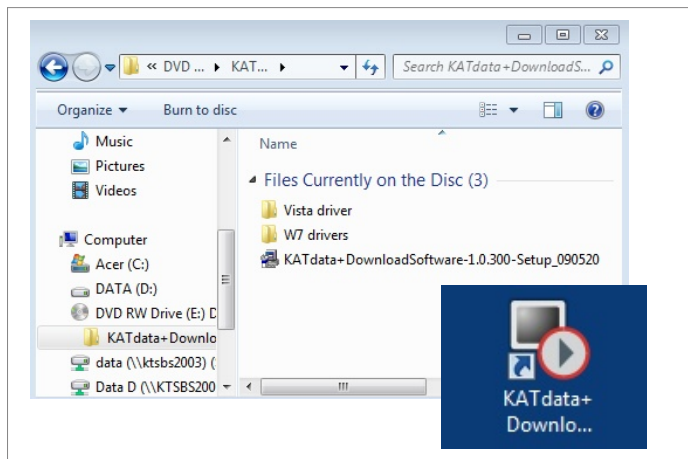


Step 1: KATdata+ Software Installation

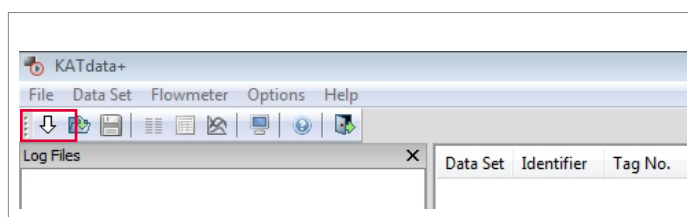
- Insert the KATdata+ CD into the computer. Open the folder of the CD drive. Double-click on the **KATdata+ Download Software** and follow the instructions to complete the installation.
- After installation a shortcut icon similar to the one below should appear (Pic. 1):



1. Content of the KATdata+ software CD

Step 2: Saved Measurement Data Download

- To download data, it must be detected and saved by internal Datalogger of your flowmeter. Please see the Operation Instructions or Quick Start Manual of your flowmeter.
- Launch the KATdata+ software, connect the RS 232 cable to the switched off flowmeter and the USB socket of the computer. Now switch the flowmeter on.
- Press the white down-pointing arrow in the top left corner of the **KATdata+** software to start the download procedure (Pic. 2).



2. Menu of KATdata+ Software

- Select a location for the file to be saved and name of the file.
- After confirming the name, a data transfer will start automatically. A download status bar will be shown on KATdata+ and on the flowmeter screen.

Step 3: Functions of KATdata+ Software

- On successful completion of the download the measurement data can be viewed in the KATdata+ window.
- The upper left window (**Log files**) includes the downloaded and stored measurements. If you select multiple stored data there appears a window with measurements in list form.
- You can remove measurements from the list by clicking on one of these with the right mouse button and select **Delete**.

Step 3: Functions of KATdata+ Software

- You can open measurements by clicking the top left file **Go** and select **Open**. Alternatively, you can go on your Computer direct to file, double-click for open it.
- The window on right of **Log Files** contains a data of individual measurements sessions. The session will be displayed after click at one of the file under **Log Files**. Measuring sessions are applied automatically by the flowmeter, whenever the measurement is started and at the datalogger is activated (see Operating Instructions or Quick Start Guide of your meter).

The following values there are shown :

- **Data Set:** Measurement sessions in chronological numbered sequence
- **Identifier:** Ability to name the measurement point
- **Tag No:** Possibility to designate a user or device; The content can be viewed or rewritten under **Main Menu - System - User - Tag No**.
- **Date Time:** Date and time of the measurement session beginning. You can set the date and time under the **Main Menu - System - Setup - Date/Time**
- **Channel:** Indication of measuring channels: KATflow 200 has only one measurement channel, KATflow 230 can be connected to channel 1 and/or channel 2.
- **Units:** Display of process value chosen for measurement session
- **Rows:** Number of stored measurements per one session. A row consist from the selected process value and Totaliser (if enabled) values
- **Interval:** Storage rate which was selected on activation of the internal datalogger
- **Outside Diameter:** Outer circumference of the measured pipe
- **Medium:** Measured fluid
- The bottom window (**Data Set Detail**) contains further information of each measurement session. Details can be viewed by clicking on the measurement session.

Following information will be showed:

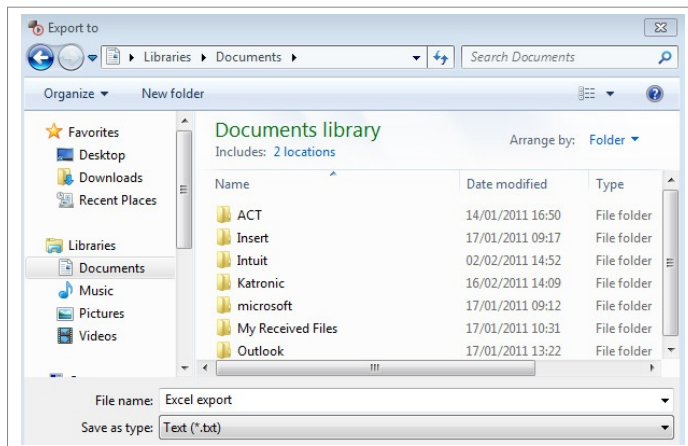
- **Parameter Record:** Display entered values from the Setup Wizard; additionally various system information is displayed.
- **Measurements:** Display of each row of the measurement session. CH1:PV or CH2:PV shows measured values for the selected Process value on channel 1 or 2. CH1:+TOT and CH1:-TOT show the values of the positive and negative Totaliser (by enabled function).
- **Graph:** Display of the measurement rows in trend graphs by time and process values: select in the left column, which measurement sessions are to be displayed.

Step 4: Data Export to Microsoft Excel

To add values of a measurement session in Excel, proceed as follows:

- Choose a necessary measurement under **Log Files** by clicking on it.
- Go to **File - Export**, select the location for the new file and give it a name of your choice (Pic. 3).
- Please note that the export is possible only in .txt format. Please make no changes in **Export Options** and click **Save**.

Step 4: Data Export to Microsoft Excel



3. Data export to Microsoft Excel

- Go to the location of the .txt file and open it. Under Windows systems .txt file opens automatically with the Notepad program.
- Copy the entire content of the .txt file. Open Excel. Create a new worksheet and select **Paste**.

Step 5: Real-time data transfer via RS232 cable

To transfer the measurements from the flowmeter to a computer in real-time please proceed as follows:

- On the flowmeter go to the **Main menu - Output - Serial Communication - Mode** and choose **Printer**.
- Connect the flowmeter to the computer through RS 232 cable and launch the KATdata+ software.
- Press the small display symbol in the top left corner of the KATdata+ software to launch the terminal program. After starting the program, it automatically minimises to the status bar. Maximise the window if necessary.
- Go to the terminal program to **Options - Preferences - RS232 settings** and check that the settings are as shown on the right.
- Now click in the top navigation bar of terminal program on the plug symbol, to establish a connection. Once the measurement is started, the measured values are transferred in real time to computer.
- The transferred data can be saved. Click **Save As**, select a location and name of the file.

Step 5: Real-time data transfer via RS232 cable



4. RS232 settings

- Please note that in real time transferred data can be stored only as .txt data (Pic. 5). The .txt file extension must be manually entered before saving after the file name.
- An export to Excel may be performed as described above.



5. Saving the values as .txt data

Note to serial interfaces

In case of connection problem between the flowmeter and computer, it is advisable to check if the COM setting of KATdata+ and the terminal program settings matches.

- To select the Serial Ports go through KATdata+ via **Options - Preferences - Serial**. You can choose between COM1 to COM9.
- To select the Serial Ports go to Terminal program via **Options - Preferences - RS 232 Settings**.