

testo 417 - Digital vane anemometer 0560 0417

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.

- 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!

Risk of death!

Indicates possible serious injury.

A CAUTION

Indicates possible minor injury.

ATTENTION

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 417 is a compact instrument for measuring flow velocities and temperature by means of an integrated 100 mm vane with temperature sensor. It is intended for indoor use only.

The product is designed for the following tasks/areas:

- Volume flow measurements at outlets (with funnel accessories)
- 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



Refer to instruction manual

6 First steps

6.1 Inserting / changing batteries

Serious risk of injury to the user and/or destruction of the instrument. There is a risk of explosion if the batteries are replaced with ones that are the wrong type.

- Only use non-rechargeable alkaline batteries.



Close the battery compartment.

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

Symbol explanation

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	Do not allow children under 6 years of age to play with batteries.
X	Do not throw batteries in the trash.
X	Do not charge batteries.
X	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 e 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 \ast icon flashes on the display. Bluetooth[®] remains enabled until it is disabled manually by pressing and Ŧ holding (approx. 2 sec) the \triangleleft key. The measuring instrument saves the Bluetooth[®] setting and, depending on the configuration, starts up with Bluetooth[®] enabled or disabled. MODE MEN ENTER

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

For technical reasons, the accuracy of the sensor improves with longer operating time of the sensor.

For accurate measurements in ppm or calibrations, the device must be switched on for at least 10 minutes (after the warm-up phase).

Please note that the instrument switches itself off by default after 10 min of inactivity. You can avoid this by disabling the Auto-off function (see chapter 6.2.1).



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Lighters are only suitable to a limited extent for a function test due to the different liquid gas mixtures used in commercial lighters and the selectivity of the sensor based on the gas set (GAS button).

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) MENU ENTER	OFF (display illumination not active) or ON (display illumination active)
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

Function	Setting options/comments
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.
- 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 Funnel Factor "F.FACT"



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For measurements on ventilation units with a funnel, you need to enable the parameter "F.FACT".

The funnel kit (order no. 0563 4170) comprises a funnel for measuring at plate outlets (200 x 200 mm) and a funnel for measuring at ventilators (330 x 330 mm).

In addition to the two funnels, the funnel kit (order no. 0554 4173) also includes a volume flow straightener for measurements at swirl outlets.

- Configuration mode is open, "F.FACT" is displayed.
- Press ◀ / ► to enable ("ON") or disable ("OFF") the factor and confirm with MENU/ENTER.

7.1.5 Setting the area

Configuration mode is open, "AREA" is displayed.

- The funnel factor "F.FACT" is disabled.
- 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.



The measuring instrument can show a maximum of 5 digits in the display (99999 mm²). Conversions from m^2 to mm^2 with a value greater than 0.09 m² are therefore not possible!

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.
- 2 Read the measured values on the display.
- An arrow symbol at bottom left indicates the direction of flow:
 - 杜: Exhaust air
 - 🛨: Supply air

7.2.1 Changing the measurement channel display

To switch the display of the second parameter between volume flow (m³/h, l/s, cfm) and temperature (°C):

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:

- o Hold: frozen measured value
- Max: Maximum value
- Min: Minimum value
- o 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 is shown.

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.
 - Ilashes.

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- 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 [≏]t 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.
- Iashes.
- 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.

▶ ④ and [≏]t 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 $^{\ensuremath{\text{e}}}/\ensuremath{\text{IRDA}}$ printer (order no. 0554 0622) is connected via Bluetooth and switched on.

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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.

Press and hold \blacktriangleright to transfer the data to the printer.

Data is printed out (LED on the printer lights up green).

				testo	
		Basic view			
		Measurement parameter Start time: 19.09. End time: 19.09. Duration: Measuring mode: Measurement cycle:	24 1 24 1	1:13:11 19 sec	<u> </u>
		Measurement data [839] [839 m/s m³/h			
		Mean 5, 12 6.81 Max 11, 23 14.9 Min 0,00 0,0	58		2
[839] °C					
		Mean 26,2 Max 26,9 Min 25,8			
		Probe serial no.: Probe name: Firmware version: Area:	te	4026839 sto 425 0. 5. 8 0. 37m ²	<u>3</u> 4
		Print date: 19.09.	24 1	1:13:43	5
1	Measurement par	ameters	2	Meas	urment values
3	Firmware version number	and serial	4	Instru	ment name
5	Date and time of	printout			

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



One level back

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\times	Exit view
$\boldsymbol{<}$	Share measurement data/report
Q	Searching
*	Favourite
Î	Deleting
\bigcirc	Further information
E	Display report
Ð	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.

Ħ	Measure		💎 48% 🏚 3:40 PM
2	Customer		Be sure. testo
	Memory		
⊕ ☆	Sensors		Measure
\$	Settings		Weasure
•	Help and Information	-	Customer
Ħ	Other applications		
		8	Memory
		۲	Sensors
		۵	Settings
		0	Help and Information
			Other applications

8.2 App options

8.2.1 Setting the language

- 1 Click on \equiv .
- 2 Select ⁽²⁾ Settings.
- 3 Select Tanguage.
- 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.

- Click on \equiv .
- 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



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

Click on \equiv .

- 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

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

8.3.2 Setting favourites

- 1 Click on \equiv .
- A selection of menus for various applications is displayed.
- 2 Select the application you want to set as a favourite.
- 3 Click on $\widehat{\mathbf{T}}$.
- The star is displayed in orange: 🗯. Þ

8.3.3 Displaying information about an application

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

8.4 Making measuring instrument settings

The measuring instrument is connected to the testo Smart App.



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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.

14:12	"I 🕈 💋
← testo 417	
	SETTINGS
General	
Customsation instrument menu Change instrument menu list	
Auto-off On	-
Set funnel factor On	-
Area (m²) 0.50	
Damping	
Activate Damping Off	0 •
Average of the Measured Values the last 0 seconds	
Change units	
Temperature Change temperature unit	
Air velocity Change unit	

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.



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



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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 Select Correction factor.
- 2 Enter the value for the correction factor and save.
- 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 Select Area.
- 2 Enter the value for the cross-sectional area and save.
- ▶ 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:

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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 $\blacktriangleleft \triangleright$.

8.6 Adjusting the view

Click on 🕴 .

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- 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.

			J			
			14:	:32		
			÷	Volume fl	ow outlet	
		ē	Date 26.03.24 14:3	2		
			•	Add a custo	omer	
			0	Attached in	nages	
				Write comn	nent	
			Vo	lume flow	Q	Ø 631,4 ⊮s
			Ter	mperature		Ø 27,4 °c
			Flo	ow velocity		Ø 5,26 m/s
			An	nbient pressure	Q	ð 893,2 hPa
			Re	Recorded by sensor: testo 425 · 839		
		A	Actual measurement period			
			St	art time: 26.03.2	24 14:32:06	
				<	B	×
			E	EXPORT	REPORT	CLOSE
<	Ex	port			×	Report
×		ose				
	1	Click on \equiv .				
	2	Select 🗎 Sav	ed	data and	d report	s.
	3 Click on Select measurement.					
8.7	.1	Excel (C	S\	/) Exp	oort	
	1	Click on <				
		A selection of ex	kpor	rt options	s is displ	layed.

8.7 Exporting readings

- 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 E 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.

8.8 Perform Firmware update



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Ensure that the option for Enable update for connected instruments in Instrument Information is always enabled.





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After the update the measuring instrument is restarting.

The firmware can be checked in the instrument menu or via the app. A restart of the testo Smart App is recommended after the instrument update.

9 Maintaining the product

9.1 Inserting / changing batteries

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Serious risk of injury to the user and/or destruction of the instrument. There is a risk of explosion if the batteries are replaced with ones that are the wrong type.

- Only use non-rechargeable alkaline batteries.
 - The instrument is switched off.
 Open the battery compartment (on the back of the instrument) via the snap lock.
 Insert or replace batteries (3 x AA alkaline batteries).
 Observe the polarity!
 Close the battery compartment.

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

9.2 Cleaning the instrument

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



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10 Technical data for testo 417

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Adjustment conditions for flow probes:

Adjustment in free jet Ø 350 mm, reference pressure 1013 hPa, based on testo reference Laser Doppler Anemometer (LDA).

Feature	Value
Measurement parameters	m/s, fpm °C, °F m³/h, cfm, I/s
Accuracy	±(0.1 m/s + 1.5% of measuring value) ±0.5 °C
Resolution	0.01 m/s 0.1 m³/h (0 to +99.9 m³/h) 1 m³/h (other ranges)
Measuring range	0.3 to 20 m/s 0 to +50 °C
Operating temperature	-20 to +50 °C
Storage temperature	-20 to +50 °C
Operating humidity	0 to 80 %RH / For indoor use only
IP class	IP10
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	>50 h
Dimensions	236 x 108 x 45 mm
Weight	243 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	 Auto Off function is switched on 	 Switch off Auto Off function
	 Remaining battery capacity is insufficient 	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: 00000	Permissible measuring range has been exceeded	Keep within the permissible measuring range
Display: UUUUU	Permissible measuring range has been undershot	Keep within the permissible measuring range
Display: BT Fail	Bluetooth connection could not be established	 Check Bluetooth[®] connections.
		 Restart measuring instrument, restart testo Smart App.
Display: Print Fail	Printout could not be performed successfully	 Check Bluetooth[®] connections, switch off and then on again if necessary.
		 Switch printer off and then on again.
Display: Probe Fail	Probe damage	Please contact your dealer or Testo Customer Service.
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.
testovent 417 – funnel set for volume flow measurement	0563 4170
testovent 417 - flow straightener set for volume flow	0554 4173
Bluetooth [®] /IRDA printer	0554 0622
Rechargeable battery pack 3*AA	0554 6100

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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