MICRO-EPSILON

Assembly Instructions IF2001/USB

1-Channel RS422/USB Converter

Measurement assembly for sensors of ILD 1320 / 1402 / 1420 / 1700 / 2300

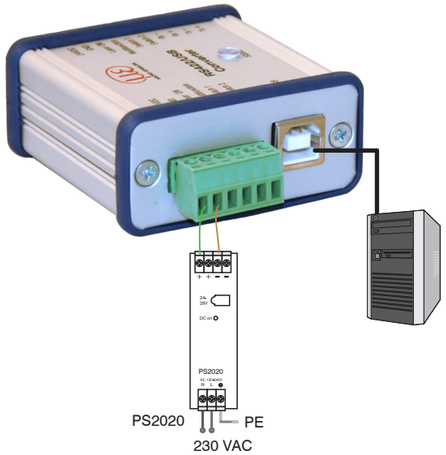


Fig. 1 Connections for supply/control

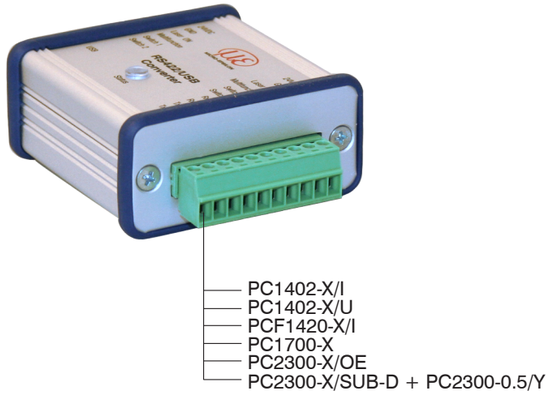
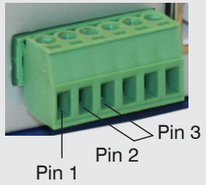


Fig. 2 Connection for sensor

- Connect the converter to a power supply, for example PS2020.
- Connect the converter to a free USB interface to start the driver installation. You will find the driver on the delivered CD.

RS422 Connections to 6-pin. terminal

Pin	Function
1	+24 VDC
2	GND
3	Laser on
4	Functional input / output
5	Sensor switch 1
6	Sensor switch 2



- Connect Pin 2 with Pin 3 to activate the laser light source in the sensor permanently.

Power Supply

Nominal value: 24 V DC

- Switch on the power supply unit, once wiring is completed.
- Connect the 24 VDC and GND inputs at the converter with a 24 V voltage supply.

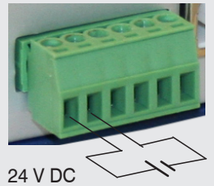
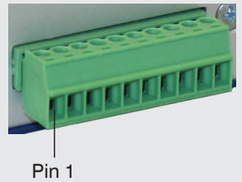


Fig. 3 Connector supply voltage

i Use the supply voltage for measurement instruments only and not for drive units or similar sources of pulse interference at the same time. MICRO-EPSILON recommends using an optional available power supply unit PS2020 for the converter.

RS422 Connections to 10-pin. terminal

Pin	Assignment	ILD 1402 PC1401-x	ILD 1320/1420 PCF1420-x	ILD 1700 PC1700	ILD 2300 PC2300/OE PC2300-0.5/Y
1	Converter TxD+	green	green	gray	blue
2	Converter TxD-	yellow	yellow	yellow	red
3	Converter RxD+	gray	gray	green	black
4	Converter RxD-	pink	pink	brown	violet
5	Sensor switch 2	n.c.	n.c.	violet	-
6	Sensor switch 1	brown	brown	gray pink	-
7	Functional input / output	violet	violet	white green	-
8	Laser on	black	black	red blue	-
9	GND	blue	blue	black	brown
10	24 VDC	red	red	red	white



Installation USB Driver

- Insert the installation CD-ROM in the CD-ROM-drive.
- Connect the sensor to the USB converter. Connect the USB converter to a free USB port on a PC / notebook.
- Connect the converter to a power supply.

The driver installation starts automatically. Depending on the operating system the latest driver from the Internet or driver CD is used.

Windows 7

If you use a PC with Internet access, connect the converter to a free USB port. Windows 7 looks automatically for the latest driver version and installs the driver.

Manual Installation of Driver

You can also install the driver manually if the driver is not installed automatically.

Install the driver as follows:

- Load the CD in to the CD-ROM drives.
- Connect the sensor/controller with the USB converter.
- Connect the USB converter cable with a free USB port.
- Connect the converter with a power supply.
- Start the device manger, see Fig. 4, menu `Start > Control Panel > Device Manager`.
- Right-click the entry `USB Serial Port` and choose `Update Driver Software ...`

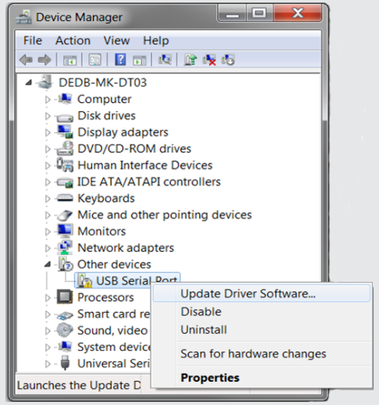
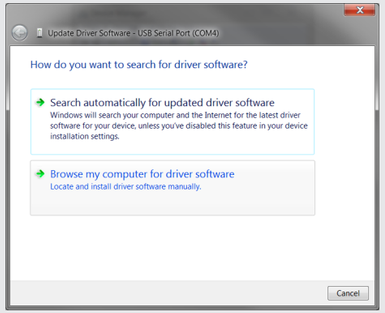


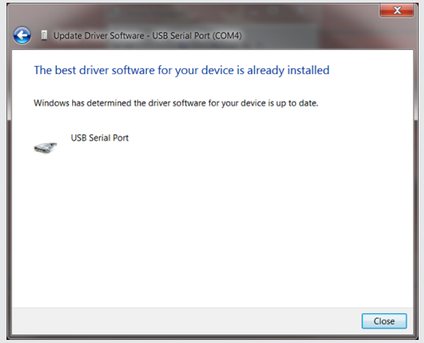
Fig. 4 View on Device Manager

- Let the computer search for driver software.



- Choose the path for the driver by means of `Browse ...`.
- Click on the button `Next`.

The routine now starts the installation of the driver.

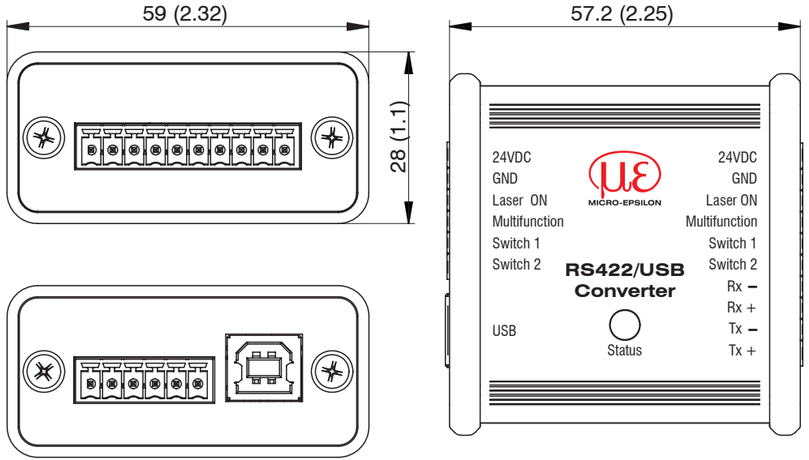


- Click on the button `Close`, to finish installation.

Another dialog `Changed system settings` appears. It asks if you want to restart the computer immediately.

- If you want to take over the changes later, click the button `No`.

Dimensional Drawing



Dimensions in mm (inches), not to scale

Unpacking

1 Converter IF2001/USB
1 USB cable
1 CD with driver, instruction manual

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