

**HMSGHAT2000 AND WTPDDDI2000 SOFTWARE**  
**FOR**  
**FAULT AREA NETWORK FOR ELECTRICAL POWER TRANSFORMERS**

**FAN-EPT SYSTEM for ON-LINE MONITORING OF PD**

**DESCRIPTION**

**HMSGHAT2000 (WTPDDDI2000)**

- Location accuracy – six to eight (three to four inches) inches about the PD centroid
- Wideband Correlation (Wavelet Transform Method) techniques for PD location estimation
- Graphical three dimensional pictorial of transformer tank
- Easy identification of sensor locations with chosen origin on the three-dimensional tank diagram
- Choice of domestic (inches) or international (cms) units
- Interactive signal processing techniques considering all media present in the confines of the transformer tank
- Easy to follow instruction manual
- Installation on a PC running Microsoft Windows 95, 98, ME, 2000
- Compatible with MATLAB

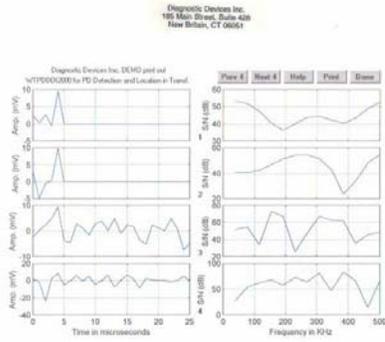
**System Requirements**

- Pentium, Pentium Pro, Pentium II, Pentium III, Pentium IV or AMD Athlon based industrial computer (lunch-box or 19” rack mount type)
- Microsoft Windows 95, Windows 98 (original and second edition), Windows Millennium Edition (ME)
- CD-Rom drive (for installation from CD)
- 64 MB RAM minimum, 128 MB RAM recommended
- Disk Space varies depending on size of partition and installation of on-line help files.
- 8-bit graphics adapter and display (for 256 simultaneous colors)

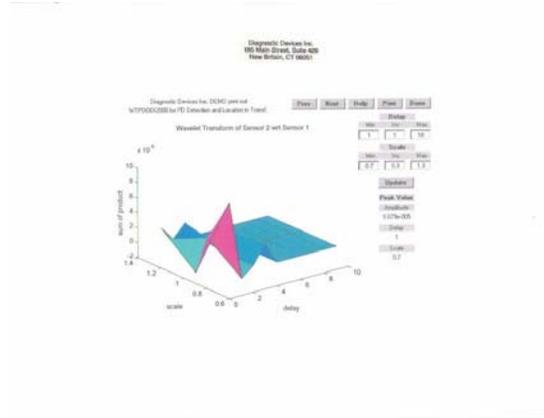
**Other recommended items include:**

- Microsoft Windows supported graphics accelerator card, printer, and sound card
- Microsoft Word 7.0 or Office 2000 is recommended to run HMSGHAT2000 notebook.
- Adobe Acrobat Reader is required to view and print the HMSGHAT2000 on-line documentation in PDF format.

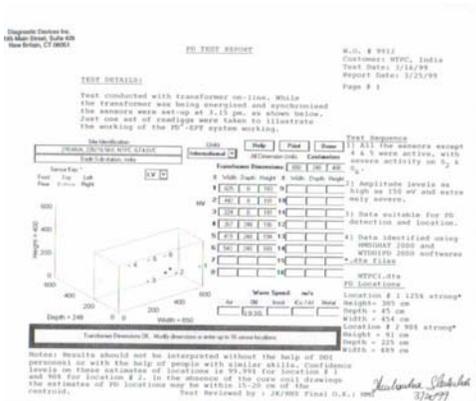
**FAN-EPT** system is only an on-line system for monitoring the detection of PD. It does not perform location analysis of the PD. The location of PD for a six-channel FAN-EPT system can be done with our software **HMSGHAT2000** or **WTPDDDI2000**. This will also do a 3-D location. A demo copy of this software can be obtained from us on request for beta testing or actual testing of transformers.



**Sensor Waveforms and PSD**



**3-D Wavelet Transform plot**



**Test Report with 3-D tank diagram**



**Actual site testing picture**

# HMSGHAT2000 OR WTPDDDI2000 FOR USE WITH FAN-EPT (FD<sup>2</sup>-EPT)

