

## USB to RS422/RS485 CONVERTER

The USB-RS422/RS485 Converter is an intelligent module which connects to a PC Universal Serial Bus port providing a high-speed asynchronous RS422/RS485 serial port. The USB-RS422/RS-485 Converter provides easy connectivity between the PC and standard communication ports, not requiring PC reconfiguration, assignment of IRQs or jumper settings.

### SYSTEM REQUIREMENTS

- A PC with a 75MHz Pentium minimum
- A minimum of 16M bytes of RAM
- One available USB type port compliant with USB1.1
- Windows 98 or later

### CONNECTIONS TO SYSTEM

The USB-RS422/RS485 Converter is equipped with a USB cable and a USB type A connector for connection to a PC USB port and a male DB-9 for connection to a RS422/RS485 equipped data or communication terminal.

### INDICATORS

One two-color LED indicator displays transmission of data (green) or reception of data (orange) of the serial port.

### INSTALLING THE USB-RS422/RS485 CONVERTER

Note: The RS422/RS485 terminal should not be connected to the converter before the converter drivers are installed

1. Power on your computer. Verify the USB port is enabled. Insert the floppy disc or CD containing the software for the USB-RS422/RS485 Converter.
2. Connect the cable of the converter to the USB port of the PC. (The USB-RS422/RS485 Converter is hot-pluggable.)
3. Windows will detect the USB-RS422/RS485 device. Install the driver as described in the next section.

### DRIVER INSTALLATION

1. The display "Add New Hardware Wizard" will come up. Click "Next". Click: "Search for the best driver..."
2. Select: "Specify a location" and specify the drive letter for the CDROM or floppy drive where you have inserted the software. Click: "Next" to start search.
3. Click "Next" to continue.
4. Click "Finish". At this point Windows has finished installing the USB-to RS-422/RS-485 Converter driver.
5. The USB-RS422/RS485 is detected. Click "Next" to continue.
6. Connect the RS422/RS485 communication terminal to the USB-RS422/RS485 converter.
7. Click on **Start, Settings**, and **Control Panel**. Double click **System** and click on **Device Manager**. Verify the USB-RS422/RS485 Converter is listed in the list of COM PORTS as "USB to Serial Adapter"
8. Installation is complete. The PORTS section of Device Manager mentioned in step 7 shows the new COM port number, following the "USB to Serial Adapter:"

## SPECIFICATIONS

Communication speed	1200-115200 Baud.
Power consumption	50mA @5volt (power provided by the PC's USB port.)
Temperature Range	0°C to 50°C.
Humidity Range	10 to 90% R.H. Non-condensing.
Modes of Operation	RS-422, RS-485 Full duplex, RS-485 Half duplex (2-wire). For RS-485 2-wire operation (Half Duplex) connections between +Tx and +Rx and between -Tx and -Rx have to be made in the external cable.
Termination	None
Bias	4.7K resistors as pull-up/pull-down TRx+ and TRx- respectively.

## INTERFACE CONNECTOR: DB-9, Male

### PIN ASSIGNMENTS:

PIN#	SIGNAL
1	-Rx
2	+Tx
3	-Tx
4	NC
5	GND
6	NC
7	NC
8	NC
9	+Rx

## UNINSTALLING THE USB-RS422/RS485 CONVERTER

1. Unplug the USB-RS422/RS485 Converter.
2. Insert the converter software diskette or CD.
3. Run the FTDIUNIN.EXE program from the diskette and reboot the PC.