

Description: Guide to configuring and running the Modbus OPC Server 2.x
OS Requirement: Win 2000 Pro/Server, XP Pro, Server 2003
General Requirement: N/A

Capabilities

The Modbus OPC Servers allows you to configure OPC Tags that acquire process data from Modbus compliant devices. The device has many features including RTU and ASCII Serial communication supports, tag multiplier, simulating process data, and much more.

This document will guide you through the steps of configuring your Modbus 2.x server.

Goal

1. Start the Modbus Configurator by going to Start → Programs → ICONICS Modbus OPC Server

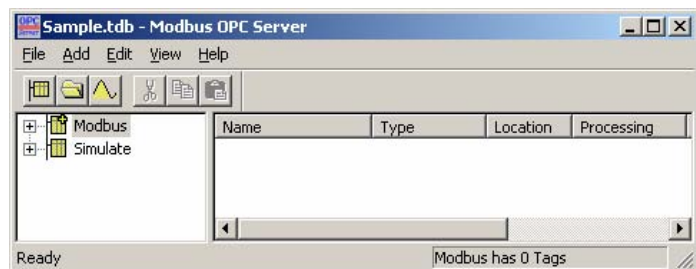


Figure 1 - Modbus OPC Server Configurator

2. Select File → New from the menu to create a new configuration.
3. Select File → Save As and specify a name for your configuration file. We will refer to this as MyModbus.tdb in this example.
4. Select Add → New Device... and give your device a name. We will call it PLC in this example.
5. Specify the Comm port to which the Modbus Device is connected.
6. Specify the Node Address of your Modbus device.

NOTE: You could check Simulate I/O if you do not have a device to connect to yet.

7. You can leave the Device Type as ModBus and click on “OK”

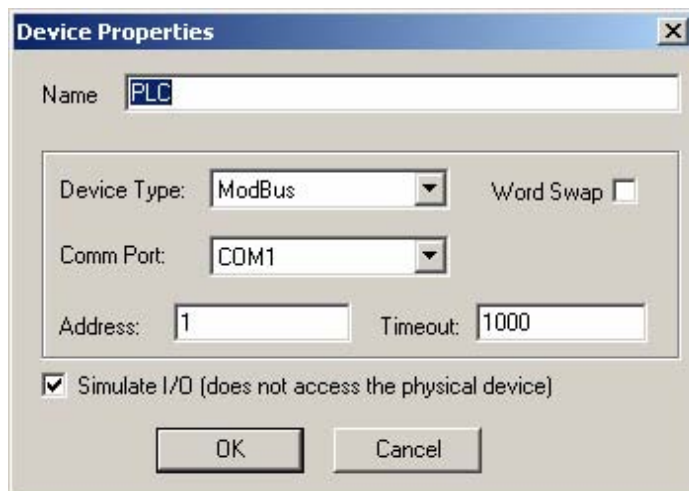


Figure 2 - Device Properties

8. Right-click on the device that you have just created and select New → Group...
9. Give the Group a name and click on “OK”. We will refer to this group as Boiler.



Figure 3 - Group Properties

10. Right-click on the group that you have just created, and select New → Data Tag...
11. Give the tag a name and configure the tag with its properties. You can configure your tag similar to the properties shown in Figure 4.

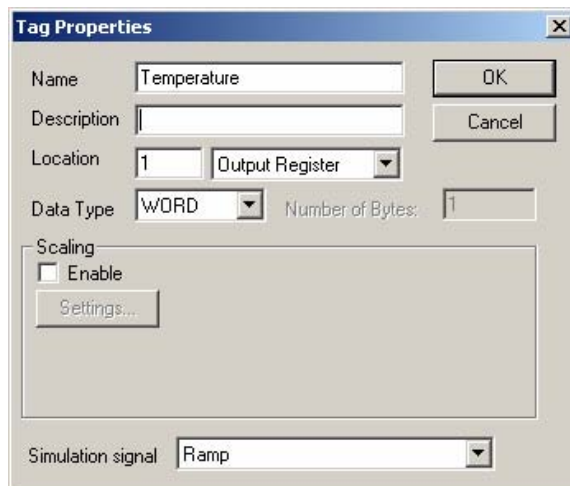


Figure 4 – Temperature Tag Properties

- NOTE:** You can find more information about individual tag properties in the help file
12. Click on “OK” when you are done.
 13. Create another tag by Right-clicking on the group and selecting New → Data tag...
 14. Give the tag a name and configure the tag with its properties. You can configure your tag similar to the properties shown in Figure 5.

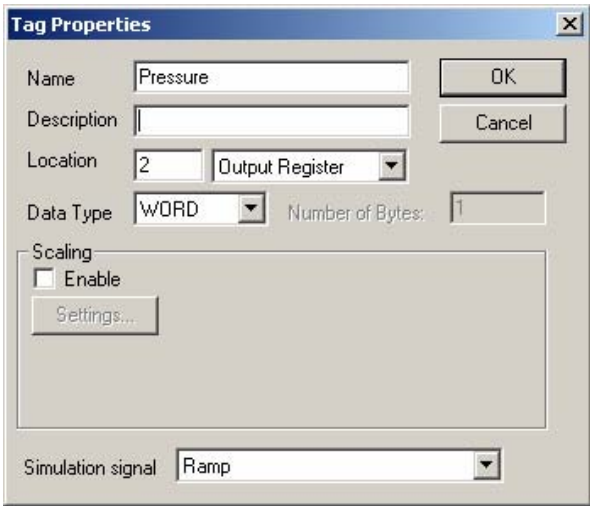


Figure 5 - Pressure Tag Properties

15. Click on “OK” when you are done.

Comm Port Settings

1. Select Edit → Ports... from the menu and specify the correct settings for the communication with your Modbus Device.

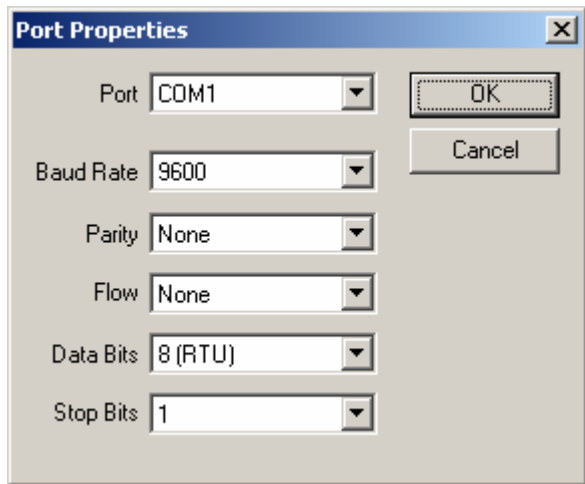


Figure 6 - Comm Port Settings

- NOTE:** These settings must match the setting of your Modbus Device.
2. Select File → Save from the menu.
 3. Select View → Monitor to see live Values.

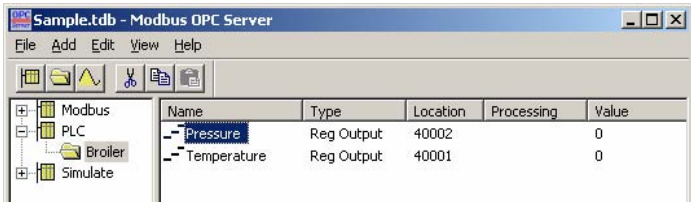


Figure 7 - Monitoring Live Process Data

4. You can exit the configurator now.
5. Any OPC Client can now browse to our OPC tags in the Modbus OPC Server using the Unified Data Browser.