

testo 512-1 and testo 512-2 Digital differential pressure measuring instruments 0560 1512 0560 2512



Instruction manual

Find Quality Products Online at:

www.GlobalTestSupply.com

Contents

1 2 2.1	About this document
2.2	Disposal4
3	Product-specific information5
4	Intended use5
5	Product description
5.1	Instrument overview
6 6.1	First steps
6.2	Getting to know the product
0.2	
6.2.1	Connecting probes
6.2.2	Switching the instrument on and off
6.2.3	Switching the display illumination on and off
6.3	Establishing a Bluetooth [®] connection
6.3.1	Establishing a Bluetooth $^{\ensuremath{\mathbb{B}}}$ connection to the testo Smart App11
7	Using the product12
7.1	Controls on the measuring instrument12
7.1.1	Implementing settings14
7.1.2	Opening configuration mode15
7.1.3	Setting the unit15
7.1.4	Setting the area (testo 512-1 only)16
7.1.5	Setting the Pitot tube factor "P.FACT" (testo 512-1 only)16
7.1.6	Setting the absolute pressure (testo 512-1 only)16
7.1.7	Setting alarm thresholds17
7.1.8	Setting the alarm sound17
7.1.9	Enabling Bluetooth
7.1.10	Carrying out a reset of the setting menus17
7.1.11	Carrying out a reset of the measuring instrument
7.2	Connecting pressure hoses
7.2.1	Connecting pressure hoses
7.2.2	Connecting a pitot tube (testo 512-1 only)18
7.3	Measuring
7.3.1	Changing the measurement channel display
7.3.2	Freezing a reading, displaying the maximum/minimum value
7.3.3	Resetting maximum/minimum values
0.0	

Find Quality Products Online at:

Contents

7.3.4	Carrying out multi-point mean calculation	20
7.3.5	Carrying out continuous mean calculation	21
7.4	Printing data	22
8 8.1	Controls via testo Smart App Overview of operating controls	
8.2	App options	25
8.2.1	Setting the language	25
8.2.2	Displaying App Info	25
8.2.3	Displaying the tutorial	25
8.3	Application menus	26
8.3.1	Selecting an application menu	26
8.3.2	Setting favourites	26
8.3.3	Displaying information about an application	26
8.4	Making measuring instrument settings	27
8.4.1	Configuring the measuring instrument menu	29
8.4.2	Setting Auto Off	30
8.4.3	Activating damping	30
8.4.4	Configuring alarms	31
8.4.5	Setting the Correction Factor	31
8.4.6	Setting the area	32
8.4.7	Setting the Pitot tube factor (testo 512-1 only)	32
8.4.8	Setting the absolute pressure (testo 512-1 only)	33
8.5	Display of the readings	33
8.6	Adjusting the view	34
8.7	Exporting readings	34
8.7.1	Excel (CSV) Export	35
8.7.2	PDF Export	35
8.8	Perform Firmware update	36
9	Maintaining the product	37
9.1	Inserting / changing batteries	37
9.2	Cleaning the instrument	37
10	Technical data	
11	Tips and assistance	
11.1	Questions and answers	
11.2	Accessories and spare parts	40

Find Quality Products Online at:

www.GlobalTestSupply.com

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!

Risk of death!

Indicates possible serious injury.

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.



4

WEEE Reg. No. DE 75334352

Find Quality Products Online at:

www.GlobalTestSupply.com

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 measuring instruments testo 512-1 and testo 512-2 are compact digital pressure gauges with temperature compensation for measuring the positive and negative overpressure and the differential pressure of non-aggressive gases. They are intended for indoor use only.

The measuring instrument testo 512-1 can also be used to measure the flow velocity via a pitot tube.

The product is designed for the following tasks/areas:

- Measurements on heating, ventilation and air-conditioning systems
- Customer service and maintenance work
- Measuring range up to 200 hPa (testo 512-1)
- Measuring range up to 2000 hPa (testo 512-2)

The product should not be used in the following areas:

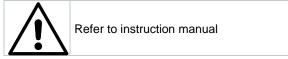
- In potentially explosive atmospheres
- · For diagnostic measurements in the medical field

5 **Product description**

5.1 Instrument overview

testo 512-1





Find Quality Products Online at:

www.GlobalTestSupply.com

testo 512-2





Refer to instruction manual

Find Quality Products Online at:

www.GlobalTestSupply.com

7

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.

- 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 alkaline batteries).

Observe the polarity!



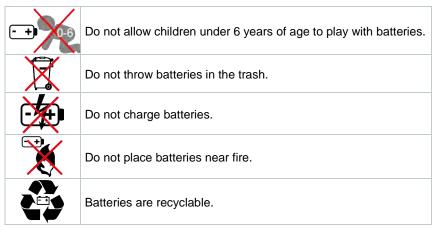
Close the battery compartment.

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

Symbol explanation

3

i



8

Find Quality Products Online at:

www.GlobalTestSupply.com

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 the On/Off key (0.5 sec).

Measurement view is opened:

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

Switching off

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.

9

i

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 and configuration mode is open.

Press ◀ / ► to enable/disable Bluetooth ("ON" / "OFF") and confirm with MENU/ENTER.

While the instrument is trying to establish a Bluetooth[®] connection, the 3 icon flashes on the display.



www.GlobalTestSupply.com

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 12.0 or later/Android 6.0 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.

11

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.

testo 512-1

i



www.GlobalTestSupply.com

7 Using the product

6	Flow velocity reading
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 white corner have a secondary assignment, which can be selected by pressing and holding the key (1 sec).

Adjustable functions

i

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

Function	Setting options/comments
Carry out zero-point adjustment (long press)	Carry out zero-point adjustment
Arrow left	Freeze a reading, display the maximum/minimum value. In configuration mode: Decrease value, select option
On/Off (long press)	Switches the instrument on or off
MODE/END	Start or stop multi-point or continuous mean calculation
Display illumination (long press)	OFF (display illumination not active) or ON (display illumination active)

14

Find Quality Products Online at:

www.GlobalTestSupply.com

Function	Setting options/comments
MENU/ENTER	Open configuration mode
MENU ENTER	In configuration mode: Confirm input
Print (long press)	Output readings via external printer
Arrow right	Change second measurement parameter (bottom line) (512-1 only).
	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

 \checkmark

- \checkmark 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.
- The currently set unit flashes.
- 2 Press ◀ / ► to set the required unit and confirm with MENU/ENTER.

Find Quality Products Online at:

www.GlobalTestSupply.com

7.1.4 Setting the area (testo 512-1 only)

- Configuration mode is open, "AREA" is displayed.
- 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 m² to mm² with a value greater than 0.09 m² are therefore not possible!

7.1.5 Setting the Pitot tube factor "P.FACT" (testo 512-1 only)

The pitot tube factor depends on the pitot tube used.
Configuration mode is open, "P.FACT" is displayed.
 Press ◀ / ► to set the pitot tube factor and confirm with MENU/ENTER.
The measuring instrument displays "T_AMB" and the ambient temperature last measured.
The ambient temperature is required for internal calculations in the measuring instrument and is measured, but not displayed as a separate measurement parameter in the measurement view.

7.1.6 Setting the absolute pressure (testo 512-1 only)

The absolute pressure is required for pressure compensation of the flow velocity reading.

The absolute pressure must be measured using a separate instrument or obtained from the local weather station.

- Configuration mode is open, "P_ABS" is displayed.
- 1 Press ◀ / ► to set the absolute pressure and confirm with MENU/ENTER.

Find Quality Products Online at:

www.GlobalTestSupply.com

7.1.7 Setting alarm thresholds

Configuration mode is open, " min" is displayed.

Press \triangleleft / \blacktriangleright to set the lower alarm threshold value and confirm with MENU/ENTER.

"🔎 max" is displayed.

1

 \checkmark

1

2 Press ◀ / ► to set the upper alarm threshold value and confirm with MENU/ENTER.

7.1.8 Setting the alarm sound

- Configuration mode is open, "♥" is displayed.
- 1 Press ◀ / ► to enable/disable the alarm sound ("ON" / "OFF") and confirm with MENU/ENTER.

7.1.9 Enabling Bluetooth

Configuration mode is open, "*" is displayed.

Press ◀ / ► to enable/disable Bluetooth ("ON" / "OFF") and confirm with MENU/ENTER.

7.1.10 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.

17

Find Quality Products Online at:

www.GlobalTestSupply.com

7.1.11 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:**
 - 0 NO: Do not carry out reset.
 - YES: Carry out reset. The instrument is reset to the factory 0 settings.
- The instrument returns to measurement view. ▶

7.2 Connecting pressure hoses

7.2.1 **Connecting pressure hoses**

- 1 Connect the pressure hoses (4 or 6 mm) to the pressure connection nipples with the correct signs:
 - Positive overpressure measurement (+) 0
 - Negative overpressure measurement (-) 0
 - Differential pressure measurement (+ -) 0

7.2.2 Connecting a pitot tube (testo 512-1 only)

Connect the pressure hoses (4 or 6 mm) to the pressure connection 1 nipples with the correct signs.

2 Attach the pressure hoses to the connection ends of the pitot tube.



Measuring 7.3

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

Place the measuring instrument into the position in which the measurement is to be carried out (operating position).



1

Changing the position of the measuring instrument can falsify the readings. Do not change the position of the measuring instrument after the zero-point adjustment. Carry out a zero-point adjustment before

18

i

Find Quality Products Online at:

www.GlobalTestSupply.com

each measurement to compensate for positioning errors and long-term drift of the zero point.

A zero-point adjustment is only possible in the range 0 to 25% of the measuring range.

- 2 Carry out a zero-point adjustment with the pressure connections open: Press and hold down ◀.
- 3 Connect the pressure hoses to the pressure system or position the pitot tube and read the measured values.

7.3.1 Changing the measurement channel display

Switch the display of the second parameter between speed (m/s, fpm) and volume flow (m³/h, cfm, l/s (512-1 only)):

Press ►.

7.3.2 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.

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

7.3.3 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.

19

7.3.4 Carrying out multi-point mean calculation

1 Press MODE/END.

- Ilashes.
- 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 ⁻ tlash.

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.

20

www.GlobalTestSupply.com

7.3.5 Carrying out continuous mean calculation

1 Press MODE/END twice.

Ilashes.

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 ⁻ flash.

The measurement period and the calculated continuous mean value are displayed.

5 To switch back to the measuring view:

Press MODE/END.

7.4 Printing data

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



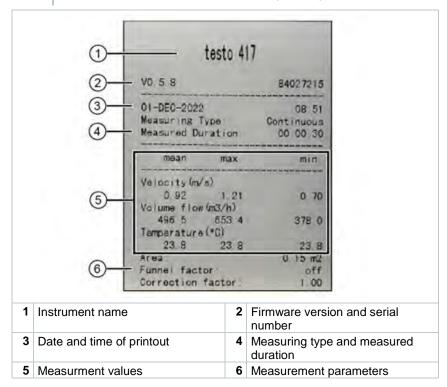
 \checkmark

1

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 > to transfer the data to the printer.

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



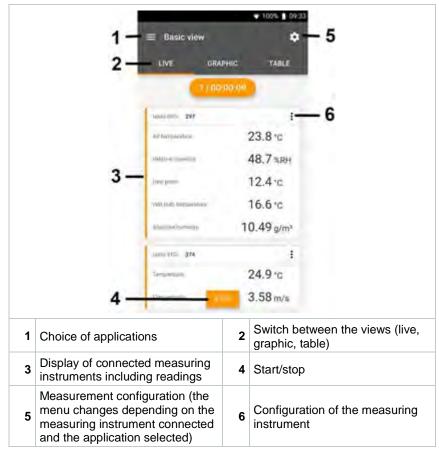
22

www.GlobalTestSupply.com

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



www.GlobalTestSupply.com

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

←	One level back
×	Exit view
<	Share measurement data/report
Q	Searching
*	Favourite
Î	Deleting
\bigcirc	Further information
È	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.

	Measure	◆ 48% û 3:40 PM
2	Customer	Be sure. testo
	Memory	De suis.
٥	Sensors	III Measure
\$	Settings	Wedsure
0	Help and Information	L Customer
Ħ	Other applications	B Memory
		Sensors
		🗢 Settings
		Help and Information
		Other applications

24

www.GlobalTestSupply.com

8.2 App options

8.2.1 Setting the language



- 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. i 1 Click on **E**. 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 i 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.

25

Find Quality Products Online at:

8.3 Application menus

8.3.1 Selecting an application menu

Click on 📕.

1

- 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 $\stackrel{\text{tr}}{\square}$.

1

The star is displayed in orange: 漧.

8.3.3 Displaying information about an application

Click on .

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

26

www.GlobalTestSupply.com

8.4 Making measuring instrument settings

\checkmark	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.

8 Controls via testo Smart App

5	Click on the blue text under a settings heading to activate or disable settings or to open an input window to enter a specific value or select a unit.	15:38
	For details on the settings options, see the following sub-sections.	Customization instrument menui Charge restrument menui det Auto-off On Audibie alarm Off Set air density 1.300,00 Frequery Activate Damping Or Average of the Measured Values Frederit I secures
	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".	SYNC JONE MODE END MENU ENTER

28

Find Quality Products Online at:

www.GlobalTestSupply.com

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.

- \checkmark 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.

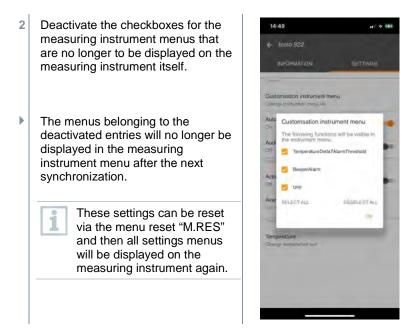
On the measuring instrument, the following menus can be displayed or hidden:

- Configuring alarms
- Alarm sound on/off
- Setting the unit
- Pitot tube factor (testo 512-1 only)
- Absolute pressure (testo 512-1 only)

INFORMATION	SETTINGS	
Customsation instrument menu		
Chilinge restrained menu list		
Auto-off		
On		1
Audible alarm		5
Off		1
Deep 0		
Activate Damping	0	
Average of the Measured Values		
Temperalura		
Clearge Investment and		

29

8 Controls via testo Smart App



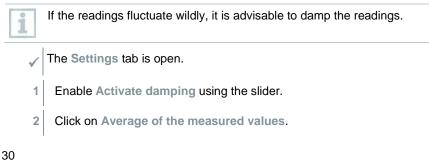
8.4.2 Setting Auto Off

✓ 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



Find Quality Products Online at:

www.GlobalTestSupply.com

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 Configuring alarms

The standard view with the LIVE tab is open. 1 Click on 2 Select Alarm configuration. The menu with the overview of alarms that can be activated opens. 3 Click on the checkbox to activate a specific alarm. Click on EDIT. 4 The input window for activating and defining upper and lower warning and alarm values is displayed. 5 Click OK to confirm the settings. Changes to the measuring instrument settings in the app are

8.4.5 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.

transferred directly to the measuring instrument. Synchronization with the app is confirmed on the measuring instrument via "SYNC DONE".

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.

31

www.GlobalTestSupply.com

- 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".

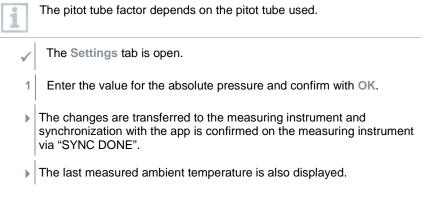
8.4.6 Setting the area

i

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.

\checkmark 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".

8.4.7 Setting the Pitot tube factor (testo 512-1 only)



32

Find Quality Products Online at:

www.GlobalTestSupply.com

The ambient temperature is required for internal calculations in the measuring instrument and is measured, but not displayed as a separate measurement parameter in the measurement view.

8.4.8 Setting the absolute pressure (testo 512-1 only)



1

The absolute pressure is required for pressure compensation of the flow velocity reading.

The absolute pressure must be measured using a separate instrument or obtained from the local weather station.

The Settings tab is open.

Enter the value for the absolute pressure 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:

i

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 $\blacktriangleleft \triangleright$.

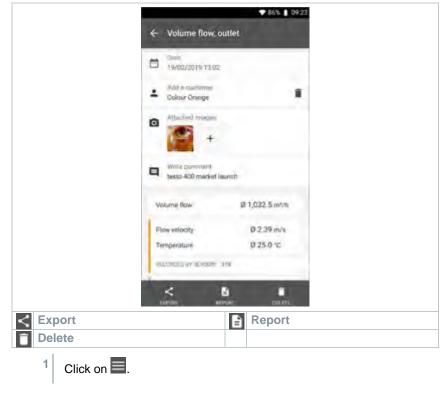
8.6 Adjusting the view

Click on 🕴.

1

- 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 $\mathbf{\nabla}$ to select the unit of a measurement channel.
- 5 Click OK to confirm the settings.

8.7 Exporting readings





Find Quality Products Online at:

www.GlobalTestSupply.com

- 2 Select Memory.
- 3 Click on Select measurement.

8.7.1 Excel (CSV) Export

Click on ≤.

1

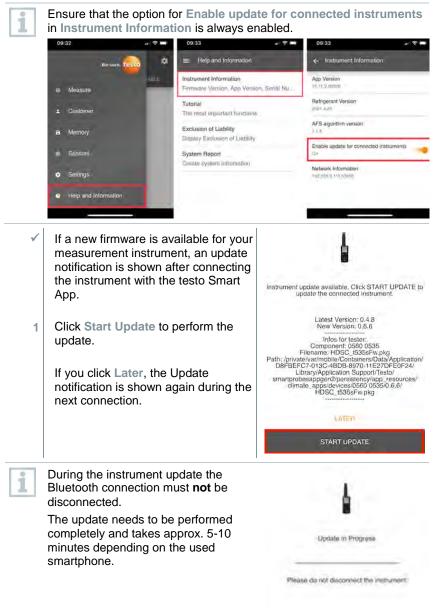
- A selection of export options is displayed.
- 2 Click on Start export.
- A selection of sending/export options is displayed.
- 3 Select the required sending/export options.

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.
-Ho	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 $Bluetooth^{\texttt{®}}.$
4	Click on E-mail or Bluetooth®.
►	The report will be sent.

35

8.8 Perform Firmware update



36

Find Quality Products Online at:

www.GlobalTestSupply.com

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. Maintaining the product 9 Inserting / changing batteries 9.1 **WARNUNG** 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. 1 Open the battery compartment (on the back of the instrument) via the snap lock. 2 Insert or replace batteries (3 x AA alkaline batteries). Observe the polarity! 3 Close the battery compartment. When not in use for a long period: Take out the 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

testo 512-1

Feature	Value
Measurement parameters	Pa, hPa/mbar, kPa, psi, inHg, inH2O, mmH2O, mmHg m/s, fpm m³/h, cfm, I/s
Accuracy ¹	\pm (0.3 Pa + 1% of the measuring value) \pm 1 digit (0 to 25 hPa) \pm (0.1 hPa + 1.5% of the measuring value) \pm 1 digit (25.001 to 200 hPa)
Resolution	0.001 hPa (0 +2 hPa) 0.01 hPa (2.01 +20 hPa) 0.1 hPa (20.1 +200 hPa)
Measuring range	0 to +200 hPa
Operating temperature	-20 to +50 °C
Storage temperature	-20 to +50 °C
Operating humidity	0 to 80 %RH / For indoor use only
IP class	IP40
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	>120 h
Dimensions	146 x 60 x 28 mm
Weight	190 g

Find Quality Products Online at:

¹ The accuracy specification applies immediately after zeroing the sensor for the positive measuring range in an adjusted, stable temperature state.

testo 512-2

Feature	Value
Measurement parameters	hPa/mbar, kPa, psi, inHg, inH2O, mmH2O, mmHg
Accuracy	0.5% of the measuring range
Resolution	1 hPa
Measuring range	0 to +2000 hPa
Operating temperature	-20 to +50 °C
Storage temperature	-20 to +50 °C
Operating humidity	0 to 80 %RH / For indoor use only
IP class	IP40
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	>120 h
Dimensions	146 x 60 x 28 mm
Weight	191 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 Remaining battery capacity is insufficient 	Switch off Auto Off functionChange the battery.
Display responds sluggishly	Ambient temperature is very low	Increase ambient temperature

Find Quality Products Online at:

11 Tips and assistance

Question	Possible cause	Possible solution
Display:	Sensor error	Please contact your dealer or 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 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.

11.2 Accessories and spare parts

Description	Order no.
Bluetooth [®] /IRDA printer	0554 0621

40

Find Quality Products Online at: