CNV 200
USB to RS485 Interface Converter

User's Manual

Introduction

The CNV 200 module is a cost-effective way to convert RS485 industrial buses to a USB Interface. When connected to a PC USB port the CNV 200 module is automatically detected and is installed as a native COM port which is compatible with any existing serial communication application. Multiple modules can be installed when using USB hubs thus allowing a hassle-free configuration of a multi serial system without any IRQ or DMA configuration. They have 600W protect between the USB port and RS485 protects the PC from spikes or possible misconnections in the communication bus.

Features

The CNV 200 converter can be configured for GR485 two-wire (Half Duplex) networks. When operating in two-wire RS 485 the data transfer control is automatically done by the converter. Two independent and RS485 networks can be supported by one CNV 200 module thus duplicating the possible number of remote devices.

- Computer interface: USB V1.1 2.0 Plug and Play
- Operational system virtual serial port driver
- Supports Windows 98/Me/XP/200/CE, MAC&Linux 2.4.20 or superior
- Field Interfaces: Rs-485 Half Duplex (dual buses)
- Automatic flow control for RS485 Half Duplex
- Transmission rate: from 300 bps to 1Mbps
- Maximum Rs-485 cable length: 1200 m
- Maximum number of devices in Rs485 network: Half duplex to 32 devices
- Power: from the USB port
- Consumption: <100 mA
- RS-485 bus protection : 600 W
- USB connection: Mini-B connector.100 cm cable with the module
- Rs-485 connector: DB9M or RJ-45 type accepting
- ABS enclosure: 67 x 30 x 24 mm (not include cable)
- Operating environment: 0 to 70 °C, 10 to 90%relative humidity, non-condensing.

Wiring Configuration

The RS-485 termination of the interface is implemented as a DB9 plug. The pin assignment for the connector can be found in the following table as well as on the sticker applied to the unit.

RS 485 Pinout

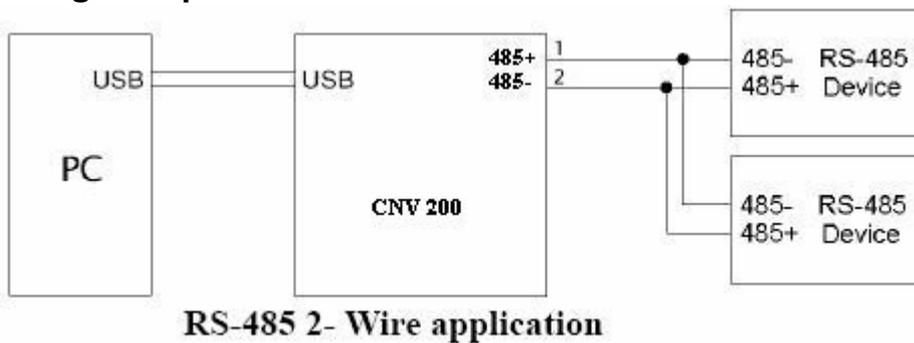| PIN#	RS-485
1	485+
2	485-

PIN 1

LED Indication
Red LED------ Data Sending from USB port to RS-485 Serial port side
Green LED---- Data Receiving from RS-485 Serial port side to USB port

## Wiring examples

RS-485 2- Wire application

Driver Installation
Follow the steps below to install driver of USB-High speed Serial Converter:
1. Power on your computer and make sure that the USB port is enabled and working properly.
2. Plug in the USB-High Speed Serial Converter into the USB port and run the Add New Hardware wizard to assist you in setting up the new device. Click Next to continue.
3. Insert the USB-HS Serial Converter software driver into the CD-ROM drive and click Next to continue. Search for the best driver for your device and click to search driver from the floppy drive D;/DRIVER/For Windows XP
4. Windows will detect the driver (FTDIBUS.INF) and shows the USB-HS SERIAL CONVERTER. Click Next to continue installation.
5. Click Next continue and let Windows copy the needed files to your hard disk.
6. When Windows finished installing the software required for the new USB to Serial Cable, click Finish.
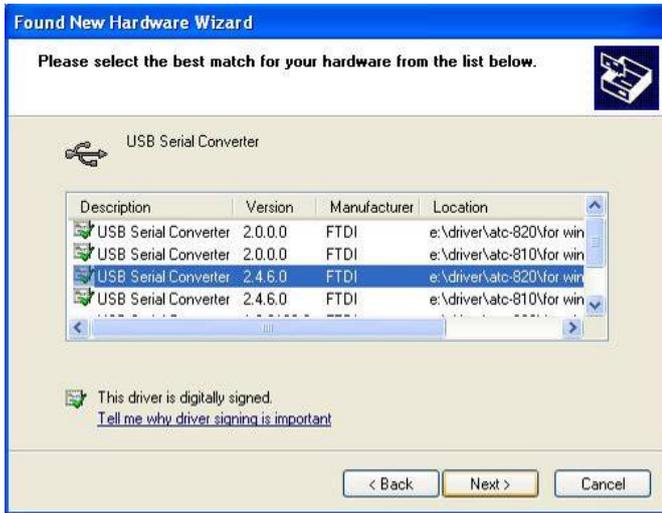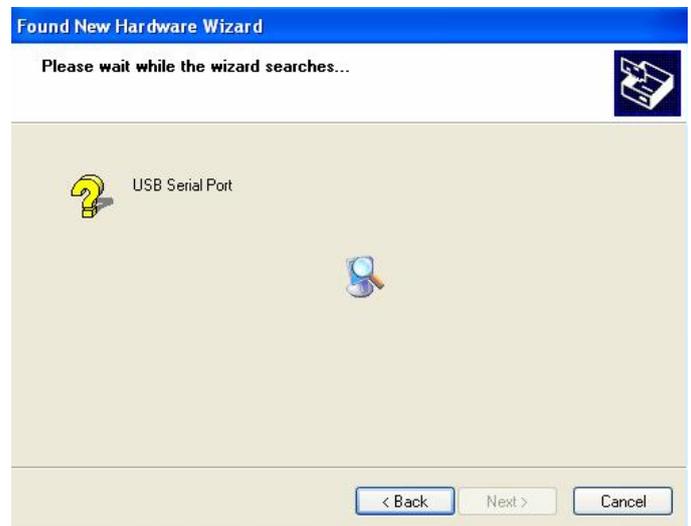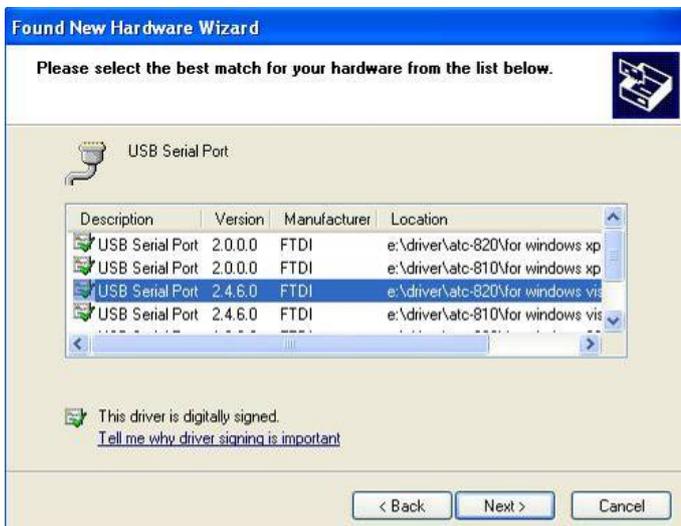
With this the USB Converter is installed and the installation will continue with installing USB serial Port.
Note: In windows Vista the drivers should be found automatically.

Setting up the USB Serial Port

The new install serial Com port can be seen in: Start/Settings/Control Panel/System/Hardware/device manager

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