

PDiagnosticC

Power Cable Portable Partial Discharge Diagnostic System



The PDiagnosticC for power cable utilizes HFCT and External UHF sensors to detect, analyze, and diagnose the PD signals in power cables.

It detects the signals with multiple sensors through 4 channels simultaneously. The HFCT sensors can be either installed on the ground strap of the outer shield of the power cable or the cable body, and their bandwidth can be adjusted according to detection need. The insulation PD condition of the power cables and their accessories are evaluated and diagnostic results and maintenance suggestions are delivered.

Applications

- Power Cables

Detection Bandwidth

- HFCT: 500kHz ~ 50MHz
- UHF: 300MHz ~ 1500MHz

Features

- Compares and analyzes the detected data of multiple power cables or multiple phases
- Detects the PD activity through 4 channels simultaneously
- Excludes the disturbance signals by comparing the data detected through HFCT and UHF sensors
- Detection results shown in PRPD, PRPS charts
- Advanced Analysis, Quick Detection, and Wave Analysis detection modes
- Time domain and frequency domain technologies employed
- Embedded rechargeable Li-ion battery / power supply
- Cost-effective with excellent performance



Technical Specifications

- Test Channels: 4 channels;
3 HFCT sensor channels and 1 External UHF sensor channel
- Data Communication: Ethernet
- Output: PRPD & PRPS spectrums;
pulse waveforms
- Dimension: 21.7" x 13" x 9.1" /
55cm x 33cm x 23cm
- Weight: 27lbs / 12kg
- Power: Li-ion battery or AC 85~264V,
50/60Hz
- Operating temperature: 5 F ~ 130 F/
-15 °C ~ 55 °C

Configuration

3 HFCT Sensors

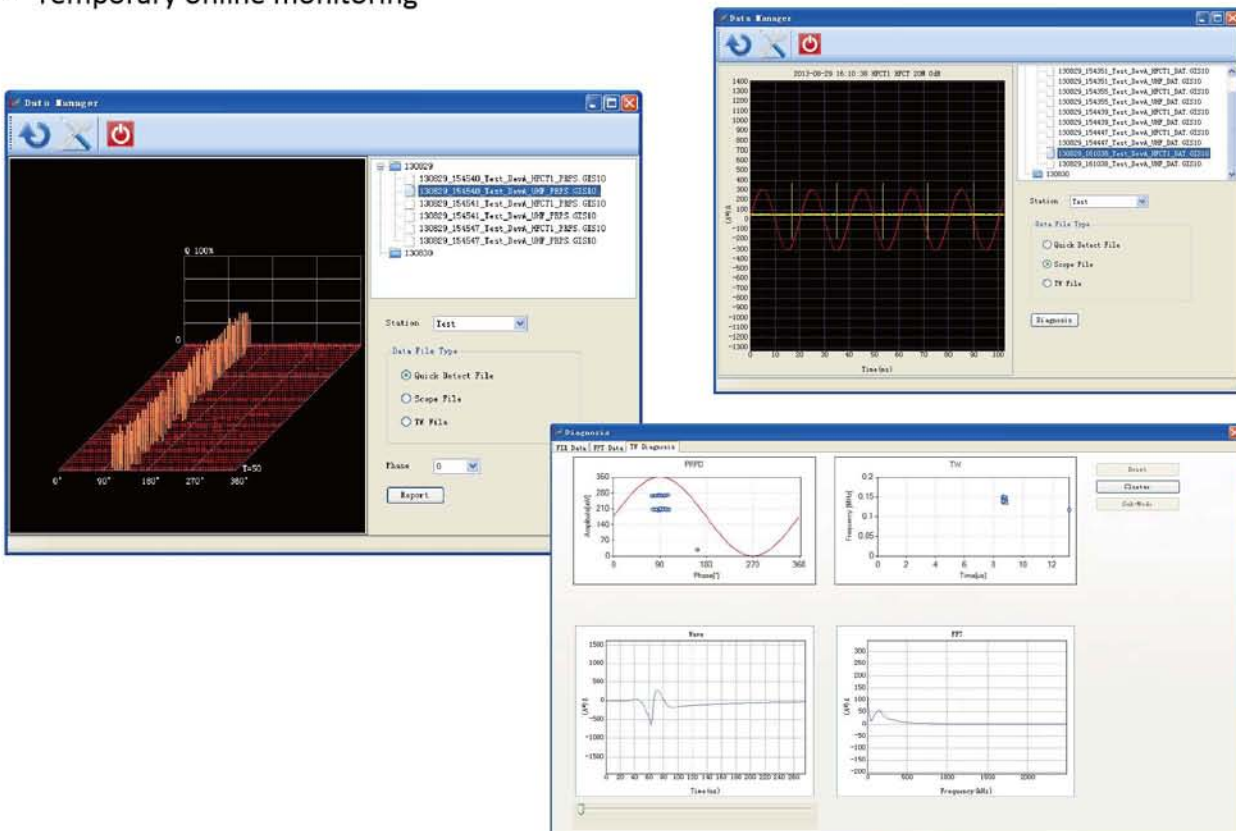


1 External UHF Sensor

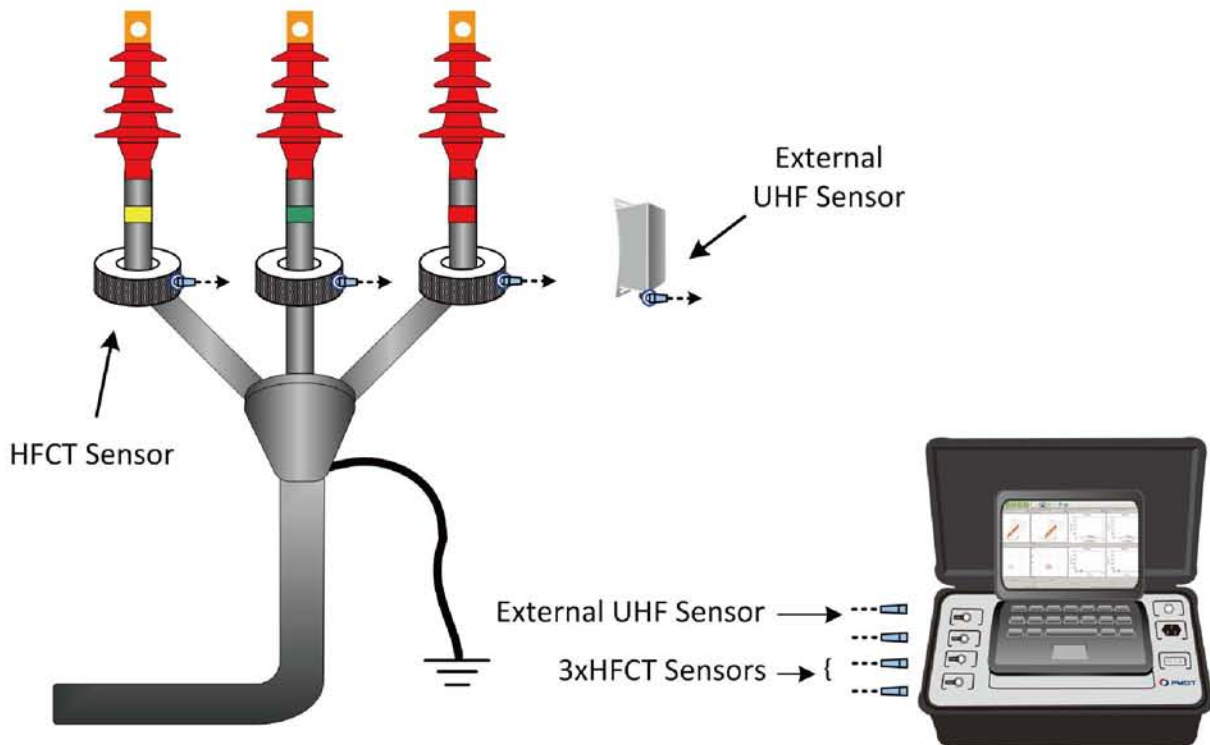
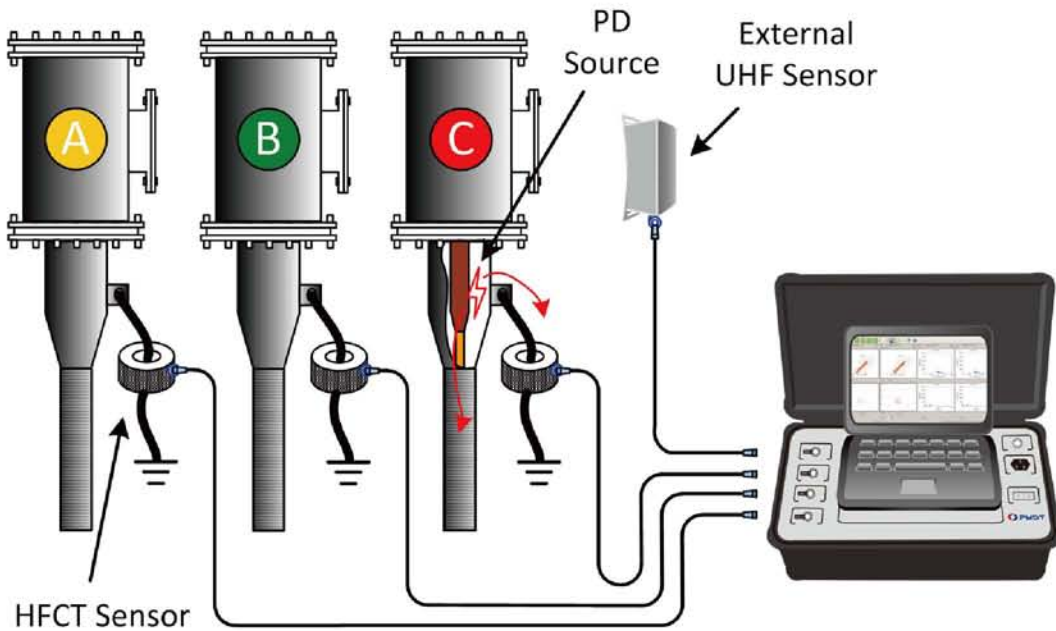


PDiagnosticC Software

- Database system to save all data detected
- Data acquisition control and data analysis function
- Built-in typical PD and disturbance characteristic database
- Displays the data detected from each channel in real time
- Analyzes and processes the history data in the database through statistics and intelligent diagnostic technology and delivers the partial discharge trends
- Expert Diagnostic Function to generate detailed reports automatically
- Temporary online monitoring



How to Use PDiagnosticC



POWER MONITORING AND DIAGNOSTIC TECHNOLOGY LTD.

6840 Via Del Oro, Suite 150, San Jose, CA 95119, USA

P: +1 (408) 972-5588

E: sales@powermdt.com

F: +1 (408) 972-5678

W: www.powermdt.com