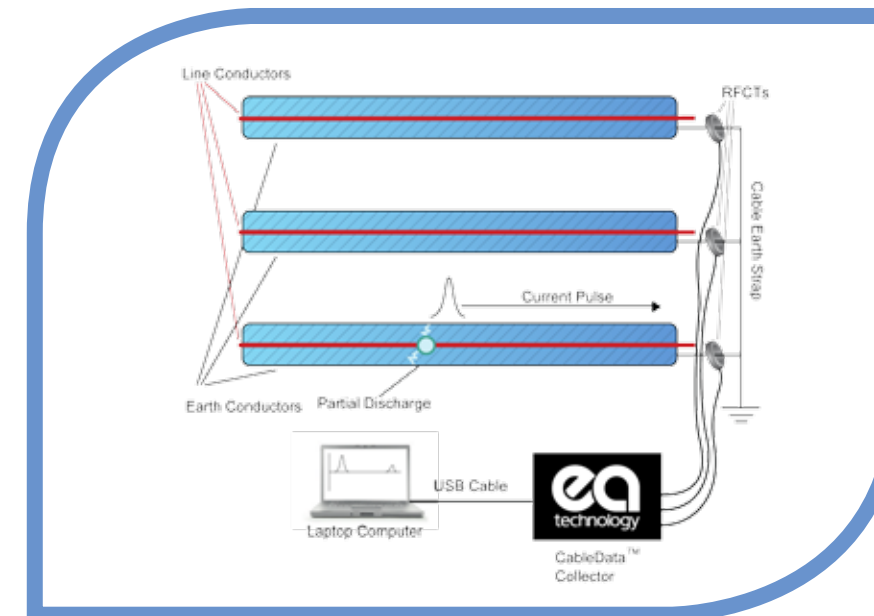
- | | | | |
|---|--|---|--|
| a | Channel 1 – user configurable for phase | 1 | SD card slot - future data storage capability |
| b | Channel 2 – user configurable for phase | 2 | USB 2.0 port – provides power from PC/laptop and data communications |
| c | Channel 3 – user configurable for phase | 3 | Ethernet port - future LAN communications capability |
| d | Power frequency phase reference – configure to eliminate noise | | |



3 off Radio Frequency Current Transformers (RFCTs)



Rugged carry case



how it works

The CableData™ Collector detects and locates PD activity in live distribution cables by measuring radio emissions which are produced when discharges occur.

Simply clip the unit's Radio Frequency Current Transformers (RFCTs) around cable earth straps and plug them into the Collector. Data about PD activity is output to a PC or laptop, via a USB cable.

PD activity data capture

1. Populate main screen with details about the cable being tested
2. Configure channels to phases, including power frequency phase reference, to eliminate noise
3. View progress of data capture
4. PD data capture complete – save as a file
5. Send the PD data file online to EA Technology for analysis and report



CableData™ analysis

6. The PD data file is analysed by our experts
7. We send you a report detailing:
 - The severity of PD activity
 - Assessment of the risk of failure
 - Recommendations for remedial action or replacement

technical specification

HARDWARE

Enclosure	Anodised Aluminium
Indicators	Phase Reference Status LED, Waveform Capture LED, Events LED
Connectors	1 x Micro USB, 1 x Ethernet (inactive), 4 x BNC

ENVIRONMENTAL

Operating Temperature	0 °C to 60 °C
Humidity	0 - 90% RH Non-Condensing
IP Rating	31

DIMENSIONS

Size	28mm x 120mm x 176mm
Weight	600g

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 Dependent
Resolution	Range Dependent (14pC, 28pC, 56pC, 112pC)
Measurement Range	Range Dependent (25,000pC, 50,000pC, 100,00pC, 200,000pC)
Gain Range	4 (Auto Ranging)
Measurement	Automatically picked up from RFCT or optional LV Transformer



See our latest podcasts at: 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
web www.eatechnology.com



Improving Network
Performance



Facilitating Low
Carbon Energy



Delivering
New Technology



Developing
Your Team



Communicating
the Message



INVESTORS
IN PEOPLE | Gold

