CableData Collector™

Online Cable Testing System

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

PRODUCT CODE: CDC2

www.vpowerjsc.com
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 anodised, 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

The CableData Collector™ kit includes:

1 x Protective Case and Foam Insert
1 x CDC
1 x Data And Power USB Cable
4 x 5M BNC Cables
3 x RFCT
1 x Phase Reference Transformer
1 x Phase Reference Transformer Mains Cable
1 x Software USB Stick
1 x User Manual

Radio Frequency Current Transformer (RFCT)

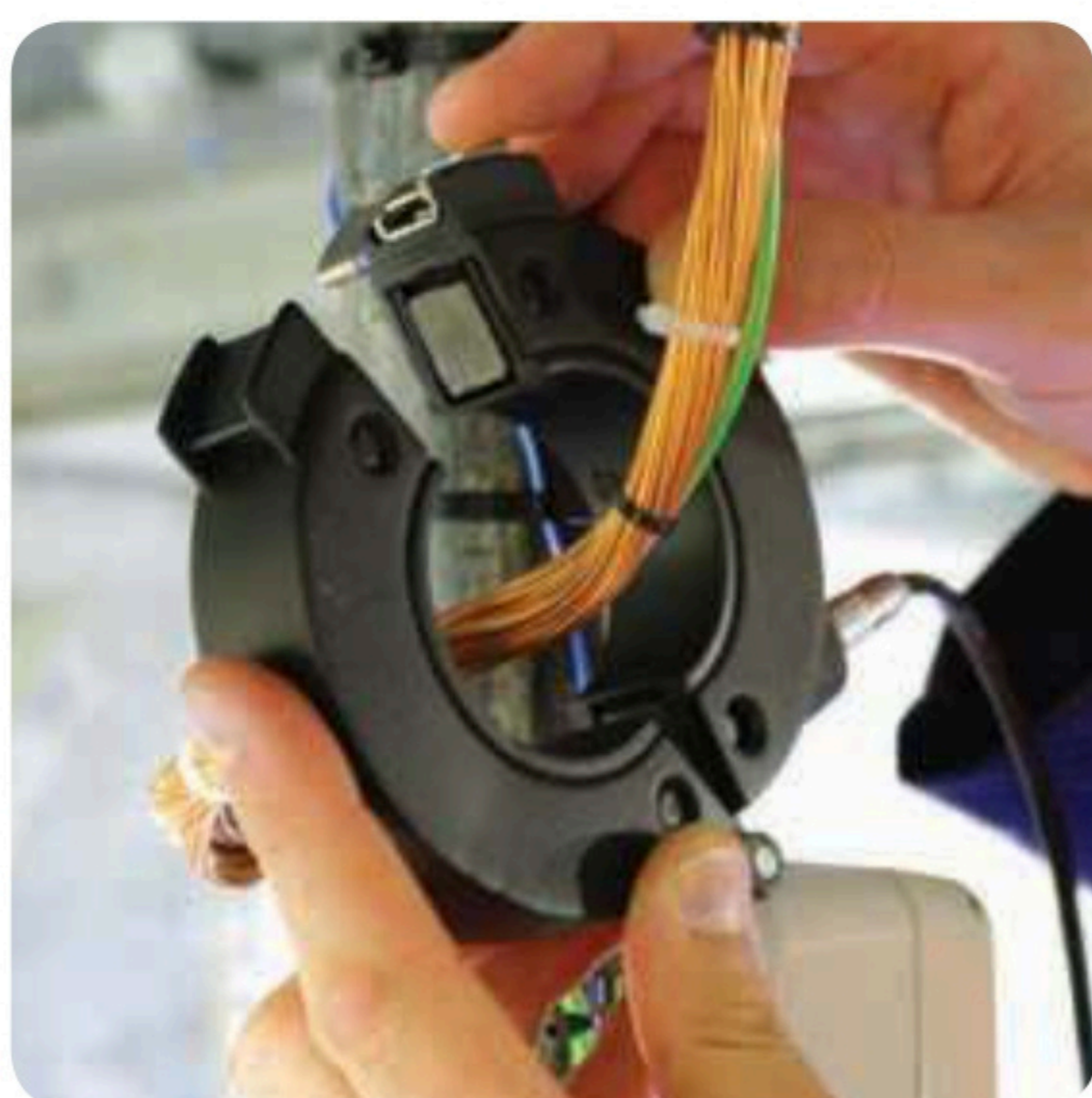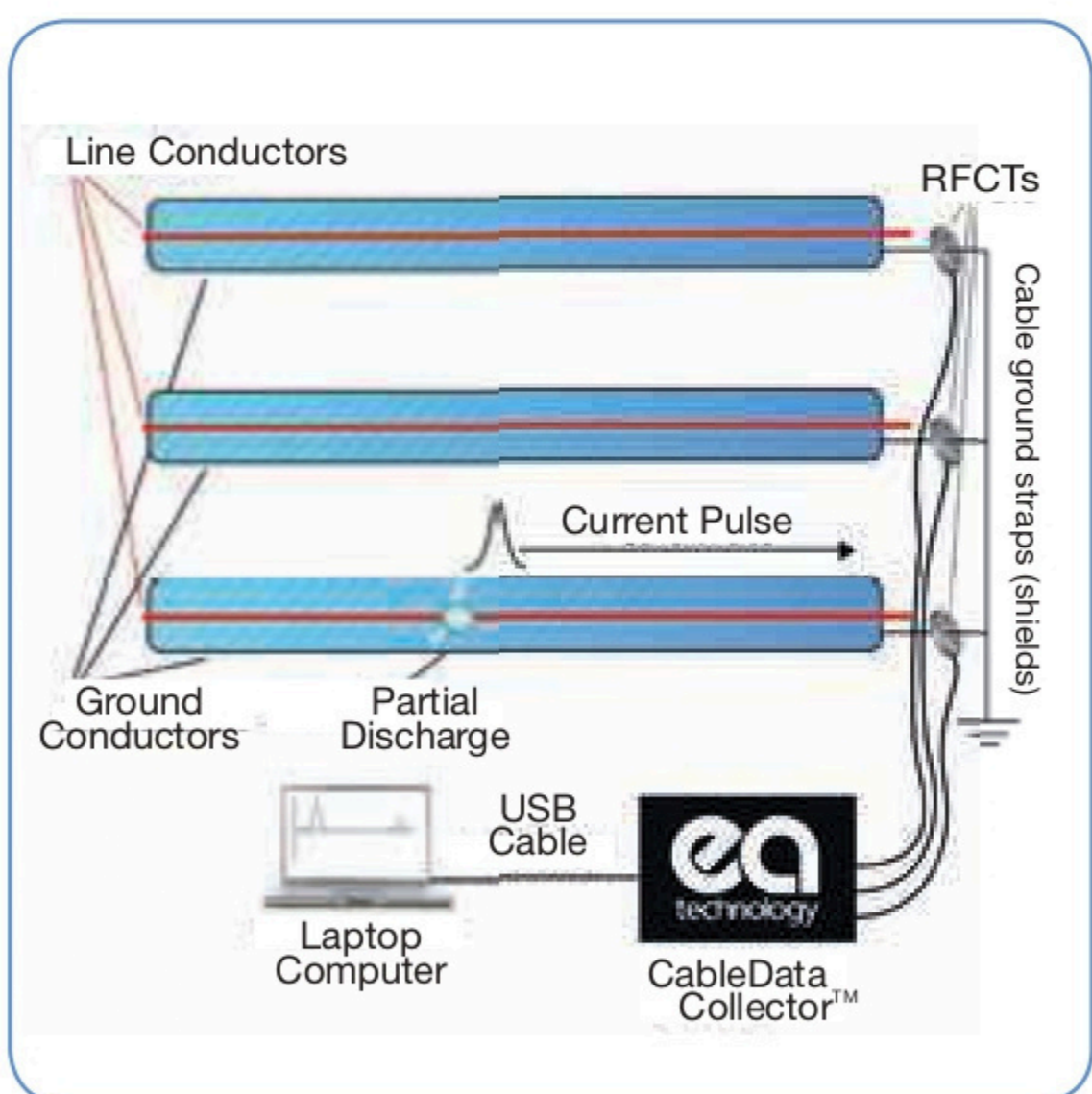Rugged carry case

CableData Collector™ Hardware
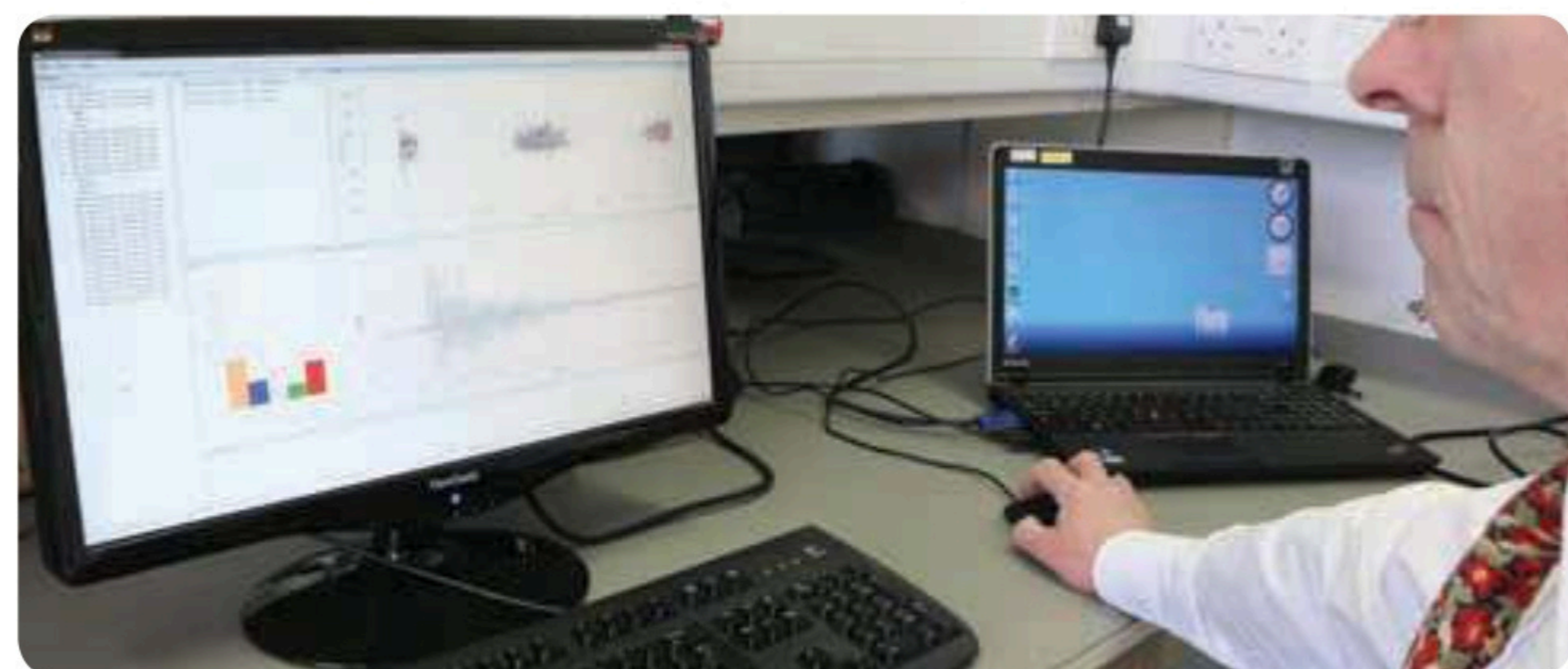

1. Plug In

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™ Analysis Studio Software

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

Purchase Options

USER OPTIONS	CABLEDATA COLLECTOR™ HARDWARE	CABLEDATA COLLECTOR™ ANALYSIS SOFTWARE
Purchase Pack 1	Buy*	Buy*
Purchase Pack 2	Buy*	Expert analysis and reports by EA Technology – pay per use
Hire	Pay per hire period*	Expert analysis and reports by EA Technology – pay per use
Site Service	Pay per cables tested	Expert analysis and reports by EA Technology– pay per use

Includes training and support

Technical Specification

HARDWARE

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

ENVIRONMENTAL

Operating Temperature	0°C to 60°C (32°F to 140°F)
Humidity	0 – 90% RH non-condensing
IP Rating	31

DIMENSIONS

Dimensions	28 x 120 x 176mm (1.1in x 4.7in x 6.9in)
Weight	570g (1.25lb)

POWER SUPPLIES

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 (14pC to 200,000pC)
Gain Range	4 (Auto Ranging)
Power Frequency Phase Reference	Automatically picked up from RFCT or supplied phase reference transformer

Distributors
Global Offices

See our latest podcasts at: **www.eapodcasts.com**

CDC/EUR/090215/BDB13154

VPOWER
Reliability

VPOWER RELIABILITY Office:
No. 8 Nguyen Cuu Van street,
Gia Dinh Ward, Ho Chi Minh city, Vietnam
Phone: +84 28 3899 1096
Email : sales@vpower.com
Web : vpowerjsc.com