HACH® Application Note 110

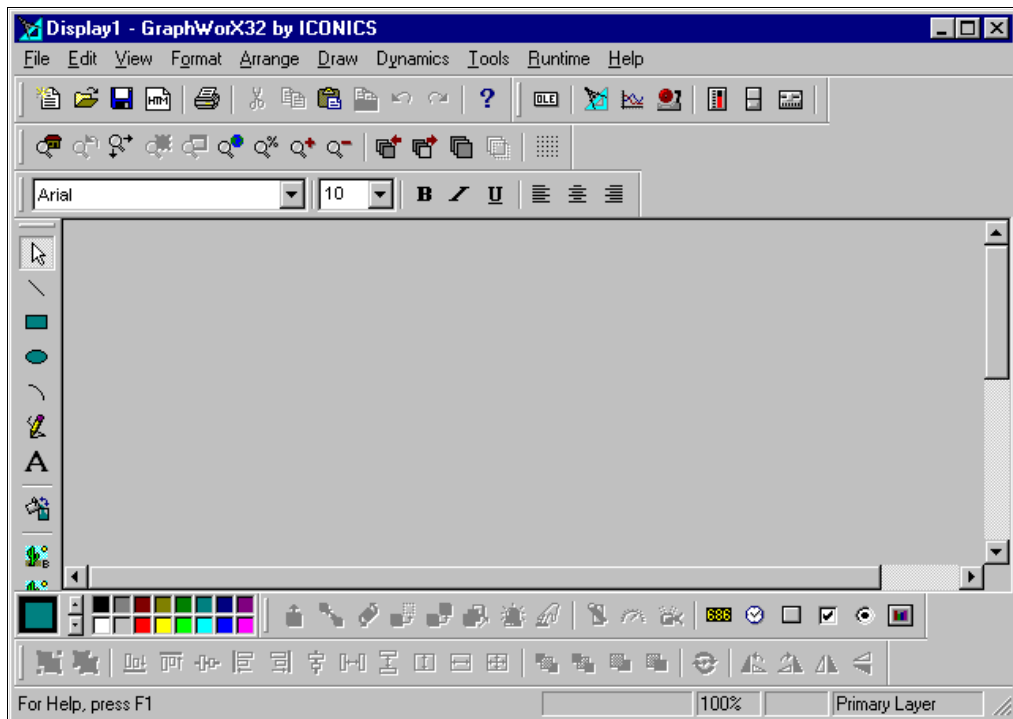# Creating and Using TrendWorX Time Plots with Hach's OPC Servers

Introduction

This document describes how to insert a TrendWorX Time Plot into a GraphWorX screen, and connect it to a Hach OPC (OLE for Process Control) Server.
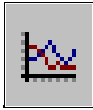
System Requirements

- Pentium 166 mHz or faster processor with CD ROM Drive

- Windows® 95, 98, NT 4.0 or higher (NT recommended)

- At least one Hach OPC Server (such as MOD I/O Explorer)

- Iconics Genesis32 Enterprise Edition (Both GraphWorX32 and TrendWorX32 required)
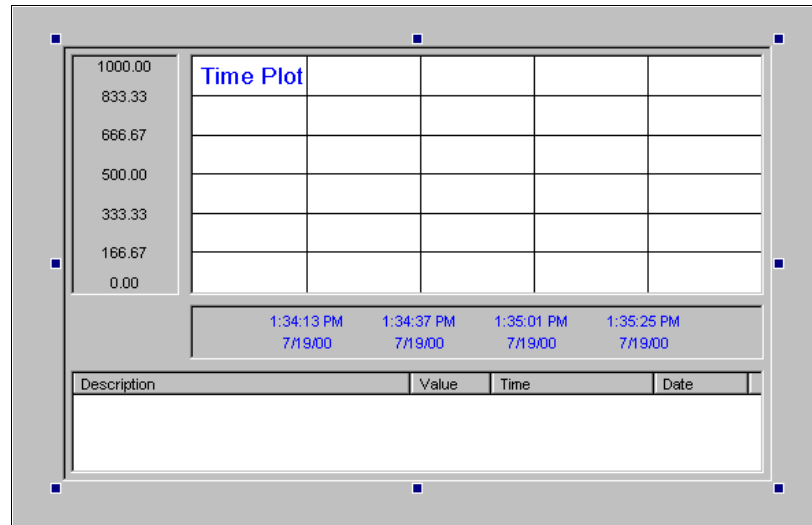
Starting GraphWorX

1. Start GraphWorX by clicking Start, Programs, Iconics Genesis32, GraphWorX32, GraphWorX32. A blank design screen appears:

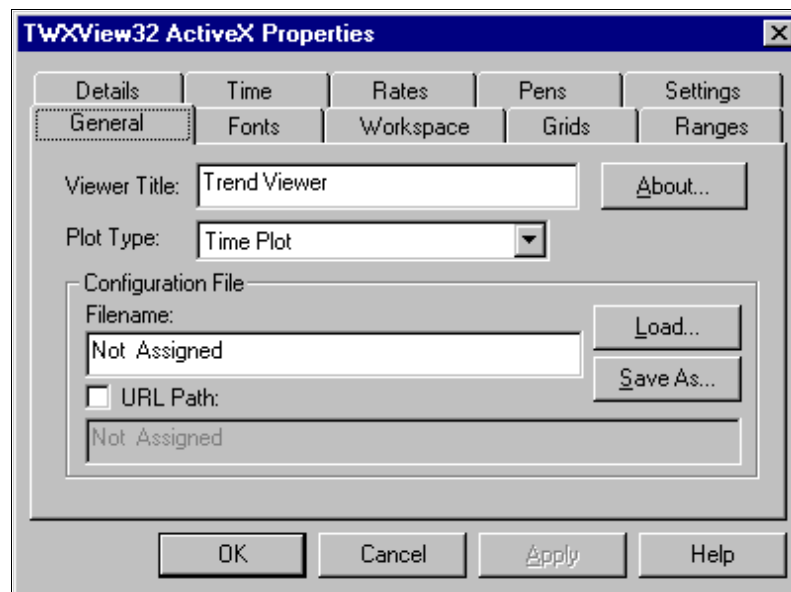# Creating and Using TrendWorX Time Plots with Hach's OPC Servers

Inserting a TrendWorX Real Time Display

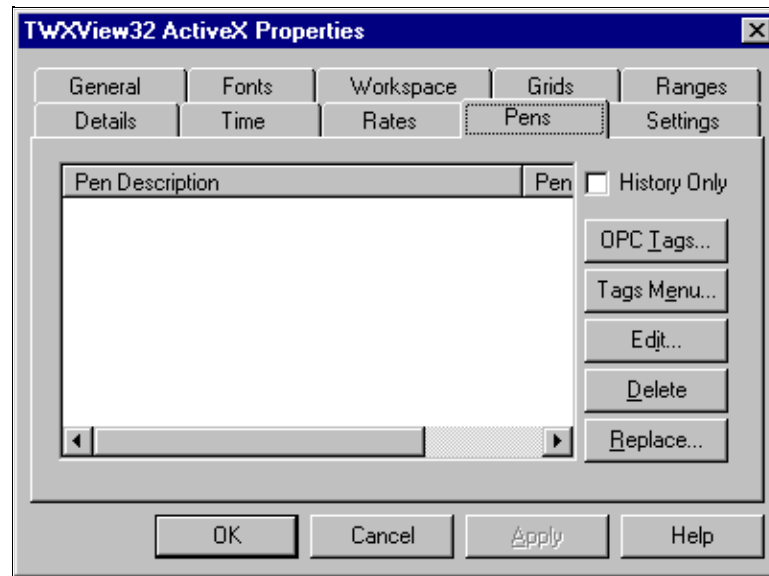**2.** Click the TWXView32 ActiveX control button. A time plot is placed on the GraphWorX screen.

3. Double click the Time Plot. The TWXView32 ActiveX Properties dialog box appears:
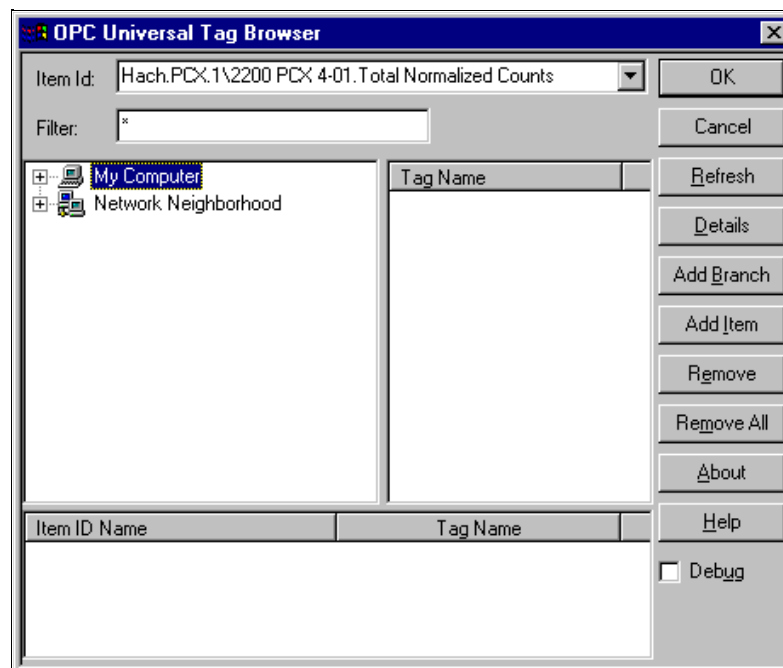
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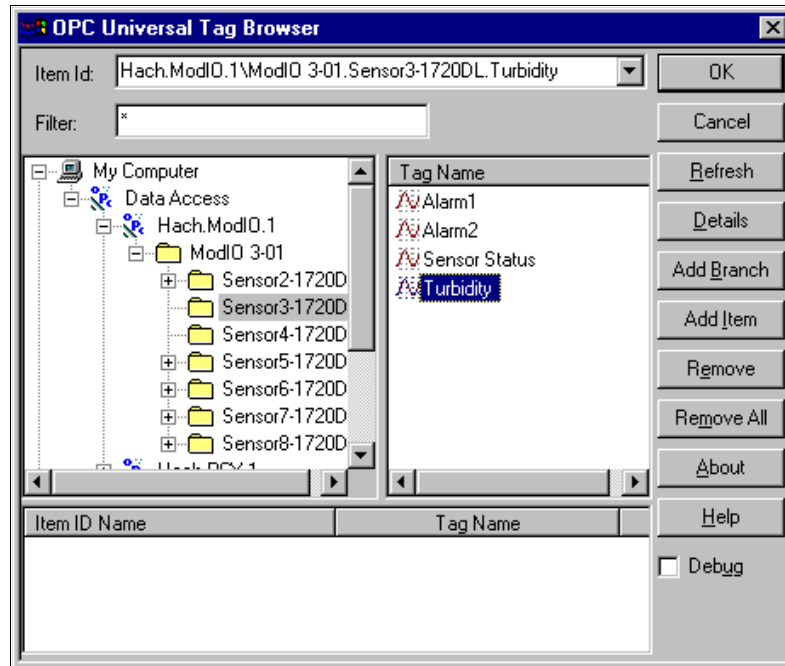
4. Click on the Pens tab.

5. Click on the OPC Tags button.
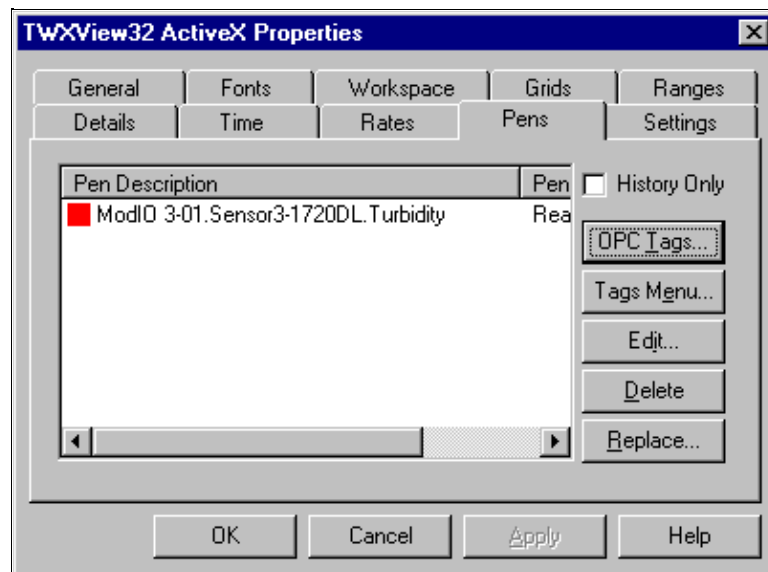
6. Double click My Computer.

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7. Double click Data Access then continue double clicking items until the desired OPC Tag is found (Turbidity in this example). Click OK.
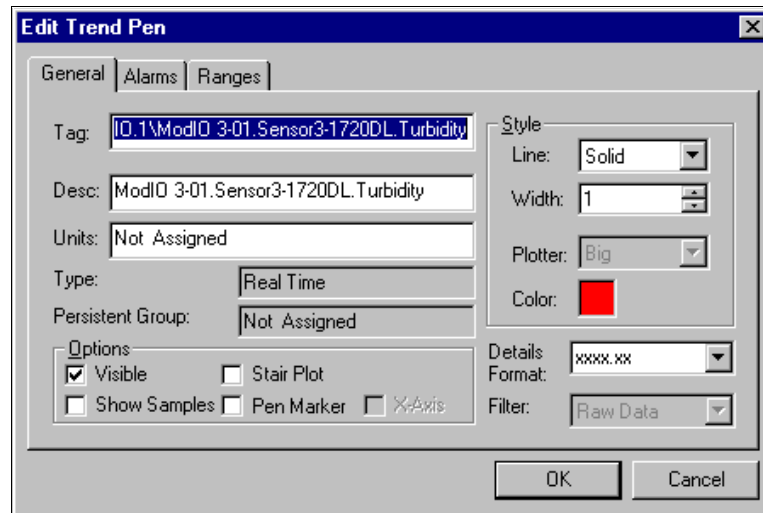

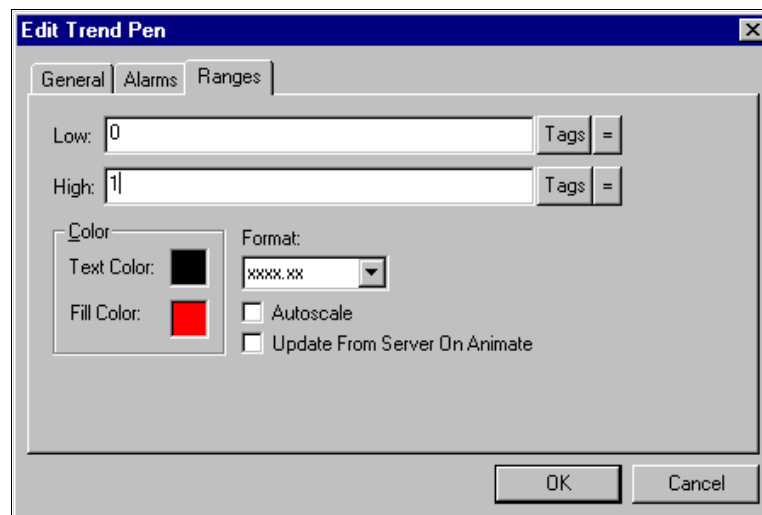**8.** The properties dialog now shows the first pen description.

9. Double click the red box next to the pen name to edit that pen's properties. The Edit Trend Pen dialog box appears:
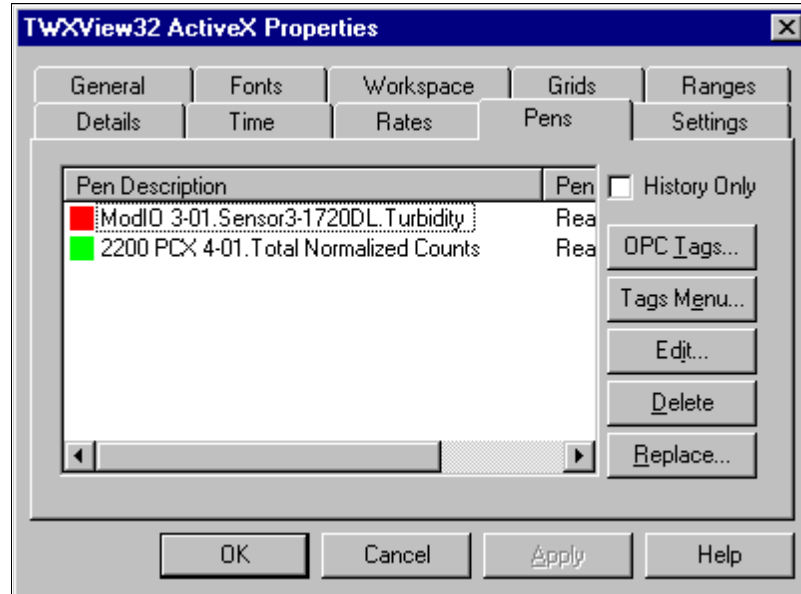

10. Click on the Ranges Tab. Change the Low Range to 0, and the High Range to 1.
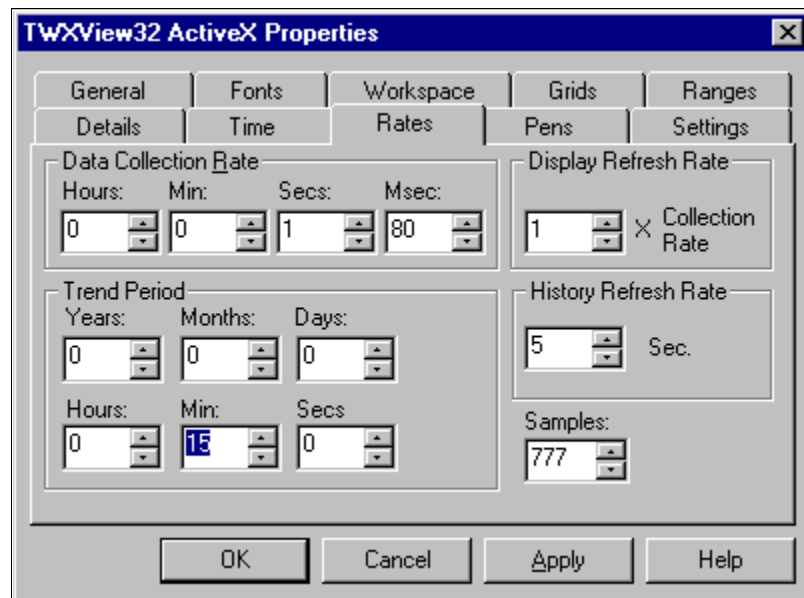
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11. Continue adding pens as necessary by clicking the OPC Tags button. Two pens are shown in the example below.
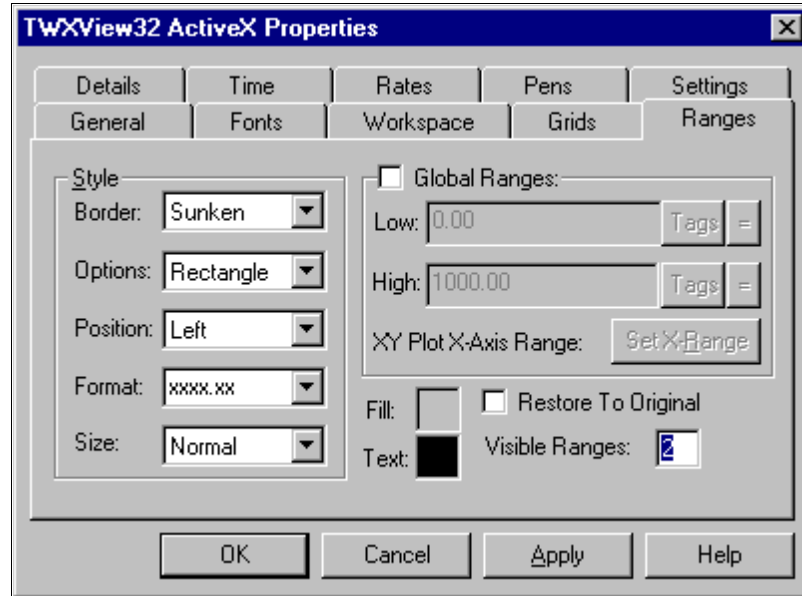

12. Click the Rates Tab and set the desired trend period in Hours, Minutes and Seconds (15 minutes in this example).
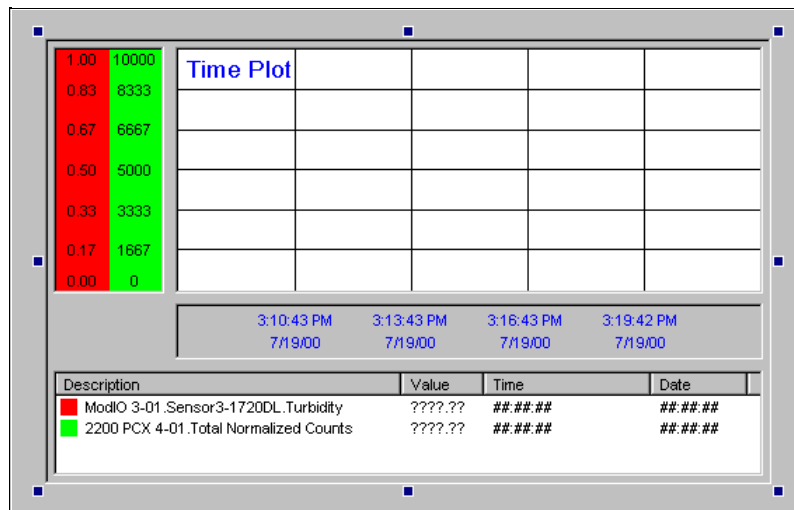
13. Click the Ranges Tab, and set the Visible Ranges to 2. This will display a separate scale for each pen on the Time Plot.
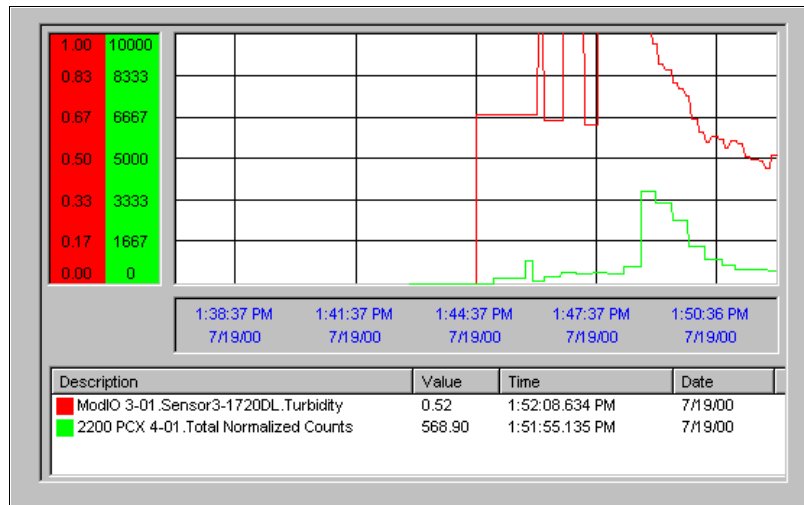

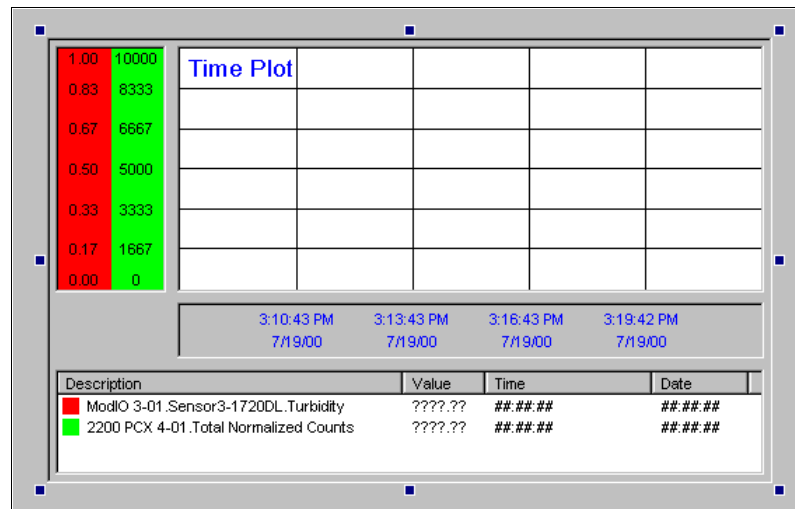**14.** Click OK. The Time Plot is shown on the screen.

15. Click on the Runtime menu item (in the menu bar) to start the real time display. A screen is shown below.

Changing the Chart Type

Additional chart types such as Circular, Logarithmic, X-Y, and Bar Charts are available.
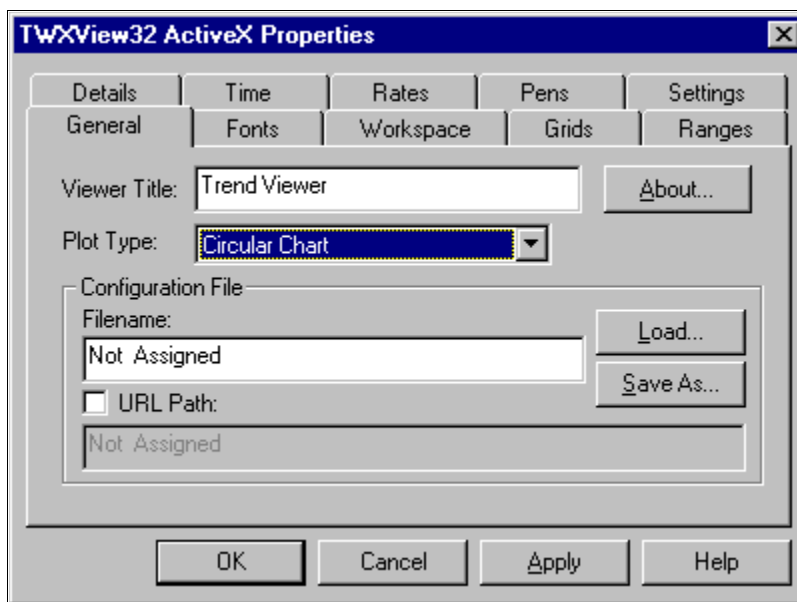
1. To switch to a Circular Chart (for example), click the Configure menu item (in the menu bar) to return to design mode.
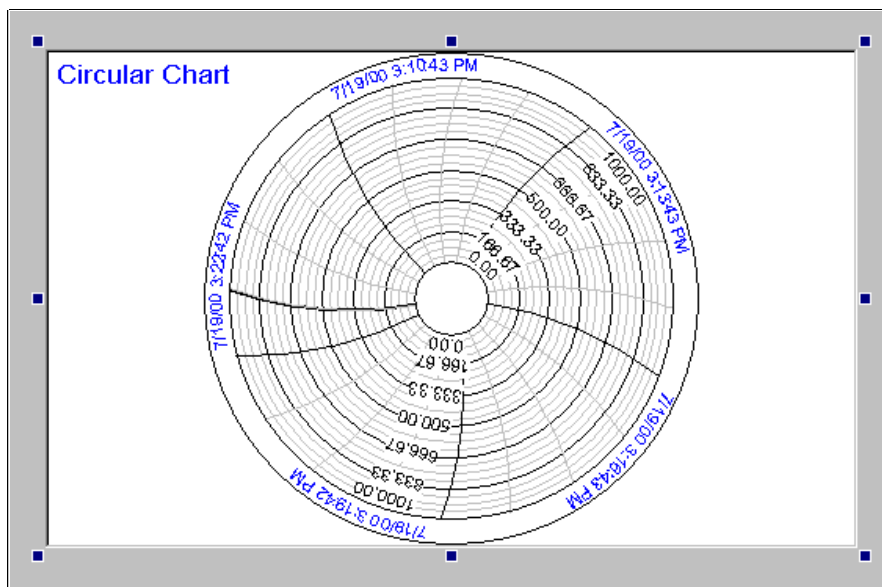
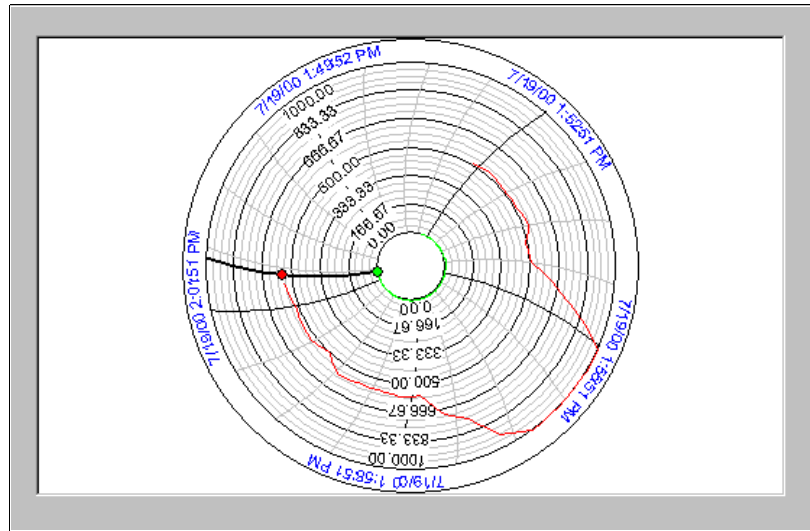**2.** Double click the appropriate Time Plot and select Circular Chart for Plot Type.

3. Click OK. The Time Plot changes to a Circular Chart. Note that only a single range can be displayed on the scale with a circular chart (0-1000 in this example).

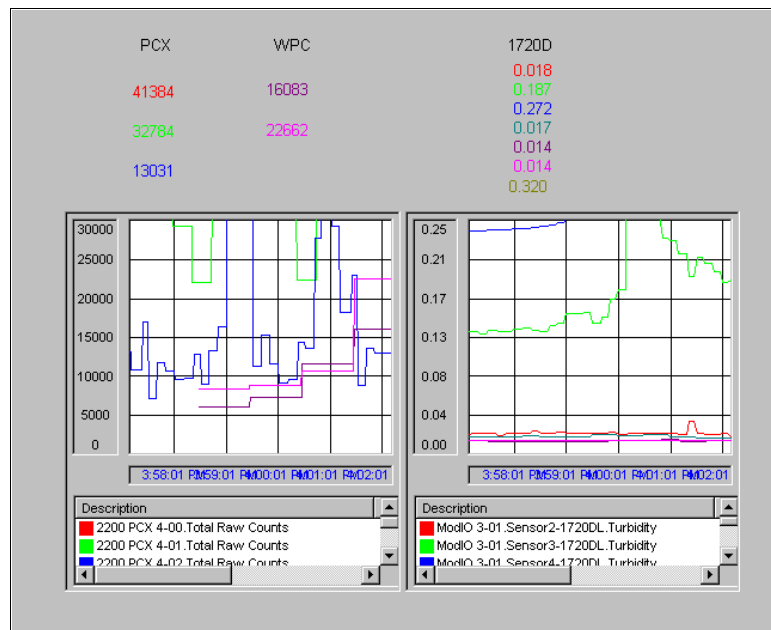# Creating and Using TrendWorX Time Plots with Hach's OPC Servers

Click the Runtime menu item (in the menu bar) to start the real time display.

Adding Additional Time Plots

Add additional Time Plots by clicking the TWXView32 ActiveX control button then repeating this procedure from Step 3 on page 2. The image below shows that any combination of Time Plots, Circular Charts, Bar Charts, etc., can be added to a single GraphWorX screen.

For more information, visit our AquaTrend® Technical Information site at:

http://www.aquatrend.com