

# PDiagnosticG

## GIS Portable Partial Discharge Diagnostic System



PDiagnosticG (4UHF + 2AE)

The PDiagnosticG utilizes UHF and AE sensors to detect, analyze, and diagnose the partial discharge signals in GIS with a combination of acoustic-electric detection technologies. The signals detected are transmitted to the Laptop through the processes of amplification, envelope detection, collection, and signal pre-processing. The PDiagnostic Software installed on the included Laptop digitally filters and extracts the characteristic fingerprint, excludes the disturbance signals, identifies the defect type, and evaluates the insulation PD condition of the GIS through the Intelligent Diagnostic System.

### Applications

- GIS

### Detection Bandwidth

- UHF: 300MHz ~ 1500MHz
- AE: 20kHz ~ 300kHz

### Features

- Detects the PD activity through multiple channels simultaneously
- Detection results shown in PRPD, PRPS charts
- AE detection results shown in RMS, PEAK, Frequency Content( $\times 1$ ,  $\times 2$ ), Phase Distribution, Fly chart, and Waveform
- Acoustic-Electric Time of Flight Technology or 3D Positioning Technology employed to locate the PD activity
- Quick Detection, AE Detection, Expert Diagnostic, and Wave Analysis detection modes
- Embedded rechargeable Li-ion battery / power supply
- Cost-effective with excellent performance



### Technical Specifications

- Test Channels:  
4 UHF channels/4 UHF and 2 AE channels
- 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

# Two Configuration Options

## Option 1:

- 4 UHF sensors and 2 AE contact sensors

## Option 2:

- 4 UHF sensors

External UHF Sensors



AE Contact Sensors



## PDiagnosticG (4UHF)

Main Unit



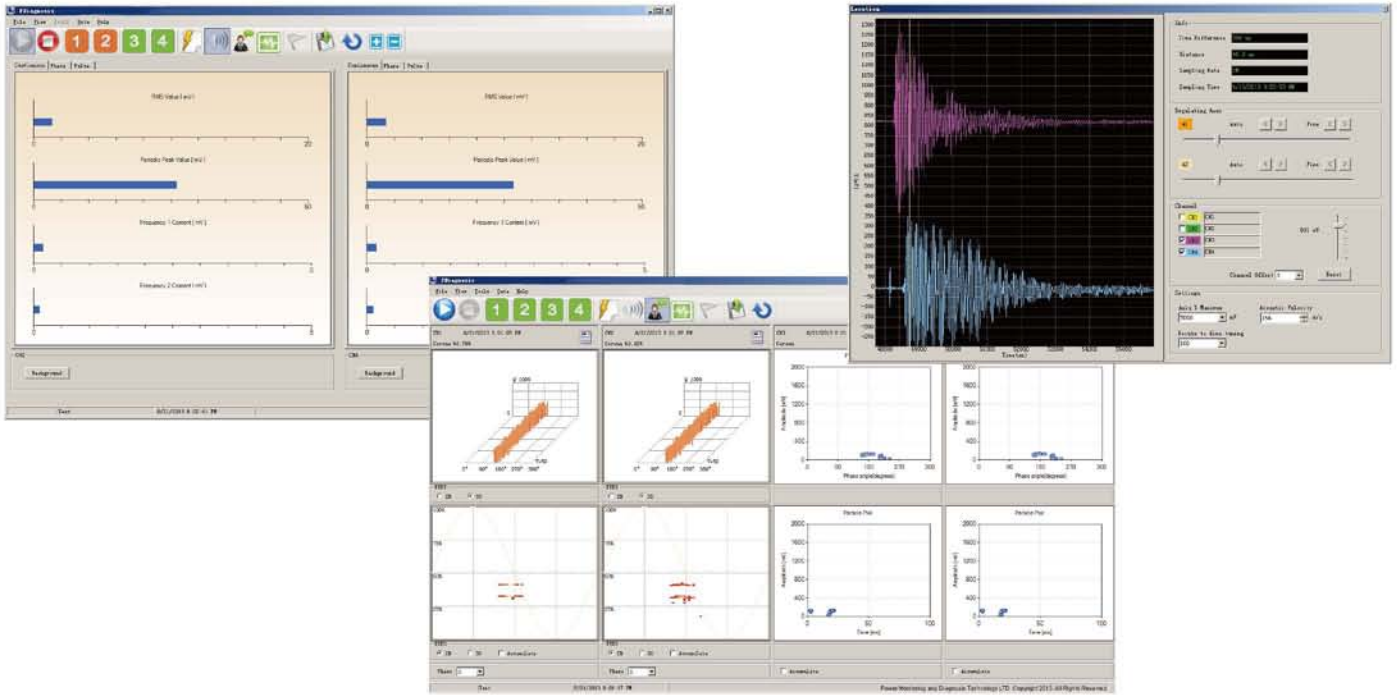
Accessory Case



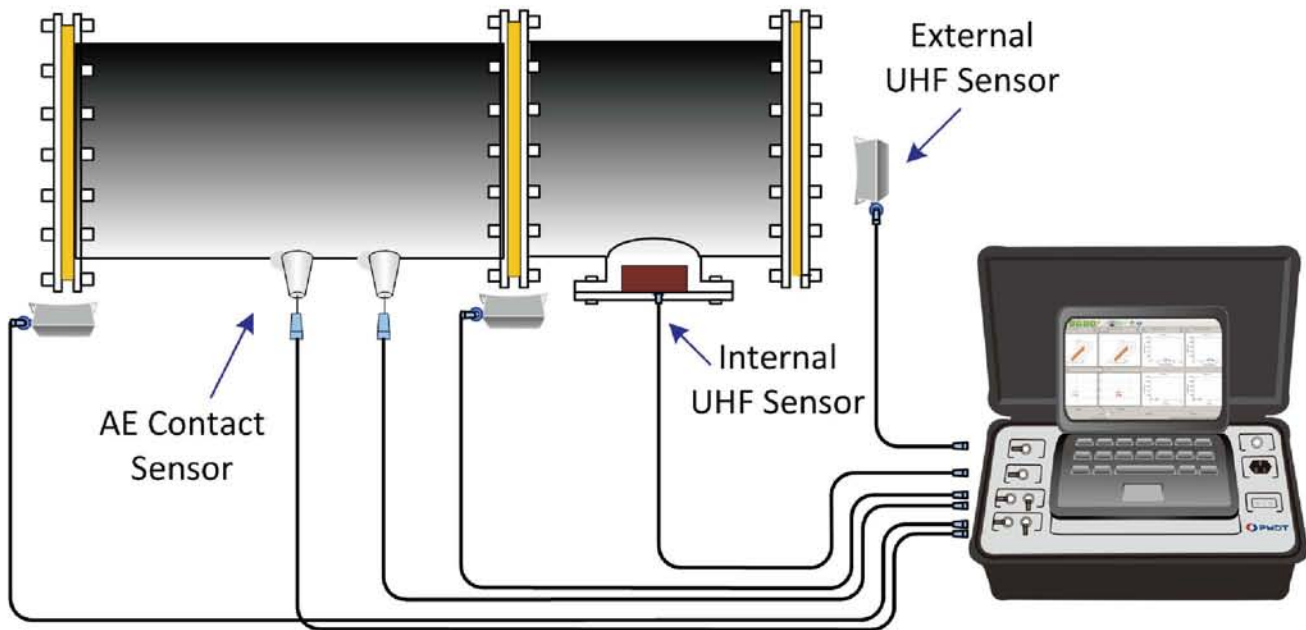
## PDiagnosticG Software

- 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 PDiagnosticG



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