

PDTrac™

Continuous Partial Discharge Monitor



PDTrac™ is an automated, continuous on-line partial discharge (PD) monitor for motors, generators, switchgear and dry-type transformers. The **PDTrac™** system, controlled remotely through **PDTracPro™** software, consists of a sophisticated monitoring instrument connected to permanently installed EMC couplers. The instrument is contained within a NEMA 4X enclosure and is mounted close to the equipment being monitored. It contains digital noise discrimination and processing circuitry and has a variety of communication options. **PDTrac™** can continuously record partial discharge activity and features a range of display and alarm functions. **PDTrac™** is fully compatible with Iris Power instruments, such as the **TGA-B™** and Iris Power display and reporting software, **PDView3™**.

SPECIFICATIONS

General

- Three (3) sensor inputs: for 80 pF EMC couplers
- Communication: Serial RS232C, RS485, or TCP/IP Ethernet.
- PDTracPro™ software for PC or laptop operates on operating systems Windows™2000 and above.
- Alarm Relay: for high partial discharge magnitude indication.
- Three (3) Analog Sensor Inputs - equipment condition temperature, voltage or current), winding temperature, and ambient humidity.
- Auto detecting power supply for operation from 85 VAC to 250 VAC (25 W continuous).
- Self diagnosis to ensure proper and reliable operation.
- PD Magnitude range: 2mV to 8500 mV into 50 ohm.

Operating Environment

- Operating temperature: 0°C to + 40°C.
- Storage temperature: -20°C to + 50°C.

Light-Weight Industrial Enclosure

- NEMA 4X fiberglass box with transparent front window.
Weight: 5 kg (11 lbs)
Size: 26 cm (10.5") x 21.5 cm (8.5") x 15 cm (6")
- NEMA 4X fiberglass junction box.
Weight: 1.1 kg (2.5 lbs)
Size: 19.1 cm (7.5") x 13.9 cm (5.5") x 15.8 cm (6.2")

Approvals

- UL Hazardous Locations: Class I, Division 2, Groups A through D; Class II, Division 2, Groups F & G.
- In progress: CE-ATEX (EEx nL IIC T4) - certified for hazardous locations

Data Acquisition

- Pulse Height Data Analysis (2D) graphs and trending of summary data (NQN and Qm) using PDTracPro™.
- Standard acquisition times of 1 and 5 seconds.
- Maximum values for daily readings (up to 7 days) and weekly readings (104 weeks) for trending purposes.
- Can store up to two years of data (QM, NQN Summary Data and 2D graphs).
- Operating conditions recorded with measurements using analog sensor inputs.

Other Unique Features

- Alarms set based on multiple criteria.
- Alarm indication options include LED on the monitor, solid state switch, and remotely via controlling software.
- Features a 4 line x 20 character LCD with touch key front panel for field configuration.
- Optional analog signal outputs (4-20 mA) proportional to PD magnitudes (NQN and Qm) to interface with plant SCADA or DCS.



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