Installation of USB driver for Viscotester D and E

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 <u>www.rheowin.com</u> 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 <u>before</u> 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:

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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 Laccept the terms in the license agreement option. Then click on Next > to continue the installation.



Installation of USB driver for Viscotester D and E

🔡 TUSB3410 Single Driver Wrapper - InstallShield Wizard
License Agreement Please read the following license agreement carefully.
TUSB3410 VCP Driver Software License Agreement (Version 1 as of 27 March 2006)
Important - Please read the following license agreement carefully. This is a legally binding agreement. After you read this license agreement, you will be asked whether you accept and agree to the terms of this license agreement. Do not click "I have read and agree" unless: (1) you are authorized to accept and agree to the terms of this license agreement on behalf of (i) in the case of an individual, yourself and (ii) in the case of an entity, yourself and your company; and (2) you intend to enter into and to be bound by the terms of this legally binding
I accept the terms in the license agreement     Print
$\bigcirc$ I do not accept the terms in the license agreement
InstallShield
< Back Next > Cancel

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.

🔡 TUSB3410 Single Driver Wrapper - InstallShield Wizard	
Ready to Install the Program The wizard is ready to begin installation.	
Click Install to begin the installation.	
If you want to review or change any of your installation settings, dick Back. Click Cancel to exit the wizard.	
InstallShield	
< Back Instal Cancel	



Installation of USB driver for Viscotester D and E

6) The following window will appear:

谩 TUSB341	0 Single Driver Wrapper - InstallShield Wizard
Installing The prog	TUSB3410 Single Driver Wrapper ram features you selected are being installed.
17	Please wait while the InstallShield Wizard installs TUSB3410 Single Driver Wrapper. This may take several minutes.
	Status:
InstallShield –	< Back Next > Cancel

7) When the progress bar is filled click on Finish.

🛃 TUSB3410 Single Driver Wrapp	er - InstallShield Wizard
	installShield Wizard Completed
TS	he InstallShield Wizard has successfully installed TUSB3410 ingle Driver Wrapper. Click Finish to exit the wizard.
	< Back Finish Cancel

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

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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

In that directory execute the program Setup.exe.

The following initialisation window will appear:

TUSB3410 - InstallShield Wizar	d
	Preparing to Install
3	TUSB3410 Setup is preparing the InstallShield Wizard, which will guide you through the program setup process. Please wait.
CUL.	Preparing to Install
	Cancel

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



**Thermo**<br/>scientific**RheoWin User Manual**Version: 1.0<br/>Date: 17.05.2011<br/>Author: Jint NijmanInstallation of USB driver for Viscotester D and EVersion: 1.0<br/>Date: 17.05.2011<br/>Author: Jint Nijman

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

icense Agreement			
Please read the following license agre	ement carefully.		Contraction of the second
TUSB3410 VCP Drive	er Software Licens	e Agreement	*
(Version	1 as of 27 March 200	6)	
		<b>•</b>	
This is a legally binding ag agreement, you will be as the terms of this license ag and agree" unless: (1) you the terms of this license ag an individual, yourself and (	greement. After y ked whether you greement. Do no are authorized to greement on behai (ii) in the case of a	you read this li accept and ag t click "I have accept and ag If of (i) in the c n entity, yourse	icense ree to e read ree to ase of elf and +
This is a legally binding ag agreement, you will be as the terms of this license ag and agree" unless: (1) you the terms of this license ag an individual, yourself and ( I accept the terms of the license ag	greement. After y ked whether you greement. Do no are authorized to jreement on beha (ii) in the case of a greement	you read this li accept and ag t click "I have accept and ag If of (i) in the c n entity, yourse	icense ree to e read pree to case of elf and + Print
This is a legally binding ag agreement, you will be as the terms of this license ag and agree" unless: (1) you the terms of this license ag an individual, yourself and ( I do not accept the terms of the license ag I do not accept the terms of the license ag	greement. After y ked whether you greement. Do no are authorized to preement on beha (ii) in the case of a greement ense agreement	you read this li accept and ag t click "I have accept and ag lf of (i) in the c n entity, yourse	icense ree to e read pree to ase of elf and <del>-</del> Print
This is a legally binding ag agreement, you will be as the terms of this license ag and agree" unless: (1) you the terms of this license ag an individual, yourself and ( I do not accept the terms of the license ag I do not accept the terms of the license allShield	greement. After y ked whether you greement. Do no are authorized to preement on beha (ii) in the case of a greement ense agreement	you read this li accept and ag t click "I have accept and ag If of (i) in the c n entity, yourse	icense ree to e read pree to ase of elf and <del>~</del> Print

#### 10) The following window will appear:

TUSB3410 - InstallShield Wizard	×
Setup Status	
Texas Instruments TUSB3410 Drivers is configuring your new software installation.	
Installing TUSB3410 drivers on the System	
InstallShield	
Cano	el

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

TUSB3410 - InstallShield Wizard	d
271	TUSB3410
	Setup has finished installing TUSB3410 on your computer.
	< Back Finish Cancel

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.

Installation of USB driver for Viscotester D and E

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

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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 2<sup>nd</sup> 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.



Installation of USB driver for Viscotester D and E

12) In RheoWin select DeviceManager from the Configuration Menu.

HAAKE RheoWin Job Manager					
File	View	Configuration	Programs	Test	Windows Help
Ľ	<b>2</b>	Language	11-2-		
		Quantities /	Units	Ctri+U	
Elem	ents I	😻 Device Man	ager	Ctrl+E	
		Preferences		Ctrl+F	P

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

Device Manager		<b>X</b>
	Rheometers / viscometers	Add
	R575	Edit
	RT20 RV1	Remove
1	RV1 (Upload mode) Simulator	Rename
	ViscoTester 6L ViscoTester 6R	Сору
	ViscoTester 7L Viscotester 7L plus =	Test
J. 🕳	ViscoTester 7R ViscoTester 7R plus	Diagnosis
	Viscotester E	Inertia
V# 🗊	COM4 9500 8 1 N None	MSC
	<	eas. geometry detectic
Import	Export Replace	Close

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).

Properties of 'Viscotester E'
General Options Offset
Device
Type HAAKE Viscotester E
Interface
Baudrate 9600 👻
OK Cancel Apply

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