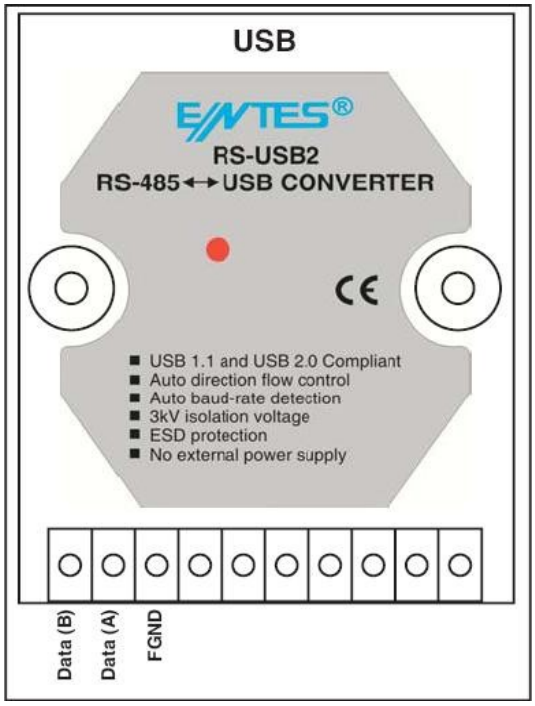
Monitoring & Configuring ENTES serial devices by RS-USB2 Converter



RS-USB2 is a serial converter which is used for ENTES serial communication through MODBUS line.

In order to use this converter,
It must be connected between PC and install its driver. (Driver files are included to CD in package)

What do we need to use this converter?

1-) USB cable for monitoring. (Included in package)
2-) Modbus line (ie. 4x0,5 LIYCY)
3-) RS-USB2 Converter
4-) ENTES serial device.

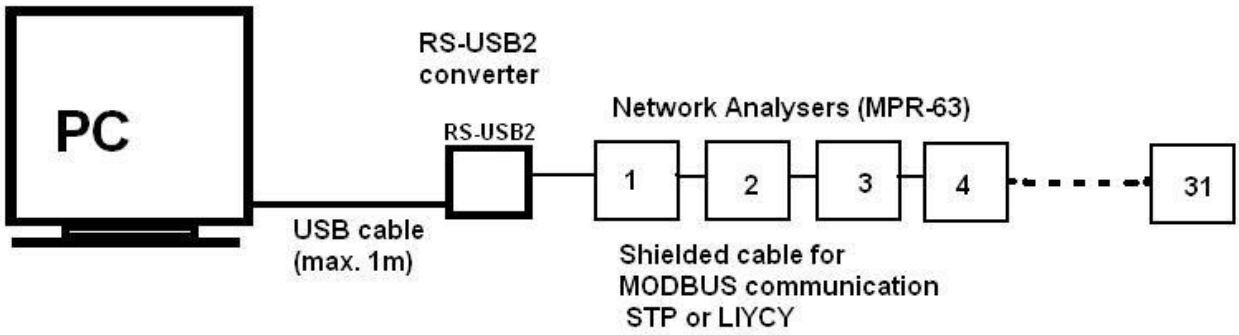
Modbus Line:

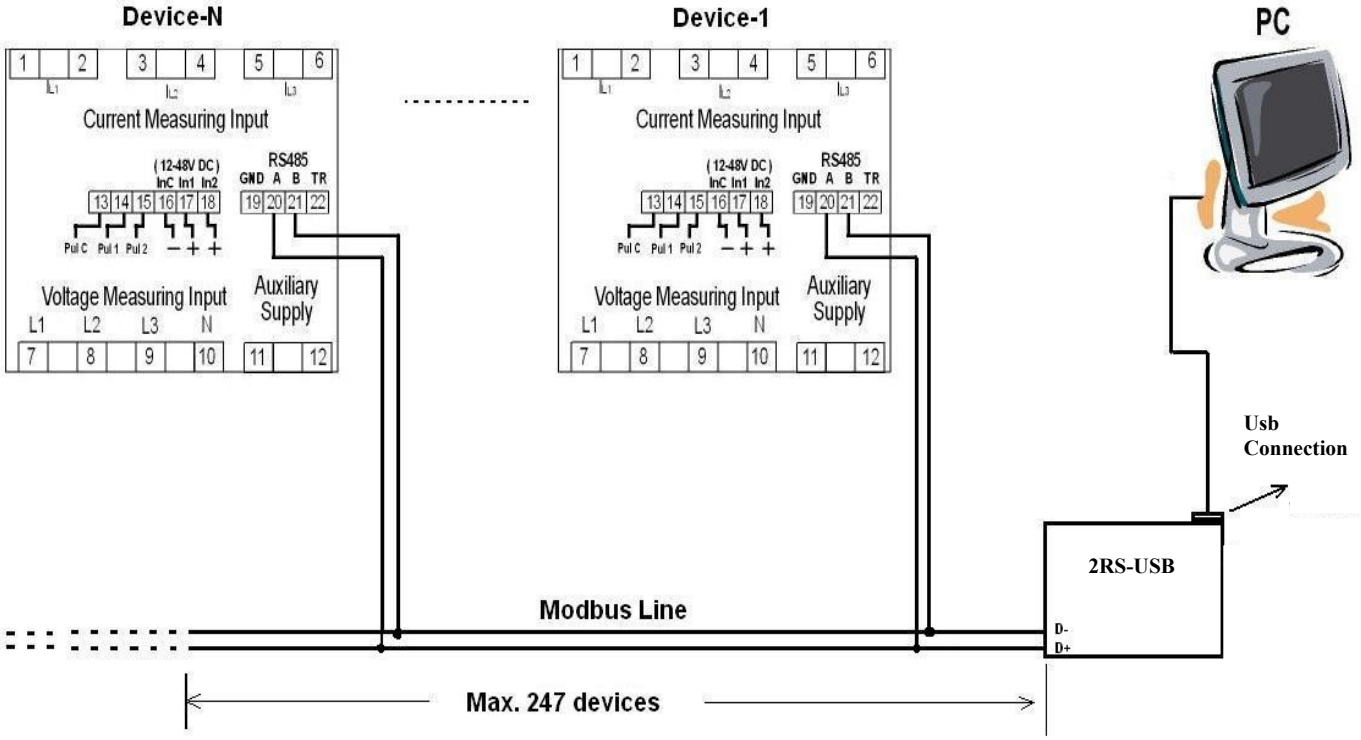
Modbus line is a Shielded type twisted-pair cable.(ie. 4x0,5 LIYCY)
Most of industrial serial devices use modbus protocol for long-distance communication

USB cable:

USB cable is used for monitoring of devices, and it will be connected between PC and RS-USB2. See Diagram in next page.
This cable is inside the package.

Below wiring explains how RS-USB2 is used for RS-485 communication.





In all Windows Operating Systems, there will be a "Found New Hardware" wizard in case of connecting a serial device to the PC.
This wizard will prompt the user in order to install the drivers of this new hardware.

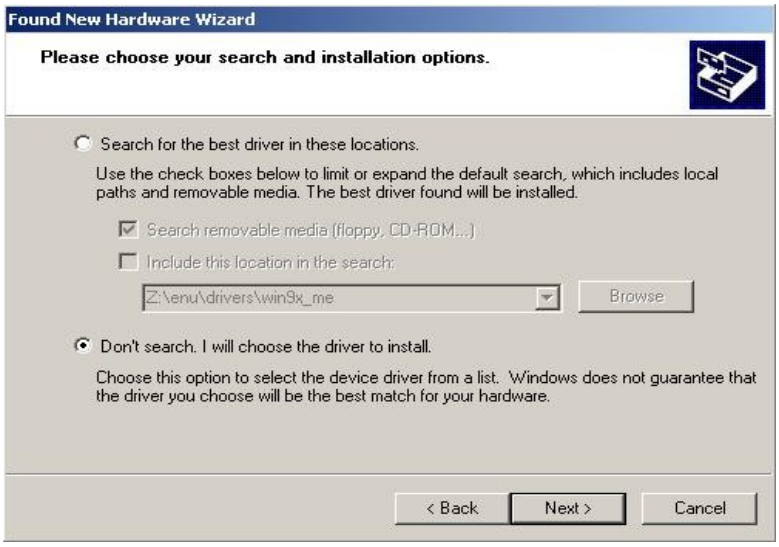
At the being of starting the RS-USB2 communication via USB port, it is a must for installing the drivers, which included in CD, before using of device.

In order to install the drivers:

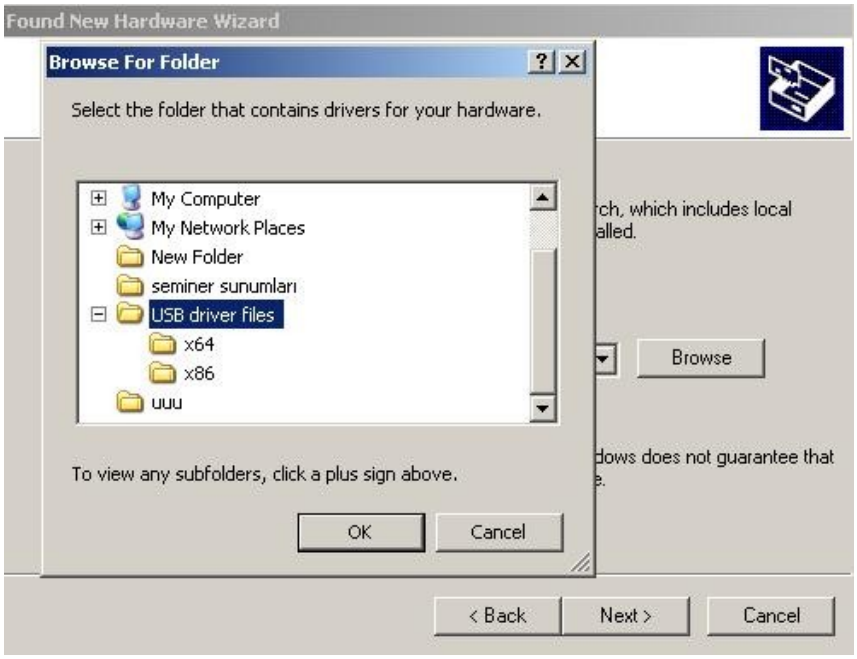
- Connect the device to the USB port. POWER Led is lighted and device will recognized automatically

As soon as the RS-SB2 cable is connected to PC, below screen will be displayed.

- Define the Drivers' location on "dialog window" then click on "next".



- Click on "Ok" button where the driver folder is located, and then click OK.



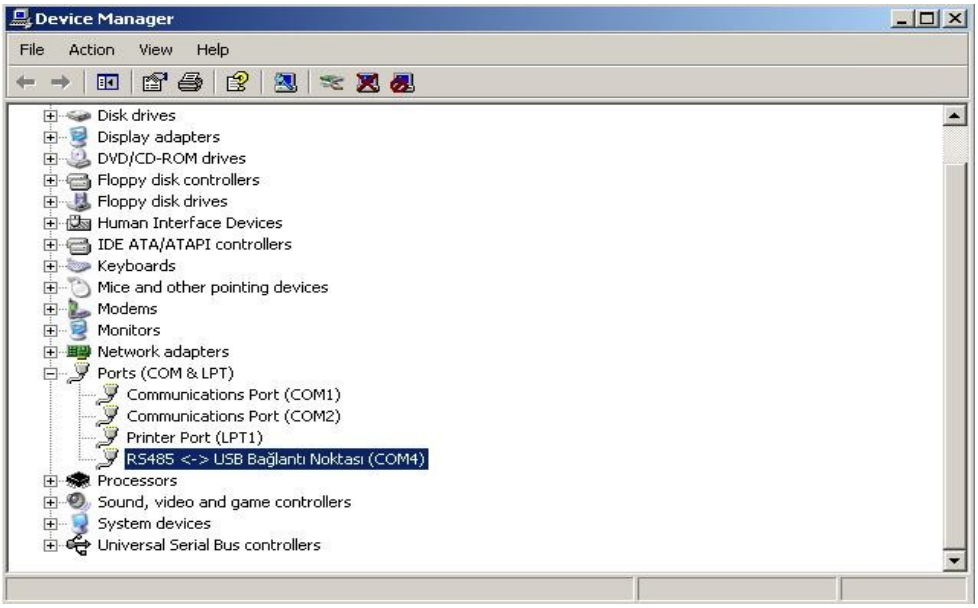
- Computer will save the files .

Copying progress for required files are completed at this time of installation.

After the installation is completed, You can see the device as browsing the Driver's location:
MyComputer/properties/Hardware/Device Manager/Com Port

In this example COM4 will be used as the Comp Port of RS-USB2 communication.

Device Manager screen:



! Important :

High Com port values may cause a communication failure.

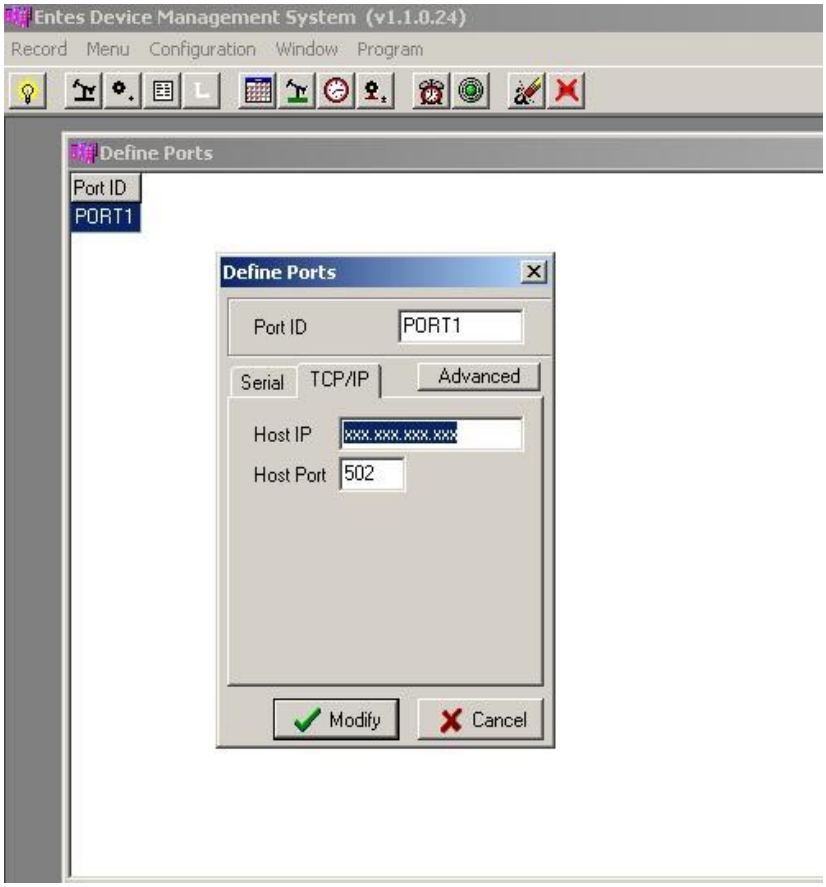
For exmp. If the system has detected the connected usb port as “13” (RS485<->USB Bridge Point (COM13)) , then system may face some unexpected failures which is hard to understand. It might be replaced with 5 , 6 etc..

In application, a high comport value , which is greater than 7, cause to communication failure. And this failure is impossible to detect by the users.

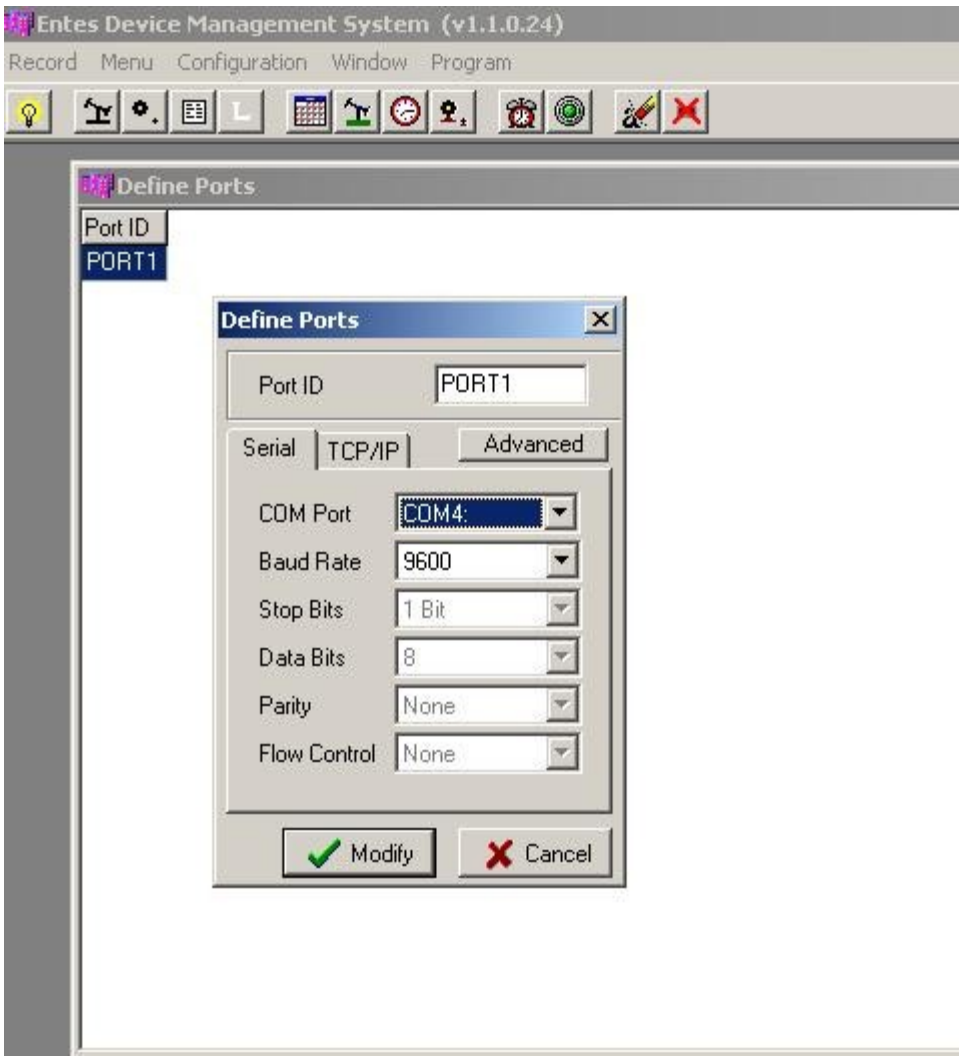
Conclusion:

After this installation has completed,RS-USB2 would be ready for remote monitoring.
Current "ComPort" number and "Baud Rate" will be enough for monitoring the ENTES serial devices by **MPR-SW** software**.**

MPR-SW screen:



(*) We can reach Define Ports menu which seems above from MPR-SW's Configuration menu


Entes Device Management System (v1.1.0.24)
Record Menu Configuration Window Program
Define Ports
Port ID
PORT1
Define Ports
Port ID
PORT1
Serial
TCP/IP
Advanced
COM Port
COM4:
Baud Rate
9600
Stop Bits
1 Bit
Data Bits
8
Parity
None
Flow Control
None
Modify
Cancel