



testo Comfort Software Basic 5

Instruction manual



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2 About this document

Use

- > Please read this documentation through carefully and familiarize yourself with the product before putting it to use. Pay particular attention to the safety instructions and warning advice in order to prevent injuries and damage to the products.
- > Keep this document to hand so that you can refer to it when necessary.
- > Hand this documentation on to any subsequent users of the product.



Knowledge of Windows® operating systems is required when working with the software.

Symbols and writing standards

Representa- tion	Explanation
	Note: Basic or further information.
1. ... 2. ...	Action: more steps, the sequence must be followed.
> ...	Action: a step or an optional step.
- ...	Result of an action.
Menu	Elements of the program interface.
[OK]	Buttons of the program interface.
... ...	Functions/paths within a menu.
“...”	Example entries

3 Specifications

3.1. Use

The testo Comfort Software Basic 5 serves the purpose of saving, reading out and analysing individual readings and measurement series. The graphical presentation of readings is the main task of this program.

Readings are measured with Test Data Loggers and transmitted to the PC via an interface.

Reading out data is accomplished with the testo Comfort Software Basic 5, which activates the interfaces and provides all functions.

3.2. System requirements

Operating system

The software will run on the following operating systems:

- Windows® XP ServicePack 3 (SP3)
- Windows Vista
- Windows 7
- Windows 8, Windows 8 Pro, Windows 8 Enterprise
- Others: on request

Computer

The computer must meet the requirements of the corresponding operating system. The following requirements must additionally be fulfilled:

- Interface USB 1.1 or higher
- Internet Explorer 5.0 SP1 or higher
- min. 2 GHz CPU
- min. 1 GB of RAM, but 2 GB of RAM is recommended



Date and time settings will be automatically accepted by the PC. The administrator must make sure that the system time is regularly compared with a reliable time source and adjusted, if necessary, to ensure authenticity of the measurement data.

4 First steps

4.1. Downloading software

i The testo Comfort Software Basic 5 software can be ordered on CD (article no. 0572 0580) if the download from the Internet is not desired.

1. Download testo Comfort Software Basic 5 software in the Internet free of charge at www.testo.com/download-center (registration required).
2. Save Zip file with software.

4.2. Installing the software/driver

i Administrator rights are required for installation.

i If you have already installed Comfort Software version 3.4 or 4.0, please proceed as follows:

1. Update existing software. The updates can be found at www.testo.com/download-center.
 2. Install Comfort Software 5.
 3. Delete instrument links from the archive and create them again via Autodect, see Comfort Software 3.4 operating instructions.
-

1. Select the folder in which the downloaded Zip-file was saved and unpack the Zip-file.

Or

1. Insert the program CD into the CD-ROM drive of the computer.
2. Start the file **Setup.exe**.
3. Follow the instructions of the installation wizard.

When installing under Vista, please pay attention to the following steps during the installation process:

- The window **User account control** is opened:
 - > Click on **[Next]**.
- The window **Windows Security** is opened:
 - > Choose **Still install this driver software**.

4. Click on **[Complete]** to complete the software installation.

After completion of the software installation, the instrument must be connected to the PC to continue with the driver installation.

5. Use the USB-cable to connect the instrument to the PC.
 - The connection will be set up.
 - The driver installation will be executed automatically.



For Windows XP: Once the software has been installed, each USB port you want to use to connect the data loggers to the PC must be enabled by the administrator:

1. Connect the data logger to the relevant USB port.
2. Install driver 175_176.
 - > The data logger can be connected and used at the enabled USB port without administrator rights.

Once Comfort Software 5 has been uninstalled, the drivers must be uninstalled manually.

In some cases, the instrument driver may not be automatically recognized. In this case, continue as follows:

Windows XP:

- The window **New hardware found** is opened.
 1. Choose **No, not this time** and click on **[Next]**.
 2. Choose **Install software automatically** and click on **[Next]**.

If the driver is not automatically found:

- > Enter the path to the driver: Folder **Testo USB Driver**.
- 3. Click on **[Complete]**.

Windows Vista / Windows 7:

- The window **New hardware found** is opened.
 1. Choose **Search and install driver software** and click on **[Next]**.

If the driver is not automatically found:

- > Choose **Search computer for driver software** and click on **[Search]**. Enter the path to the driver: Folder **Testo USB Driver**.
- The window **Windows Security** is opened:
 2. Choose **Still install this driver software**.
 3. Click on **[Close]**.

4.3. Starting the software

Starting the Comfort software

i The user interface of the software is opened in the language of the operating system, if it is supported. If the language of the operating system is not supported, the user interface is in English.

- > Click on **[Start] | Programs** (Windows XP) or **All programs** (Windows Vista, Windows 7) | **Testo | Comfort Software**.
-

i Under Windows Vista the window **User account control** is opened when the software is started the first time.

- > Click on **Accept**.
-

5 Using the product

5.1. Start page

After starting testo Comfort Software Basic 5 the start screen will appear.



- 1 Menu bar with status information (left)
- 2 Quick access with preview screen



If no instrument is connected to the software, the preview screen will show the connection page.

5.2. Making settings

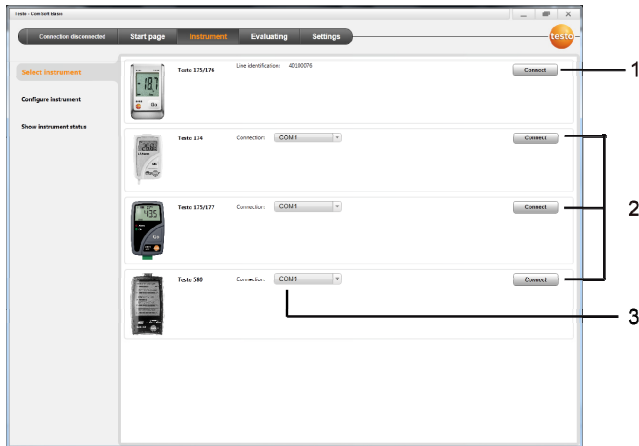


The user interface of the software is opened in the language of the operating system if this is supported. If the operating system language is not supported, the user interface is in English.

1. Choose menu **Settings**.
 2. Select the desired language.
 3. Click on **[Save]**.
 4. Close the software.
 5. Open the software.
- The user interface of the software will open in the set language.

5.3. Connect instrument

- ✓ Instrument connected to PC.
- > Choose **Connect instrument** via start page or menu **Instrument | Select instrument**.
- Instruments are displayed with picture and type designation.



- 1 Data loggers (0572 1560, 0572 6560, 0572 1751-1754, 0572 1761-1767) only appear, if they are connected to the PC.
- 2 Data loggers (0563 1741, 0563 1754-1761, 0563 1771-1775, 0554 1778) appear by default each time the software is started.
- 3 Selection field for all data loggers (2), to choose the associated COM-Port.

For data loggers (0572 1560, 0572 6560, 0572 1751-1754, 0572 1761-1767)

1. Choose the instrument and click on **[Connect]**.



Only one instrument can be connected at a time.

- The instrument appears in the status display to the left of the menu bar.
 - The button **[Connect]** changes to **[Disconnect]**.
 - The **Instrument | Status** is displayed.
-



The status display only serves the purpose of information.
The values cannot be edited.

For data loggers (0563 1741, 0563 1754-1761, 0563 1771-1775, 0554 1778)

1. Choose the COM-Port (usually the COM-Port with the highest number, otherwise see section under "If not possible to connect").
2. Choose the desired instrument and click on **[Connect]**.



Only one instrument can be connected at a time.

- The instrument appears in the status display to the left of the menu bar.
 - The button **[Connect]** changes to **[Disconnect]**.
 - The **Instrument | Show instrument status** is displayed.
-



The status display only serves the purpose of information.
The values cannot be edited.

If not possible to connect:

Under Windows XP:

1. Choose **Start | Settings | System control | System | Hardware | Device manager**.

Under Windows Vista:

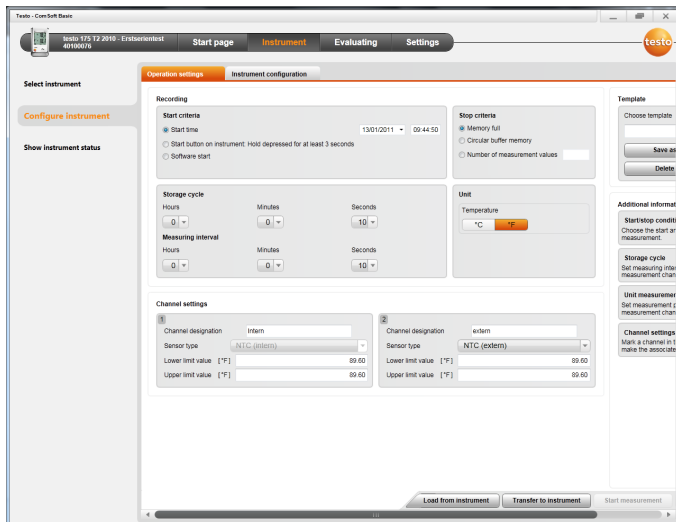
1. Choose **Start | System control | System and maintenance | Device manager**.

Under Windows 7:

1. Choose **Start | System control | System and security | System | Device manager**.
2. Click on **Connections (COM and LPT)**.
 - The entries of these categories are displayed.
3. Search for entries "Testo ...", followed by a COM interface number.
4. Select this individual COM interface number in the selection field (3).
5. Click on **[Connect]**.

i The COM interface number will only remain equal if you connect the USB interface always to the same USB-port or leave it plugged in.

5.4. Configure instrument



- ✓ The instrument is connected with testo Comfort Software Basic 5 and is displayed in the status bar, see **Connect instrument** page 10.
- ✓ Instrument is not in Rec-mode. If necessary click on **[Stop measurement]**.

1. Choose **Configure operation settings** via the start page or the menu **Instrument | Configure instrument | Operation settings**.
2. Make the desired settings (instrument specific) for
 - Start criteria
 - Start time: The instrument starts at the pre-set time.
 - Start button on instrument: Hold **[Go]** depressed for longer than 3 seconds.
 - Software start: Click on **[Start measurement]**.
 - Formula: With formula start, explicit process events may become the start point of the measurement. For each measuring channel, a formula can be assigned, which can then additionally be linked by operators. The instrument will only start measuring after the limiting value of the entered formula is exceeded. The measurement will therefore only stop when the software is terminated: Click on **[Stop measurement]**.
 - Stop criteria
 - Memory full: The instrument stops the measurement as soon as the memory is full.
 - Circular buffer memory: If the memory is full, the instrument will first overwrite the "oldest" readings. The measurement will therefore only stop when the software is terminated: Click on **[Stop measurement]**.
 - Number of readings: The instrument stops the measurement as soon as the defined number of readings has been obtained.
 - Storage cycle determines the frequency with which the readings are saved. The storage cycle must be a multiple of the measuring interval.
 - Measuring interval determines the frequency with which the readings can be recorded and displayed (e.g. via the display).
 - Unit determines the unit used to record and display the readings in the display.

- Channel settings: Enter channel designation and limiting values.
With sensors connected: Select the sensor type.
With connections closed with blanking plugs: Choose **switched off**.



With sensors connected the channel number refers to the port number printed on the instrument housing.

Without assignment of the sensor type to the correct instrument port the instrument will not record any sensor readings.

3. Change to the tab **Instrument configuration**.
4. Enter instrument name (max. 15 characters) and description (max. 70 or 265 characters depending on the instrument), and carry out display settings.
5. Click on **[Transfer to instrument]**.
 - Configuration is completed.
 - > If **Software start** has been selected as a start criterion: **[Start measurement]**.

Template

By using templates one can save the configuration settings for later instrument configurations.

1. Enter text under **Choose template**.
2. Click on **[Save as template]**.

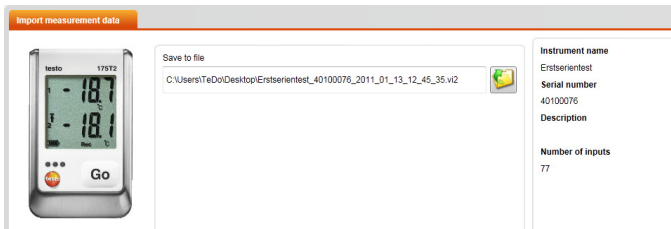
To call up a saved configuration:

1. Enter the name of the desired template into the selection field.
 - The saved settings are displayed.
2. Click on **[Transfer to instrument]**.
 - The settings are transferred to the data logger.

5.5. Import measurement data

From the instrument

- ✓ The instrument is connected to the PC and has recorded measurement data.
- 1. Choose **Import of measurement data** from the start page or via menu **Evaluating | Import measurement data | Import measurement data**.
- Details concerning measurement data like instrument name, serial number and location are displayed.



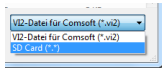
- 2. Click on the folder icon to select the path under which the measurement data are to be saved.
- 3. Click on **[Import]**.
 - The screen changes to the tab **Import history**.
 - The status bar of the current import and previously performed import processes are displayed.
 - Once the import of measurement data has been completed the display will change to the **Evaluation** section.

From SD-card

- ✓ Measurement data were copied to the SD-card, see operating instructions of the instrument.
- ✓ SD-card connected to PC.
- 1. Select menu **Evaluating | Evaluate measurement data**.
- 2. Click on **[Open file]**.

5 Using the product

3. Choose SD-card.
4. Choose the file type **SD Card (*.*)**.



5. Select the desired measurement data file.
 6. Click on **[Open]**.
- The measurement data appear in the chosen form of representation.
 - > Save measurement data as a .vi2 file: Click **[Save as]**.

5.6. Evaluate measurement data

- ✓ Measurement data were imported, see **Import measurement data** Page 15.

1. Select menu **Evaluate | Evaluate measurement data**.

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- 1 Display of file name of the opened file. The tabs can be used for editing several series of measurement data.
 - 2 Display of measurement data in form of diagram.
 - 3 Display of measurement data in form of table. For the representation of alarms: Click on **[Show alarms]**.
- > Click button  to expand the Diagram settings menu.

- 4 Make settings for the measuring channels.
- 5 Make settings for the diagram. Zoom inside diagram with the mouse wheel.
- 6 Export selected measurement data into new report or to clipboard.
- 7 Print or export report.

With **[Print report]** one can make settings to the report form, via **[Start export]** you use a standard report form and the file is directly saved.

-
- i** For the html export format, 50,000 measured values can be exported per file.
For the xls export format, 65,000 measured values can be exported per worksheet and 650,000 per Excel file. If the number of measured values is above the maximum possible value per file, additional files are generated.
-

- 8 Send measurement data by e-mail: Click on **[send e-mail]**.

- i** The PC must have an e-mail program installed.
-

6 Tips and assistance

6.1. Questions and answers

Question	Possible causes / solution
Instrument does not respond...	<p>This message appears if the PC program cannot communicate with the connected measuring instrument or if the measuring instrument does not respond.</p> <ul style="list-style-type: none"> • Check whether the instrument is switched on. • Check the connecting cable. • Is the instrument correctly supplied with power? • Is the connecting cable connected to the right COM port?
The device cannot be connected to the software.	<ul style="list-style-type: none"> • Uninstall the software and the USB driver testo 175-176. • Install the software under the Windows user Administrator. <p>i This user must be activated where possible for Windows Vista and Windows 7.</p>
Invalid name: The characters: !,?,*,;, \ cannot be used in location and folder names.	Rename these items and do not use these special characters.
An instrument setting with this name already exists: Please choose a new name.	Different names should be used when setting up new instruments, the same name should not be used for different instruments.

