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".

lease cho	ose your search and installation options.	100
C Sear	ch for the best driver in these locations.	
Use t paths	ne check boxes below to limit or expand the default search, which includes loca and removable media. The best driver found will be installed.	al
17	Search removable media (floppy, CD-ROM)	
Г	Include this location in the search:	
	Z:\enu\drivers\win9x_me Browse	
On'	t search. I will choose the driver to install.	
Choo	se this option to select the device driver from a list. Windows does not guarante	ee t
the d	iver you choose will be the best match for your hardware.	
	(Paok Nouth Com	han

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

Select the folder that contains drivers for your har	dware.	N.
 My Computer My Network Places New Folder seminer sunumlari USB driver files x64 x86 		rch, which includes local alled.
To view any subfolders, click a plus sign above.	ancel	dows does not guarantee 3.

• Computer will save the files .

Found New Hardware Wizard	and the second	
Please wait while the wizard installs t	he software	>
EMG10 ETHERNET MODBUS	S GATEWAY	
SiLib.sys To C:\WINDOWS\System	n32\Drivers	
	Kext Next Cancel	

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: <u>MyComputer/properties/Hardware/Device Manager/Com Port</u>

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:

Record Menu Config	agement System (v1.1.0.24) uration Window Program
Port ID PORT1	S Define Ports
	Port ID PORT1
	Serial TCP/IP Advanced Host IP XXX XXX XXX Host Port 502
	Modify X Cancel

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

Record Menu Con	nagement System (v1.1.0.24) figuration Window Program
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 X Cancel