



GE Panametrics



PanaLogViewer™

User's Guide



March 2003

Process Control Instrument Division

PanaLogViewer™ File Utility

User's Guide

916-069B



GE Panametrics

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fees received by Licensor related to the affected Programs.

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Introduction

GE Panametrics' TransPort[®] PT878 portable flowmeter and PM880 portable hygrometer feature many advanced capabilities. Among the most useful of these is the built-in data logger, which permits the user to record measurements as a function of time and to store the resulting data points in a log file.

The data log files (*.log) created by the PT878/PM880 can be viewed in either text or graphic format on the built-in LCD display or they can be viewed on a remote computer screen with GE Panametrics' PanaView™ instrument interface software. However, to add even more versatility and convenience to the data logging process, GE Panametrics has developed a Visual Basic (VB) software utility called PanaLogViewer™ that allows users to open the PT878/PM880 data log files for viewing and to export these files in Microsoft Excel format (*.xls). The converted files can then be manipulated and graphed in Microsoft Excel just like any other spreadsheet file.

As a service to our customers, GE Panametrics has chosen to make this software available free of charge to all PT878/PM880 owners. This guide provides instructions for installing and operating the PanaLogViewer program.

Preparing to Use PanaLogViewer

In order to use the PanaLogViewer utility, the following steps must first be completed:

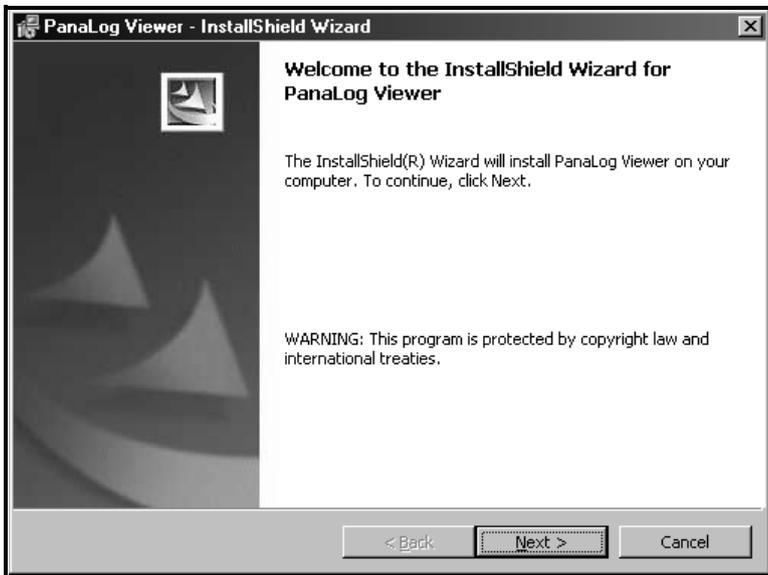
Note: *PanaLogViewer is intended for use on a computer running the Microsoft Windows operating system.*

1. Establish communications between the PT878/PM880 and a remote computer via the built-in infrared interface. Refer to your *User's Manual* for instructions.
2. Make sure you have your PanaLogViewer CD ready.
3. Install PanaLogViewer on your computer

Installing PanaLogViewer

To install the software, proceed as follows:

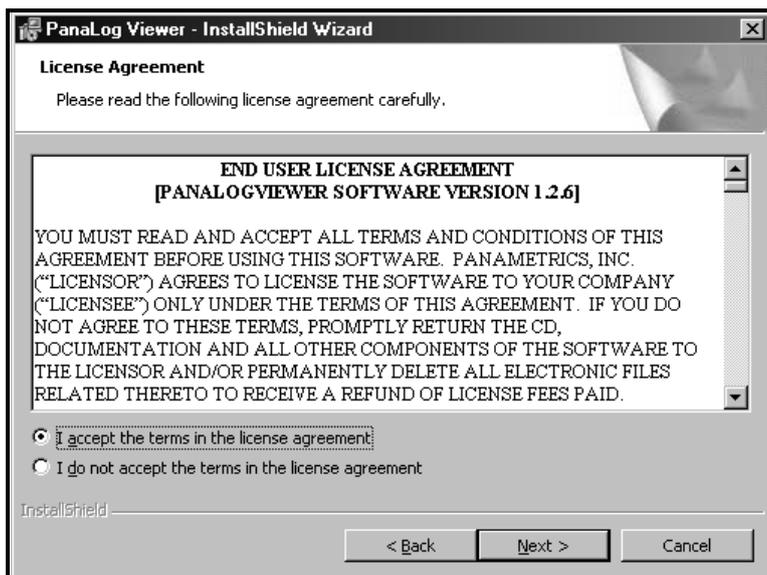
1. Locate the *Setup.exe* file in the *Program* folder on your installation CD. Double-click on this file.
2. The *InstallShield Wizard* will load. At the *Welcome Screen* shown below, click the [Next>] button to begin the installation.



Installing PanaLogViewer (cont.)

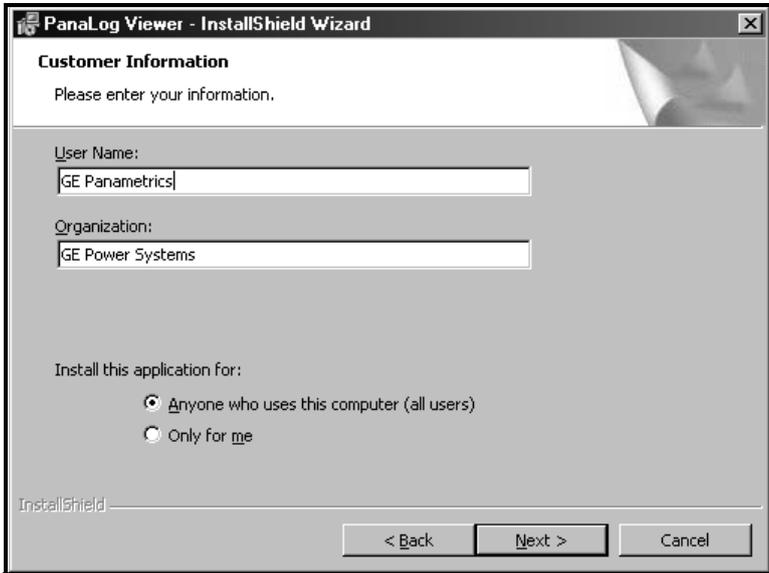
3. At the *License Agreement* screen shown below, read the *End User License Agreement* and select the button that indicates that you *accept* the agreement. Then, click the [Next>] button to continue.

Note: *The text of the End User License Agreement is reproduced at the beginning of this manual. If you choose not to accept the agreement, the installation will not continue.*



Installing PanaLogViewer (cont.)

4. At the *Customer Information* screen shown below, enter your *user name* and *company name*. Also, indicate whether the program should be available to *all users* of the computer or only to *your login* name. Then, click the [Next>] button to continue.

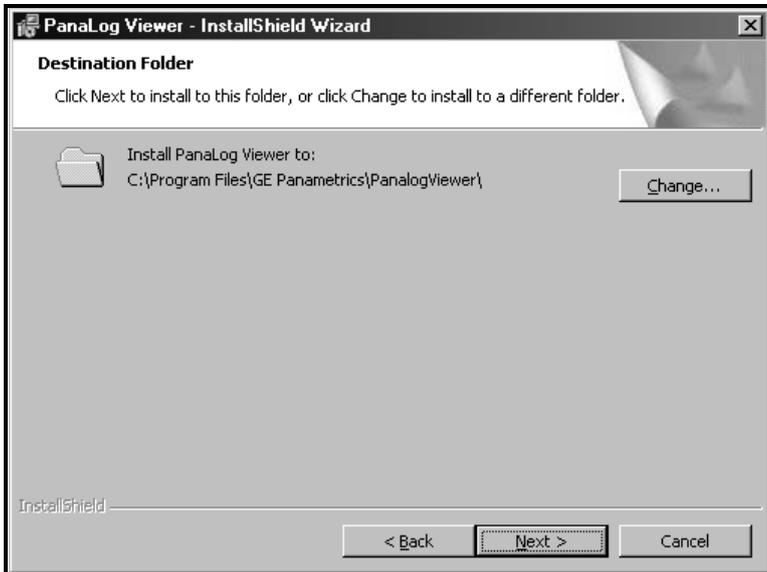


The screenshot shows a Windows-style dialog box titled "PanaLog Viewer - InstallShield Wizard". The main heading is "Customer Information" with a sub-instruction "Please enter your information." Below this, there are two text input fields: "User Name:" containing "GE Panametrics" and "Organization:" containing "GE Power Systems". Underneath, the text "Install this application for:" is followed by two radio button options: "Anyone who uses this computer (all users)" (which is selected) and "Only for me". At the bottom left, the "InstallShield" logo is visible. At the bottom right, there are three buttons: "< Back", "Next >", and "Cancel".

Installing PanaLogViewer (cont.)

5. At the *Destination Folder* screen shown below, *default folder* for the program files (recommended) is indicated. Click the [Next>] button to continue.

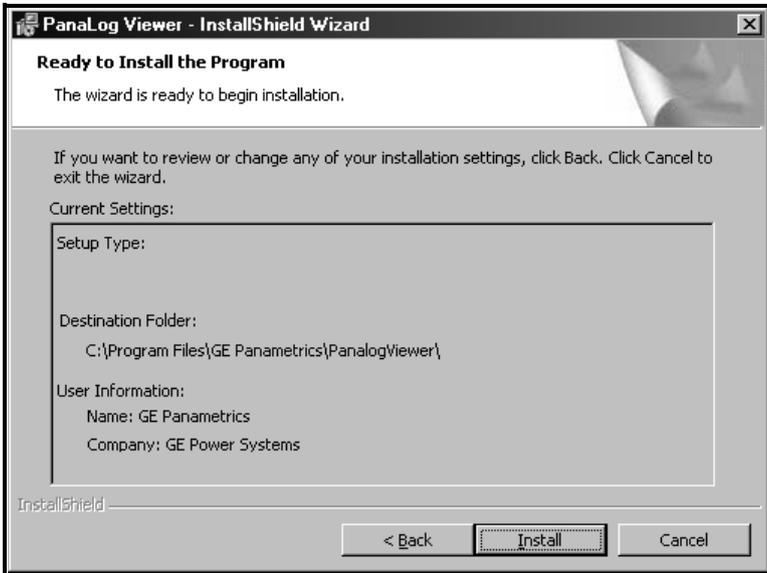
Note: *To install the program files in a different folder, click on the [Change] button and browse to the desired folder.*



Installing PanaLogViewer (cont.)

6. At the *Ready to Install the Program* screen shown below, review the setup information that you entered at the previous screens. If everything is acceptable, click the [Install] button to begin copying the program files to your hard drive.

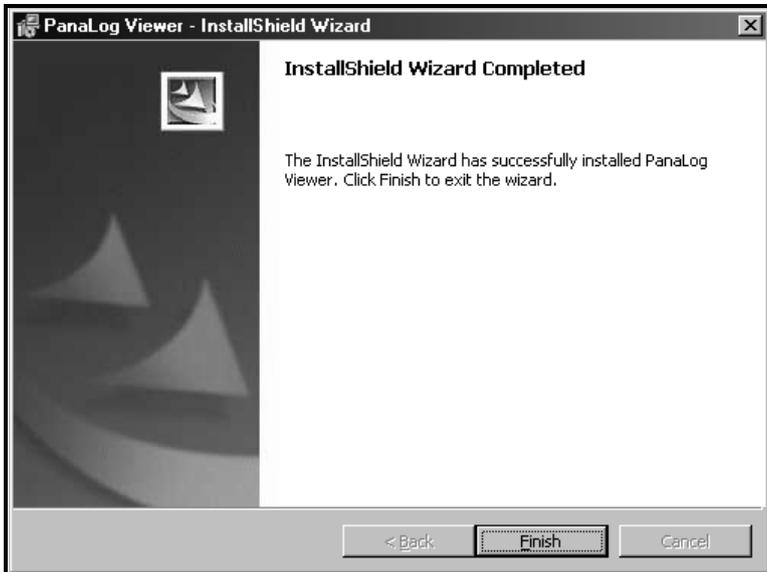
Note: *If you wish to revise any of the information, click on the [<Back] button and make the necessary changes.*



Installing PanaLogViewer (cont.)

7. At the *InstallShield Wizard Completed* screen shown below, click the [Finish] button to finalize the installation.

Note: *The final step of the installation program will place a PanaLogViewer icon on your desktop and a new program group on your Start menu.*



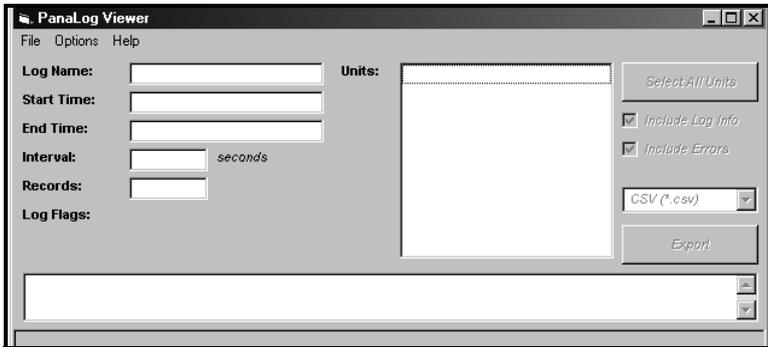
Starting PanaLogViewer

After *PanaLogViewer* has been successfully installed, the program may be launched either from the *Start Menu* or from the *Shortcut* placed on your desktop during installation. The selection is made just like any other Windows application. That is, click on the [Start] button and scroll through your *Program Menu* to the [GE Panametrics] *Program Group* and click on the [PanaLogViewer] entry. Alternatively, just double-click the desktop shortcut (see the figure below).



The User Interface

When the program is first launched, the following screen appears:



As shown above, the PanaLogViewer user interface includes the following components:

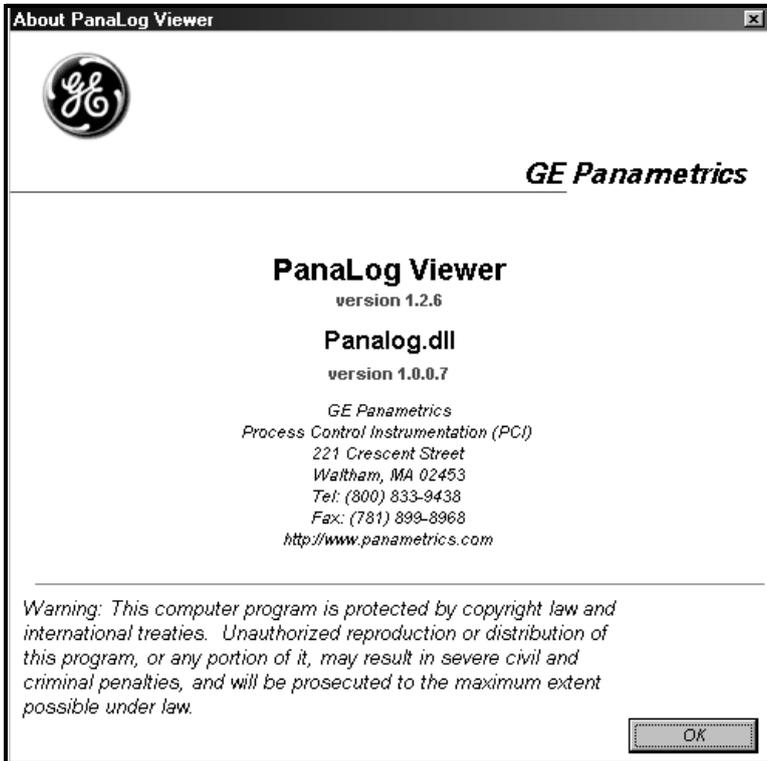
- **Title Bar:** shows the *application name* and includes the usual Windows *control buttons* at the far right.
- **Menu Bar:** includes the *File*, *Options* and *Help* menus.
 - **File Menu:** includes the *Open* and *Exit* options.
 - **Options Menu:** includes the *Delimiter* option.
 - **Help Menu:** includes the *About* option.
- **Log Data Area:** includes the *Log Info* and *Export Options*.
 - **Log Info:** these boxes are automatically populated when you open a log file.
 - **Export Options:** The boxes allow you to specify the type of file to export and the log parameters to include.
- **Status Area:** the white box across the bottom of the window that lists a description of the events that have occurred since the program was launched.

The *About* Menu Option

When you select the *Help* menu on the menu bar, the *About* option appears in the drop-down list box:



Select the *About* option to view the version information for your software.



When you have finished reading the information, click the [OK] button to close the window.

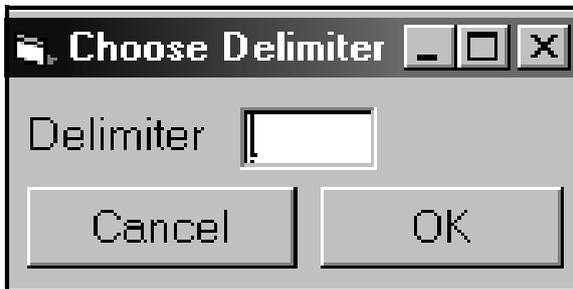
The *Delimiter* Menu Option

When you select the *Options* menu on the menu bar, the *Delimiter* option appears in the drop-down list box:



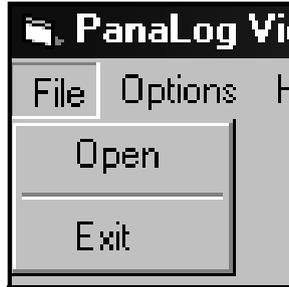
Select the *Delimiter* option to specify the type of text file that you wish to export (see the figure below). Simply type the desired delimiter character in the box and click on the [OK] button.

Note: *The default delimiter is the comma, as a comma-delimited text file is easily imported into most spreadsheet programs. However, other delimiters (such as the Tab) may be used as desired.*



The *Open* Menu Option

When you select the *File* menu on the menu bar, the following options appear in the drop-down list box:

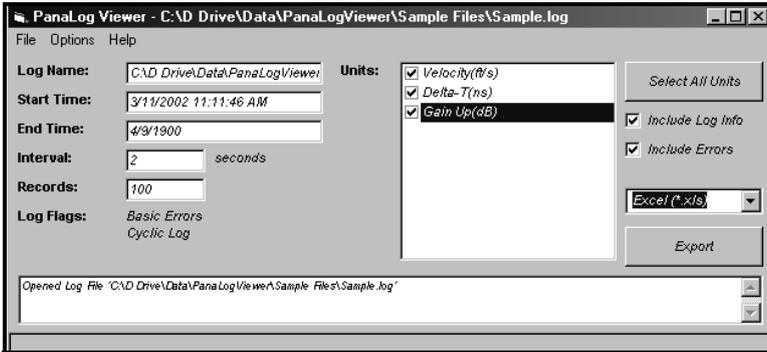


To open a PT878/PM880 log file for viewing and/or exporting, select the *File* menu on the menu bar, and click on the *Open* option in the drop-down list box. Then, navigate to the directory on your hard drive where your log files are stored, and open the desired log file (the *Sample.log* file and the *Sample Files* folder are used here as an example).



Viewing a Log File

After opening a log file as described on the previous page, the log data that was programmed into the PT878/PM880 at the time the log was created is automatically entered in the appropriate fields. The typical data for our sample log is shown below.



The following items are listed on the above display:

- Log Name:
- Start Time:
- End Time:
- Interval:
- Records:
- Log Flags:
- Units:

Note: See your PT878/PM880 User's Manual for a discussion of the parameters listed above.

Exporting a Log File

After viewing a log file as described in the previous section, you may wish to export the log file into standard Microsoft Excel format so that it may be opened in that application in the future. To accomplish this, refer to the figure on the previous page and complete the following steps:

1. Select the *Units* columns to be exported. You may either check the individual units boxes or click on the [Select All Units] button to include them all.

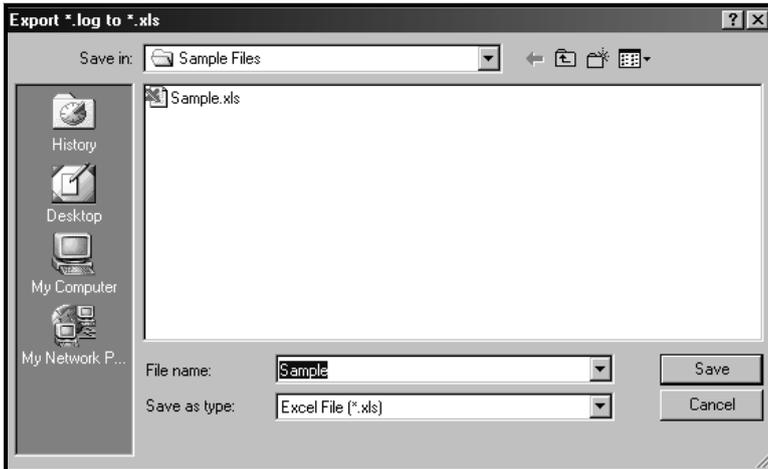
Note: *The Date/Time column is always exported.*

2. You may choose to include or not include the *Log Information* in your exported file by either checking or unchecking this box at the right side of the viewing window.
3. You may choose to export the *Errors* column of the log file or not (recommended) by either selecting or deselecting the *Include Errors* option.
4. In the drop down list box, select the type of file to be exported:
 - **Delimited Text File** - as specified in the *Options>Delimiter* menu.
 - **Excel (*.xls)** - standard *Microsoft Excel* worksheet file
5. When you have completed all of your selections, press the [Export] button to proceed.

Note: *The example on the next page shows the export of a Microsoft Excel file as an example. The general procedure is identical for exporting a delimited text file.*

Exporting a Log File (cont.)

After you have configured the export file on the previous page, you will be asked to name the exported file and specify a destination directory:



At the above window, complete the export process by performing the following steps:

1. *Save in:* - Browse to the desired destination directory so that its name appears in this box.
2. *Save as type:* - Make sure that *Excel Files [*.xls]* has been selected in this box.
3. *File name:* - Enter the desired name for the exported file in this box.
4. Click on the [Save] button.

IMPORTANT: *If you choose a file name that is the same as an already existing file in the same folder, you must give permission to overwrite the old file.*

After completing step 4, the specified file will be exported and you will be returned to the standard PanaLogViewer window.

The *Exit* Menu Option

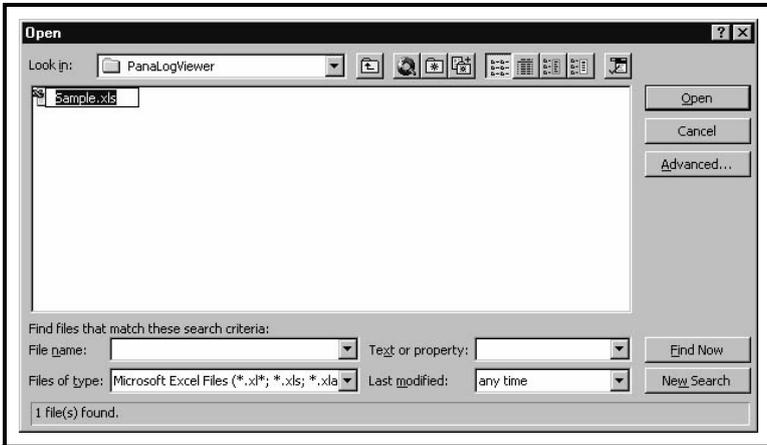
When you have finished using PanaLogViewer, select the *File* menu on the menu bar (see the figure at the top of page 12) and click on the *Exit* option. This will close the application and return you to the Windows desktop.

Note: *You may also close the application by clicking on the [X] control button at the far right of the title bar.*

Opening the File in Microsoft Excel

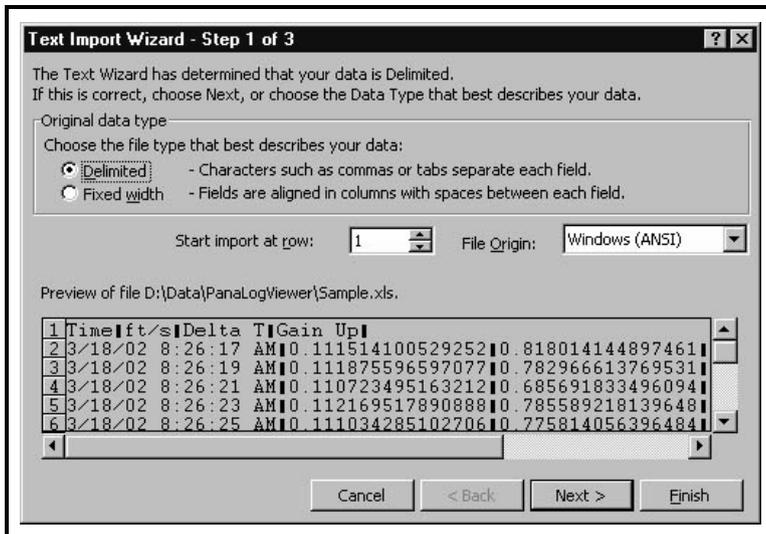
After exporting a PT878/PM880 log file as described on page 14, the file may be opened in Microsoft Excel. First, launch your version of Microsoft Excel and select *Open* from the *File* menu.

Note: *Only a general overview of the procedure is provided here. If you are unfamiliar with the program, consult your Microsoft Excel documentation for more details.*

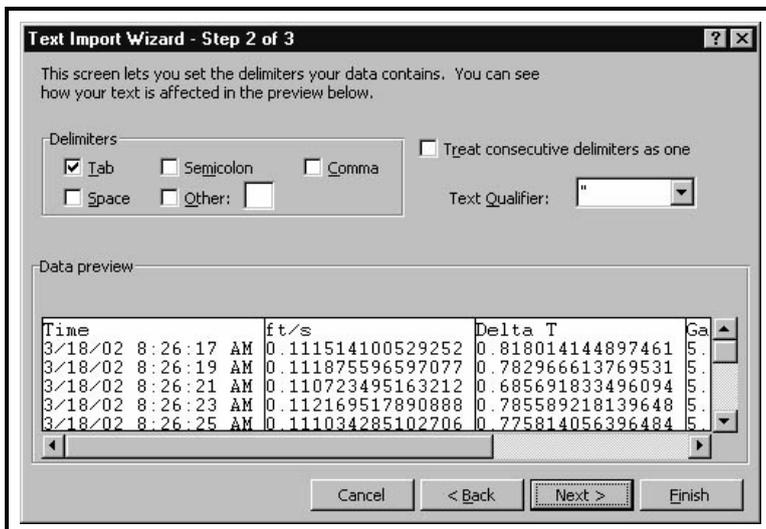


Navigate to the directory where your exported log file is stored and select the desired file. Then, click on the [Open] button. This will launch Excel's three-step text import wizard.

Opening the File in Microsoft Excel (cont.)

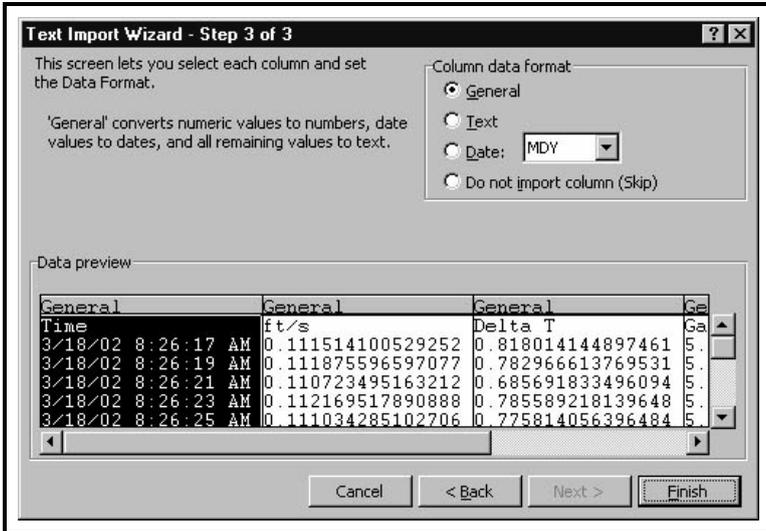


At step 1, the exported file is identified as a *Delimited* text file. Accept this default and click on the [Next>] button.

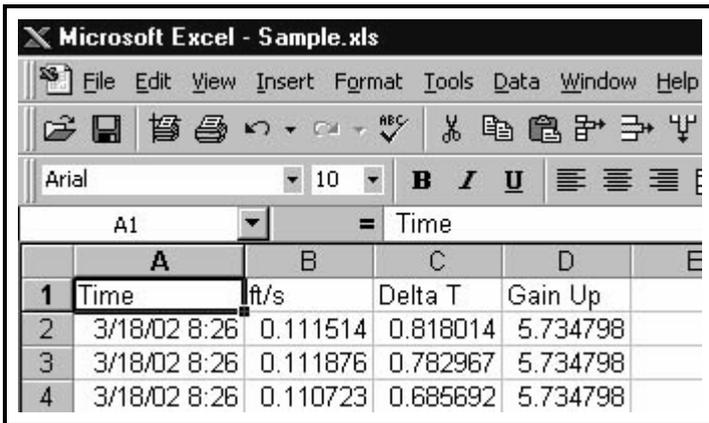


At step 2, specify the type of delimiter and click on the [Next>] button.

Opening the File in Microsoft Excel (cont.)



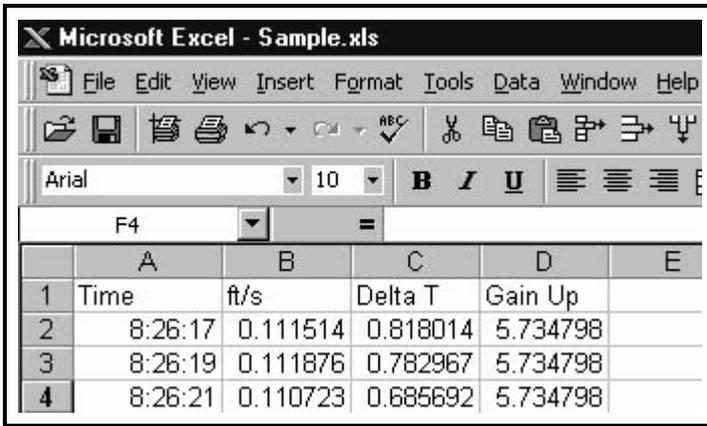
At step 3, you may set the data format for each column. Accept the default and click on the [Finish] button. You can always reformat the data after the file has been opened. The file will now be opened and displayed in the Microsoft Excel window.



You may now perform any operations on the file that you could on any other Microsoft Excel spreadsheet (see your Microsoft Excel documentation for instructions).

Opening the File in Microsoft Excel (cont.)

You may have noticed in the window at the bottom of page 18 that the default formatting for the first column (*Time*) shows the *date* in MM/DD/YY format followed by the *time* in HH:MM format. However, the time data that was exported from the PT878/PM880 log file also includes the *seconds* information. If you wish to show this data in the Excel file, reformat column A for time in the HH:MM:SS format.

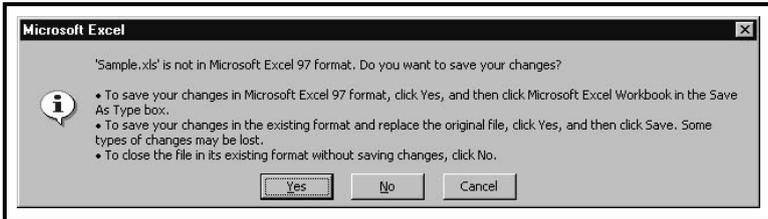


	A	B	C	D	E
1	Time	ft/s	Delta T	Gain Up	
2	8:26:17	0.111514	0.818014	5.734798	
3	8:26:19	0.111876	0.782967	5.734798	
4	8:26:21	0.110723	0.685692	5.734798	

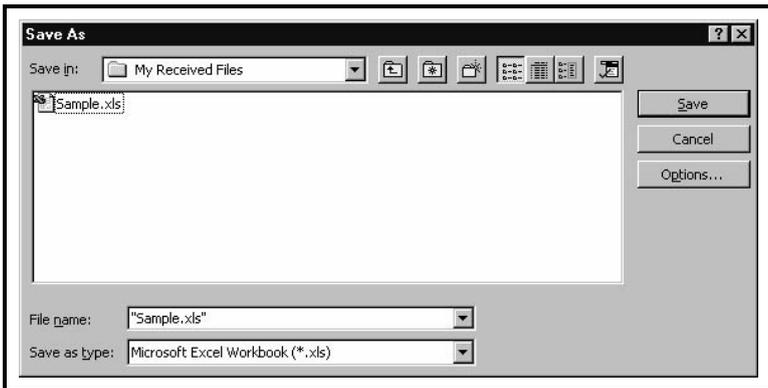
Note: *If you choose to display the seconds time data using the standard Excel format, the date information is no longer shown. If you wish to show both the date and the seconds, insert a copy of column A and format the two columns accordingly (see your Excel documentation for details).*

Saving the File in Microsoft Excel

After opening the exported PT878/PM880 log file in Microsoft Excel and manipulating the spreadsheet as desired, you must save the file as an Excel spreadsheet to retain the information. To do this, open the *File* menu and click on the *Save* option:

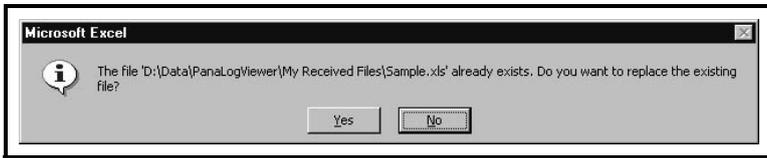


To save your changes in Microsoft Excel format, click on the [Yes] button.



Make sure that *Microsoft Excel Workbook (*.xls)* is selected in the *Save as type:* box and click on the [Save] button.

Saving the File in Microsoft Excel (cont.)



If you have chosen to save the file in the same directory used to store your exported log files, you will be warned that a file with the same name already exists. This is the original *delimited text file* that was exported from PanaLogViewer. You may proceed in one of two ways:

- If you have no further need for the original exported file, simply click the [Yes] button to overwrite it with the properly formatted Excel workbook file created in the previous section.

or

- If you wish to retain the original exported file, click the [No] button to return to the *Save As* window shown at the bottom of the previous page. Then, choose a different file name and click the [Save] button.

Your file is now a standard Microsoft Excel workbook file and can be opened in the future without performing the three-step text import wizard.



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