

In order for HAAKE RheoWin (version 4.30.0001 or newer) to be able to communicate with a HAAKE Viscotester D or HAAKE Viscotester E an USB driver must be installed on the PC first.

The installation software for this USB driver is available for download from www.rheowin.com in the form of the TUSB3410_Driver.zip file. After downloading the file, unzip the *.zip into a new and empty directory.

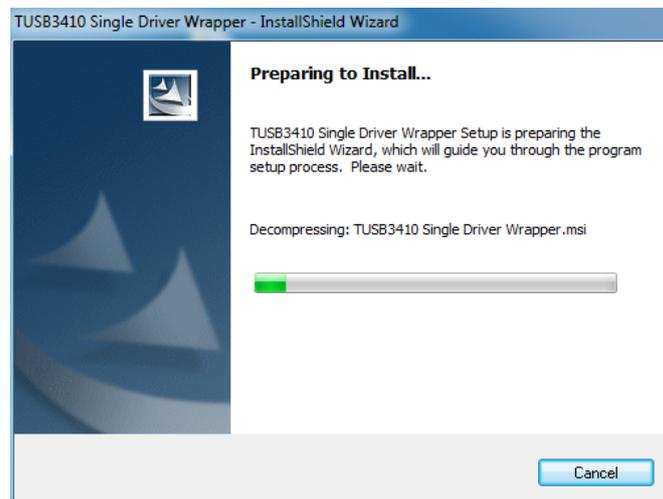
The installation software for this USB driver is also available on the RheoWin CD in the [TUSB3410 Driver](#) directory.

PLEASE NOTE : Do NOT yet connect the USB cable between the computer and Viscotester D or E, this means that the USB driver should be installed before connecting the USB cable.

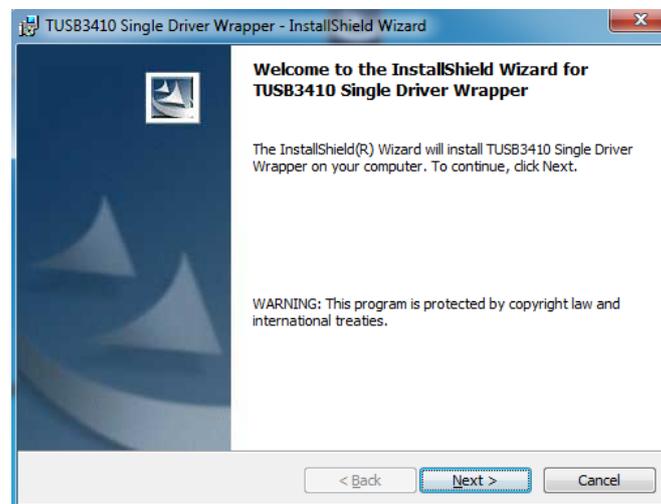
The following describes how to install the USB driver:

1) Execute the file [setup.exe](#) from the directory on the RheoWin CD or the directory in which the downloaded *.zip file was unzipped (see above).

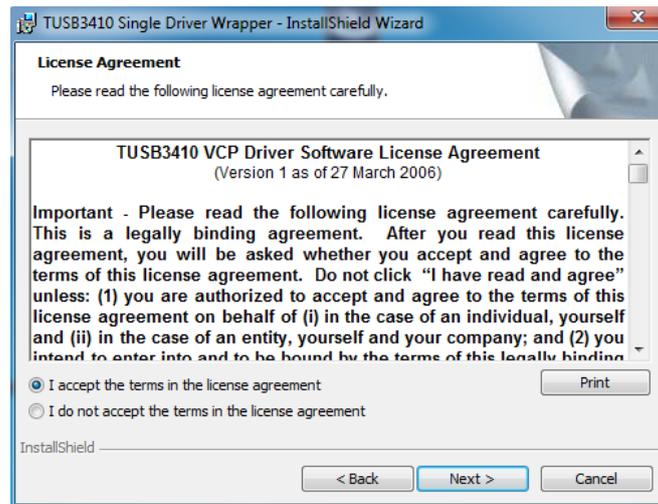
The following window will appear:



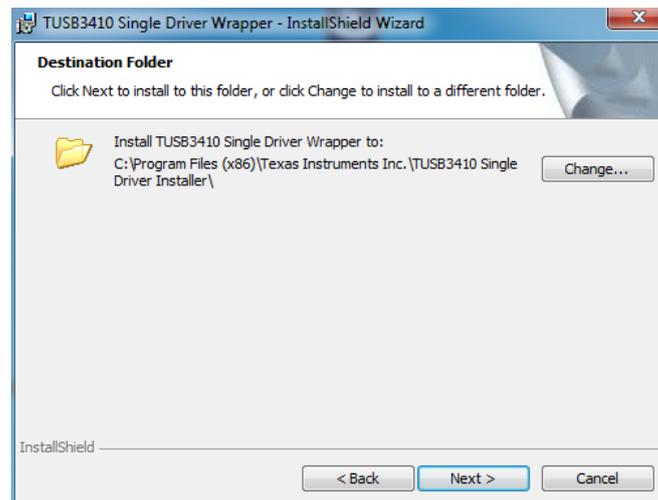
2) After some time the following window will appear, click on [Next >](#) to continue the installation



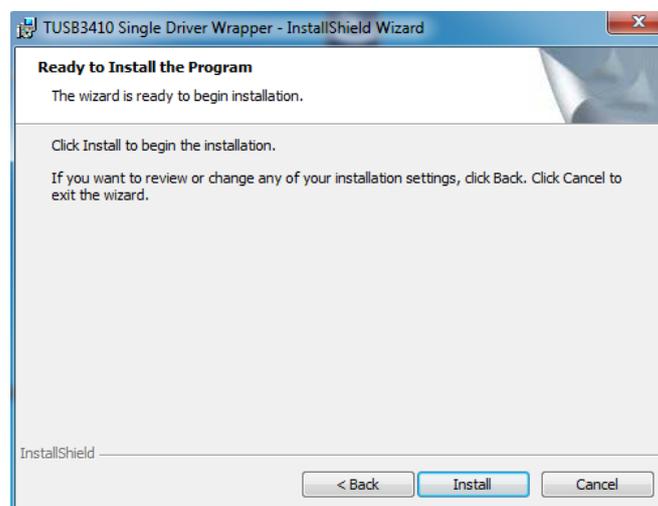
3) Carefully read the license agreement and select the [I accept the terms in the license agreement](#) option. Then click on [Next >](#) to continue the installation.



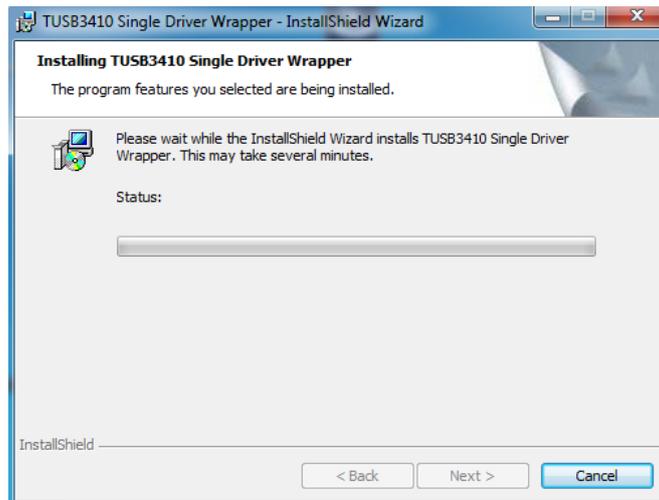
4) Select the folder (directory) in which you want to install the driver, it is recommended to use the default directory. Click on [Next >](#) to continue the installation.



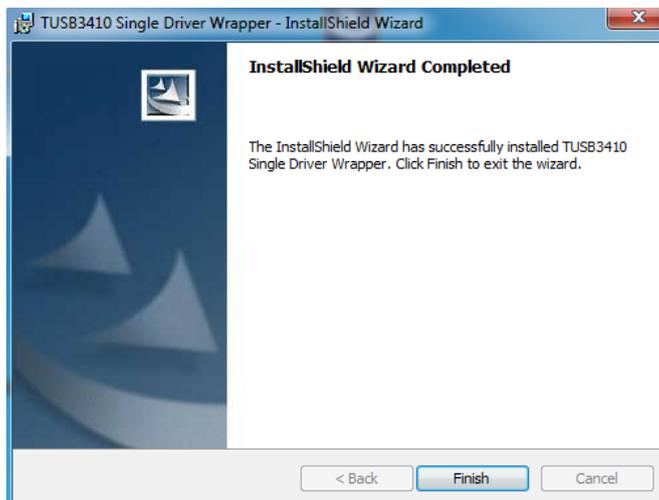
5) Click on "Install" to begin the installation of the Driver on your PC.



6) The following window will appear:



7) When the progress bar is filled click on [Finish](#).



PLEASE NOTE: The installation of the driver **is not complete** yet at this point, see the next installation steps.

7) Using the Windows Explorer go to the directory **DISK1** in the directory in which you installed the TUSB Single Driver Wrapper (see step 4) above. In case you used the default directory, the directory (under Windows XP, Windows Vista and Windows 7 in the 32 bit versions) is :

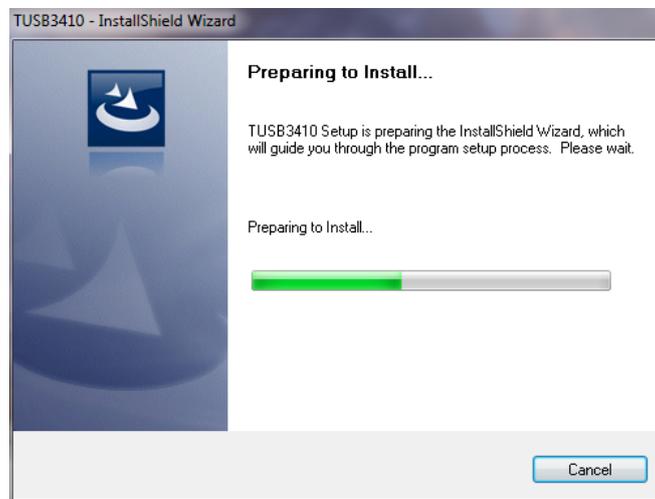
<C:\Program Files\Texas Instruments Inc\TUSB3410 Single Driver Installer\DISK1>

Under Windows XP, Windows Vista and Windows 7 in the 64 bit versions the default directory is :

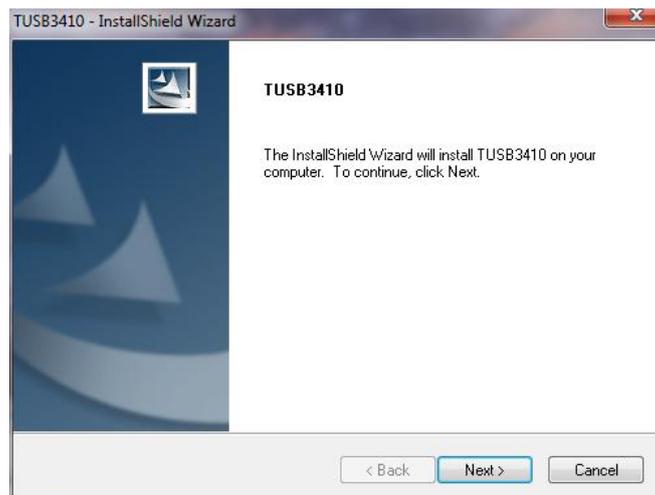
[C:\Program Files \(x86\)\Texas Instruments Inc\TUSB3410 Single Driver Installer\DISK1](C:\Program Files (x86)\Texas Instruments Inc\TUSB3410 Single Driver Installer\DISK1)

In that directory execute the program **Setup.exe**.

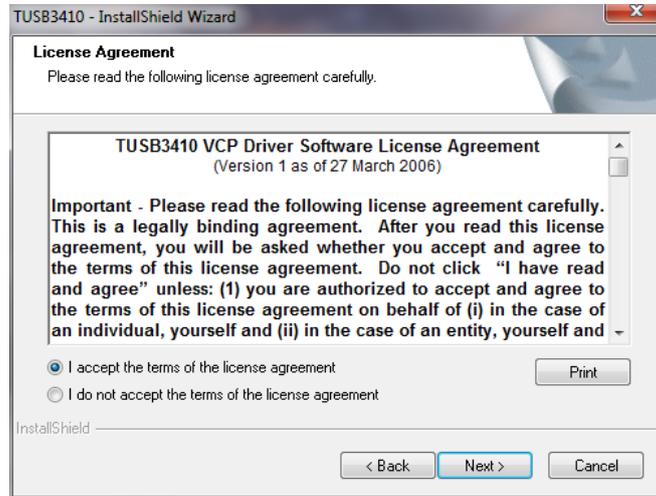
The following initialisation window will appear:



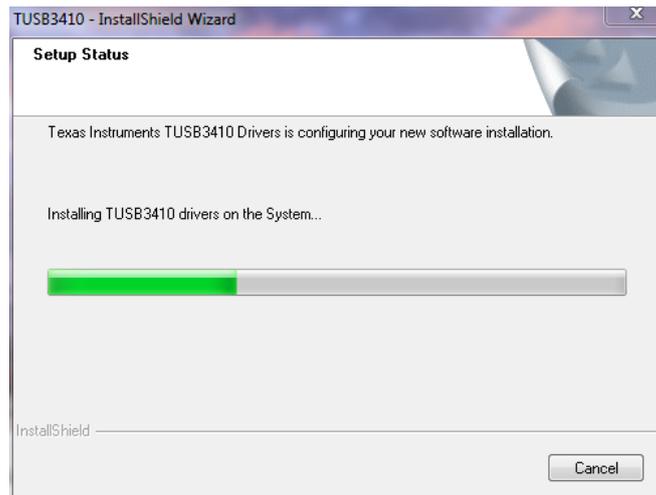
8) After some time the following window will appear, click on **Next >** to continue the installation



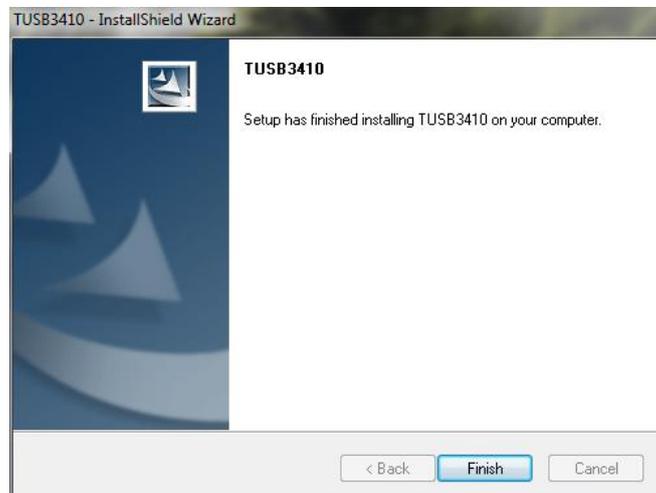
9) Carefully read the license agreement and select the **I accept the terms in the license agreement** option. Then click on **Next >** to continue the installation.



10) The following window will appear:



11) When the progress bar is filled click on **Finish**.



10) You can now connect the USB cable to the connector labelled **OP USB** (this is the lower connector!) on the back of the Viscotester D or Viscotester E and to an USB port on the computer.

After a few seconds the following message will appear at the bottom of the screen:



After a few more seconds the following message will appear at the bottom of the screen:

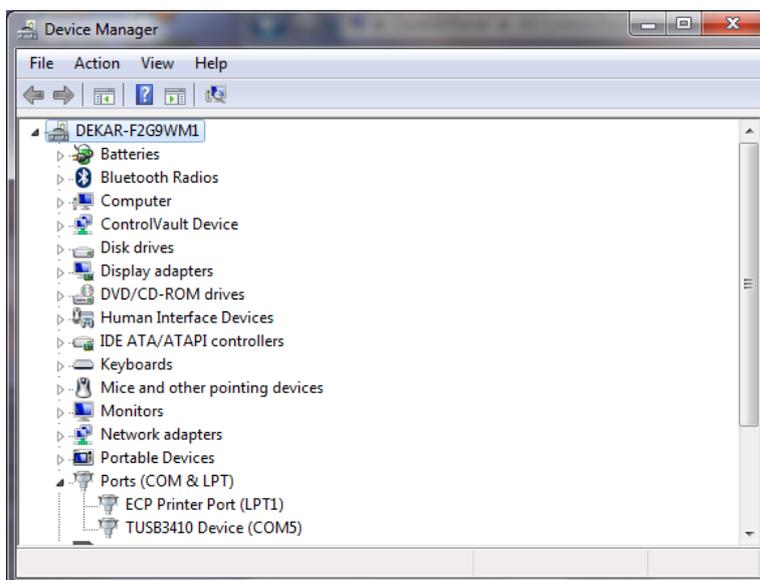


PLEASE NOTE: Take a note of which COM port is assigned to the TUSB3410 device, in the message above this **COM5**.

11) When the 2nd message above disappeared from the screen before you could take a note of the assigned COM port number, you can find the COM port number in the Windows **DeviceManager**.

The Windows **DeviceManager** is part of the **System** entry in the Windows **Control Panel**.

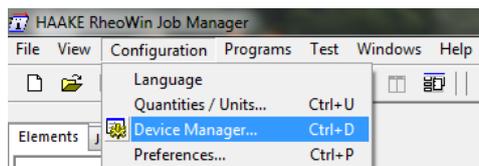
In the Windows **DeviceManager** click on **Ports (COM & LPT)**, the COM port number assigned to the TUSB3410 Device will then be shown (COM5 in the screenshot below)



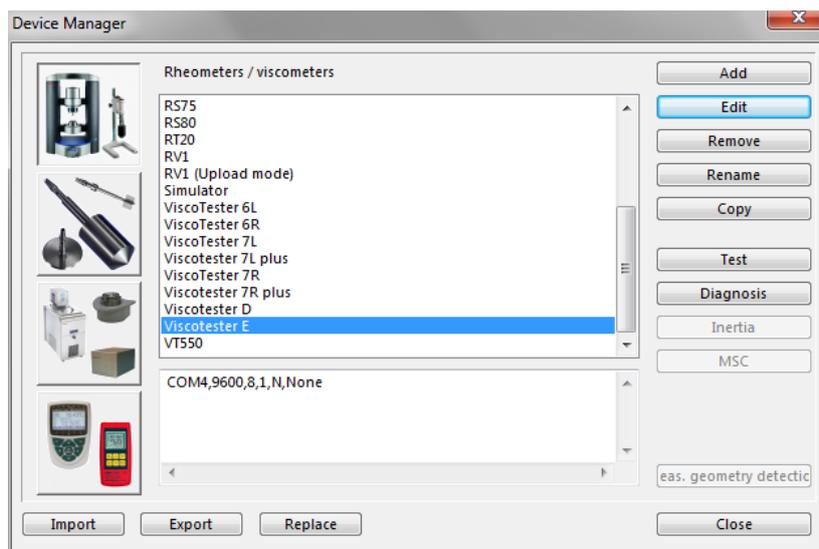
PLEASE NOTE: The TUSB3410 Device will only show up in the Windows DeviceManager when the Viscotester D or Viscotester E is connected to the PC (using the USB cable) and switched on!

The TUSB3410 Device shown in the DeviceManager is actually a micro-controller chip build into the Viscotester which allows PC software to communicate with the device (i.e. the Viscotester) via the USB interface but by using serial com port commands.

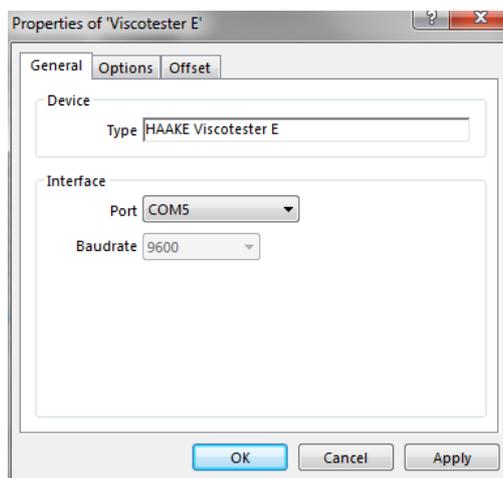
12) In RheoWin select **DeviceManager** from the **Configuration** Menu.



In the RheoWin **DeviceManager** dialog select the **Viscotester D** or **Viscotester E** from the **Rheometers/viscometers** list and click **Edit**.



In the **Properties of 'Viscotester E'** (or **Properties of 'Viscotester D'**) dialog select the **Port** number which was assigned to the TUSB3410 device (here COM5).



The communication between RheoWin and the Viscotester can now be tested by clicking the **Test** or the **Diagnosis** button in the RheoWin **DeviceManager** dialog.