

PCAMS for Windows NT

Trend Program Documentation

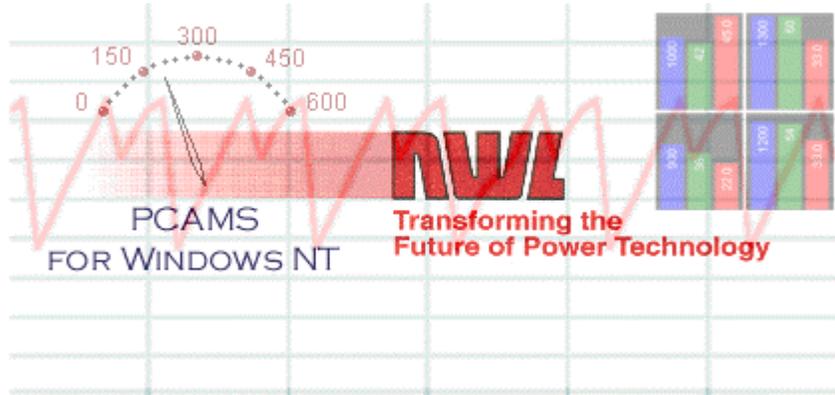


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Trend Overview

The power to generate graphical information is built right into PCAMS. Simply tell it what you want to know, and it delivers graphs that show the peaks and valleys of opacity, power consumption, or other measurements over any time period you set.

PCAMS lets you spot trends in precipitator performance without manual record-keeping. You can use this information to better manage your boilers and your power supplies. For example, if you know what fuel the boilers were using during a given period, you can analyze its effect on precipitator performance.

What's more, you can get the information in graphic or table form, on screen or printed out.

Unlike V/I curve, Trend curves are plotted over a period of time that you specify. You can see system behavior on an hour-to-hour, day-to-day, even month-to-month basis.

Starting Trend

Trend can be launched directly from PCAMS.

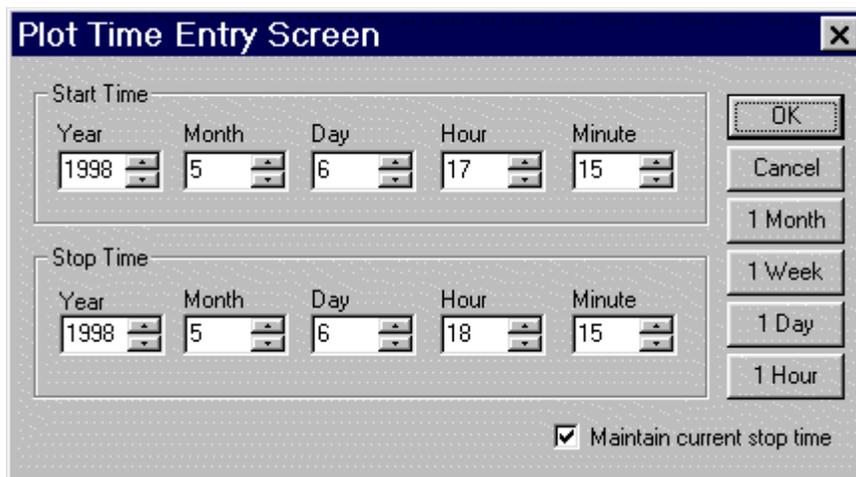


Just click on the Trend icon, the bottom-left icon on the toolbar on the main screen.

Time entry

Trend plots can be set up for virtually any time period you wish.

To select the time period, select "Time Range" from the "Select" pulldown menu. The Plot Time Entry window appears.



The screenshot shows a dialog box titled "Plot Time Entry Screen" with a close button (X) in the top right corner. The dialog is divided into two main sections: "Start Time" and "Stop Time". Each section contains five spinners for Year, Month, Day, Hour, and Minute. The "Start Time" section has values: Year: 1998, Month: 5, Day: 6, Hour: 17, Minute: 15. The "Stop Time" section has values: Year: 1998, Month: 5, Day: 6, Hour: 18, Minute: 15. To the right of these sections are several buttons: "OK", "Cancel", "1 Month", "1 Week", "1 Day", and "1 Hour". At the bottom right, there is a checked checkbox labeled "Maintain current stop time".

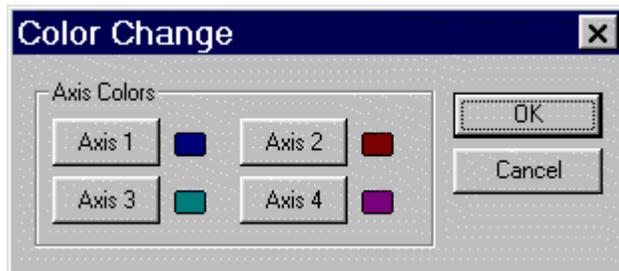
You can select from several preset time ranges by clicking on the buttons on the right of the window. Select from: 1 month, 1 week, 1 day or 1 hour.

To set a specific time, other than the preset ranges, choose the start and stop points by typing over the values in the box or using the arrows attached to the box to increment or decrement the value.

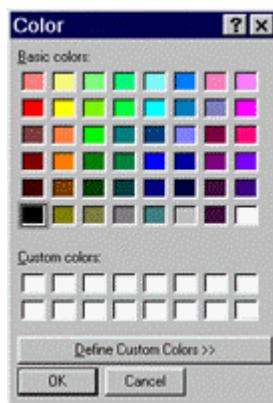
The X axis on the plot will automatically adjust so that the period you have selected will occupy its full left-to-right scale.

Line color

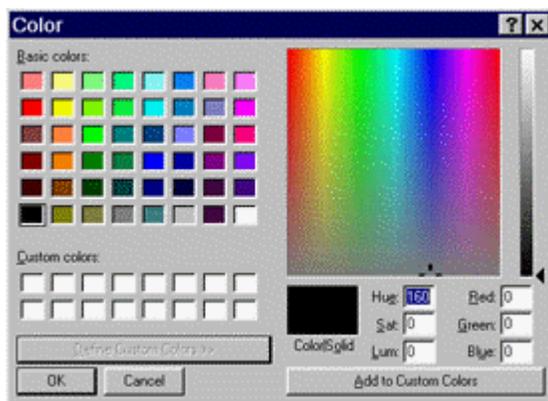
You can change the color of the lines by selecting "Line Color" from the "Select" pulldown menu. The Line Color window will appear.



Next to each button is the current color for each axis. To change this color, click on the button of the axis you wish to change.



You can select one of the primary colors displayed in this window or click on "Define Custom Colors" to create exactly what color you want.



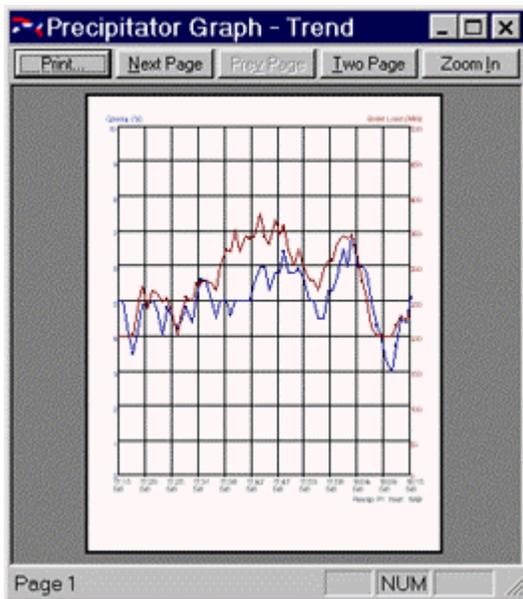
You can choose from any color in this extended list and then click "Add to Custom Colors" to bring that color over to the original window.

Once you have selected your color, click OK, or Cancel to ignore your changes.

Printing

You can make a printout of the current screen of plotted curves by selecting "Print" from the "File" pulldown menu or by clicking on the print button on the toolbar.

You can preview this printout before you send it to the printer by selecting "Print Preview" from the "File" pulldown menu or by clicking on the print preview button on the toolbar. The Print Preview window displays.



You can select "Print" from the Print Preview window to send this to the printer. Select "Close" to end the preview and return to V/I curve.

Making adjustments to your printer setup

To change any of your printer settings, click on "Print Setup..." from the "File" pulldown menu.

Graph functions

You can change the appearance of the graph in many ways through the toolbar or the options on the "View" pulldown menu.

Toggling the grid

You can turn the grid on and off by clicking on the grid button on the toolbar or selecting "Grid Lines" from the "View" pulldown menu. The grid button will appear depressed on the toolbar and the the grid label will be checked in the pulldown menu if the grid is enabled.

Toggling control points

Control points mark the actual values of sampled data. The lines plotted connect these points, however you can choose to view or hide these control points. Turn them on or off by clicking on the control points button on the toolbar or selecting "Control points" from the "View" pulldown menu.

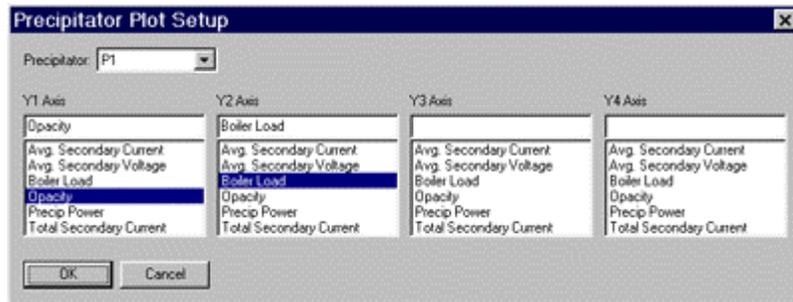
Key position

When one or more T/Rs or T/R fields have been plotted, you can change the key position to horizontal or vertical, or turn the key off completely. Use the key buttons on the toolbar to toggle between horizontal or vertical key position, or click the current key position to turn it off. You can also do this from the "View" pulldown menu.

Plotting data

Precipitator plot setup

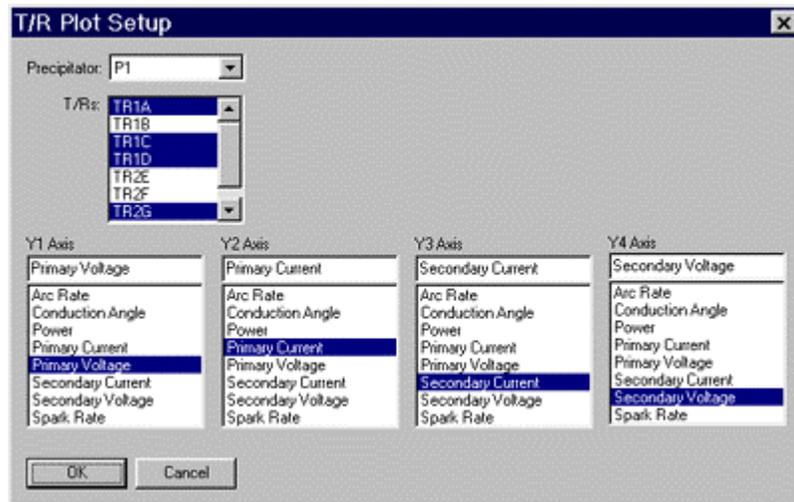
To access the Precipitator plot setup window, select "Precipitator" from the "Select" pulldown menu. The Precipitator Plot Setup window will appear.



Select the precipitator you wish to use from the combo-box at the top of the window. Next, select, from the list boxes, the data you wish to trend. You may have up to 4 Y axis. To remove an axis, clear the edit box on top of the list box of the axis you wish to remove.

T/R plot setup

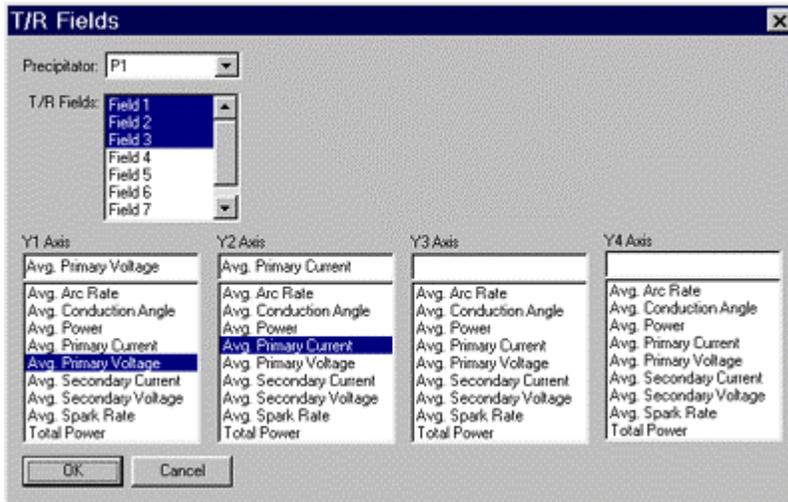
To access the T/R plot setup window, select "T/R" from the "Select" pulldown menu. The T/R Plot Setup window will appear.



Select the precipitator you wish to use from the combo-box at the top of the window. Next, select the T/Rs you wish to plot in the T/Rs list box. From the axis list boxes, select the data you wish to trend. You may have up to 4 Y axis. To remove an axis, clear the edit box on top of the list box of the axis you wish to remove.

T/R fields plot setup

To access the T/R Fields window, select "T/R Fields" from the "Select" pulldown menu. The T/R Fields Setup window will appear.



Select the precipitator you wish to use from the combo-box at the top of the window. Next, select the T/R fields you wish to plot in the T/R Fields list box. From the axis list boxes, select the data you wish to trend. You may have up to 4 Y axis. To remove an axis, clear the edit box on top of the list box of the axis you wish to remove.

