

# USB/SERIAL CONVERTER

## C.205 - C.206 - C.207

### 1.1. USB drivers set up

The present guide describes the procedure for the correct USB drivers set up for the USB/Serial converters **C.205 - C.206 - C.207**.

The procedure is applied to Windows® operative systems: 2000, Xp, Vista and Windows 7. It is not applicable to the previous version of the Windows operative systems.

**Do not connect the converter to the USB port before the set up of the drivers.**

**WARNING: WITH WINDOWS 7 OPERATING SYSTEM IT IS NECESSARY TO RESTART THE PC DISABLING THE DRIVERS SIGNATURE REQUEST.** When Windows restarts, press **F8** to display the "Advance Boot Options" menu, then select the "Disable Driver Signature Enforcement" option.

**WARNING: WITH 64-bit OPERATING SYSTEMS, EVEN AFTER INSTALLATION IT IS NECESSARY TO DISABLE THE DRIVERS SIGNATURE REQUEST EVERY TIME THE PC IS RESTARTED !** (see Note 4)

*Proceed as follows:*

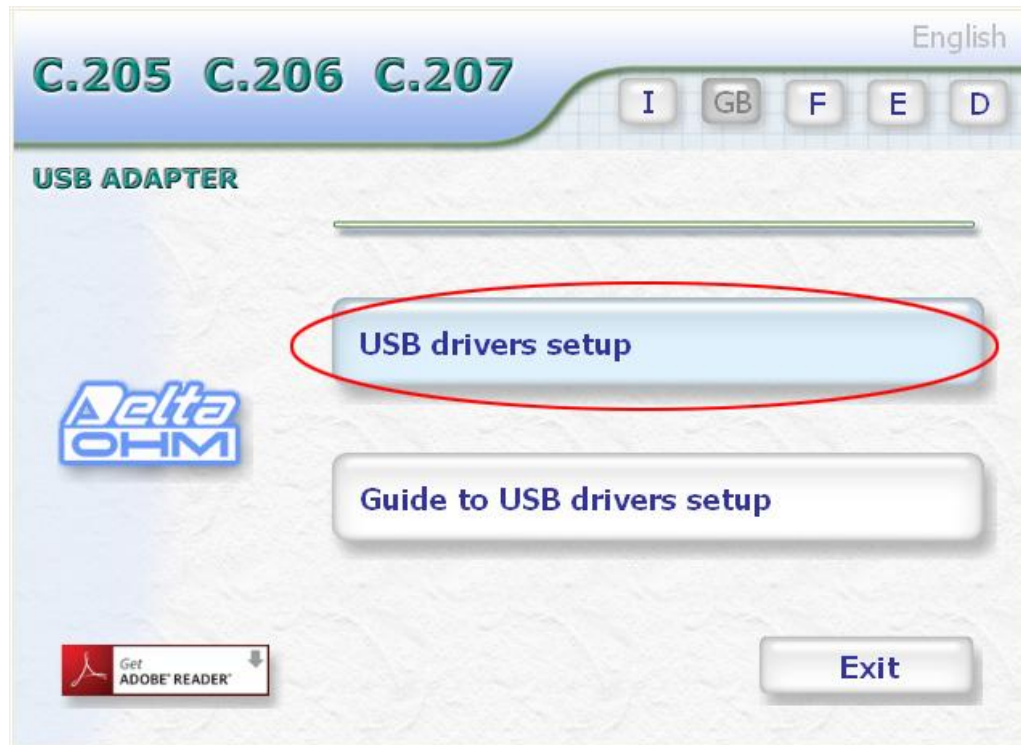
1. **Do not connect the converter to the USB port until it is clearly requested.**
2. Insert the CDRom containing the drivers and wait for the starting window to appear.

For Windows Vista and Windows 7 systems, the following window appears: select "Run autorun.exe" (See note 1).



The software starting window opens: if the operative system prevents the software to run, see "note 1" at paragraph 1.2.

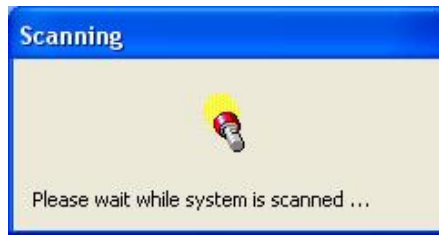
3. From the starting window of the software, click "*USB driver setup*" do to start the USB drivers set up.



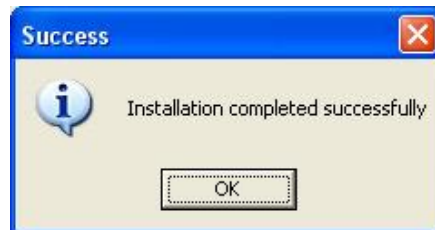
4. The following window appears and it shows the location where the you should install the files: we suggest not to change the location indicated. Press "Install" in order to proceed with the drivers set up:



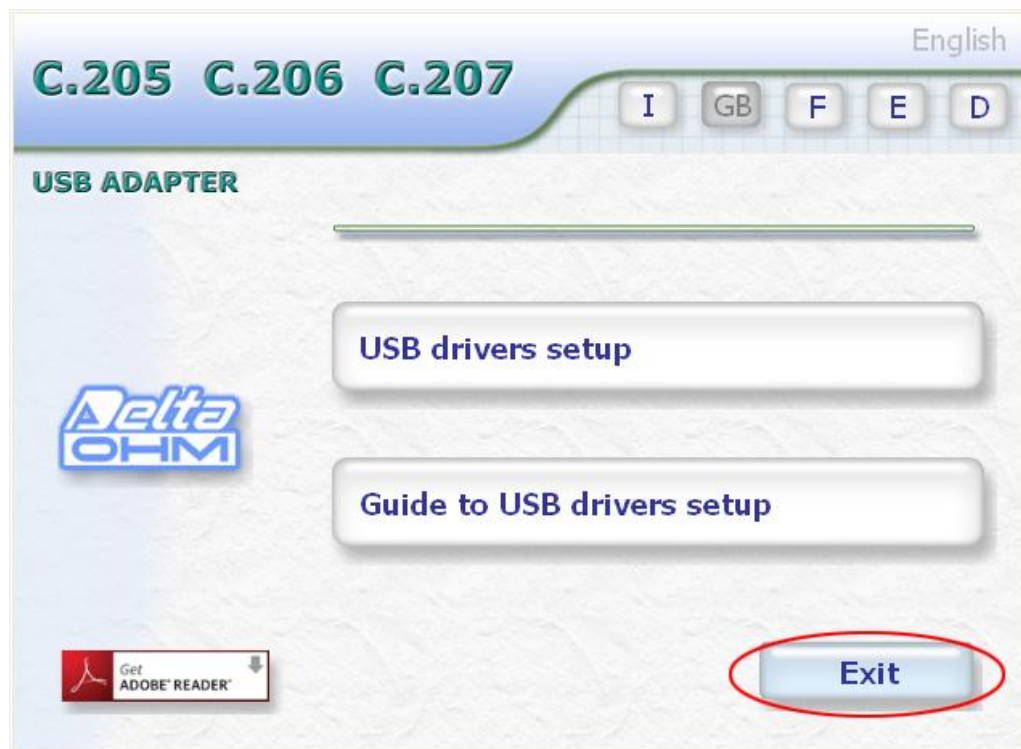
5. Wait while files are copied in the PC:



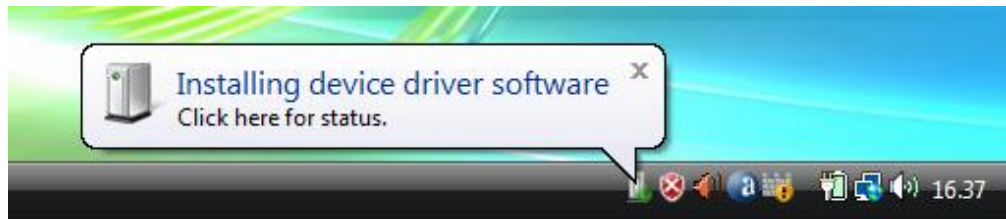
6. If the procedure has been followed carefully, the following window appear. Press OK.



7. If you started the set up by using the CDRom, you will display a message that invites you to connect the instrument to the USB port: press OK and close the software Delta Ohm by using EXIT.



8. **Connect the converter to the USB port:** when Windows recognizes the new device, you will see the indication that a new device has been found.



9. Wait for a few seconds until the message of a new hardware found ready for use appears:



If it is requested to restart the PC, remove the CDRom, disconnect the converter and restart.

10. The driver set up operation is now finished: the instrument will be automatically recognized at any future connection.

## 1.2. Note for set up

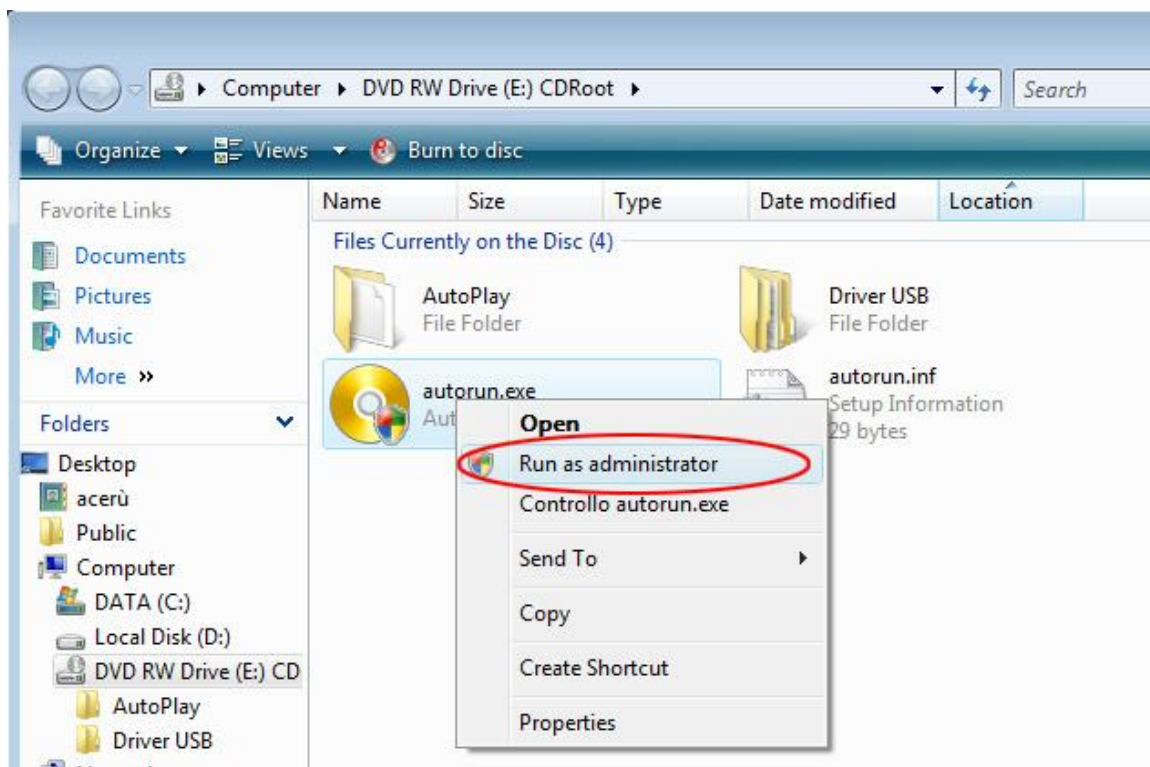
**Note 1.** In Windows Vista and Windows 7 systems.

In order to install the software the administrator privileges are requested.

If the operative system prevent to open the software, start the PC as user with administrator privileges, insert the CDRom and, at to the following window, select *"Open folder to visualize the files."*



In Computer Resources, click with the right key of the mouse on *"Autorun.exe"* and select *"Run as administrator"*:



Proceed from point 3 of paragraph 1.1.

**Note 2.** If the instrument is connected to the USB port **before drivers are installed**, in Windows 2000 and XP systems the windows for "*New hardware helped set up*" appears.

In Windows Vista and Windows 7 an set up error appears for the "*Device Manager*".

In any case, annul the operation, disconnect the instrument and follow the procedure from the beginning of this guide.

**Note 3.** If you downloaded the drivers from Delta Ohm web-site:

- a. Unzip "*Driver\_USB\_C20x.zip*" file in a temporary folder of your PC.
- b.1. For Windows 2000 and XP systems, run the file:  
"*Windows\_2K\_XP\_Vista | CP210xVCPInstaller.exe*" by double click of the mouse.
- b.2. In Windows Vista system, click with the right key of the mouse on the file:  
"*Windows\_2K\_XP\_Vista | CP210xVCPInstaller.exe*" and select "*Run as administrator*".
- b.3. In Windows 7 system, click with the right key of the mouse on the file:  
"*Windows\_7 | CP210xVCPInstaller.exe*" and select "*Run as administrator*".
- c. Proceed from point 3 of the paragraph 1.1.

**Note 4.** For **64-bit** Windows Vista and Windows 7 operating systems.

The driver signature enforcement disabling procedure when the PC is restarted can be automated installing a software utility, downloadable from:

["http://www.citadelindustries.net/ReadyDriverPlus/"](http://www.citadelindustries.net/ReadyDriverPlus/)

Copy of the utility can be found in the "DDSE" folder of the CD-ROM.

**WARNING:**

**THE UTILITY INSTALLATION IS UNDER THE RESPONSIBILITY OF THE USER.**

**DELTA OHM IS NOT RESPONSIBLE FOR ANY PROBLEMS CAUSED BY THE INSTALLATION OF THE UTILITY.**

**THE UTILITY IS FOR 64-bit SYSTEMS ONLY.**



### 1.3. Verify the correct drivers set up

In order to verify whether all the operation has been carried out correctly, proceed as follows.

In Windows 2000 and XP systems:

select "START >> Settings >> Control Panel", then double click on the SYSTEM icon.  
Chose "Hardware >> Device Manager".

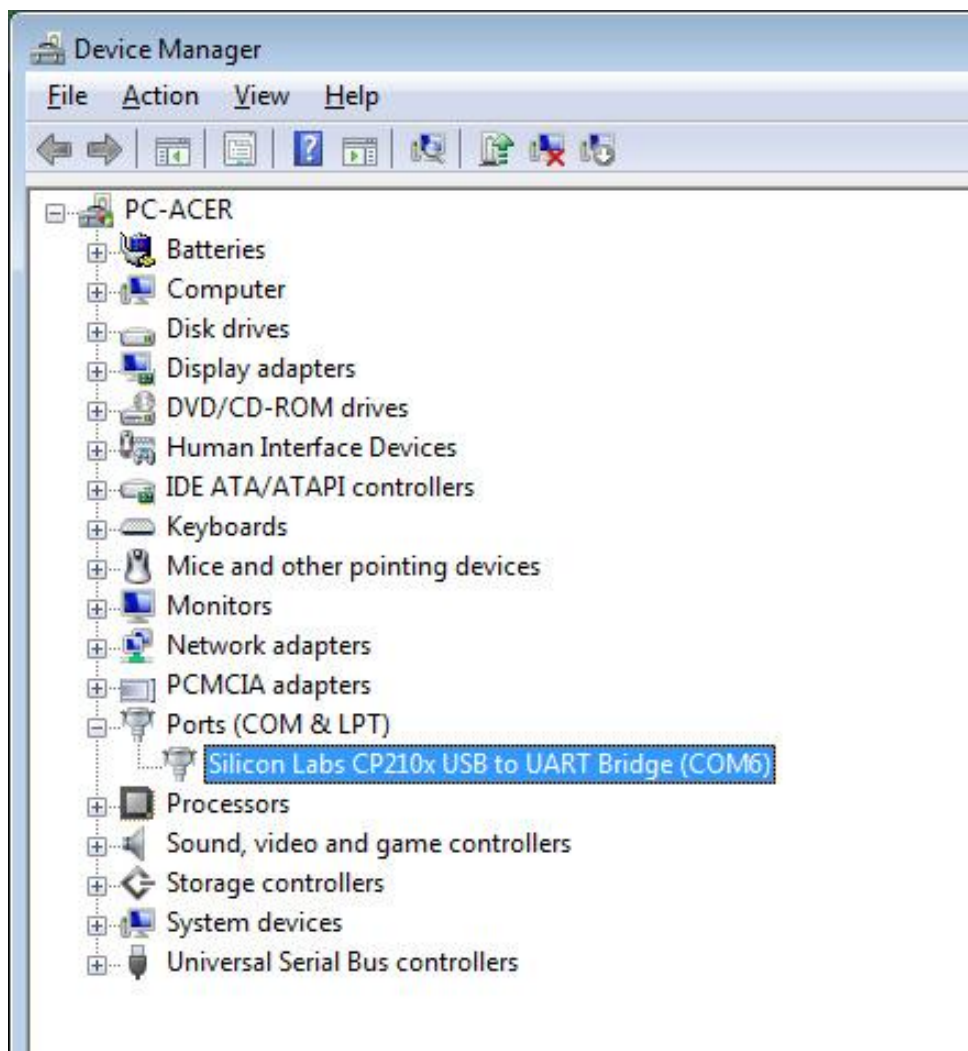
In Windows Vista and Windows 7 systems:

select "START >> Settings" then click on "Device Manager" icon".

Connect the instrument to the USB port. Your should see:

*"Ports (COM e LPT) >> Silicon Labs CP210x USB to UART Bridge (COM#)".*

**The # value is the number assigned to the virtual serial port.**



When the USB cable is disconnected, this display disappear and appears again as soon as you re-connect the cable again.

## 2.1. Use of C.20x converter with Delta Ohm software

The C.20x converter, if correctly installed as indicated in chapter 1, creates a **COM#** serial port in the system.

The assigned number to COM port is visible, according to the operative system, in "Device Manager", as described under chapter 1.3.

Delta Ohm software allows an automatic connection of the instrument to the PC, without need of manually set the options from the serial port: in order to use this function, it is sufficient to select the voice from menu "Options" >> "Connection settings" in the DeltaLog software and enable "Automatic detection" option.

**In order to connect the instrument to the software Delta Ohm, proceed as follows:**

1. Set up the drivers of the converter as explained on chapter 1 (this procedure has to be followed only the first time).
2. Re-start the DeltaLog software.
3. Connect the converter to a USB port of the PC.
4. Connect the instrument to the connector of the converter.
5. In DeltaLog software select the voice from menu "Option" >> "Connection settings" and enable "Automatic detection" option.
6. Press "Connect" on the DeltaLog software and wait for the connection to be established.
7. If the connection is correct, the connection properties bar becomes green.

Now the instrument is connected and ready for use.

**If the automatic connection is not able to detect the device, proceed as follows:**

1. Set up the drivers of the converter as explained on chapter 1 (this procedure has to be followed only the first time).
2. Re-start the DeltaLog software.
3. Connect the converter to a USB port of the PC.
4. Verify which is the number assigned to the **COM#** virtual serial port, as explained on chapter 1.3.
5. Connect the instrument to the connector of the converter.
6. In DeltaLog software select the voice from menu "Option" >> "Connection settings" and disable option "Automatic detection".
7. In correspondence to the voice "Port", manually enter the port number: for ex. "COM8".
8. If the voice "*Baud Rate*" is editable, enter the same value set to the instrument (please revert to the menu description for "Baud Rate" in the user manual). Confirm by OK.
9. Press "Connect" on the DeltaLog software and wait for the connection to be established.
10. If the connection is correct, the connection properties bar becomes green.

Now the instrument is connected and ready for use.



### 3.1. Remove USB drivers

In order to remove the USB drivers from the system, proceed as follows:

1. Disconnect the converter from the PC.
2. In Windows 2000 or XP systems, in the control panel (START >> Settings >> Control Panel) start "Application set up".  
In Windows Vista and Windows 7 systems, in the control panel (START >> Control Panel) start "Programmes and Features >> uninstall a programme".
3. From the list you see, select the voice "*Silicon Laboratories CP210x USB to UART Bridge (Driver Removal)*" and press "Change/uninstall".
4. The programme asks if you want to remove the drivers. Confirm by OK so to proceed to uninstall the drivers.
5. The removal of the USB drivers is finished.