

Description: Guide to configure and run the TrendWorX32 SQL Data Logger.

OS Requirement: Win 2000 Pro/Server, XP Pro, Server 2003

General Requirement: N/A

Introduction

The TrendWorX32 product collects process data and logs this into standard databases (Access, MSDE, MS-SQL, Oracle, etc.). The SQL Data Logger is an OPC Data Access, collecting data from the DA server according to your customized logger configuration. Once there is data, it acts as an OPC HDA server, which can return logged data for reporting purposes or for live presentation on the screen.

Configuring the Trend Logger

1. Start the TrendWorX32 Configurator by clicking on Start → Programs → ICONICS GENESIS32 → TrendWorX32 → TrendWorX32 Configurator
2. Select File → New and specify a name for your new logging configuration database.
3. Right-click on Configurations in the tree control and select New.
4. Type in a name for your new configuration (we will refer to it as myConfiguration) and click on Apply.
5. Right-click myConfiguration in the tree control and select New → Database Group
6. Give your database group a name (we will refer to it as myDB) and click on the  button to make an ODBC connection.
7. Select the tab Machine Data Source tab
8. Click on the “New...” button
9. Select System Data Source and click on “Next”
10. Select Microsoft Access (*.mdb) driver and click on “Next” and then click on “Finish”
11. Give your data source a name (we will use myTrendData)
12. Click on the “Create...” button
13. Give your logging database a name (we will use myTrendData.MDB), select where your data base should reside, and click on “OK”

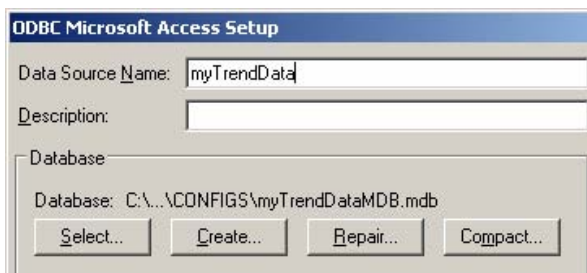


Figure 1 - Creating an ODBC Data Source and Access Database

14. You will get a message confirming that your logging database is created successfully.
15. Click on “OK” a few times until you’re back in the select Data Source dialog. Make sure the data source that you have just created is highlighted and then click on “OK”
16. You will receive a log in message, leave everything blank and click on “OK”
17. Click on the “Apply” to save your changes.
18. Right-click on myDB in the tree control and select New → Logging Group
19. Give your logging group a name (we will use Pump) and click on the “Apply” button
20. Right-click on Pump in the tree control and select New → OPC Tags...
21. Select one or more OPC Data Access Tags using the OPC Browser and click on “OK”

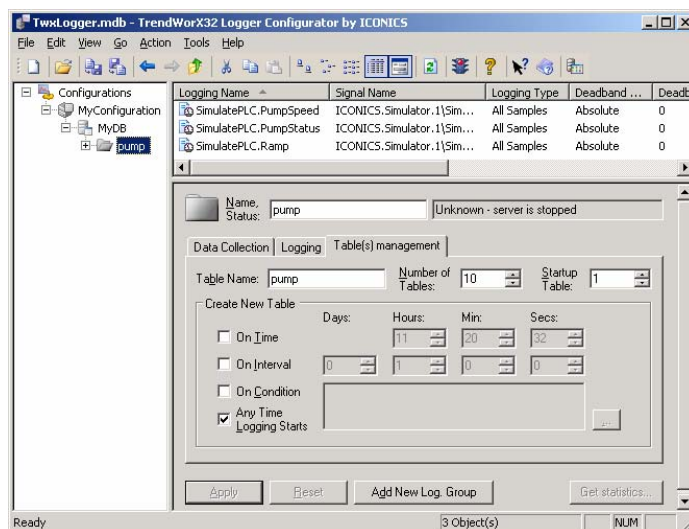


Figure 2 - Complete Configuration with OPC Tags

22. Feel free to select the Data Collection, Logging and Table Management Tabs in order to change your collection and logging preferences
23. Click on MyConfiguration in the tree control and select the Make Active button in the “control board”
24. Select File → Exit from the menu; the configuration is complete.

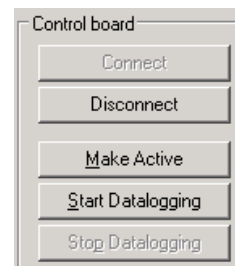


Figure 3 - Configuration Needs to be Activated

Starting the Trend Logger

1. Click on Start → Programs → ICONICS Tools → Genesis32 Tray
2. Click on the pink GenTray icon in the bottom of your screen, next to the windows time
3. Select TrendWorX32 → SQL Server → Start

Viewing Trend Data

1. Start GraphWorX32 by going to Start → Programs → ICOINCS GENESIS32 → GraphWorX32 → GraphWorX32
2. Add a Trend Viewer ActiveX to the display from the ActiveX Toolbar by click on the TrendViewer  button.
3. Double Click the Trend ActiveX to bring up the properties inspector
4. Select the Pens tab, and select Tags Menu... → History Tag and Browse to the trend tags.

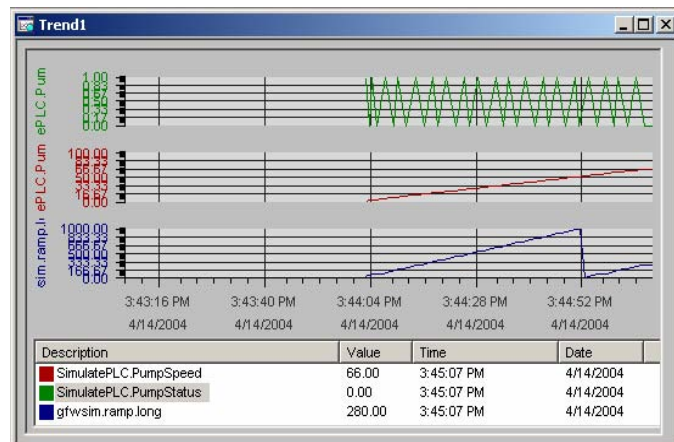


Figure 5 - Trend Viewer in Runtime

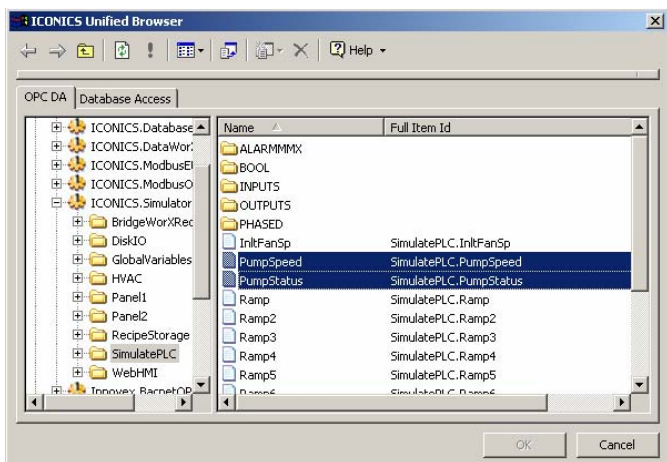


Figure 4 - Unified Data Browser

5. Select the pens that you have added to your configuration in step 21 of Configuring the Trend Logger and click on “OK”
6. Start GraphWorX32 Runtime