testo ComSoft Basic Software

Instruction manual

1 Contents

1 Contents 3

2 About this document 4

3 Specifications 5

3.1. Use 5

3.2. System requirements 5

4 First steps 6

4.1. Downloading software 6

4.2. Installing the software/driver 6

4.3. Starting the software 7

5 Using the product 8

5.1. Start page 8

5.2. Making settings 8

5.3. Connect instrument 9

5.4. Configure instrument 11

5.5. Import measurement data 13

5.6. Evaluate measurement data 14

6 Tips and assistance 16

6.1. Questions and answers 16

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

Representation	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 ComSoft Basic Software 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 ComSoft Basic Software, which activates the interfaces and provides all functions.

3.2. System requirements

Operating system

The software will run on the following operating systems:

- Windows® 10
- Windows® 11
- Others: on request

Computer

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

- Interface USB 2.0 or higher
- Interface Explorer 9.0 or higher

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

1. Download testo ComSoft Basic 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

Administrator rights are required for installation.

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 ComSoft Basic Software.
3. Delete instrument links from the archive and create them again via Autodect.

1. Select the folder in which the downloaded Zip-file was saved and unpack the Zip-file.
2. Start the file **Setup.exe**.
3. Follow the instructions of the installation wizard.
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.

4.3. Starting the software

Starting the ComSoft Basic software

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.

Windows program menu

1. Click on **[Start]** | **All Apps** | **Testo** | Click on **ComSoft Basic** (double-click on left mouse button).
6. When the **User Account Control** window opens: Click on **[Yes]**.

- The user name and password prompt opens.

Please take note of the following information regarding the user name and password:

- User name and password are not linked.
- The password serves the purpose of protecting the adjustment data within the probe to prevent unauthorised changes. The password is saved to the probe, and each probe is issued an individual password.

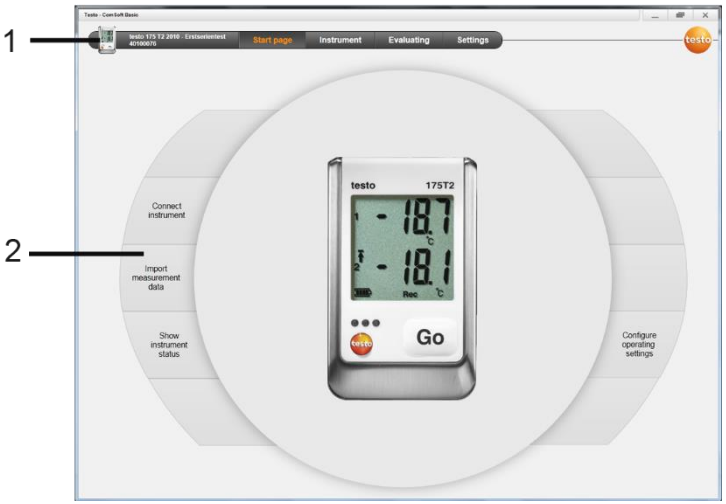
7. Enter the user name.
8. Enter the password. If you have not yet issued an individual password: Enter “testo”.
9. Click on **[OK]**.

- **ComSoft Basic** will start.

5 Using the product

5.1. Start page

After starting testo ComSoft Basic Software 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 (0563 1741, 0572 1740-1743, 0572 1560, 0572 6560, 0572 1751-1754, 0572 1761-1767) only appear, if they are connected to the PC.

2 Data loggers (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 (0563 1741, 0572 1740-1743, 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 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:

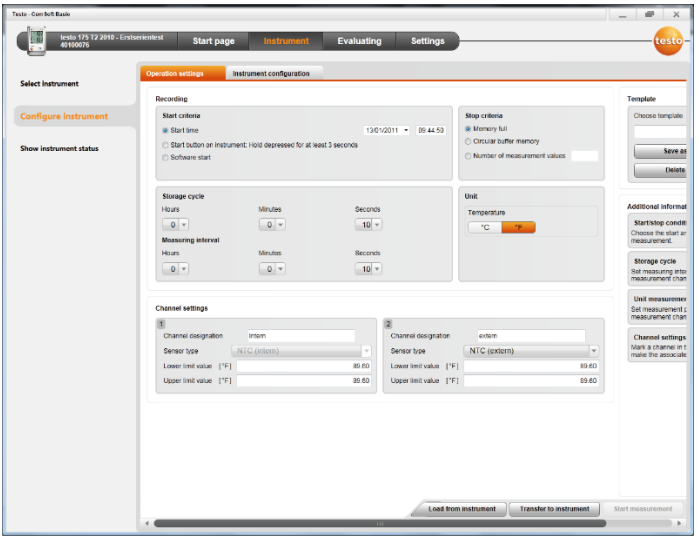
1. Choose **Start** | **System control** | **System and security** | **System** | **Device manager**.
2. Click on **Connections (COM and LPT)**.

- 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]**.

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 ComSoft Basic Software and is displayed in the status bar, see **Connect instrument** page 9.

✓ 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.

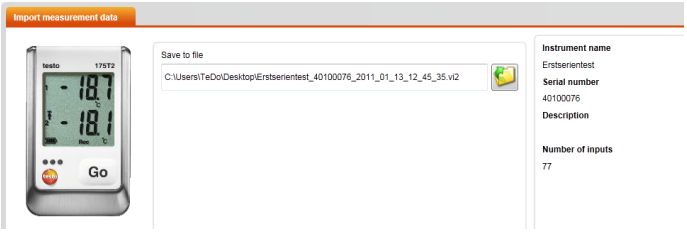
2. Click on **[Transfer to instrument]**.
- The settings are transferred to the data logger.

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.



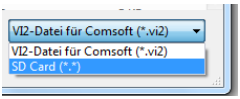
2. Click on the folder icon to select the path under which the measurement data are to be saved.
3. Click on **[Import]**.
- The screen changes to the tab **Import history**.
- The status bar of the current import and previously performed import processes are displayed.
- Once the import of measurement 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]**.
3. Choose SD-card.
4. Choose the file type **SD Card (*.*)**.



5. Select the desired measurement data file.
6. Click on **[Open]**.

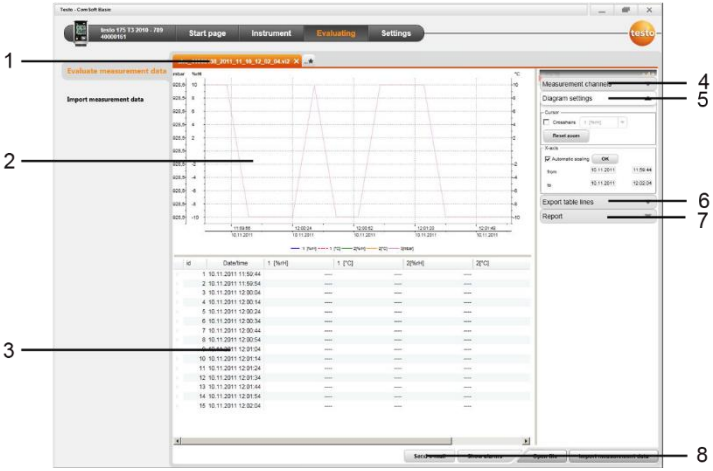
- The measurement data appear in the chosen form of representation.

> Save measurement data as a .vi2 file: Click **[Save as]**.

5.6. Evaluate measurement data

✓ Measurement data were imported, see **Import measurement data** Page 13.

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



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.

	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]**.

	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...	This message appears if the PC program cannot communicate with the connected measuring instrument or if the measuring instrument does not respond. • 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.	• Uninstall the software and the USB driver **testo 175-176**. • Install the software under the Windows user**Administrator**.
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.
Connection problems if testo 174 and testo 175/176 loggers are connected at the same time to the computer	if you want to connect testo 174 and testo 175/176 loggers at the same time to ComSoft and you have problems, only connect one logger at the same time to the USB port of your computer.

Testo SE & Co. KGaA
Celsiusstraße 2
79822 Titisee-Neustadt
Germany
Telefon: +49 7653 681-0
E-Mail: info@testo.de
Internet: www.testo.com

0970 0468 en 09 – 12.2024