PDiagnostiC

Power Cable Portable Partial Discharge Diagnostic System

The PDiagnostiC 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

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

P DiagnosticC 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 PDiagnosticsC