PTW

How to Set Up an RS232 Connection for PTW Detector Arrays

VeriSoft version ≤ 4.2

Detector Interface 4000 (T16039)

This technical note applies to the following PTW detector arrays:

2D-ARRAY seven29 (T10024)

2D-ARRAY seven29 ^{xdr} (T10031)

OCTAVIUS Detector 729 (T10040)

OCTAVIUS Detector 729 ^{xdr} (T10042)

STARCHECK (T10043)

STARCHECK^{maxi} (T10033)

NOTE

This technical note describes how to set up an RS232 connection to a PTW detector array in the VeriSoft software. You need to set up the RS232 connection in the MultiCheck software and the BeamAdjust software in a similar way.


NOTE

In this technical note, the Detector Interface 4000 is used as an example. You can set up the connection with other PTW detector interfaces in the same way.

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1. Install the VeriSoft software on your PC.

2. Make sure the Detector Interface 4000 is turned off.

3. Connect the PTW detector array to the Detector Interface 4000.

4. Connect the Detector Interface 4000 to the PC via RS232-cable (The RS232 cable T22373/K67-20 is included in the Detector Interface 4000 delivery).

5. Turn on the device.

6. Start the VeriSoft software on your PC.

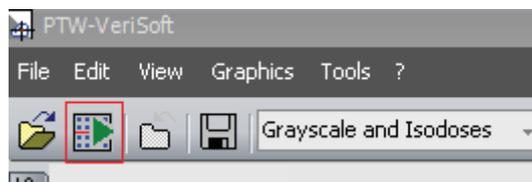7. In the VeriSoft software, select *Tools* → *Options* in the menu bar.
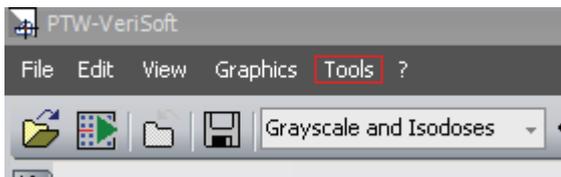
8. In the *Options* window, select the *Measurement* tab and choose the correct detector:
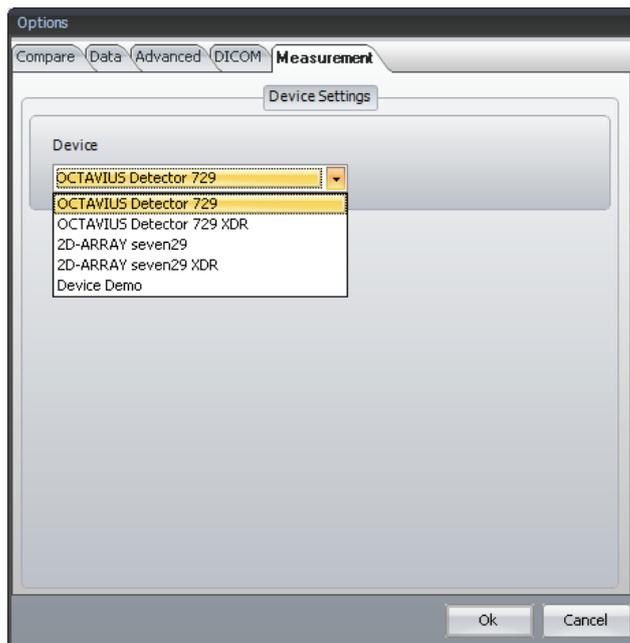

9. Click *OK* to save this setting.

10. Start the measurement in VeriSoft software by clicking the green arrow (this step is not necessary in BeamAdjust software).
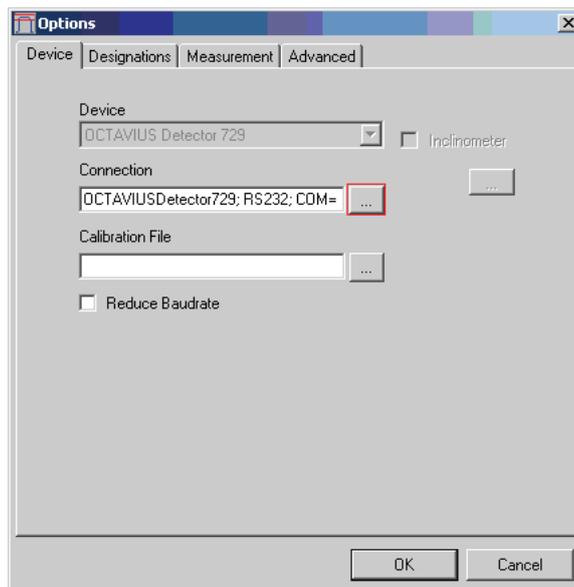

Accept the measurement parameters by clicking *OK*. The *Measurement* window will appear, showing an error message. Click *OK*.
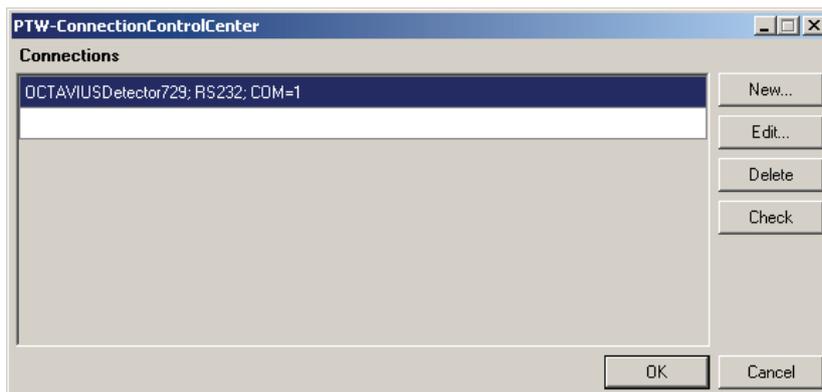
11. In the **Measurement** window of the VeriSoft software, select **Tools → Options** in the menu bar.
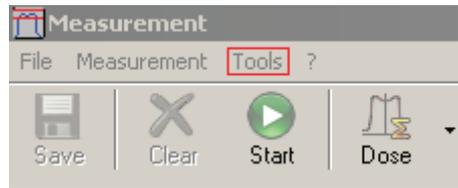
12. The **Options** window will open and the Device tab will already be selected:

13. To change the settings for the data transfer click the ┊…┊ button next to the connection pane (marked in the image above). The **PTW-ConnectionControlCenter** dialog will appear:

If there is already an RS232 connection listed, you can test it by selecting the connection and pressing **Check**. If the check was successful, proceed with step 19. If a message appears, saying that no connection exists, proceed with step 14.

14. To create a new RS232 connection, click the **New…** button in the **PTW-ConnectionControlCenter** dialog. The **New Connection** dialog will appear:
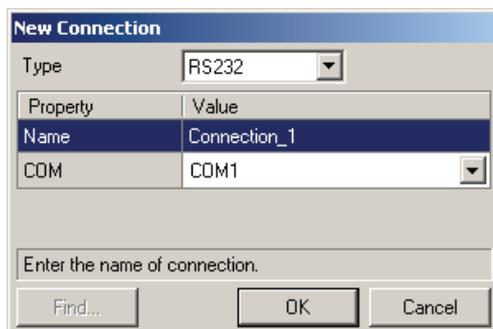
15. Adjust the parameters required for the connection:
    Type: RS232
    Name: user-defined name of the connection (your choice)
    COM: used COM port

16. Confirm the settings with **OK**.

17. In the **PTW-ConnectionControlCenter** dialog the new connection will be displayed. You can test it by selecting the connection and pressing **Check**. A message that the connection was successful should appear. Confirm with the **OK** button.

   If your connection attempt was not successful, double-check the settings in step 15. Make sure the device is turned on and correctly connected to your PC via RS232 cable.

18. Select your new connection in the **PTW-ConnectionControlCenter** (if not already selected) and confirm with the **OK** button. The **Device** tab in the **Options** window should now display your new connection.

19. You also need to select the correct calibration file before you can perform your first measurement. In the **Device** tab, click the **…** button next to the **Calibration File** pane and select the calibration file corresponding to your detector array.

20. Close the **Options** window by clicking the **OK** button. The RS232 connection between the PTW detector array and your PC is now established.

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