

## Ideal Finish Analysis and CurveX 4 firmware update

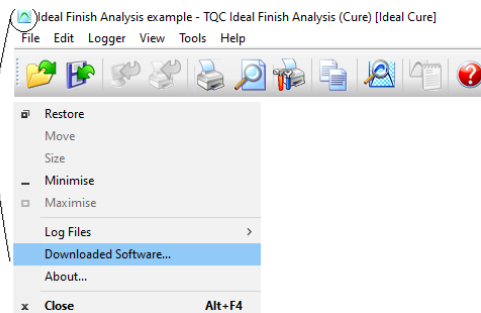
To be benefit from the improvements in the latest software and firmware, we recommend to follow the below instructions to have the latest versions up and running.

### 1) TQC Sheen Ideal Finish Analysis software update

- 1.1. Use the ZIP file provided or go to the webpage: <https://industrialphysics.com/product/ideal-finish-analysis-software/> to check if a newer version is available  
Click on [Access the latest Ideal Finish Analysis Software here!](#)
- 1.2. Go to your downloads folder and open and unzip the downloaded file.
- 1.3. Locate and start the EXE file. Make sure you have Admin rights to install software.
- 1.4. Follow the instructions and click Yes or Next when prompted.  
Ignore possible errors with preliminary releases as they might not yet be digitally signed.
- 1.5. Click Finish when Installation Is successful.
- 1.6. Start the TQC Ideal Finish Analysis software by clicking the desktop icon.
- 1.7. Continue to section 2 to install the firmware when needed.

### 2) TQC Sheen CurveX 4 firmware update

- 2.1. Locate the CurveX4BasicV1.2.24.0.bin firmware file.
- 2.2. Connect the CurveX 4 to the PC.
- 2.3. Open Ideal Finish Analysis software and wait for 10 seconds.
- 2.4. Click on the icon in the left top corner of the title bar and select 'Downloaded Software...'



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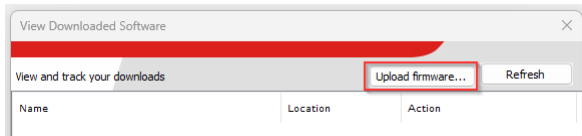
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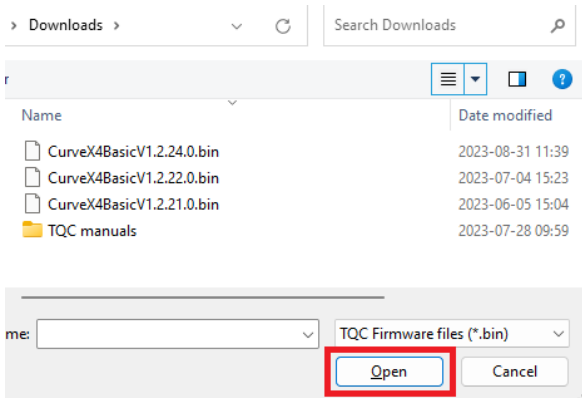
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## 2.5. Select **Upload firmware...**

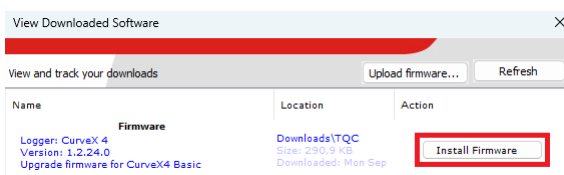


## 2.6 Navigate to the directory where you saved the firmware.

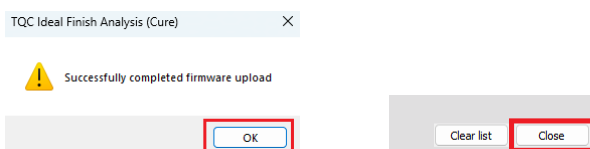
## 2.7 Select the firmware file and click **Open**.



## 2.8 Click **Install Firmware** to start installing the CurveX 4 firmware.



## 2.9 Do not disconnect the CurveX 4 until the installation is finished. When prompted click **OK** followed by **Close** on the righthand bottom of the window.



## 2.10 Disconnect the CurveX 4 from the computer.

## 2.11 Switch off the CurveX 4 by holding the power button for about 4 seconds.

## 2.12 Reconnect the CurveX 4 and it will turn on automatically.

## 2.13 Continue to section 3 'Validation' to finish the installations.

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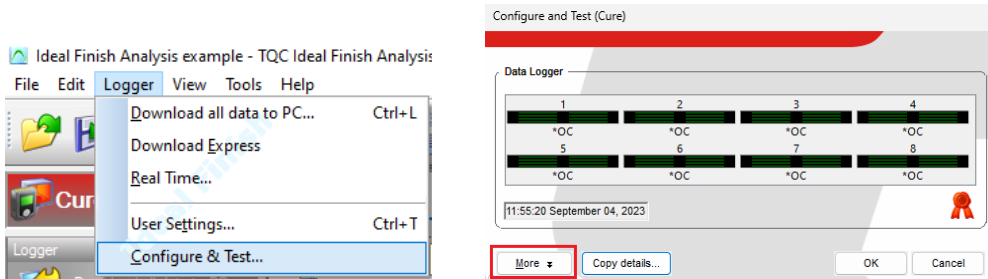
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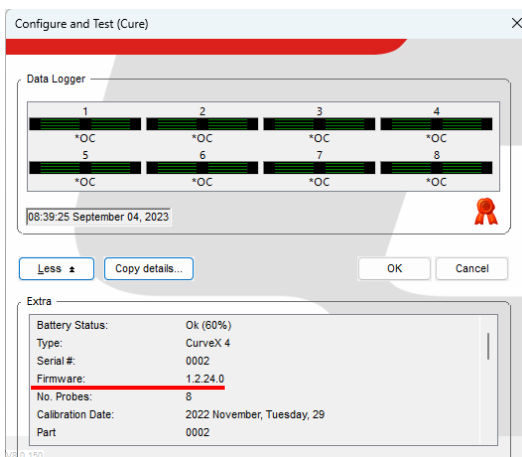
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### 3. Validation of software and firmware

- 3.1. To verify the software click on Help and About.
- 3.2. To verify the firmware click on Logger - Configure & Test



- 3.3. Click on **More** to get more details and see the installed firmware.



- 3.4. The Ideal Finish Analysis and CurveX 4 updates are now finished and ready for use.

*Note: The above screenshot is also useful to share when technical support is requested.*

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## Release notes:

### Ideal Finish Analysis (IFA) 8.0.172.0 offers:

- Improved printing of the personalized logo.
- As default only show new loggings in the download window.
- The oldest loggings are removed from the CurveX 4 trash folder if there are more than 20 entries in the trash folder.
- Checking and removing duplicate loggings. These can sometimes appear when the USB cable is removed when downloading wasn't completely finished.
- Improved downloading of loggings when the internal SD-card shows delayed response.
- 

### Ideal Finish Analysis (IFA) 8.0.166.0 offers:

- Show only new loggings in the download screen.
- IFA removes oldest loggings from the trash folder on the CurveX 4 if there are more than 20 in the trash folder.
- IFA checks and removes duplicate loggings that can be made when the cable is removed too quickly after downloading a logging.
- Fix for crash when downloading loggings due to slower SD-cards.

### CurveX 4 firmware 1.2.24.0 offers:

- More reliable USB communication
- Logger can start on date and time
- Logger can start and stop on preset temperatures for start and stop.  
This setting is persistent until removed or re-programmed.

For the logger to work in the oven but also for testing in the office, it needs at least one connected temperature sensor.

### Deleting all log files is possible using the following procedure:

- Turn off the logger
- Hold the Stop the button and turn the logger on.
- Hold the Stop button for 15 seconds and the recordings will be deleted.  
During the 15 seconds a soft continuous beep will be noticeable, followed by short beeps to confirm the deletion.

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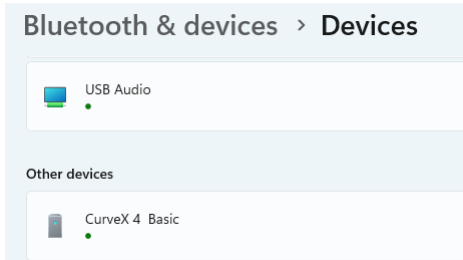
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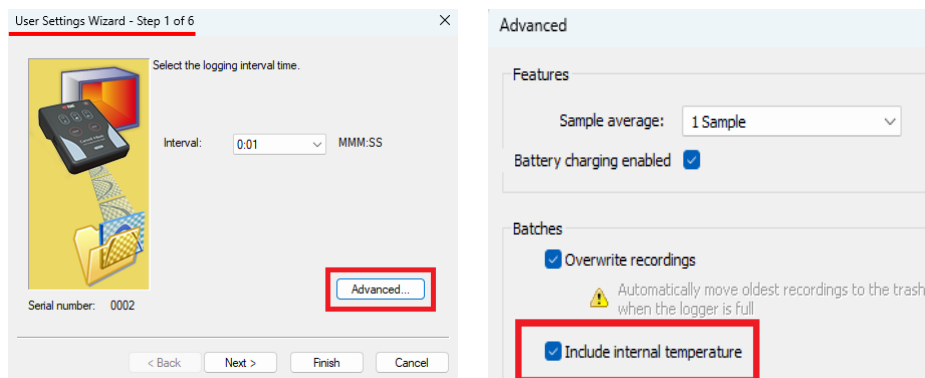
## General information:

A properly connected CurveX-4 on Windows 10 or 11 will show as:



It is advised to always prepare the insulation box as indicated in the Insulation box service bulletin as on the next page.

Also include the internal CurveX-4 temperature by clicking **Advanced** during the first step of the setup of the logger with **Logger – User settings**.



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## Insulation box preparation and usage

Due to the enormous temperature difference between the inside and the outside of the box during curing, the moisture inside the box can potentially condensate, a physical phenomenon that may result in water (drops) in the box. This is an unwanted situation obviously.

At first usage or after long, unprotected storage of the insulation box it is recommended to prepare the insulation box for usage.



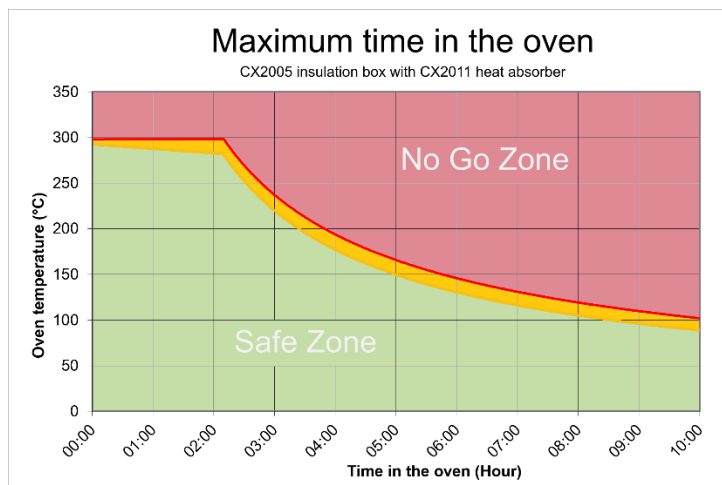
To do this, remove the lid and heat up the opened insulation box and the separate lid, **without** the heat absorber, to a temperature of 150°C (320°F) during a period of 120 minutes prior to use.

This will evaporate the excess of moisture in the insulation material.

After this evaporation cycle let the insulation box and lid cool down and soon afterwards put the dried insulation box, with the heat absorber inside and the lid closed, in a sealed plastic bag. Ready for immediate use.

After a run through the oven it is also advised to leave the box closed and store it in a sealed bag.

Before starting a run through the oven, the insulation box and internal heat absorber must be at room temperature (20-25 °C) for the heat absorption performance as shown below.



It is advised to have a spare heat absorber (CX2011) ready at room temperature if a swift next run through the oven is needed.

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