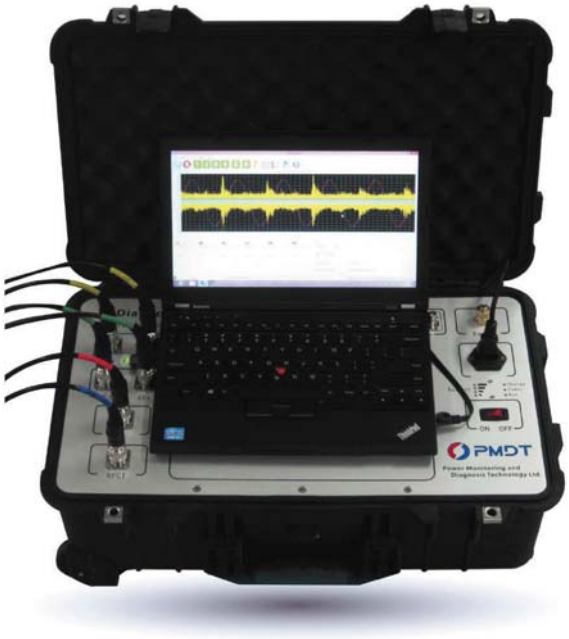
PMDT

Power Monitoring & Diagnosis Professionals

PDiagnosis Series

Kit 5, Portable Partial Discharge Diagnosis System for Power Transformers



The PDiagnosis for power transformer utilizes AE ultrasonic contact sensor, External UHF sensor, and HFCT sensors to detect, analyze, and diagnose the PD signals in power transformers.

It employs a combination of acoustic-electric detection technology and detects the PD activity with multiple sensors through 6 channel units simultaneously. The PDiagnosis Software installed on the Laptop digitally filters and extracts the characteristic fingerprint, excludes the disturbance signals, identifies the PD type, and evaluates the insulation status of the power transformer through the Intelligent Diagnosis System.

Applications

- Transformers

Detection Bandwidth

- AE: 20kHz ~ 300kHz
- UHF: 300MHz ~ 1500MHz
- HFCT: 500kHz ~ 50MHz

Features

- Detect the PD activity through 6 channel units
- Detection results shown in PRPD, PRPS charts
- AE Ultrasonic detection results shown in RMS, PEAK, Frequency Content (×1, ×2) Phase VS Amplitude or Phase VS Time charts
- Quick Detection, Wave Analysis, and Pulse Statistics detection modes
- Acoustic-Electric Time of Flight Technology or 3D Positioning Technology employed to locate the PD activity
- Embedded rechargeable Li-ion battery / power supply
- Cost-effective with excellent performance

Technical Specifications

- Test Channels: 6 channel units;
  4 AE sensor channels, 1 External UHF sensor channel, and 1 HFCT sensor channel
- Data Communication: Ethernet
- Output: PRPD & PRPS spectrums; pulse waveforms
- Dimension: 21.67" x 13" x 9.06" / 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

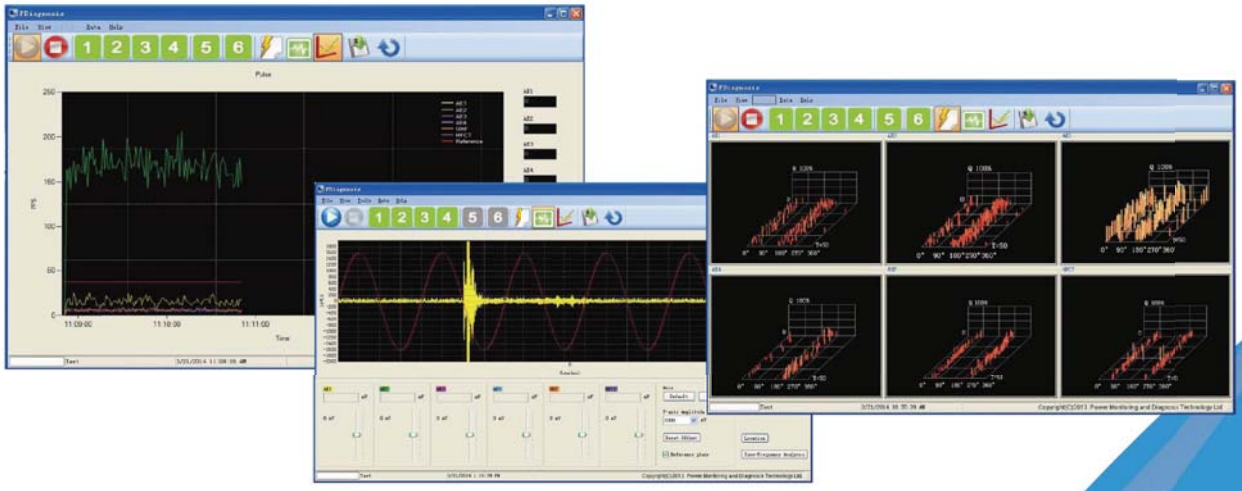
4 AE Ultrasonic Contact Sensors

1 External UHF Sensor

1 HFCT Sensor

PDiagnosis Software for Power Transformers

- Database system to save all data detected
- Data acquisition control and data analysis function
- Display the data detected from each channel in real time
- Analyze and process the history data in the database through statistics and intelligent diagnosis technology and deliver the partial discharge trends
- Acoustic-Electric Time of Flight Technology or 3D Positioning Technology employed to locate the PD activity
- Expert Diagnosis Function to generate detailed reports automatically
- Online monitoring



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