PDiagnosticG
GIS Portable Partial Discharge Diagnostic System

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(×1, ×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: 5F ~ 130F/-15°C ~ 55°C
Two Configuration Options

Option 1:
• 4 UHF sensors and 2 AE contact sensors

Option 2:
• 4 UHF sensors

PDiagnosticG (4UHF)

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 PDiagosticG

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