

Installation and Operating Instructions for the iks Aquastar Winsoft Demo-Software V0.1

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System requirements

Minimum:	Operating system:	Windows 95, 98 NT 4.0, 2000
	Processor:	486 Intel processor or above or compatible
	Main memory	16 MB
	Hard drive:	15 MB vacant memory
	Graphics:	VGA
	Mouse:	compatible with Windows
Recommended:	Operating system:	Windows 95, 98 NT 4.0, 2000
	Processor:	133 MHz Intel Pentium processor or above
	Main memory	32 MB or more
	Hard drive:	20 MB vacant memory
	Graphic:	VGA or higher monitor resolution
	Mouse:	Compatible with Windows

Installation

1. Download the iks aquastar-winssoft software (a compressed file setupex.exe; file size approx. 5352 kByte) from our Internet site
<http://www.iks-aqua.com/html/d/aquastarwinssoft.htm>.
2. Before installing the software, **uninstall** any previously installed version of aquastar winssoft. To do so, proceed as follows:
In the Windows Start-menu, click on “Start – settings – control panel”. Click on the “Software” icon and subsequently remove the “aquastar winssoft” program. If any elements were not able to be removed, have a look in the installation directory of “aquastar winssoft” (e.g. C:\Programme\iks\ aquastarwinssoft) to see if directories and files still exist. This may be the case if additional files (saved programming files or database files) are generated while the software is running. Erase these manually.
3. Copy the software (setupex.exe) to a directory of your choice (e.g. C:\Programme\iks\install).
The file is compressed and automatically unpacks itself when it is called up or double-clicked on. During the **unpacking** process of the file, the WinZip self-extractor will ask you for the unzip directory into which the files are to be unpacked. Here, you can enter C:\Programme\iks\install for example, and then click on the “Unzip” button. 16 files will then be successfully unpacked.
4. Please run the “ **Setup**” or “**Setup.exe**” application under the unpacked files and follow the installation instructions. We highly recommend that you close all windows programs before running the Setup program.
5. During the installation process you will be asked for the **destination directory**. You can adopt the existing entry “C:\Programme\iks\aquastarwinssoft” change it to one you prefer by means of the “Examine” button. If you do change the directory, it is a good idea to make a note of the new one.

Operation

Connecting your PC to the iks aquastar

Before running the aquastar winssoft program, connect your PC to the iks aquastar using the original “PC data lead” (Order No. 3000). To do so, insert the grey 9-pin sub-D plug into a serial COM-interface (COM 1 or COM 2) in your PC and the other end into the socket labelled “PC” in your iks aquastar.

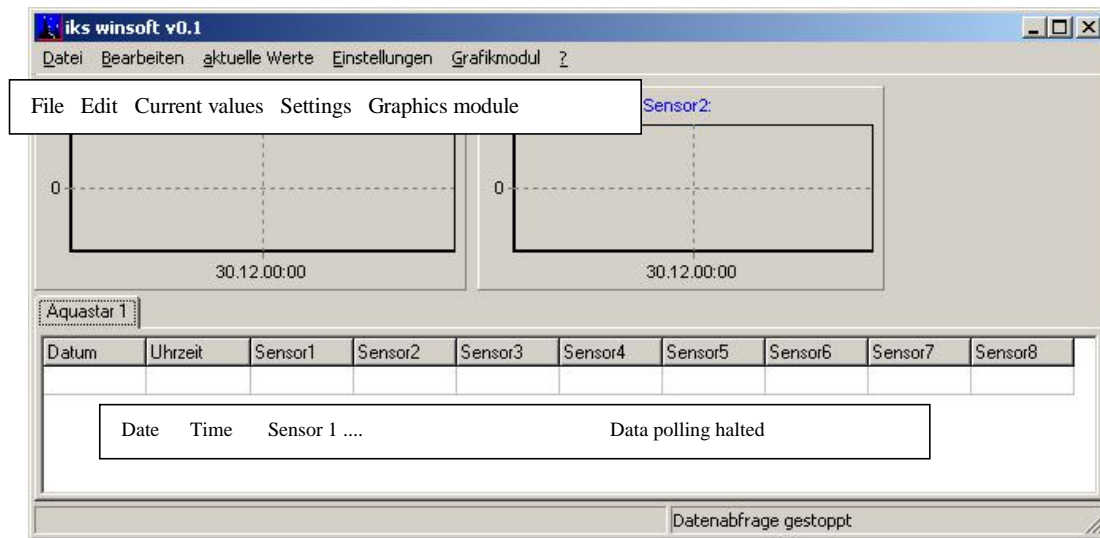
Use and extension lead where necessary(2-metre extension lead: order no. 3007, 5-metre extension lead: order no. 3008, 10-metre extension lead: order no. 3009).

Starting the program

To start the program, click “Start – Programs – aquastar winsoft” in the Windows Start-menu. A window will then appear in which you can select the COM port (1 or 2) to which you have connected the data lead. Then, another window appears in which you can start polling the latest sensor data from the aquastar. After that the “aquastar winsoft” main menu appears.

Main menu

The menu items in the main menu are explained below.



Main window

File

This menu item is not yet available.

It will be able to be used later on for saving or loading data-base tables or generating new tables.

Programme aquastar (Edit menu)

This window enables you to read out your aquastar’s programmed control settings, timing functions, measurement settings and system settings (in other words reading programming data), display them in an easy-to-view form and save them in a file (*.prg). You can thus save a variety of your aquastar’s configurations in files in your PC.

The configuration settings that have been read out can be changed in this program window; very easily and clearly set out. The altered settings can then be restored to the aquastar. Programming data cannot be written with the demo-version v0.1.

Retrieve saved data (Edit menu)

This item enables you to extract, or read out, the sensor data saved in the iks aquastar and then saved in a separate file. In contrast to the iks Datastar software, the data are only saved in a file with only one header line (date, time and individual sensor types). It is therefore not advisable to alter the sockets of the individual sensors without subsequently clearing the memory of the saved values in the iks aquastar.

The section “How to display the sensor data in Microsoft **Excel** that have been transferred to the PC with the aid of iks-aquastar winsoft” at the end of this instruction tells you how you can input the saved data into Microsoft Excel.

The graphic analysis of the saved sensor data will be possible in a future version of aquastar-winsoft.

Display current values (Current values menu)

Clicking on this menu item presents the latest sensor data from the iks aquastar in a separate window stating the sensor type and your PC's date.

Update database (Current values menu)

Clicking on this menu item enters the last input current sensor data into the currently open database (Aquastar 1). To do this, the recording of the current values has to be briefly interrupted for technical reasons. The table displayed in the main menu can be updated by clicking on the register “Aquastar 1”.

Data polling (Current values menu)

Clicking on this menu item starts or stops the polling of current sensor data from the aquastar. The current polling status (data polling stopped or data polling running) is displayed in the status bar of the main menu at the bottom of the screen on the right or by a tick adjacent to the menu item “Data polling”.

If data polling is stopped by the user, it takes a few seconds for the data-polling process to come to a halt.

Graph (Current values menu)

The menu item “Graph” enables a sensor each to be allocated to the graphic presentations on the left and right of the main window. To do this, click in the window “Graph: select source” on the right or left register (“Graph left” or “Graph right”) and click on a sensor of your choice. Confirm your choice by clicking on “OK”. Repeat the process to allocate a sensor to the other graph.

Data polling (Settings menu)

This menu item enables you to set the value for the delay between polls in minutes. The lower the value, the faster the rate at which the table in the main window or the automatically generated database file fills up with sensor readings.

Overview (Graphics module menu)

This menu item enables you to display a window that gives you a graphic overview of all 8 of your aquastar's sensors. Here, you can also enlarge, reduce or shift a certain area for each individual sensor.

Enlargement:

Inside the appropriate sensor graph, click the **left-hand** mouse button on the **upper left-hand** corner of the section you want to view. Keeping the button pressed, drag the mouse pointer **downwards** and to the **right**. Release the button as soon as the resulting white square has reached a suitable size. You have now enlarged the area you want to scrutinise more closely.

Returning the graph to its original size:

To return a sensor-data graph to its original state, click anywhere inside the graph using the **left-hand** mouse button, **keep it pressed** and drag the mouse pointer **upwards** and to the **left**. Release the button at any point.

Shifting an section:

To shift an enlarged section of a graph to another position (for example to follow the curve upwards, downwards, to the right or left) click on the appropriate section of the graph using the **right** mouse button, **keep the button pressed** and drag the mouse pointer in the required direction. If the mouse pointer comes off the section of graph while it is being moved, release the button and repeat the procedure. If you lose track of the curve and cannot find it again after shifting an enlarged area, restore the graph to its original size (as described above).

In the case of Sensor No. 1, you have the extra option of displaying a greatly magnified diagram in a new window. To do so, double-click on "Graph overview" in the Sensor No. 1 diagram. This provides you with all the zoom functions described above in a new window titled "Sensor graph". The option of printing out the enlarged diagram via a printer is not available in the demo version. **A greatly enlarged diagram of all sensor data can be displayed and printed out in future commercial versions of the program.**

Note:

The zoom functions described above are also available for the left-hand or right-hand diagram in the main window.

Info ("?" menu)

This displays the version number of the aquastar-winsoft program and information relating to the copyright.

Helpful Hints

1. Sensor values “-5000”

If a value of “-5000” among the sensor values displayed in the main-window is wholly implausible, please try the following:

Under the main-menu item “system”, set the programming level in your iks-aquastars to “Profi”.

Change the duration of the **external display** from 2 (standard setting) to 1 second. In long-term test undertaken by the development department, no problems were encountered with the 2 second setting. It is therefore **not recommended** to set the duration of the **external display** to 3 or 4 seconds.

If such values appear nevertheless, it may be that the connection to the aquastar was interrupted during polling or that something similar occurred..

For this reason, first stop polling (and wait for the message “Data polling halted” to appear in the lower right-hand section of the status bar) before breaking the connection to the aquastar or temporarily switching it off.

If an incorrect reading does appear, you can load, edit and save the data table “Aquastar 1.db” using numerous Paradox-compatible data-base programs (e.g. Microsoft Access). The file is located in the directory “Database” in your destination directory of the aquastar-winssoft installation (see Item 5 in the section “Installation” in this manual).

Table entries cannot be edited with the demo version !

This option is planned for the future commercial version.

2. Creating a new data-base table

If you want to create a new table when starting aquastar-winssoft, proceed as follows:

End the aquastar-winssoft program. Open Windows-Explorer and the directory “Database” in the aquastar-winssoft installation destination directory. This is normally “C:\Programme\iks\aquastarwinssoft” or a directory you have specified during installation. Move or erase the files whose name begins with “Aquastar 1”. These files will be recreated the next time you start the program. **This will be more straightforward in the future commercial version with various menu items within the menu “File”.**

Known Bugs

1. Overstepping the list index
Trick: Create a new data-base table as described above.
2. Table "Aquastar 1_Temp" does not exist or access denied.
This error occurs frequently when Windows-Explorer is open simultaneously and the above-mentioned file is being displayed. Close aquastar-winsoft and restart the program. Select another directory in Windows-Explorer.
3. "Unknown software error" with address in hexadecimal format.
4. The displayed value for an oxygen sensor in mg/l units is incorrect. (Factor 10)
Trick: In the main menu of your aquastar "Measurement settings - Display - Oxygen", set the unit to "% saturation" instead of "mg/l".

Software errors are remedied as soon as possible and placed at your disposal in suitably revised demo-versions for downloading from our homepage under <http://www.iks-aqua.com/html/d/aquastarwinsoft.htm> .

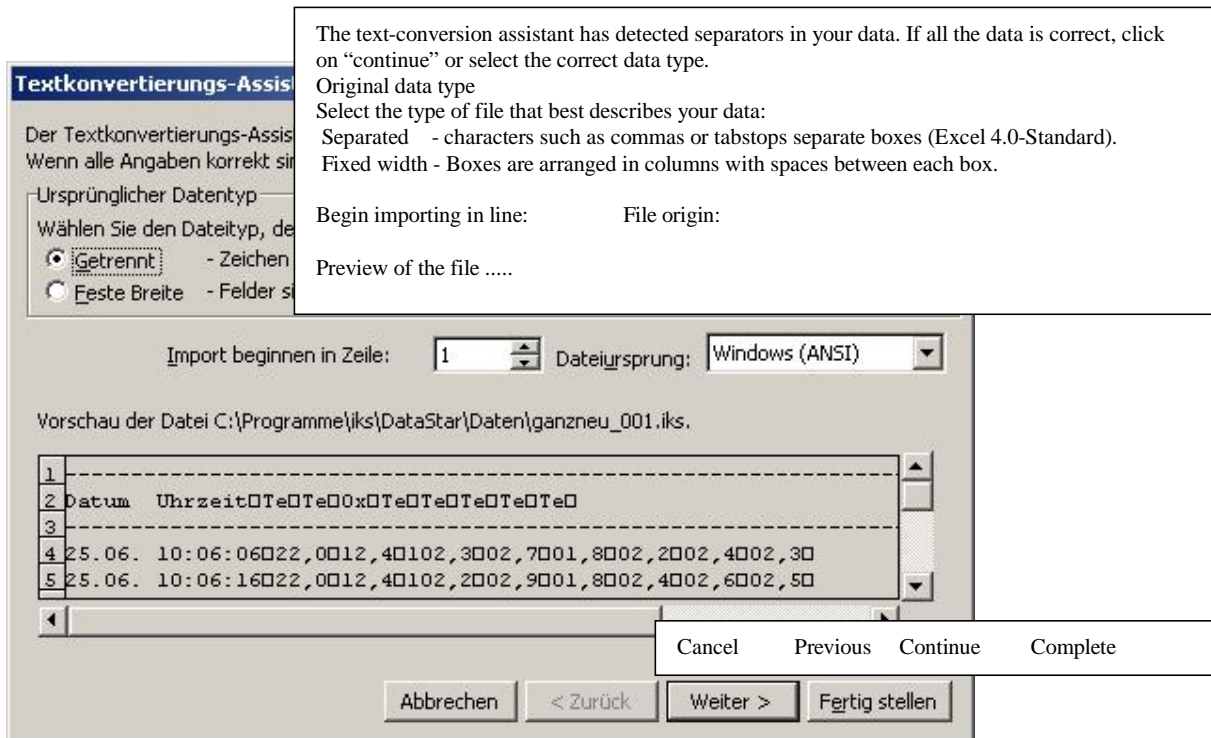
Please let us know your opinion of the program or what you think requires improvement. We will be glad to pass on your questions, ideas, suggestions for improvement and hints to our developers!

Send your e-mail to: Softwareentwicklung@iks-aqua.com
or fax to: +49 (0) 7202 9411 - 41

(Please enter "winsoft demo-version" in the "Re.:" box)

Thank you

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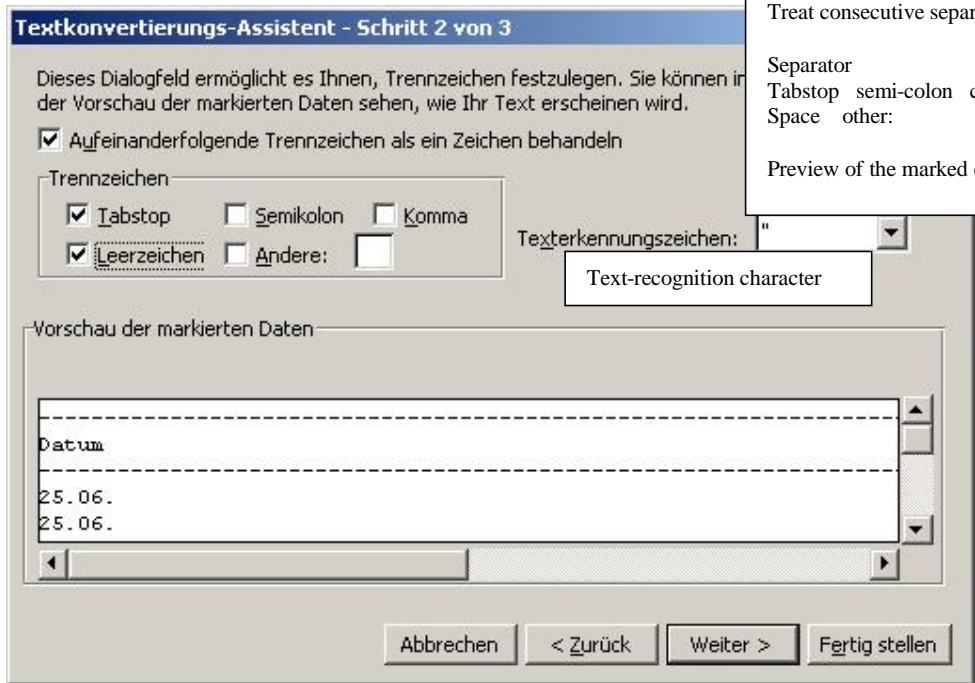


- Click on the "Continue" button.
- Step 2 of 3 of the text-conversion assistant appears.

This dialogue box enables you to set separators. The preview of the marked data shows you how your text will appear.
 Treat consecutive separators as one character

Separator
 Tabstop semi-colon comma
 Space other:

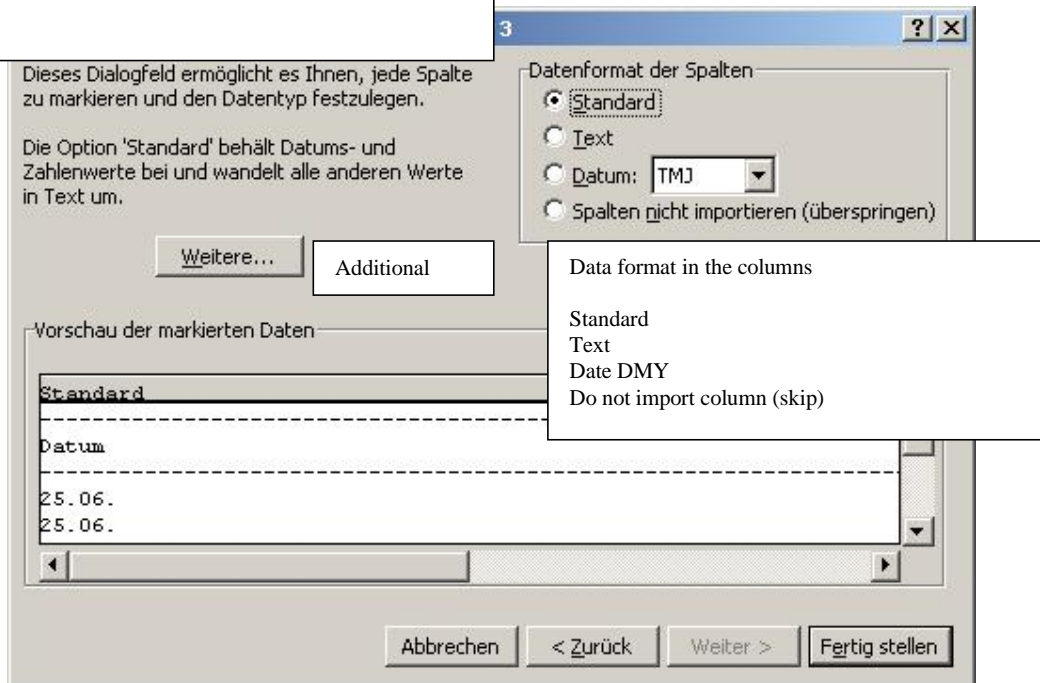
Preview of the marked data



- Select the boxes "Space" and "Tabstop" from "Separators".
- Click on the button "Continue"
- Text-conversion assistant Step 3 of 3 appears.

specify the data type.

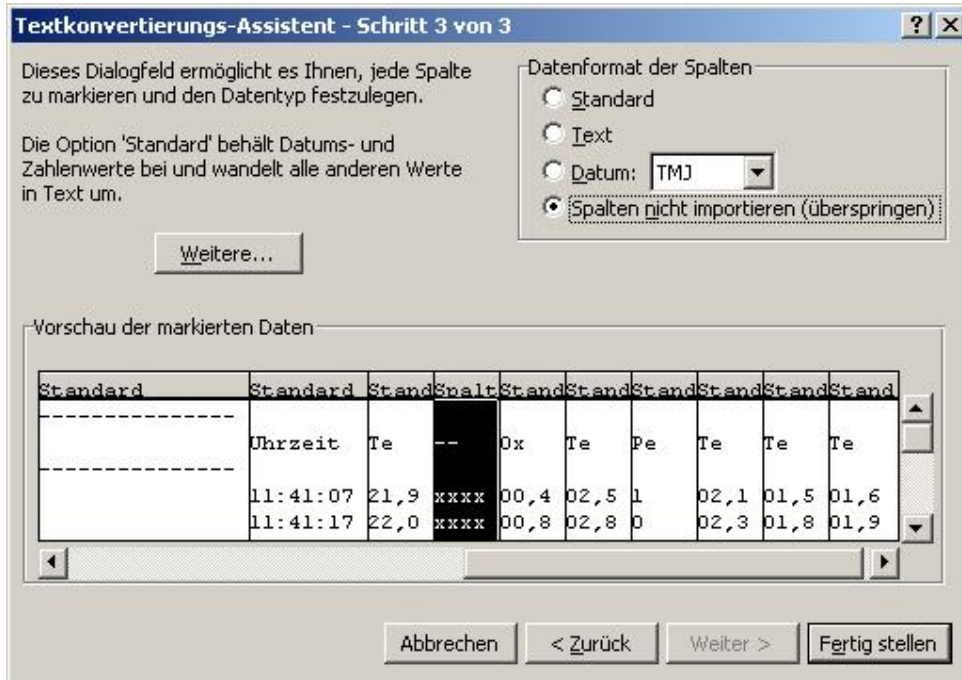
The option "Standard" retains dates and figures and transforms all other values to text.



- It is now easiest to click on the button "Complete"
- This produces the following result:

	A	B	C	D	E	F	G	H	I
1									
2	Datum	Uhrzeit	Te	--	Ox	Te	Pe	Te	Te
3									
4	25.06.	11:41:07	21,9	xxxx	0,4	2,5	1	2,1	1,5
5	25.06.	11:41:17	22	xxxx	0,8	2,8	0	2,3	1,8
6	25.06.	11:41:27	22	xxxx	0,9	2,9	1	2,5	2,1
7	25.06.	11:41:37	21,9	xxxx	1	2,9	1	2,5	2,3
8	25.06.	11:41:47	21,9	xxxx	1	2,9	1	2,5	2,5
9	25.06.	11:41:57	21,9	xxxx	1	2,9	1	2,5	2,6
10	25.06.	11:42:07	21,9	xxxx	1	2,9	1	2,5	2,6
11	25.06.	11:42:17	21,9	xxxx	1	2,9	1	2,5	2,7
12	25.06.	11:42:27	21,9	xxxx	1	2,9	1	2,5	2,7
13	25.06.	11:42:37	21,9	xxxx	1	2,9	1	2,5	2,7
14	25.06.	11:42:47	21,9	xxxx	1	2,9	1	2,5	2,7
15	25.06.	11:42:57	21,9	xxxx	1	2,9	1	2,5	2,7
16	25.06.	11:43:07	21,9	xxxx	1	2,9	1	2,5	2,7
17	25.06.	11:43:17	21,9	xxxx	1	2,9	1	2,5	2,7
18	25.06.	11:43:27	21,9	xxxx	1	2,9	1	2,5	2,7
19	25.06.	11:43:37	21,9	xxxx	1	2,9	1	2,5	2,7
20	25.06.	11:43:47	21,9	xxxx	1	2,9	1	2,5	2,7
21	25.06.	11:43:57	21,9	xxxx	1	2,9	1	2,5	2,7
22	25.06.	11:44:07	21,9	xxxx	1	2,9	1	2,5	2,7
23	25.06.	11:44:17	21,9	xxxx	1	2,9	1	2,5	2,7

- In Step 3 of 3 however, you can format each individual column.

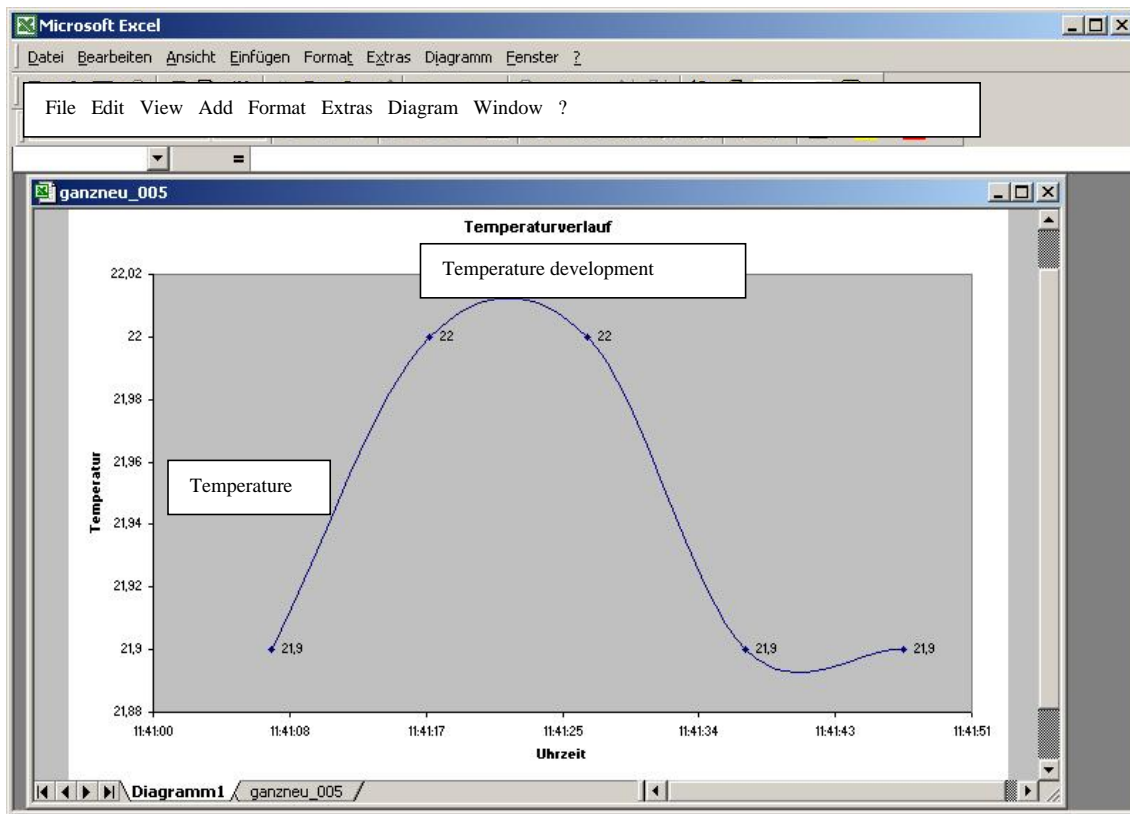


- However, it is only worthwhile formatting the first column with “Date”.
- Columns that represent vacant sensor sockets (xxxx) can also be simply omitted by means of “Do not import columns (skip)”.

This produces the following result:

	A	B	C	D	E	F	G	H	I
1									
2	Datum	Uhrzeit	Te	Ox	Te	Pe	Te	Te	Te
3									
4	25. Jun	11:41:07	21,9	0,4	2,5	1	2,1	1,5	1,6
5	25. Jun	11:41:17	22	0,8	2,8	0	2,3	1,8	1,9
6	25. Jun	11:41:27	22	0,9	2,9	1	2,5	2,1	2,1
7	25. Jun	11:41:37	21,9	1	2,9	1	2,5	2,3	2,3
8	25. Jun	11:41:47	21,9	1	2,9	1	2,5	2,5	2,5
9	25. Jun	11:41:57	21,9	1	2,9	1	2,5	2,6	2,5
10	25. Jun	11:42:07	21,9	1	2,9	1	2,5	2,6	2,6
11	25. Jun	11:42:17	21,9	1	2,9	1	2,5	2,7	2,6
12	25. Jun	11:42:27	21,9	1	2,9	1	2,5	2,7	2,6
13	25. Jun	11:42:37	21,9	1	2,9	1	2,5	2,7	2,6
14	25. Jun	11:42:47	21,9	1	2,9	1	2,5	2,7	2,6
15	25. Jun	11:42:57	21,9	1	2,9	1	2,5	2,7	2,6
16	25. Jun	11:43:07	21,9	1	2,9	1	2,5	2,7	2,6
17	25. Jun	11:43:17	21,9	1	2,9	1	2,5	2,7	2,6
18	25. Jun	11:43:27	21,9	1	2,9	1	2,5	2,7	2,6
19	25. Jun	11:43:37	21,9	1	2,9	1	2,5	2,7	2,6
20	25. Jun	11:43:47	21,9	1	2,9	1	2,5	2,7	2,6
21	25. Jun	11:43:57	21,9	1	2,9	1	2,5	2,7	2,6
22	25. Jun	11:44:07	21,9	1	2,9	1	2,5	2,7	2,6
23	25. Jun	11:44:17	21,9	1	2,9	1	2,5	2,7	2,6

You can also use Excel's diagram assistant to present the saved values in the form of a graph.



Yours faithfully

iks ComputerSysteme GmbH