



testo 425 - Digital hot wire anemometer 0560 0425

Instruction manual



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1 About this document

- The instruction manual is an integral part of the instrument.
- Keep this documentation to hand so that you can refer to it when necessary.
- Always use the complete original instruction manual.
- Please read this instruction manual through carefully and familiarize yourself with the product before putting it to use.
- Hand this instruction manual on to any subsequent users of the product.
- Pay particular attention to the safety instructions and warning advice in order to prevent injury and damage to the product.

2 Safety and disposal

2.1 Security

General safety instructions

- Only operate the product properly, for its intended purpose, and within the parameters specified in the technical data.
- Do not apply any force.
- Do not operate the instrument if there are signs of damage to the housing or connected cables.
- Dangers may also arise from objects to be measured or the measuring environment. Always comply with the locally valid safety regulations when carrying out measurements.
- Do not store the product together with solvents.
- Do not use any desiccants.
- Only perform maintenance and repair work on this instrument that is described in this documentation. Follow the prescribed steps exactly when doing the work.
- Use only original spare parts from Testo.

Batteries

- Improper use of batteries may cause the batteries to be destroyed, or lead to injury due to current surges, fire or escaping chemicals.
- Only use the batteries supplied in accordance with the instructions in the instruction manual.
- Do not short-circuit the batteries.
- Do not take the batteries apart and do not modify them.

2 Safety and disposal

- Do not expose the batteries to heavy impacts, water, fire or temperatures in excess of 60 °C.
- Do not store the batteries in the proximity of metal objects.
- In the event of contact with battery acid: rinse affected areas thoroughly with water, and if necessary consult a doctor.
- Do not use any leaky or damaged batteries.

Warnings

Always pay attention to any information denoted by the following warnings. Implement the precautionary measures specified!

 **DANGER**

Risk of death!

 **WARNING**

Indicates possible serious injury.

 **CAUTION**

Indicates possible minor injury.

CAUTION

Indicates possible damage to equipment.

2.2 Disposal

- Dispose of faulty rechargeable batteries and spent batteries in accordance with the valid legal specifications.
- At the end of its useful life, deliver the product to the separate collection point for electric and electronic devices (observe local regulations) or return the product to Testo for disposal.



-  WEEE Reg. No. DE 75334352

3 Product-specific information

- Do not carry out measurements on live components.
- Do not expose handles and feed lines to temperatures in excess of 70°C unless they are expressly approved for higher temperatures. Temperature specifications on probes/sensors refer only to the measuring range of the sensor system.
- Only open the measuring instrument if this is expressly described in the documentation for the purposes of maintenance or servicing.

4 Intended use

The testo 425 is a compact instrument for measuring flow velocities and temperatures by means of a permanently connected flow/temperature probe (hot wire probe).

The product is designed for the following tasks/areas:

- Volume flow measurements in ducts
- Measuring flow velocities in rooms
- Temperature measurement of flows

The product should not be used in the following areas:

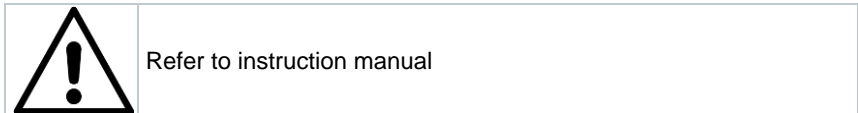
- In potentially explosive atmospheres.
- For diagnostic measurements in the medical field.

5 Product description

5.1 Instrument overview



Explanation of icons



CAUTION

Damage to sensor possible!

- Do not touch sensor!
- Close the protective sleeve after the measurement.

6 First steps

6.1 Inserting / changing batteries

- ✓ The instrument is switched off.
- 1 Open the battery compartment (on the back of the instrument) via the snap lock.
- 2 Insert or replace batteries (3 x AA batteries).

Observe the polarity!
- 3 Close the battery compartment.



When not in use for a long period: Take out the (rechargeable) batteries.

Symbol explanation

	Do not allow children under 6 years of age to play with batteries.
	Do not throw batteries in the trash.
	Do not charge batteries.
	Do not place batteries near fire.
	Batteries are recyclable.

6.2 Getting to know the product

6.2.1 Connecting probes

The required probes are permanently connected or integrated. It is not possible to connect any additional sensors.

6.2.2 Switching the instrument on and off

Switching on

- 1 | Press and hold down (2 sec) the **On/Off** key.
- ▶ | Measurement view is opened:

The current reading is displayed or ----- lights up if no reading is available.

Switching off

- 1 | Press and hold down (2 sec) the **On/Off** key.
- ▶ | The display turns off.

6.2.3 Switching the display illumination on and off

- ✓ | The measuring instrument is switched on.
- 1 | Press and hold down (2 sec) the **MENU/ENTER** key.
- ▶ | The display illumination is switched on or off.

6.3 Establishing a Bluetooth® connection



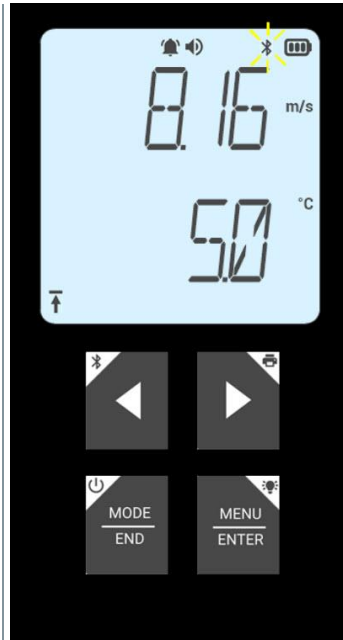
The instrument can be connected to the **testo Smart App** via Bluetooth® connection

- ✓ The measuring instrument is switched on.
- ▶ To enable the Bluetooth® connection for the first time, press and hold (approx. 2 sec) the ◀ key.

While the instrument is trying to establish a Bluetooth® connection, the ✱ icon flashes on the display.

Bluetooth® remains enabled until it is disabled manually by pressing and holding (approx. 2 sec) the ◀ key.

The measuring instrument saves the Bluetooth® setting and, depending on the configuration, starts up with Bluetooth® enabled or disabled.



6.3.1 Establishing a Bluetooth® connection to the testo Smart App




To establish a connection via Bluetooth®, you need a tablet or smartphone with the Testo Smart App already installed on it.

You can get the App for iOS instruments in the App Store or for Android instruments in the Play Store.

Compatibility:

Requires iOS 13.0 or later/Android 8.0 or later, requires Bluetooth® 4.2.



- ✓ Bluetooth® is enabled in the measuring instrument.
- 1 Open the testo Smart App.
 - ▶ The app automatically searches for Bluetooth® devices in the vicinity.
- 2 In the **Sensors** menu, check whether the required instrument is connected.
 - ▶ If necessary, switch the instrument to be connected off and on again to restart the connection module.
 - ▶ When the testo Smart App is connected to the measuring instrument, the  icon appears on the measuring instrument display.

The measuring instrument automatically synchronizes its date and time settings with the testo Smart App.

Once connected successfully, the current measured value from the measuring instrument appears on the app screen in the Live view.

7 Using the product

7.1 Controls on the measuring instrument

- ✓ The instrument is switched on.
- ✓ The **testo Smart App** is installed on the smartphone and connected to the instrument via Bluetooth®.
- ▶ Settings and controls are implemented either on the instrument or via the app.



If the measuring instrument is connected to the **testo Smart App**, settings can only be made via the app. The measuring instrument then remains in the measurement view and other menus, e.g. Settings, cannot be opened.



1	On/Off / MODE/END key
2	Bluetooth® / ◀ key
3	Battery indicator
4	Parameter 1 unit
5	Parameter 1 measured value display
6	Parameter 2 measured value display

7	Parameter 2 selected unit
8	Print / ► key
9	Illumination / MENU/ENTER key

7.1.1 Implementing settings

Selecting, opening and setting functions

- 1 Press the relevant key to select the functions






Secondary assignment (long press)




All keys with a grey corner have a secondary assignment, which can be selected by pressing and holding the key for a longer time (2 sec).

Adjustable functions



Ensure correct settings: all settings are transferred immediately. There is no Cancel function.

Function	Setting options/comments
Bluetooth® (long press) 	Switch the Bluetooth® connection on or off
Arrow left 	Freeze reading (HOLD function), display maximum/minimum value. In configuration mode: Decrease value, select option
On/Off (long press) 	Switches the instrument on or off
MODE/END 	Select or end multi-point or continuous mean calculation.
Display illumination (long press) 	OFF (display illumination not active) or ON (display illumination active)

Function	Setting options/comments
MENU/ENTER 	Open configuration mode Start continuous measurement / record multi-point readings (Operation also possible directly on measuring instrument if it is connected to the app) In configuration mode: Confirm input
Print (long press) 	Output readings via external printer
Arrow right 	Change second measurement parameter (bottom line) In configuration mode: Increase value, select option

7.1.2 Opening configuration mode

- ✓ The instrument is switched on and is in the measurement view.
- 1 Press **MENU/ENTER** until the display changes.
- ▶ The instrument is now in configuration mode.
- ▶ Press **MENU/ENTER** to switch to the next function. You can leave configuration mode at any time. To do this, press **MODE/END** until the instrument has changed to the measurement view. Any changes that have already been made in configuration mode will be saved.

7.1.3 Setting the unit

- ✓ Configuration mode is open, "UNITS" is displayed.
- 1 Press **◀ / ▶** to choose between metric ("METR") and imperial ("IMPER") units of measurement and confirm with **MENU/ENTER**.
- 2 Press **◀ / ▶** to set the required unit for the top line (m/s, fpm) and confirm with **MENU/ENTER**.

- 3 Press ◀ / ▶ to set the required unit for the bottom line (m³/h, l/s, cfm) and confirm with **MENU/ENTER**.

7.1.4 Setting the area

- ✓ Configuration mode is open, "AREA" is displayed.
- 1 Press ◀ / ▶ to select whether the cross-sectional area is to be entered in m² or in mm² and confirm with **MENU/ENTER**.
- 2 Press ◀ / ▶ to set the cross-sectional area and confirm with **MENU/ENTER**.

7.1.5 Reading absolute pressure

Thanks to a built-in absolute pressure sensor (measurements are taken on the measuring instrument, not on the probe head), no additional input of the air density is required.

- ✓ Configuration mode is open.
- 1 Press ◀ / ▶ to scroll through the configuration menus until "P_ABS" (absolute pressure) is displayed.
- ▶ The current ambient air pressure is displayed.

7.1.6 Carrying out a reset of the setting menus

- ✓ Configuration mode is open, "M. RES" (menu reset) is displayed.
- 1 Press ◀ / ▶ to select the required option and confirm with **MENU/ENTER**:
 - NO: Do not carry out reset.
 - YES: Carry out reset. All concealed menus that were hidden via the testo Smart App are displayed again.
- ▶ The instrument returns to measurement view.

7.1.7 Carrying out a reset of the measuring instrument

- ✓ Configuration mode is open, "RESET" is displayed.

- 1 Press ◀ / ▶ to select the required option and confirm with **MENU/ENTER**:
 - NO: Do not carry out reset.
 - YES: Carry out reset. The instrument is reset to the factory settings.
- ▶ The instrument returns to measurement view.

7.2 Measuring

- ✓ The instrument is switched on and is in the measurement view.

- 1 Position the probe.

The arrow mark on the probe head must point in the direction of flow.

The correct measurement value is determined by rotating the probe slightly in both directions until the maximum value is displayed.



- 2 Read the measured values on the display.

7.2.1 Changing the measurement channel display

- 1 - Switch between the display of temperature (°C, °F) and calculated volume flow (m³/h, l/s, cfm):

Press ▶ .

7.2.2 Freezing a reading, displaying the maximum/minimum value

The current reading can be frozen. The maximum and minimum values since the last time the instrument was switched on in the standard view or during a multi-point or continuous measurement can be displayed.

- 1 Press ◀ several times until the desired value is displayed.
- ▶ The following are displayed in turn:
 - Hold: frozen measured value
 - Max: Maximum value


- Min: Minimum value
- Current measuring value

7.2.3 Resetting maximum/minimum values



The maximum/minimum values of all channels can be reset to the current reading.

- 1 Press ◀ several times until Max or Min lights up.
 - 2 Hold down ◀ (approx. 2 s).
- ▶ All maximum and minimum values are reset to the current reading.

7.2.4 Carrying out multi-point mean calculation


- 1 Press **MODE/END**.
 - ▶  flashes.
 - ▶ The number of readings recorded is displayed in the upper line, while the current reading is displayed in the lower line.
- 2 To record readings (in the desired quantity):

Press **MENU/ENTER** (several times).
- 3 To end measurement and calculate the mean value:

Press **MODE/END**.
 - ▶  and  flash.
 - ▶ The number of measured values and the calculated multi-point mean value are displayed.
- 4 To switch back to the measuring view:

Press **MODE/END**.



7.2.5 Carrying out continuous mean calculation

- 1 Press **MODE/END** twice.
 - ▶  flashes.
 - ▶ The elapsed measuring time (mm:ss) is displayed in the upper line, while the current reading is displayed in the lower line.
- 2 Start measurement:

Press **MENU/ENTER**.
- 3 To interrupt/continue measurement:

Press **MENU/ENTER** each time.
- 4 To end measurement and calculate the mean value:

Press **MODE/END**.

 - ▶  and  flash.
 - ▶ The measurement period and the calculated continuous mean value are displayed.
- 5 To switch back to the measuring view:

Press **MODE/END**.

7.3 Printing data

- ✓ A testo Bluetooth®/IRDA printer (order no. 0554 0621) is connected via Bluetooth and switched on.



When first setting up a connection between the testo measuring instrument and the testo Bluetooth®/IRDA printer, the initialization phase can last up to 30 seconds.

- 1 Press and hold ▶ to transfer the data to the printer.
 - ▶ Data is printed out (LED on the printer flashes green).

8 Controls via testo Smart App










If the measuring instrument is connected to the testo Smart App, it is primarily operated via the app. The measuring instrument remains in the measurement view and settings menus cannot be opened on the measuring instrument.


8.1 Overview of operating controls


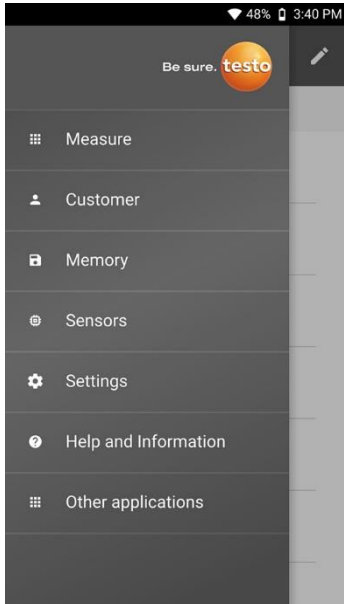








1	Choice of applications	2	Switch between the views (live, graphic, table)
3	Display of connected measuring instruments including readings	4	Start/stop
5	Measurement configuration (the menu changes depending on the measuring instrument connected and the application selected)	6	Configuration of the measuring instrument

Additional symbols on the user interface of the app (not numbered)


	One level back
	Exit view
	Share measurement data/report
	Searching
	Favourite
	Deleting
	Further information
	Display report
	Multiple selection

The **Main menu** can be accessed via the  icon at top left. To exit the main menu, select a menu or right-click on the guided menus. The last screen displayed is shown.

	Measure	
	Customer	
	Memory	
	Sensors	
	Settings	
	Help and Information	
	Other applications	

8.2 App options


8.2.1 Setting the language

- 1 | Click on .
- 2 | Select **Settings**.
- 3 | Select **Language**.
 - ▶ A selection list is displayed.
- 4 | Select the required language.
 - ▶ The language is changed.

8.2.2 Displaying App Info




In App Info you can find the version number of the installed App.

- 1 | Click on .
- 2 | Select **Help and Information**.
- 3 | Select **Instrument information**.
 - ▶ The version number of the app and the ID are displayed.

8.2.3 Displaying the tutorial




The tutorial guides you through the first steps in operating the testo Smart App.




- 1 | Click on .
- 2 | Select **Help and Information**.
 - ▶ The tutorial is displayed. In the tutorial, swipe to display the next page.
- 3 | Click **X** to quit the tutorial.

8.3 Application menus



8.3.1 Selecting an application menu

- 1 Click on .
- ▶ A selection of menus for various applications is displayed.
- 2 Select the required application.
- ▶ Your selected application is displayed.

8.3.2 Setting favourites


- 1 Click on .
- ▶ A selection of menus for various applications is displayed.
- 2 Select the application you want to set as a favourite.
- 3 Click on .
- ▶ The star is displayed in orange: .

8.3.3 Displaying information about an application


- 1 Click on .
- ▶ A selection of applications is displayed.
- 2 Click on .
- ▶ The information about an application is displayed.

8.4 Making measuring instrument settings

✓ | The measuring instrument is connected to the testo Smart App.

1 | Click on .

▶ | The main menu opens.

2 |  Click on **Sensors**.

▶ | The **Sensors** menu opens.

3 | Click on the required measuring instrument.

▶ | Information about the model, order number, serial number and firmware version is displayed.

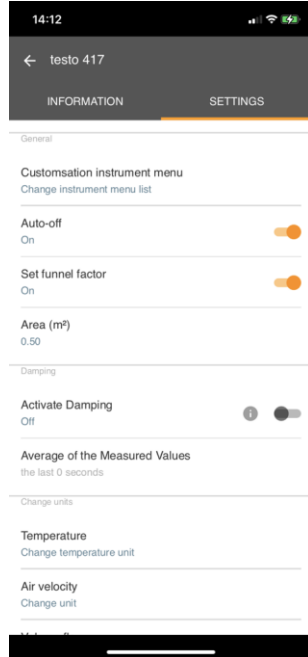
4 | Click on the **Settings** tab.

▶ | - A window with settings for the respective measuring instrument opens.

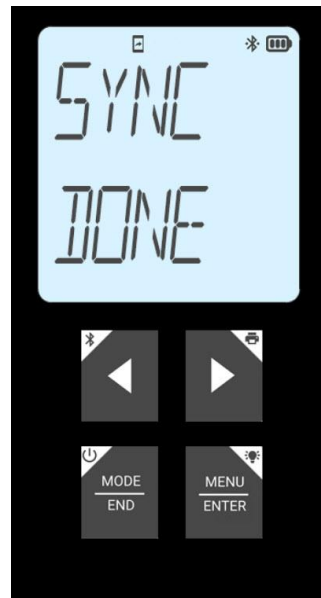
In addition to the settings that can be performed on the measuring instrument, additional settings can also be made.

- 5 Click on the blue text under a setting heading to activate or disable settings or to open an input window to enter a specific value or select a unit.

For details on the settings options, see the following sub-sections.



- ▶ Changes to the measuring instrument settings in the app are transferred directly to the measuring instrument. Synchronization with the app is confirmed on the measuring instrument via “SYNC DONE”.



8.4.1 Configuring the measuring instrument menu

The testo Smart App can be used to set which settings menus should be available or hidden on the measuring instrument itself.

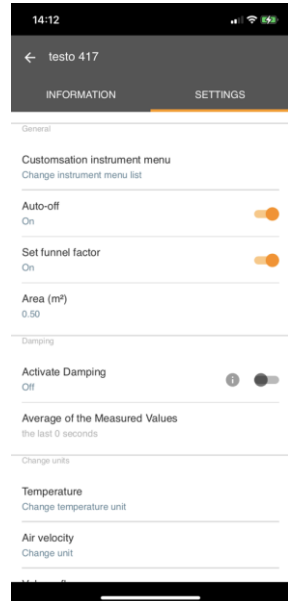
- ✓ The **Settings** tab in the **Sensors** menu is open.

- 1 Activate **Customization instrument menu** and click on the blue text **Change instrument menu list** under the settings heading.

- ▶ The **Customization instrument menu** dialogue opens.

On the measuring instrument, the following menus can be displayed or hidden:

- Setting the unit
- Area
- Funnel factor (testo 417 only)

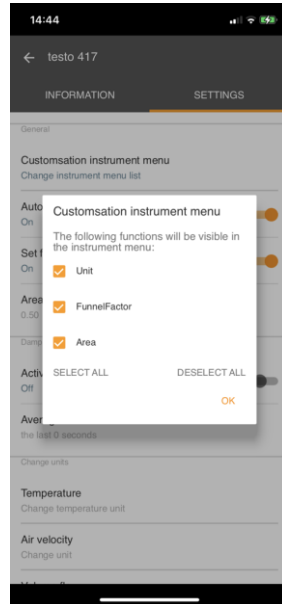


- 2 Deactivate the checkboxes for the measuring instrument menus that are no longer to be displayed on the measuring instrument itself.

- ▶ The menus belonging to the deactivated entries will no longer be displayed in the measuring instrument menu after the next synchronization.



These settings can be reset via the menu reset "M.RES" and then all settings menus will be displayed on the measuring instrument again.



8.4.2 Setting Auto Off

- ✓ The **Settings** tab is open.
- 1 Enable **Activate Auto-off** using the slider.
- ▶ The measuring instrument switches off automatically if no key is pressed for 10 min.
- Exception: a frozen reading is shown on the display ("Hold" is displayed).

8.4.3 Activating damping



If the readings fluctuate wildly, it is advisable to damp the readings.

- ✓ The **Settings** tab is open.
- 1 Enable **Activate damping** using the slider.
- 2 Click on **Average of the measured values**.

- ▶ The window for Average of the measured values opens.
- 3 Enter a value between 2 and 20 measured values.
- ▶ Changes to the measuring instrument settings in the app are transferred directly to the measuring instrument. Synchronization with the app is confirmed on the measuring instrument via "SYNC DONE".

8.4.4 Setting the Correction Factor



If parts of the cross-sectional area are covered (e.g. by lattice bars), this can be corrected via the correction factor.

The correction factor indicates the proportion of free space in the cross-sectional area.

For example: If 20% of the area is covered, the correction factor must be set to 0.8 (80% free space).



The correction factor can only be set via the testo Smart App and not directly on the measuring instrument.

- ✓ The **Settings** tab is open.
- 1 Enable **Correction factor** using the slider.
- 2 Enter the value for the correction factor and confirm with **OK**.
- ▶ The changes are transferred to the measuring instrument and synchronization with the app is confirmed on the measuring instrument via "SYNC DONE".

8.4.5 Setting the area



The cross-sectional area of the measuring point can be set both via the testo Smart App and directly on the measuring instrument.

The display of this setting on the measuring instrument cannot be hidden.

- ✓ The **Settings** tab is open.
- 1 Activate **Area** using the slider.
- 2 Enter the value for the cross-sectional area and confirm with **OK**.

- ▶ The changes are transferred to the measuring instrument and synchronization with the app is confirmed on the measuring instrument via "SYNC DONE".

8.5 Display of the readings



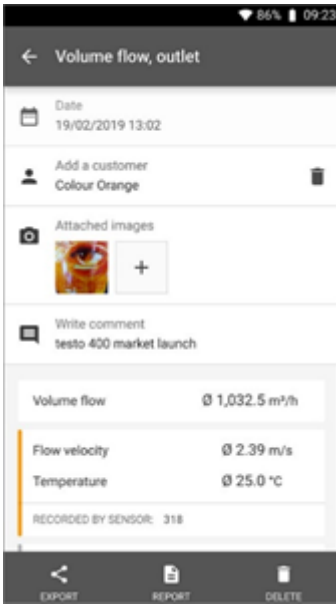
The available readings can be displayed in different views.

- **Live view:**
The readings transmitted by the measuring probes can be displayed in a live view. Readings from all connected measuring probes are displayed.
- **Graphic view:**
Up to four different readings can be displayed in graph format. Readings to be displayed can be selected by tapping on a reading above the diagram.
- **Table view:**
In the table view, all readings are displayed in sequence according to date and time. Different readings from the individual measuring probes can be displayed by pressing ◀ ▶.

8.6 Adjusting the view

- 1 | Click on .
- 2 | Select **Edit view**.
- ▶ | An overview of all measurement channels and their measurement parameters is displayed.
- 3 | Deselect the "check mark" to hide a measuring instrument's measurement channel.
- 4 | Click ▼ to select the unit of a measurement channel.
- 5 | Click **OK** to confirm the settings.




8.7 Exporting readings




The screenshot shows a mobile application interface for a testo Smart App. The title is "Volume flow, outlet". It displays a record with the following details:


- Date: 19/02/2019 13:02
- Add a customer: Colour Orange
- Attached images: One image of a red eye is shown with a plus sign for more.
- Write comment: testo 400 market launch
- Volume flow: Ø 1,032.5 m³/h
- Flow velocity: Ø 2.39 m/s
- Temperature: Ø 25.0 °C
- RECORDED BY SENSOR: 318

At the bottom of the screen, there are three icons: a left arrow labeled "EXPORT", a document icon labeled "REPORT", and a trash can icon labeled "DELETE".

	Export		Report
	Delete		

- 1 | Click on .
- 2 | Select **Memory**.
- 3 | Click on **Select measurement**.

8.7.1 Excel (CSV) Export

- 1 Click on .
- ▶ A selection of export options is displayed.
- 2 Click on **Start export**.
- ▶ A selection of sending/export options is displayed.
- 3 Select the required sending/export options.

8.7.2 PDF Export

- 1  Click on **Report**.
- ▶ A selection window is displayed.
- 2 If required, activate the **Create PDF with all readings** button.
- 3 Click on **Create**.



For measurements, please be aware that the option **Create PDF with all readings** is only possible up to 30 pages, due to the resulting file size and number of pages. In the testo DataControl software, however, PDF reports can be created for all measurements without any restrictions.

- ▶ A report containing all the information is created.
- ▶ A selection window is displayed. The report can be sent via e-mail or Bluetooth®.
- 4 Click on **E-mail** or **Bluetooth®**.
- ▶ The report will be sent.

9 Maintaining the product

9.1 Inserting / changing batteries

- ✓ The instrument is switched off.
- 1 Open the battery compartment (on the back of the instrument) via the snap lock.
- 2 Insert or replace batteries (3 x AA batteries).

Observe the polarity!
- 3 Close the battery compartment.



When not in use for a long period: Take out the (rechargeable) batteries.

9.2 Cleaning the instrument

- 1 If the housing of the instrument is dirty, clean it with a damp cloth.



Do not use any aggressive cleaning agents or solvents! Mild household cleaning agents and soap suds may be used.

10 Technical data for testo 425



- Adjustment conditions for flow probes:
Adjustment in free jet Ø 350 mm, reference pressure 1013 hPa, based on testo reference Laser Doppler Anemometer (LDA).
- Low flow velocities may result in greater measurement uncertainties during humidity and temperature measurement! The probe should be switched on outside a duct under the following conditions:
Ambient temperature: 20°C
Flow: approx. 0 m/s.




Collapse the telescope after use and do not constrict with the cable. Start with the telescopic links closest to the handle.

Feature	Value
Measurement parameters	m/s, fpm °C, °F m³/h, cfm, l/s
Accuracy	±(0.03 m/s + 4% of measuring value) (0 to 20 m/s) ±(0.5 m/s + 5% of measuring value) (20.01 to 30 m/s) ±0.5 °C
Resolution	0.01 m/s 0.1 °C
Measuring range	0 to 30 m/s -20 to +70 °C
Operating temperature	-20 to +50 °C (instrument) -20 to +70 °C (probe)
Storage temperature	-20 to +50 °C
Operating humidity	0 to 80 %RH
IP class	IP20
Level of contamination	PD2
Max. operating altitude	≤ 2000 m above sea level
Nominal output	2 W @ 4,5 V DC
Battery type	3 x 1.5 V AA battery (included in the scope of delivery)
Battery life	>35 h

Feature	Value
Dimensions	Instrument: 171 x 60 x 28 mm Probe: 180 x Ø12 mm Cable: 1.5 m
Weight	268 g

11 Tips and assistance

11.1 Questions and answers

Question	Possible cause	Possible solution
 is displayed (top right on the display)	Instrument battery is almost spent	Replace instrument battery
Instrument switches itself off	<ul style="list-style-type: none"> • Auto Off function is switched on • Remaining battery capacity is insufficient 	<ul style="list-style-type: none"> • Switch off Auto Off function • Change the battery.
Display responds sluggishly	Ambient temperature is very low	Increase ambient temperature
Display: ----	Sensor error	Please contact your dealer or Testo Customer Service.
Display: OOOO	Permissible measuring range has been exceeded	Keep within the permissible measuring range
Display: UUUU	Permissible measuring range has been undershot	Keep within the permissible measuring range
Display: BT Fail	Bluetooth connection could not be established	<ul style="list-style-type: none"> • Check Bluetooth® connections. • Restart measuring instrument, restart testo Smart App.
Display: Print Fail	Printout could not be performed successfully	<ul style="list-style-type: none"> • Check Bluetooth® connections. • Switch printer off and then on again.
Display: Probe Fail	Probe damage	Please contact your dealer or Testo Customer Service.

Question	Possible cause	Possible solution
Display: OTA Fail	The update process "over the air" of the measuring instrument could not be completed successfully.	Restart the measuring instrument and testo Smart App and check the Bluetooth® connection.
Display: APP Lost	Connection to the testo Smart App was interrupted. Keys are locked for 3 s.	Restart the measuring instrument and testo Smart App and check the Bluetooth® connection.

If we have not been able to answer your question: please contact your local dealer or Testo Customer Service. See the back of this document or the www.testo.com/service-contact web page for contact details.

11.2 Accessories and spare parts

Description	Order no.
Bluetooth®/IRDA printer	0554 0621

For a complete list of all accessories and spare parts, please refer to the product catalogues and brochures or visit our website www.testo.com



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