

testo 560i and testo Smart Valve 0564 1560 0560 5600

Instruction manual







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1 About this document

- The instruction manual is an integral part of the instrument.
- Pay particular attention to the safety instructions and warning advice in order to prevent injury and damage to the product.
- Please read this instruction manual through carefully and familiarize yourself with the product before putting it to use.
- Familiarity with a PC as well as the Microsoft® products is assumed in this documentation.

Symbols and writing standards

Display	Explanation
i	Note: basic or further information
Λ	Warning advice, risk level according to the signal word:
	Warning! Serious physical injury may occur.
	Caution! Minor physical injury or damage to the equipment may occur.
	Careful! Possible damage to equipment.
	- Implement the specified precautionary measures.
1	Action: several steps, the sequence must be followed
2	
	Result of an action
•	Troodic of all action
✓	Requirement
Menu	Elements of the instrument, the instrument display or the program interface.
[OK]	Control keys of the instrument or buttons of the program interface.

2 Safety and disposal

Please observe the **Testo information** document (enclosed with the product).

3 Product-specific approvals

For the relevant country approvals, please refer to the printed quick reference guides or short instructions enclosed with the products.

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4 Product-specific information

- The instrument being dropped or any other comparable mechanical stress may result in breakage of the pipe sections in the refrigerant hoses. The valve positioners may also suffer damage, causing further damage inside the measuring instrument that is not necessarily visible externally. Therefore, always replace the refrigerant hoses with new ones after the measuring instrument is dropped or after any comparable mechanical stress. For your own safety, return the instrument to Testo Customer Service for technical inspection.
- Electrostatic charging may destroy the instrument. Integrate all the components (system, manifold's valve block, refrigerant bottle, etc.) into the equipotential bonding (earthing). Please see the safety instructions for the system and the refrigerant used.
- Refrigerant gases can harm the environment. Please note the applicable environmental regulations.
- Use with A2L refrigerants

Testo measuring instruments (as of July 2020) can be used in compliance with the prescribed laws, standards, directives and safety regulations for refrigeration systems and refrigerants as well as regulations of the manufacturers of refrigerants of safety group A2L as per ISO 817.

Regional standardization and interpretation must always be observed.

For example, DIN EN 378-Part 1-4 applies to the scope of the EN standards.

During maintenance work, the employer must ensure that a hazardous explosive atmosphere is prevented (see also TRBS1112, TRBS2152 VDMA 24020-3).

A hazardous and potentially explosive atmosphere must be anticipated during maintenance and repair work on refrigeration systems with flammable refrigerants (e.g. those in category A2L and A3).

Maintenance, repairs, removal of refrigerants and commissioning of systems may only be carried out by qualified personnel.



5 Intended use

The **testo 560i** scale and the **testo Smart Valve** are aids for carrying out maintenance and service work on refrigeration systems and heat pumps. They may only be used by qualified authorized personnel.

Via their functions, the instruments help with charging refrigeration systems and heat pumps.

The **testo 560i** and **testo Smart Valve** can be used either in conjunction with the testo Smart App or in conjunction with one of the **testo 550s** and **testo 557s** manifolds.

The **testo Smart Valve** is compatible with most non-corrosive refrigerants, water and glycol. The **testo Smart Valve** is not compatible with refrigerants containing ammonia.

The products are suitable for gaseous charging of refrigeration systems.

When charging with liquid refrigerant, an evaporation adapter must be used to protect the compressor or the flow rate limited via the manifold.

ATTENTION

Charging liquid refrigerant too quickly can damage the compressor!

- Only charge liquid refrigerant slowly.

The products must not be used in potentially explosive atmospheres!

The testo Smart Valve must not be used in the vicinity of a magnetic field.

ATTENTION

Danger due to leaking refrigerant.

The testo Smart Valve does not constitute a safety mechanism.

- Stop the flow of refrigerant at the refrigerant bottle once the charging process has been completed.
- Always stop the flow of refrigerant from the refrigerant bottle to the testo Smart Valve when not in use.

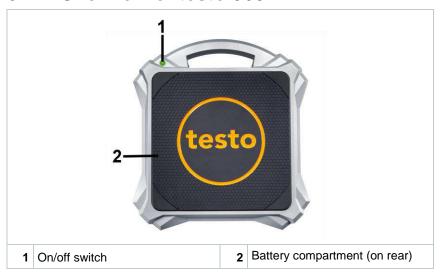


Always hang the testo Smart Valve up straight using the hook and make sure that the scale and the valve are always level/horizontal.



6 Product description

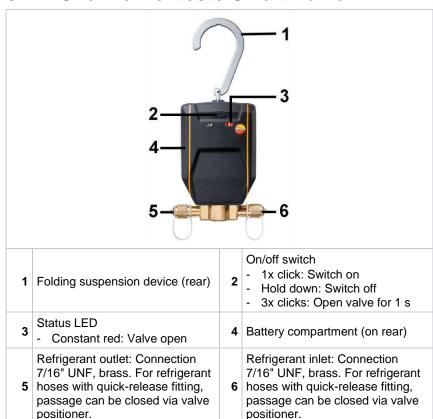
6.1 Overview of testo 560i



Symbol explanation



6.2 Overview of testo Smart Valve



Symbol explanation



Observe operating instructions



ATTENTION

Magnetic field Damage to other devices!

 Keep a safe distance from products that can be damaged by magnetism (e.g. monitors, computers, credit cards).





M WARNING

Magnetic field

May be hazardous to the health of pacemaker wearers.

 Keep a minimum distance of 15 cm between the pacemaker and the device.

7 First steps

7.1 Inserting batteries

Symbol explanation

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

Inserting batteries in the testo 560i

- 1 Open battery compartment.
- Insert the batteries (scope of delivery) into the battery compartment. Observe the polarity!
- 3 Close the battery compartment.
- After inserting the batteries, the instrument switches on automatically and is in Bluetooth® connection mode.
- In Bluetooth® connection mode, connection can be established to the **testo Smart App** or to a **testo 550s** or **testo 557s** manifold.
- Do not change or remove batteries during operation, otherwise the charging process will be interrupted.





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

Inserting batteries in the testo Smart Valve

- Unfold the suspension hook and open the battery compartment (clip lock).
- Insert the battery (supplied, block battery) into the battery compartment. Observe the polarity!
- 3 Close the battery compartment.
- After inserting the batteries, the instrument switches on automatically and is in Bluetooth® connection mode.
- In Bluetooth® connection mode, connection can be established to the testo Smart App or to a testo 550s or testo 557s manifold.
- Do not change or remove batteries during operation, otherwise the charging process will be interrupted.
- When not in use for a long period: Take out the batteries.

7.2 Switching the instrument on and off

Switching on testo 560i

- 1 Press the ON key.
- The instrument switches on and is in Bluetooth® connection mode.
- In Bluetooth® connection mode, connection can be established to the **testo Smart App** or to a **testo 550s** or **testo 557s** manifold.
 - 2 Press and hold the ON key.
 - The instrument is switched off.



Switching on Testo Smart Valve

- Do not switch on Testo Smart Valve until all hoses have been attached and the installation is ready for charging.
- 1 Press the ON key.
- The instrument switches on and is in Bluetooth® connection mode.
- In Bluetooth® connection mode, connection can be established to the testo Smart App or to a testo 550s or testo 557s manifold.
 - Press and hold the ON key.
 - The instrument is switched off.

7.3 Establishing a Bluetooth® connection

The **testo 560i** scale or the **testo Smart Valve** are switched on.

7.3.1 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 obtain the app for iOS devices from the App Store, for Android devices from the Play Store or by scanning the QR code in the manifold.



Compatibility:

Requires iOS 12.0 or later/Android 6.0 or later, requires Bluetooth® 4.0.

- 1 Open Testo Smart App.
- The app automatically searches for Bluetooth® devices in the vicinity.
- In the Bluetooth menu, check whether the required instrument is connected.
- If necessary, switch the instrument to be connected off and on again to restart the connection mode.

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7.3.2 Establishing a Bluetooth® connection to the testo 550s / testo 557s manifold

- The instrument is switched on and the measurement menu is displayed.
- 1 Press [Menu/Enter].
- Use [▲] / [▼] to select Bluetooth and [Menu/Enter] to confirm.
- The Bluetooth menu is displayed.



7.3.2.1 Switching on

- ✓ The Bluetooth menu is selected.
- 1 [Menu/Enter]
- In the On/Off switch icon, a is displayed.
- 2 Enable Bluetooth®: Use [▼] to activate the [Completed] button and [Menu/Enter] to confirm.



When the Bluetooth® icon appears on the display, Bluetooth® is switched on.



- Bluetooth® automatically searches for and connects available devices.
- If necessary, switch the instrument to be connected off and on again to restart the connection mode.

7.3.2.2 Switching off

- The Bluetooth® menu is activated.
- [Menu/Enter]
- In the On/Off switch icon, is displayed.
- Disable Bluetooth®: Use [▼] to activate the [Completed] button and [Menu/Enter] to confirm.



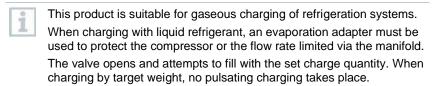
When the Bluetooth $^{\!0}\!\!$ icon is not shown on the display, Bluetooth $^{\!0}\!\!$ is switched off.

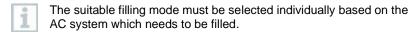


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8 Using the product

The **testo 560i** scale and the **testo Smart Valve** can either be used in conjunction with the testo Smart App or in conjunction with one of the **testo 550s** and **testo 557s** manifolds or with two **testo 549i** smart probes.

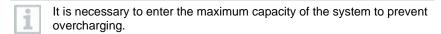


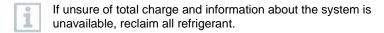


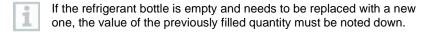
ATTENTION

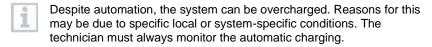
Charging liquid refrigerant too quickly can damage the compressor!

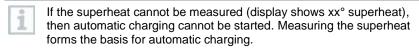
- Only charge liquid refrigerant slowly.

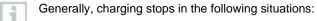












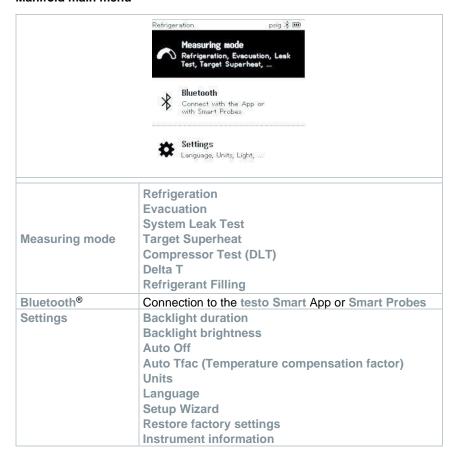
- The weight on the scale changes suddenly or involuntarily.
- The maximum charge quantity has been reached, although the final value (SH/SC) has not yet been reached.

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8.1 Control via manifold

- Scale and valve are switched on.
- The manifold is switched on and connected to the valve and scale via Bluetooth®.
- The firmware of the manifold is up to date.
 The firmware is updated by downloading the latest testo Smart App from the App Store or Play Store.
- Settings and controls are implemented via the manifold.

Manifold main menu



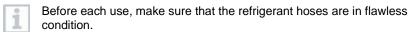




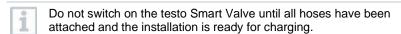
Manifold control keys

Symbol	Meaning
Menu Enter	 Open menu Confirm input Switch on the display illumination: Press and hold the key for >2s Switch off the display illumination: Press and hold the key for >2s
A , V	Change/navigate the display screen.
ESC	 Switches to the measurement view Back to the menu Switch off the instrument: Press and hold the key for >2s

8.2 Connecting the instruments



Observe the system's maximum permitted operating pressure.



Protect the testo Smart Valve from vibrations. Otherwise, safe opening and closing cannot be guaranteed.

If the testo Smart Valve is subjected to a hard impact or a fall, it must be switched on and off again. Otherwise, the valve position may be lost.

All connections must be pressureless (ambient pressure).

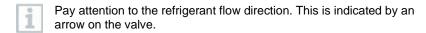
1 Place refrigerant bottle on scale.

Make sure that there is always enough refrigerant in the bottle so that the charging process can be carried out correctly.

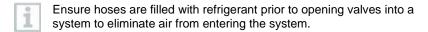
2 Connect refrigerant bottle to valve.



3.1 From the valve, connect the yellow refrigerant hose to the middle port of the manifold and connect the low pressure side (blue) and high pressure side (red) of the manifold to the system.



3.2 When using the app, connect the valve directly to the system with refrigerant hoses, without the manifold.

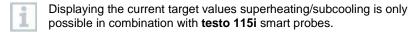


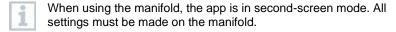
3.3 Click 3 times on on/off button to open the valve for 1 second and fill the hoses with refrigerant.

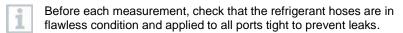
8.3 Manual charging via weight

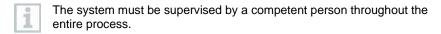
This function enables a refrigerant circuit to be charged manually via weight using the **testo 560i** in combination with the app or **testo 550s / testo 557s** manifold

By manually opening and closing the refrigerant bottle valve, the system is charged with refrigerant until the target value (weight/superheating/subcooling) is reached







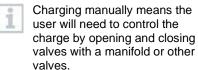


- testo 560i is connected via Bluetooth to the testo Smart App or the testo 550s / testo 557s manifold.
- testo 560i is integrated into the refrigerant circuit.
- Select the required refrigerant on the manifold/app and press [Menu/Enter] to confirm.

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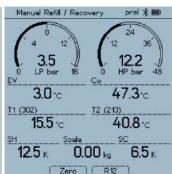
- 1.1 If necessary, zero sensor on manifold/app [P = 0].
- 1.2 If necessary, zero testo 560i on manifold/app [W = 0].
- Open connected valve(s) manually and add refrigerant to the system until the required value is reached.

 Charging manually means the





Added refrigerant is displayed in g/kg increments on the manifold/app.





Automatic charging by target weight 8.4

This function enables the system to be charged automatically with an input target weight using the testo 560i scale and the testo Smart Valve in combination with the app or the testo 550s / testo 557s manifold.



When using the manifold, the app is in second-screen mode. All settings must be made on the manifold.



Before each measurement, check that the refrigerant hoses are in flawless condition and applied to all ports tight to prevent leaks.



The system must be supervised by a competent person throughout the entire process.



testo 560i and testo Smart Valve are connected via Bluetooth to the testo Smart App or the testo 550s / testo 557s manifold.



testo 560i and testo Smart Valve are integrated into the refrigerant circuit.

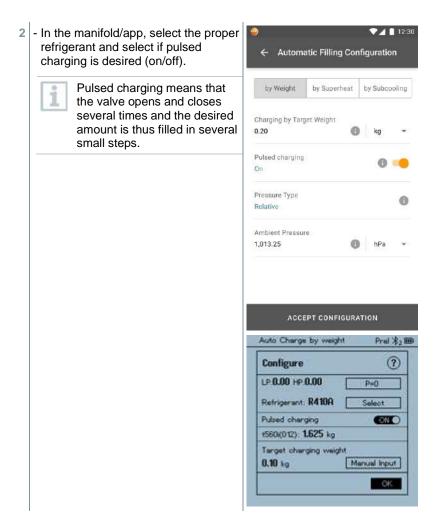


Select the required refrigerant on the manifold/app and press [Menu/Enter] to confirm.

1.1

If necessary, zero sensor on manifold/app [P = 0].





- Enter Target Weight by selecting manual input and hit [START CHARGE] to start the process.
 - The valve opens and attempts to fill with the set charge quantity.

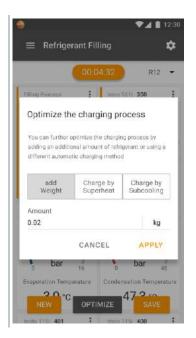
No pulsating charging takes place.



Added refrigerant is displayed in g/kg increments on the manifold/app.



Once charging is finished, the process can be repeated [NEW] or another mode for charging [OPTIMIZE] can be selected.



Automatic charging by superheat 8.5

This function enables a refrigerant circuit to be charged via the target superheat value using the testo 560i scale and the testo Smart Valve in combination with the app or testo 550s / testo 557s manifold.

For this, the current superheating value is determined. Based on this information, a target superheat value can be entered. The system is filled automatically until the target value is reached.

- Displaying the target superheat value is only possible in combination with testo 115i smart probes.
- The appropriate maximum charge value for a system must be entered in the [Max charge] field on the manifold/app.
- The appropriate superheat target value for a system must be entered on the manifold/app.
- Based on the specified system size the algorithm creates a maximum weight to be filled. When this maximum weight is reached, automatic filling is paused and must be restarted. This prevents overfilling or incorrect filling.
- When using the manifold, the app is in second-screen mode. All settings must be made on the manifold.
- Before each measurement, check that the refrigerant hoses are in flawless condition.
- The system must be supervised by a competent person throughout the entire process.
 - testo 560i and testo Smart Valve are connected via Bluetooth to the testo Smart App or the testo 550s / testo 557s manifold.
 - testo 560i and testo Smart Valve are integrated into the refrigerant circuit.
 - Select the required refrigerant on the manifold/app and press 1 [Menu/Enter] to confirm.
 - If necessary, zero sensor on manifold/app [P = 0]. 1.1



In the manifold/app, select the proper refrigerant and enter the maximum system charge.



- Set the required target superheat value to be reached on the manifold/app and hit [START CHARGE] to start the process.
 - The valve opens and attempts to reach the set superheat by charging refrigerant.



Added refrigerant is displayed in g/kg increments on the manifold/app.



8.6 Automatic charging by subcooling

This function enables a refrigerant circuit to be charged via the target subcooling value using the **testo 560i** scale and the **testo Smart Valve** in combination with the app or **testo 550s / testo 557s** manifold.

For this, the current subcooling value is determined. Based on this information, a target subcooling value can be entered. The system is filled automatically until the target value is reached.

- Displaying the target subcooling value is only possible in combination with **testo 115i** smart probes.

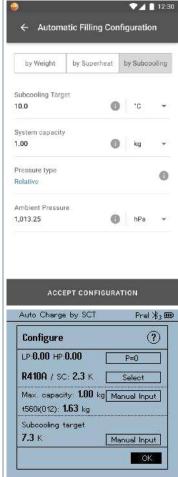
 The appropriate maximum charge value for a system must be entered
- The appropriate subcooling target value for a system must be entered on the manifold/app.
- When using the manifold, the app is in second-screen mode. All settings must be made on the manifold.

in the [Max charge] field on the manifold/app.

- Based on the specified system size the algorithm creates a maximum weight to be filled. When this maximum weight is reached, automatic filling is paused and must be restarted. This prevents overfilling or incorrect filling.
- Before each measurement, check that the refrigerant hoses are in flawless condition.
- The system must be supervised by a competent person throughout the entire process.
 - testo 560i and testo Smart Valve are connected via Bluetooth to the testo Smart App or the testo 550s / testo 557s manifold.
 - testo 560i and testo Smart Valve are integrated into the refrigerant circuit.
 - Two testo 115i are attached and connected via Bluetooth to the testo Smart App or the testo 550s / testo 557s manifold.
 - Select the required refrigerant on the manifold/app and press [Menu/Enter] to confirm.
 - 1.1 If necessary, zero sensor on manifold/app [P = 0].

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In the manifold/app, select the proper refrigerant and enter the maximum system charge.



- Set the required target subcooling value to be reached on the manifold/app and hit [START CHARGE] to start the process.
 - The valve opens and attempts to reach the set subcooling by charging refrigerant.



Added refrigerant is displayed in g/kg increments on the manifold/app.



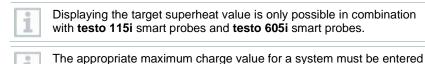


8.7 Automatic charging via target superheat

in the [Max charge] field on the manifold/app.

This function enables a refrigerant circuit to be charged via the target superheat using the **testo 560i** scale and the **testo Smart Valve** in combination with the app or the **testo 550s / testo 557s** manifold.

For this, two testo 605i Smart Probes are connected to the manifold or the testo Smart App. Based on this information, the optimum target superheat can be calculated live. The system is filled automatically until the target value is reached.



- The appropriate target superheat value for a system must be entered on the manifold/app.
- Based on the specified system size the algorithm creates a maximum weight to be filled. When this maximum weight is reached, automatic filling is paused and must be restarted. This prevents overfilling or incorrect filling.
- When using the manifold, the app is in second-screen mode. All settings must be made on the manifold.
- Before each measurement, check that the refrigerant hoses are in flawless condition and applied to all ports tight to prevent leaks.
- The system must be supervised by a competent person throughout the entire process.
 - testo 560i and testo Smart Valve are connected via Bluetooth to the testo Smart App or the testo 550s / testo 557s manifold.
 - testo 560i and testo Smart Valve are integrated into the refrigerant circuit.
 - Two testo 115i and two testo 605i are attached and connected via Bluetooth to the testo Smart App or the testo 550s / testo 557s manifold.

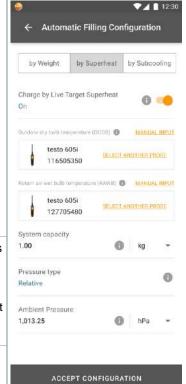


- Select the required refrigerant on the manifold/app and press [Menu/Enter] to confirm.
- 1.1 If necessary, zero sensor on manifold/app [P = 0].
 - In the manifold/app, enter the maximum system charge.
 - 3 Select Live Target Superheat.
 - 4 Connect two 605i smart probes, one to outdoor dry bulb and the other to indoor wet bulb.
 - 5 Place two 605i smart probes to there corresponding locations as configured.
 - Press [OK] and a target superheat value will be calculated.



If the target superheat value is XXX, the method cannot be used as it is outside the allowed ambient ranges.

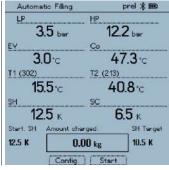
Select manual superheat input to charge the system by superheat.



- 7 Set the required target superheat value to be reached on the manifold/app and hit [START CHARGE] to start the process.
 - Refrigerant is automatically supplied to the system until the set value is reached.



Added refrigerant is displayed in g/kg increments on the manifold/app.



8 Add another purging section to clear your lines of refrigerant into the system:

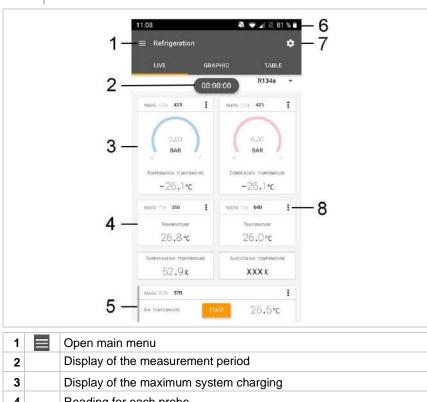
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- Turn the bottle valve to the closed position.
- Purge the lines by pressing the valve on off button 3 times until all refrigerant has been clear of the lines into the system.



8.8 Control via app

- Scale and valve are switched on.
- The app is installed on the smartphone and connected to the valve and scale via Bluetooth®.
- Settings and controls are implemented via the app.



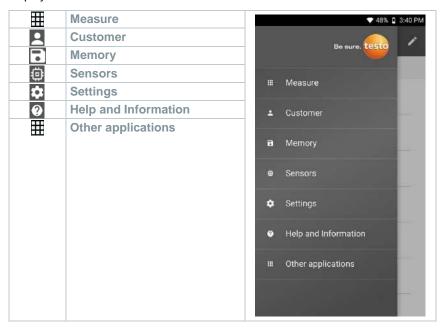
3 Display of the maximum system charging
4 Reading for each probe
5 Can be controlled with different function keys
6 Instrument status bar
7 Configuration
8 Edit reading display



Further symbols on the user interface (without numbering)

\leftarrow	One level back
×	Exit view
<	Share measurement data/report
Q	Search
*	Favourite
Î	Deleting
①	Further information
	Display report
\Box	Multiple selection

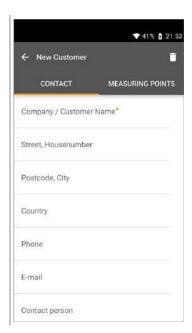
The Main menu can be accessed via the icon at top left. To exit the main menu, select a menu or right-click on the guided menus. The last screen displayed is shown.



8.8.1 Creating and editing a customer

In the **Customer** menu, all customer and measuring site information can be created, edited and deleted. Fields marked with * are mandatory. Without any information in this field, no customers or measuring sites can be stored.

- 1 Click on .
- Main menu opens.
- ² Click on Customer.
- The Customer menu opens.
- 3 Click on + New Customer.
- A new customer can be created.
- 4 Store all relevant customer data.

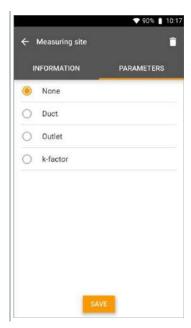


- 5 Click on Save.
- ▶ The new customer was saved.

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8.8.2 Creating and editing measuring sites

- 1 Click on .
- Main menu opens.
- ² Click on Customer.
- ▶ The Customer menu opens.
- 3 Click on + New Customer.
- 4 Click on right tab Measuring Points.
- 5 Click on + New Measuring Point.
- A new measuring point can be created.
- 6 Store all relevant measuring site information.
- 7 Click on right tab Parameters.



8 Select further parameters.

:::m



For the duct, outlet or duct with k-factor measuring points, further parameter settings can be implemented.

- 9 Click on Save.
- The new measuring site has been saved.

8.8.3 Searching for and deleting measurement results

In the Memory menu, you can call up all the stored measurements, analyze them in detail and also create and save csv data and PDF reports. When clicking on a measurement, an overview of the measurement results is displayed.

In the Memory menu, all stored measurements are sorted by date and time.

Searching

- The Memory menu is open.
- 1 Click on Q.
- ▶ Search field with measurements opens.
- 2 Enter the customer name or measuring site or date/time in the search field.
- The result is displayed.

Deleting

- 1 Click on .
- A check box is displayed in front of each measurement.
- 2 Click on the required measurement.
- A tick is displayed in the respective box.
- 3 Click on 1.
- Information window is displayed.
- 4 Acknowledge the information.



> Selected measurements were deleted.

8.8.4 Sensors

All sensors used with the App can be found in the Sensors menu. There, you can view general information about currently connected probes as well as recently connected probes.



8.8.4.1 Information

Information is stored for each probe.

- The app is connected to testo 550s / testo 557s.
- 1 Click on .
- Main menu opens.
- ² © Click on Sensors.
- ▶ The Sensors menu opens.
- 3 Click on one of the displayed probes.

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

8.8.4.2 **Settings**

Settings can also be made for each probe.

- ✓ The probe is connected to the App.
- 1 Click on .
- Main menu opens.
- 2 Click on Sensors.
- ▶ The Sensors menu opens.
- 3 Click on one of the displayed probes.
- 4 Click on the Settings tab.
- 5 Click on one of the displayed probes.
- ▶ Settings appear that can be changed if necessary.

8.8.5 Language

- Click on Settings.
- ▶ The Settings menu opens.
- 2 Click on Language.
- A window with different languages opens.
- 3 Click on the required language.
- ▶ The required language is set.

8.8.6 Measurement settings

1 Click on Settings.



- The Settings menu opens.
- 2 Click on Measurement settings.
- A window with different basic settings for measurement opens.
- 3 Click on the required settings and change if necessary.
- ▶ The required measurement settings are set.
- 4 Exit Measurement settings.

8.8.7 Company details

- Click on Settings.
- ▶ The Settings menu opens.
- 2 Click on Company details.
- A window with company details opens.
- 3 Click on the required data and enter if necessary.
- ▶ The required company details are set.
- 4 Exit Company details.

8.8.8 Privacy settings

- Click on Settings.
- ▶ The Settings menu opens.
- 2 Click on Privacy settings.
- A window with privacy settings opens.
- 3 Activate or deactivate the required settings.
- ▶ The required settings are set.

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4 Exit Privacy settings.

8.8.9 Help and Information

Under Help and Information, you will find information about the **testo 550s / testo 557s**, and the tutorial can be called up and implemented. This also where legal information can be found.

8.8.9.1 Instrument information

- 1 Click on Help and Information.
- ▶ The Help and Information menu opens.
- 2 Click on Instrument information.
- The current App version, Google Analytics instance ID, refrigerant version and update are displayed for the connected instrument.

Automatic updates for instruments can be enabled or disabled.

Use the slider to activate or deactivate Update for connected instruments.

8.8.9.2 **Tutorial**

- Click on Help and Information.
- ▶ The Help and Information menu opens.
- 2 Click on Tutorial.
- The tutorial shows you the most important steps prior to commissioning.

8.8.9.3 Exclusion of liability

- 1 Click on Help and Information.
- ▶ The Help and Information menu opens.
- 2 Click on Exclusion of liability.
- The data protection information and licence usage information is displayed.



Maintenance

Calibration 9.1



The testo 560i scale and the testo Smart Valve are supplied with a factory calibration certificate as standard.

Recalibration once every 12 months is recommended in many

This can be carried out by Testo Industrial Services (TIS) or other certified service providers.

Please contact testo for further information.

9.2 **Cleaning instruments**



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

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



Connect high pressure air and use the function to click 3 times the button and the valve will open for 1 s. This can help to remove small dust inside the valve.

9.3 Keeping connections clean

Keep screw connections clean and free of grease and other deposits; clean with a damp cloth as required.

Removing oil residues 9.4

Carefully blow out oil residues in the valve block using compressed

9.5 **Ensuring measuring accuracy**

Testo Customer Service will be happy to help you as required.

- Check the instrument regularly for leaks. Keep to the permissible pressure range!
- Calibrate the instrument regularly (recommendation: once a year).

9.6 Changing batteries

Changing batteries in the testo 560i scale

- ✓ The instrument is switched off.
- 1 Open battery compartment.
- Remove spent batteries and insert new ones (4 x 1.5V, type AA / Mignon / LR6) into the battery compartment. Observe the polarity!
- 3 Close the battery compartment.
- After inserting the batteries, the instrument switches on automatically and is in Bluetooth® connection mode.
- In Bluetooth® connection mode, connection can be established to the testo Smart App or to a testo 550s or testo 557s manifold.
- Do not change or remove batteries during operation, otherwise the charging process will be interrupted.
- When not in use for a long period: Take out the batteries.

Changing the batteries in the testo Smart Valve

- ✓ The instrument is switched off.
- 1 Unfold the suspension hook and open the battery compartment (clip lock).
- Remove the spent battery and insert a new one (1 x 9.0V (6LR61) block battery) into the battery compartment. Observe the polarity!
- 3 Close the battery compartment.
- After inserting the batteries, the instrument switches on automatically and is in Bluetooth® connection mode.
- In Bluetooth® connection mode, connection can be established to the testo Smart App or to a testo 550s or testo 557s manifold.
- Do not change or remove batteries during operation, otherwise the charging process will be interrupted.





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

10 Technical data

10.1 Technical data for testo 560i

Feature	Value	
Connection to the sensor	BLE 4.2+	
Interface	BLE 4.2+	
Power supply	Power source: Batteries 4 x 1.5 V type AA / Mignon / LR6 Battery life: > 70 h at 25 °C	
IP class	44	
Weight	4.01 kg (with batteries, with bag) 3.11 kg (with batteries, without bag)	
Dimensions	Approx. 310 x 287 x 58 mm	
Ambient conditions	Operating temperature: -10 to 50 °C / 14 to 122 °F Storage temperature: -10 to 50 °C / 14 to 122 °F Humidity in area of use: 1090 % RH	
Measuring range	0.00 to 100.00 kg	
Accuracy (nominal temperature 22 °C/71.6 °F)	(After zeroing) Operating temperature 25 ± 5 °C (inclination angle around 0°): ≤ ± (10 g + 0.03 %rdg) (0~30 kg) ≤ ± (10 g + 0.05 %rdg) (30~100 kg) Other operating temperature (inclination angle around 0°):	
	\leq ± (20 g) (0~10 kg) \leq ± (10 g + 0.15 %rdg) (10~100 kg)	
Solution	0.01 kg	
Bluetooth range	≥ 30 m in all directions in an open area	



10.2 Technical data for testo Smart Valve

Feature	Value	
Connection to the sensor	BLE 4.2+	
Interface	BLE 4.2+	
Power supply	Power source: Battery 9.0 V, type 6LR61 Battery life: > 60 h at 3000 valve actuations	
IP class	54	
Weight	0.57kg (with battery)	
Dimensions	Approx. 95 x 119 x 47 mm	
Ambient conditions	Operating temperature: -10 to 50 °C / 14 to 122 °F Storage temperature: -10 to 50 °C / 14 to 122 °F Humidity in area of use: 1090 % RH	
Bluetooth range	≥ 50 m in all directions in an open area	
Max. permitted operating pressure	35 bar	

11 Tips and assistance

11.1 Accessories

Description	Order no.
Magnetic strap for valve	0564 1001

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

12 Support

You can find up-to-date information on products, downloads and links to contact addresses for support queries on the Testo website at:

If you have any questions please contact your local dealer or the Testo Customer Service. You can find contact details on the back of this document or online at







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