

## USB-RS485 Converter

### User's Manual

( M 9812260103 / 06A )

(c) CIRCUTOR S.A.

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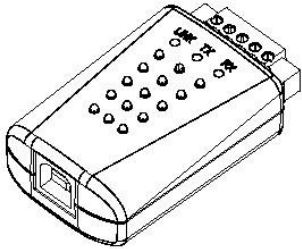




FCC COMPLIANCE STATEMENT

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communication.

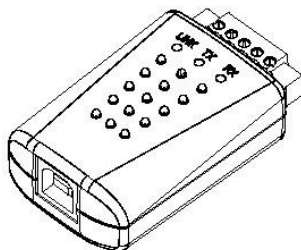
Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

1.- Information

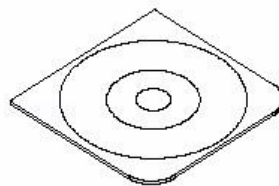
USB-RS422/485 Converter

MACHINE TYPE	FUNCTION
 <p data-bbox="406 1512 606 1545">USB-RS422/485</p>	<div style="display: flex; flex-wrap: wrap; justify-content: space-around;"> <div style="border: 1px solid black; padding: 5px; margin: 5px;"> <p data-bbox="901 1254 1045 1288">USB Ver 2.0</p>  </div> <div style="border: 1px solid black; padding: 5px; margin: 5px;"> <p data-bbox="1133 1254 1292 1288">Multiple Port</p>  </div> <div style="border: 1px solid black; padding: 5px; margin: 5px;"> <p data-bbox="893 1422 1053 1478">LED STATUS</p>  </div> <div style="border: 1px solid black; padding: 5px; margin: 5px;"> <p data-bbox="1125 1422 1300 1456">RS-422A/485A</p>  </div> </div>

Standard Package

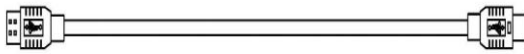


Main Unit



Driver CD

(USB-RS422/485)



USB Cable

## 2.- Installation

### Driver software installation

1. Connect USB-RS422/485 converter into the USB port of your computer first.
2. Put disk drivers into the CD-ROM disk drive of your computer.
3. You will need to install the said disk by twice operations.
4. What do you want Windows to do?



5. Select Searching locations for new driver



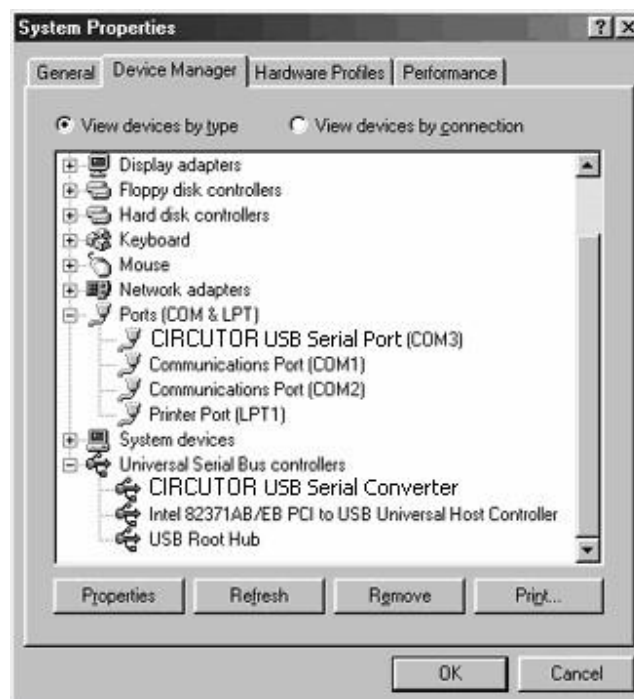
6. Windows is now ready to install the best driver



7. Windows has finished installing the software



8. Make sure if the driver software installation is finished  
Connect converter into the USB port of the computer and then Click  
"Start" ->"Settings" -> "Control Panel" -> "System" ->"Device Manager" to see if there are  
"CIRCUTOR USB Serial Converter" at "Universal Serial Bus controllers" and "CIRCUTOR USB  
Serial Port" at Ports.



### 3.- Remove driver software

1. Put drivers disk into the CD-ROM disk drive of the computer and find FTDIUNIN.EXE.
2. Execute FTDIUNIN.EXE program.



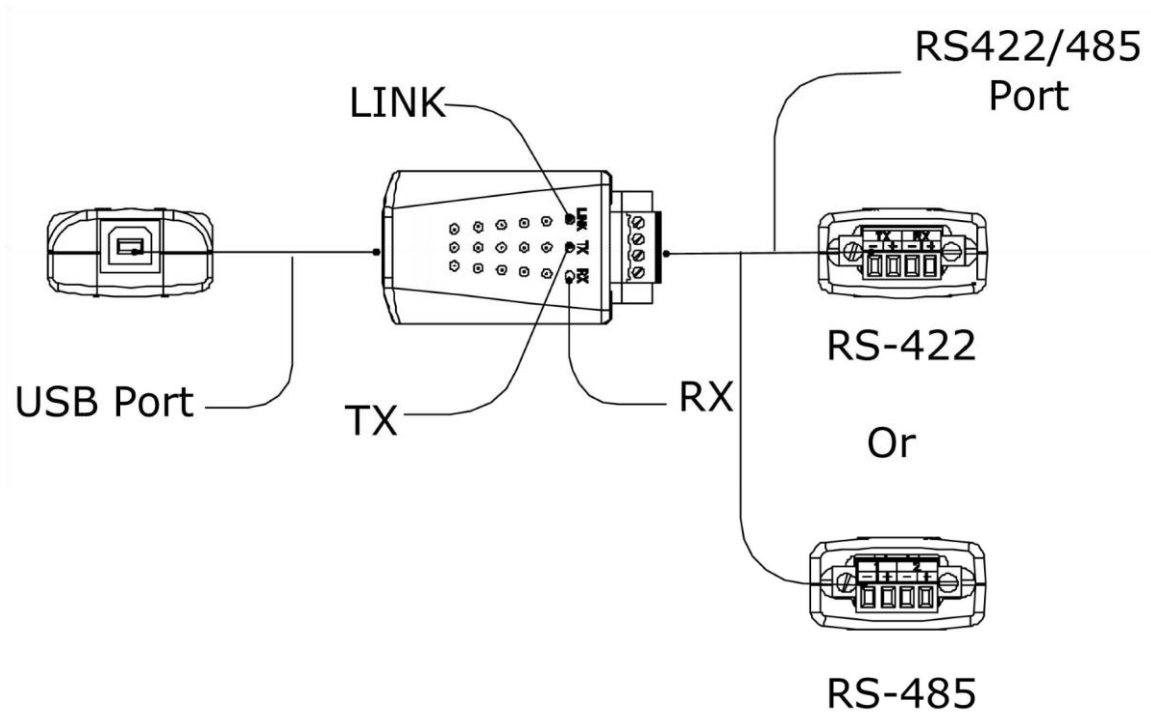
3. Unplug CRS-USB485 converter, continue to uninstall the drivers.





#### 4.- Technical and operational description

Front panel of USB-RS422/485



Remark: One USB-RS485 converter can be used for two unit of RS-485 devices.

connecting

#### Operation of USB-RS422/485 converters

RS422/485: Connecting with the terminal device, which is equipped with RS422/485 interface.

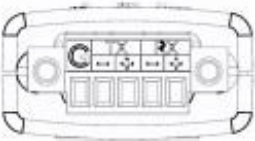
USB: Connecting with the computer USB port or Hub.

LINK: LINK LED turns on when the USB-RS422/485 unit is ready for use.

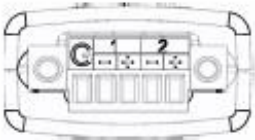
TX: TX LED turns on when the data is sending from USB port to RS422/485 device.

RX: RX LED turns on when the data is sending from RS422/485 device to USB port.

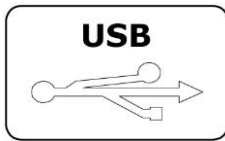
### RS-422 PIN FUNCTION

	PI I		DESCRIPTION
	Tx	-	RS-422 Tx -
		+	RS-422 Tx +
	Rx	-	RS-422 Rx -
		+	RS-422 Rx +
G		SHIELD	

### RS-485 PIN FUNCTION

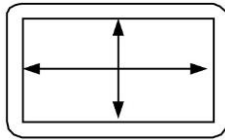
	PI I		DESCRIPTION
	1	-	RS-485 -
		+	RS-485 +
	2	-	RS-485 -
		+	RS-485 +
G		SHIELD	

## 5.- Specifications



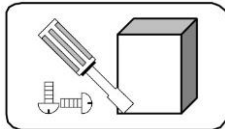
#### USB Interface

Full compliance with the USB specification v1.1 and v2.0



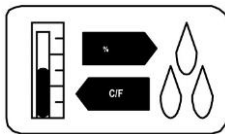
#### Dimensions

D 18.8 x W 35 x H 56 mm



#### Mounting

Any surface



#### Environment

Operating temperature: 0 °C to +55 °C

Storage temperature: -10 °C to +55 °C

Humidity: 10% ~ 90% relative

## 6.- Notes

- Do not disconnect the converter during running your application program to avoid any unexpected problem.
- The driver software provides maximum 8 converters to be used for multiple device communication. The addresses of the multiple devices are according to the serial port addresses of the PC or the addresses of the port HUB USB where the devices are connected.
- The converter does not work with DOS system. Only Win98/2000/Me support USB.
- You must connect the converter into the USB port of your computer before you start driver software installation.
- After the converter is connected into USB port of the computer which is with the driver software installed, LINK LED will turn on to be ready for use, otherwise unplug the converter and try again after 5 seconds or longer.