

## Advanced Technology for Predictive Non-destructive On-Site PD Testing of Medium Voltage Power Cables and Accessories

### CDA Technology

Using Damped Alternating Voltage for 50 / 60 Hz Equivalent Service Voltage Stress

VLF Charging of the Cable Capacitance (0.1 Hz) Fast Oscillating Discharging (40-80 Hz)

Complex PD Analysis and Fault Location during Oscillating Discharging (PD Mapping)



CDA-30 – Modular Test System

### CDA Test Procedure

Computer-Based Control & Measurement

Semi- and Fully-Automated Test Procedure

Complex PD Analysis

Real-Time PD Fault Location

Post-processing of PD Data Creating the PD Fault Position Map (PD Mapping)

### CDA Test Parameters

Charging Voltage Magnitude (max): 50 kV

Peak-Peak Voltage: 85 kV

Power Consumption: <0.5 kVA

Recommended Maximum Test Voltage Level (Peak):  $2 \times U_0$

Shot Number per Voltage Level: 5-10

### CDA Benefits

Extremely Low Power Demand (<0.5 kVA)

On-Site Test Independent of the Mains (UPS)

Modular Design (Easy Installation in Test Van)

Very Low Weight (< 500 kg)

Prevents Outages, allows Predictive Maintenance



CDA-50 – Test Van for Power Cable Testing

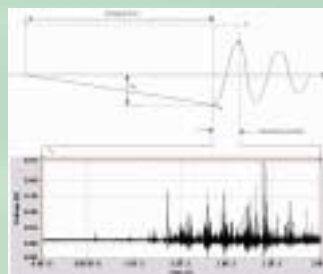
### CDA Software

User-friendly Software Tools for HV Test Procedure and PD Analysis

Special PD Location and Mapping Software

Test Results are Reported in Individual Test Reports

High Detection Sensitivity down to 5 pC



PD Mapping

