

Next-Gen testo 300 - Combustion Analyzer

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.
- 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.

1.1 Symbols

Display	Explanation
i	Note: basic or further information
1 2	Action: several steps, the sequence must be followed.
•	Result of an action
✓	Requirement

1.2 Warning notices

Always pay attention to any information marked with the following warning notices along with warning pictograms. Implement the specified precautionary measures!

measures:
▲ DANGER
Risk of death!
▲ WARNING
Indicates possible serious injury.
▲ CAUTION
Indicates possible minor injury.

CAUTION

Indicates possible damage to equipment.

2 Safety and disposal

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

3 Product-specific safety instructions

A CAUTION

The condensate may be acidic. Risk of burns to the hands!

- Wear acid-resistant safety gloves, glasses and overalls to empty the condensate.
- Make sure that the condensate has been fully emptied out of the condensate trap before the measuring instrument is stored for a long time.
- Before disposing of the product, the condensate trap must be emptied and the condensate in the crude gas tube disposed of in a suitable container.
- When testing a gas pipe, pay attention to the following:

A WARNING

Dangerous mixture of gases

Danger of explosion!

- Make sure there are no leaks between the sampling point and the measuring instrument.
- Do not smoke or use naked flames during the measurement.

A CAUTION

Acid in the sensors. May cause chemical burns.

- Do not open the sensors.

Eye contact: Rinse the affected eye thoroughly under running water for 10 minutes, keeping the eyelids wide open and protecting the unaffected eye. Remove contact lenses wherever possible.

A CAUTION

Acid in the sensor filters.

May cause irritation to the skin, eyes or respiratory tract.

- Do not open the sensor filters.

Eye contact: Rinse the affected eye thoroughly under running water for 10 minutes, keeping the eyelids wide open and protecting the unaffected eye. Remove contact lenses wherever possible.

Skin contact: Remove the injured person's contaminated clothing, ensuring self-protection. Rinse affected skin areas under running water for at least 10 minutes.

Inhalation: Move to fresh air and make sure that breathing is unrestricted. Ingestion: Rinse mouth out and spit out liquid. If conscious, drink 1 glass of water (approx. 200 ml). Do not induce vomiting.

4 Authorizations and certification

Please find the current country approvals in the Approval and Certification document which is enclosed with the product.

5 Specifications

The Next-Gen testo 300 is a measuring instrument which enables the professional flue gas analysis of combustion systems, such as

- small combustion plants (oil, gas, wood, coal)
- low-temperature and condensing boilers
- gas heaters.

.

Using the instrument, these systems can be adjusted and checked for compliance with the applicable limit values.

The instrument has been verified as a short-term measuring instrument and should not be used as a safety (alarm) device. It is intended for indoor use only.

The following tasks can also be carried out using the instrument:

- Regulating the O₂, CO and CO₂, NO, NO_x values in combustion plants to ensure optimum operation.
- Draft measurement.
- 4Pa measurement.
- Measuring and regulating the gas flow pressure in gas heaters.
- Measuring and optimizing the flow and return temperatures of heating systems.
- Measuring the CO concentration in the ambient air.

9

- The instrument can be used for measurements on CHP plants in accordance with the first German Federal Immission Control Ordinance (BImschV).
- In principle, the CO sensor can also be used for measurements on CHP plants. If you carry out more than 50 measurements on CHP plants per year, please contact your nearest Testo service center or send the instrument to Testo Service for checking.

An NO_x filter for the CO sensor can be ordered as a spare part to replace a used filter.

The Next-Gen testo 300 is a measuring instrument which enables the professional flue gas analysis of combustion systems, such as

• small combustion plants (oil, gas, wood, coal)



The solid fuel measurement adapter (0600 9765) is required for measurements on solid fuel systems. The adapter protects the measuring instrument from harmful substances (dust, organic compounds, etc.).

- low-temperature and condensing boilers
- · gas heaters.

Using the instrument, these systems can be adjusted and checked for compliance with the applicable limit values.

The instrument has been verified as a short-term measuring instrument and should not be used as a safety (alarm) device.

The following tasks can also be carried out using the instrument:

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- Draft measurement.
- 4Pa measurement.
- Measuring and regulating the gas flow pressure in gas heaters.
- Measuring and optimising the flow and return temperatures of heating systems.
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An NO_x filter for the CO sensor can be ordered as a spare part to replace a used filter.

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6 Product description

6.1 Front view



6.2 Rear view



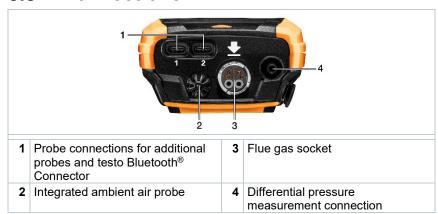
Explanation of icons

	IMPORTANT
	Magnetic field Damage to other devices!
(I _])	 Keep a safe distance away from products that could be damaged by the effects of magnetism (e.g. monitors, computers or credit cards).
2	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.
	Next-Gen testo 300 complies with the Korean safety standard.
*	Next-Gen testo 300 is Bluetooth-enabled



China RoHS

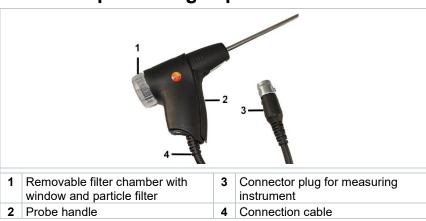
6.3 Connections



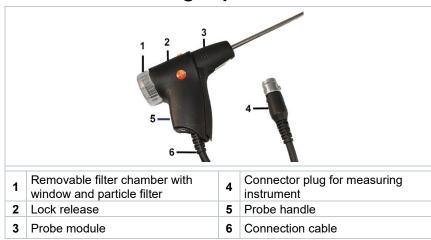


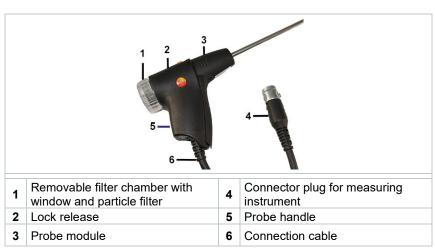
There must be no more than one extension lead (0554 1201, 0554 1202) connected between flue gas socket and flue gas probe.

6.4 Compact flue gas probe



6.5 Modular flue gas probe





7 First steps

7.1 Commissioning

Take the information in the **testo information** document (included with the product) into account for this.

7.2 Power Supply / Battery

The measuring instrument is supplied with an energy storage unit.



Fully charge the battery before using the measuring instrument.



If the measuring instrument is completely discharged, allow at least 30 minutes to charge before switching the measuring instrument on and using it again.



If the power supply is connected, the measuring instrument is automatically powered via the power supply.



Only charge the battery at an ambient temperature of 32 to 95 °F (0 to 35 °C).



Storage conditions for the battery:

- Ambient temperature from 50 to 68 °F (10 to 20 °C)
- Charge level of 50 to 80%

7.2.1 Charging battery

- 1 Connect the instrument plug of the charging cable to the USB socket on the measuring instrument.
- 2 Connect the charging cable of the power supply to a power socket.
- The charging process starts. LED in the condensate trap flashes red.

The charging process stops automatically when the energy storage unit is fully charged. LED in the condensate trap has a continuous red light.





If the battery has discharged completely, the charging time at room temperature is approx. 5-6 hrs.

7.2.2 Power Supply Operation

- 1 Connect the instrument plug of the Power Supply to the mini USB on the measuring instrument.
- 2 Connect the power supply into a power supply.
- ▶ The measuring instrument is powered via the power supply.
- If the instrument is switched off and a battery is inserted, the charging process will start automatically. Switching the measuring instrument on stops the charging of the battery and the measuring instrument is powered via the power supply.



For longer measurements involving mains operation, Testo recommends using a combustion air temperature probe with connection cable. Self-heating of the instrument during power supply operation may influence the combustion air temperature measurement using a mini ambient air probe.

7.3 Touchscreen Operation

Familiarize yourself with the touchscreen operating concept before you use the measuring instrument.

Actions are mostly carried out by:

Description	
Tapping To open applications, select menu symbols, press buttons on the display or enter characters with the keypad, in each case tap these with a finger.	
Swiping Swipe to the right or left on the display to show further views, e.g. to switch from the list view to the graphic view.	

Description

Zooming

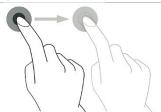
In order to make a section of the display larger or smaller, touch the display with two fingers and move them apart or together.



Dragging

You can move an element by touching it, holding it and dragging it to the required position.

Example: Changing the display sequence of the measurement parameters.



7.4 Keypad

Some functions require values (figures, numerical value, unit, characters) to be entered. The values are entered via a keypad.

- ✓ Input field is enabled (flashing cursor)
- Enter value: tap the required value on the display (figures, numerical value, unit, characters).



- Confirm entry: Press .
- 3 Repeat steps as required.

7.5 Switching the instrument on and off

Current status	Action	Function
Instrument off	Press the side button for 3 seconds	Instrument is switched on.



When the measuring instrument is started for the first time, the setup wizard guides you through the following setting parameters step by step:

- Country version
- Language
- Wi-Fi
- Date and Time
- Own company address
- E-mail account

A tutorial can be started after the setup wizard.

The tutorial demonstrates the general operation and the most important functions of the measuring instrument using examples.

Instrument on	Press the side button briefly (< 1 s)	Instrument is switched to standby mode. The instrument is re-activated when the button is pressed again.
Instrument off	Press the side button for a long time (>1 s)	Selection: [OK] Instrument is switched off or cancel the instrument being switched off with [Cancel].



Standby mode has 3 time-dependent functions:

- Standby time up to 1 min: Immediate restart after pressing the key.
- Standby time up to 1 hour: After pressing the key, a restart takes place after 5 seconds.
- Standby time more than 1 hour: Next-Gen testo 300 is in power save mode. After pressing the key, a restart takes place after the zeroing phase.



Unsaved readings are lost when the measuring instrument is switched off.

7.6 Connect probes

Flue gas probes

- Instrument is switched on.
- Insert the connector plug into the flue gas socket and lock it in place by turning it slightly clockwise (bayonet lock).





There must be no more than one extension line (0554 1202) between measuring instrument and flue gas probe.

Temperature adapter

- ✓ Instrument is switched on.
- 1 Insert the connector plug of the probe into the probe socket.



System recognizes the probe (info is displayed).



The parameter which is measured with an external probe is identified on the display by "ext.".

7.7 Connecting Smart Probes and testo Smart App

The Next-Gen testo 300 has the option of establishing a Bluetooth® connection with wireless probes via the testo Bluetooth® Connector as well as a connection to the testo Smart App at the same time.



If the Next-Gen testo 300 is used with Smart Probes, they must be at least 8 inches (20 cm) apart.

7.7.1 Attaching the testo Bluetooth® Connector (0554 3004)



Once the testo Bluetooth® Connector is plugged in, all the warning and safety instructions for the Next-Gen testo 300 apply.

A WARNING

Danger of suffocation!

The testo Bluetooth® Connector is a small part that can be swallowed. Keep out of reach of children.

Connect the testo Bluetooth®
Connector to the TUC 1 or TUC 2
socket on the Next-Gen testo 300.



- When connected, a testo Bluetooth® Connector icon appears in the Next-Gen testo 300 status display.
- You can now connect up to 4 Smart Probes to the Next-Gen testo 300 at the same time.

Press the ON button on the Smart Probe.



- The LED flashes yellow while connecting via Bluetooth® and then flashes green when the connection is established.
- once the Smart Probe is connected with the Next-Gen testo 300, this reading appears on the display. The product name and the product ID (last three digits of the serial number) indicate at a glance which Smart Probe is providing the reading. The readings are transmitted to the testo 300 NEXT LEVEL in fixed measuring cycles of 1 second.

List	Graphics	Hot Spot
	80.3 _{°F}	
	21.0 %	
	15.2 inH ₂ O	ı
testo 115i 812	81.5 ° _F	
testo 115i 770	77.1 °F	
	4.4 ° _F ΔT1	
£	D	[↑]



If the Next-Gen testo 300 receives no new measuring value at the expected receiving time, e.g.:

- the Smart Probe is outside the connection range
- another problem causes an interrupted connection no more readings are shown on the Next-Gen testo 300 (display: "----")



Carrying out the normal testo 300 FW update is sufficient to update the testo Bluetooth® Connector. The testo Bluetooth® Connector then receives the update when the Next-Gen testo 300 is next switched off. This means that every testo Bluetooth® Connector with an older version is updated during switch-off. This is indicated by the continuous red flashing condensate trap.

7.7.2 Smart Probes compatible with the instrument

Order number	Designation
0560 2115 03	testo 115i - clamp thermometer with smartphone operation
0560 1510	testo 510i - differential pressure measuring instrument with smartphone operation
0563 4915	testo 915i - Wireless thermometer w flexible temp. probe (TC type K) and smartphone operation

7.7.3 Establishing a connection with the testo Smart App



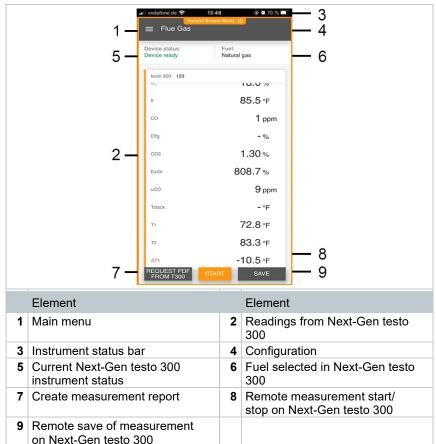
In order to establish a connection, you need a tablet or smartphone with the testo App already installed on it.

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

SMART

Compatibility:

- Requires iOS 13.0 or later/Android 8.0 or later.
- Requires Bluetooth® 4.0.
- Requires in testo 300 software version V12.7 or newer & firmware version V1.10 or newer.



7.7.3.1 App user interface

7.7.3.2 Measurement menu – testo 300 Second Screeen

The testo Smart App features several stored measurement programs. Depending on the measurement task, these enable the user to configure and carry out the measurement conveniently. To use the Next-Gen testo 300 with the testo Smart App, only the measurement program testo 300 Second Screen is used.

Basic view

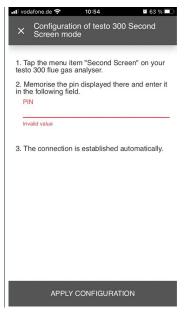
In the Basic View application menu, the current measured values can be read, recorded and saved. The basic view is particularly suitable for quick and simple measurements. All Bluetooth® probes (apart from Next-Gen testo 300) compatible with the testo Smart App are displayed in the basic view.

testo 300 Second Screen

With the testo 300 Second Screen measurement program, all measurement data of the Next-Gen testo 300 can be transferred to the smartphone or tablet and the measurement can be controlled from both devices.

7.7.4 Connecting for the first time

- 1 Click on Measure.
- 2 Click on the testo 300 Second Screen.
- The following window opens.



3 Follow the instructions and enter the pin in the field provided.



For detailed information on how to obtain the pin, see section **8.2.4 Second Screen**.



The PIN only needs to be entered when connecting for the first time. After that, the configured Next-Gen testo 300 is automatically recognized by the testo Smart App and the connection is established.

- 4 Click on Apply Configuration.
- ▶ The connection is automatically established.

7.7.5 Carrying out the measurement

- 1 Open the testo Smart App.
- 2 Elick on Measure.
- 3 Click on the testo 300 Second Screen measurement program.
- The connection to the Next-Gen testo 300 is automatically established (this may take a few seconds).
- Once the connection has been established between the App and Next-Gen testo 300, the App will be in Second Screen mode. This represented by a yellow frame in the App. This means that all measurement data from the Next-Gen testo 300 is mirrored on the App. The measurement can now be controlled from both instruments.
 - 4 Click on required activity:
 - Start measurement: click on Start.
 - Stop measurement: click on Stop.
 - Request the measurement report from Next-Gen testo 300: click on Request PDF from testo 300.
 - Save measurement on the Next-Gen testo 300: Click on Save.
- No other measuring apps from the Smart App can be used while the connection is being established.
- To establish a connection, the Smart App connection must be activated on the Next-Gen testo 300.
- To establish a connection, the Wi-Fi must be activated on the smartphone/tablet.

7.7.6 Settings – language

- 1 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.

7.7.7 Help and Information

Under Help and Information, you will find information about the testo Smart App. The stored tutorial can be called up and implemented. This also where legal information can be found.

7.7.7.1 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.

7.7.7.2 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.

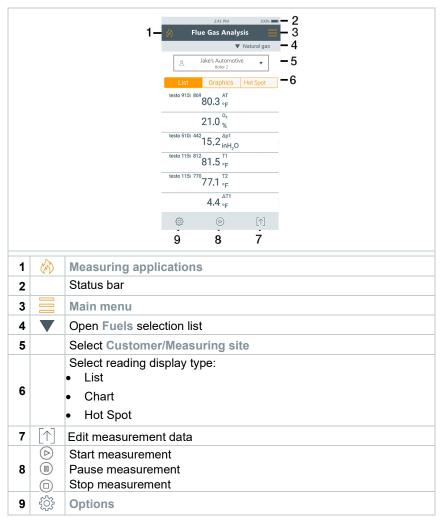
7.7.7.3 Exclusion of liability

- 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.

8 Using the product

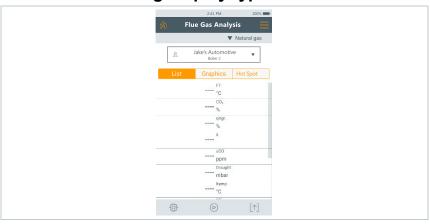
8.1 User interface



Further symbols on the user interface (without numbering)

9	Retry measurement
<	One level back
←	One level back
\leftarrow	One level back
\times	Cancel process
	Print values
	Save report
€	Save and send report
□ □□ ※	Generate QR code

8.1.1 List reading display type



The measurement parameters/units and the number and order of the measurement parameters displayed in the List reading display type can be set, see Section Edit View.

Only those measurement parameters and units that are enabled in the reading display appear in the reading display, in the saved measurement protocols and on the report printouts.

The settings only apply to the measurement type currently enabled.



8.1.2 Graphics reading display type

In the Graphics reading display type, the reading progression can be displayed as a line diagram.

A maximum of 4 measurement parameters can be set at any one time. Only those measurement parameters/units can be displayed that are available in the List reading display type.

The measurement parameters/units can be adjusted if necessary:

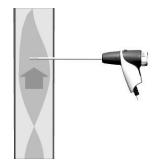
- ✓ Measurement view is enabled.
- 1 Call up function: Graphics
- 2 Tap on ▼ in order to open selection list for measurement parameters/units.
- 3 Select desired measurement data / units.
- Selection is accepted automatically.

8.1.3 Hot Spot reading display type



Search for corestream:

- Measurement view is enabled.
- 1 Call up function: Hot Spot
- 2 Start search: 🕞
- Perform zeroing.
- The measurement starts automatically after zeroing.
- 4 Align the flue gas probe in the flue gas duct so that the probe tip is in the corestream (area of the highest flue gas temperature Max FT).
 - Grey value/grey pointer: Display of current flue gas temperature
 - Orange value/orange pointer: Display of maximum flue gas temperature
 - Reset values/pointer:



8.2 Overview of main menu (=)



Main menu	Description
Customer/Measuring site	Create, edit and delete customer and system information.
Tests	Call up, delete and send measurements that have been performed (various formats possible).
Saved reports	Call up and delete measurement report.
Second Screen	Connection to the testo Smart App can be activated or deactivated.
Gas path check	For flawless operation of the measuring instrument, regular tightness testing of measurement systems (measuring instrument + flue gas probe) is recommended.

Main menu	Description
Device Settings	Settings - Country version and language - Wi-Fi - Date & Time - Own company address - Hotspot - Rechargeable battery management - Display brightness - Manage e-mail accounts - CO/NO sensor protection - NO2 addition - O2 reference - Alarm limits
Sensor Diagnosis	Overview of the sensors fitted and their condition.
Error List	Call up error reports
Device information	Information - Device name - Serial number - Instrument identification number - Last service - Free memory - Operating hours - Operating hours since last service - Software version - Firmware version - Firmware date - qA version - qA date
Server information	Information about the available server
E-Mail	Set up e-mail account and the e-mail account can be called up. To set up the e-mail account on the Next-Gen testo 300 the IMAP setting in your e-mail account with your provider must be activated. You can find more information in your e-mail account itself, e.g. under FAQs or Settings.

Main menu	Description
My Apps	Additional applications - Alarm clock - E-mail - Gallery - Browser - Calendar - Pocket calculator - QuickSupport - File manager
Help	Aids - Device Support - Tutorial - Setup Wizard - Help Online - Testo website - Update via USB

8.2.1 Customer / Measuring site

Create, edit and copy Customer / Measuring site information.

Customer / Measuring site can be deleted.

- Call up function: Customer / Measuring site
- Customer / Measuring site menu is displayed.

The following functions are available:



Search

- 1 Tap Search operating field.
- ▶ Text cursor flashes.
- 2 Enter search test using the text editor.



Via the search text, only the Customer / Measuring site is displayed that contains characteristics of the search text.

Confirm search result: press .

Create new customer

- 1 Tap + New Customer / Measuring site.
- Customer input screen is opened.
- 2 Tap the required input field.
- ▶ Keypad appears.
- 3 Enter the information via the keypad.
- 4 Confirm each input with .



The Customer/Company Name input field is a required field and must be filled in.

- 5 Save.
- Customer is created.



In order to be able to select a customer, at least one measuring site must be created and selected!

Create new measuring site

- A customer is created.
- 1 Tap Measuring site button.
- 2 Tap + New measuring site operating field.

- Measuring site parameters menu is opened.
- 3 Enter data.
- i

The Name of measuring site input field is a required field and must be filled in.

4 Confirm each input with 2.



An additional button (>) appears in some input fields.

These buttons contain a selection of parameters which are adopted in the input field by tapping on them.

5 Save.

Edit customer

- 1 Tap customer.
- ▶ Customer input screen is opened.
- 2 Input fields can be edited.

Edit measuring site

- Customer input screen is open.
- 1 Tap Measuring site button.
- 2 Select Measuring site.
- 3 Edit data.
- 4 Save.

8.2.2 Tests

- 1 Call up function: | Tests
- ▶ Tests menu is displayed.
- 2 Select customer.
- 3 Open measuring site.

Measurements for the selected customer/measuring site can be viewed and deleted.

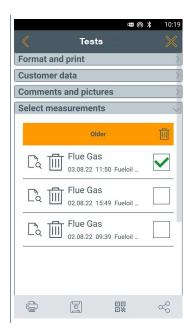
More options for selected measurement:

Print readings

Save report

Save and send report

Generate QR code



The following information can be selected/added to create a report.

Category	Description
Format and print	Select output format(s): - CSV (comma separated text file, e.g. for Microsoft® Excel) - PDF - QR - QR_ZIV - ZIV 2.00 (XML file, complying with the regulations of the Guild of Master Chimney Sweeps in Germany).
Customer data	Enter/add contact details.
Comments and pictures	Enter comments and Add (opens the Gallery). Pictures are only included when output is in PDF format.

Category	Description
Select measurements	All saved measurements are displayed in one of the following time categories, depending on the creation date: Today, Yesterday or Older. The measurements selected to create the report are identified with
Signature	Sign report.

Back to the main menu: tap X or Back to the measurement menu: tap \(\square\).



If you have saved more than 100 measurements, they can be stored in the archive folder. A dialogue window appears automatically and you can choose whether you want to create this archive folder or not.

8.2.3 Saved reports

The measurement reports that have been created are stored under **Saved reports**. These can be called up again, sent or deleted.

- 1 Call up function: E | Saved reports.
- The OI File Manager folder is opened and the available reports are displayed.

Open report

- 1 Tap required report.
- Report is displayed as a PDF.

Delete report(s)

1 Touch required report for >2 sec.

Report is marked.



- 2 If necessary, mark more reports by tapping.
- Delete report(s): tap

Send report(s)

- 1 Touch report for >2 sec.
- Report is marked.
- 2 If necessary, mark more reports by tapping
- Tap symbol.
- 4 Tap Send.
- 5 Send report by e-mail.

Sort report(s)

- 1 Tap symbol.
- 2 Tap Settings.
- 3 Disable in ascending order under sort settings.
- ▶ The latest reports are displayed first.

8.2.4 Second Screen

In the Second Screen menu item, the Smart App connection can be activated or deactivated. This is also where the connection PIN required for the initial connection is stored.

To connect the Next-Gen testo 300 to your smartphone or tablet, the Second Screen connection must be activated.

- Call up function: E | Second Screen
- Tap the Smart App connection selection field to activate ()/deactivate ().
- When connecting to the testo Smart App for the first time: enter the displayed connection PIN in the testo Smart App, under the testo 300 Second Screen measurement program.
- 4 Back to Main menu: tap 🗀.

8.2.5 Gas path check

For flawless operation of the measuring instrument, regular tightness testing of measurement systems (measuring instrument + flue gas probe) is recommended.

- 1 Call up function: | Gas path check
- ▶ Gas path check starts automatically.
- Place the black sealing cap on the tip of the flue gas probe.
- The pump flow is displayed. If the flow rate is less than 0.02 l/min, the gas paths are not leaking and the measurement is ended.
- Remove the sealing cap from the probe tip.
- Back to the main menu: tap <.

8.2.6 Device settings

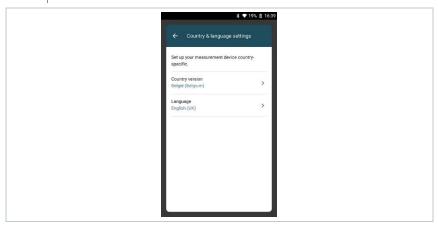
8.2.6.1 Country version and language

Set up your measuring instrument country-specifically.

The country version configuration affects the measurement parameters, fuels, fuel parameters and the bases of and formulas for calculations that are enabled.

The country version configuration affects the user interface languages that can be enabled.

Call up function: | Device Settings | Country version and language



Set country version

- 1 Tap Country version selection field.
- The available country versions are displayed.
- 2 Select country version.
- ▶ The query Change country version? is displayed.
- 3 Tap Next.
 - i

Configuration of the country version can be ended by cancelling. The display goes back to Device Settings.

- The selected country version is configured (this may take a few minutes). The Device Settings menu is then displayed.
- Restart the measuring instrument to complete its configuration.

Set language

- ✓ Country & language settings menu
- 1 Tap Language selection field.

- The available languages for the selected country version are displayed.
- ² Select Language and tap ←.
- The instrument is reconfigured to the selected language.
- 1 Back to the main menu: tap ← and <.

8.2.6.2 Wi-Fi



A radio link, such as a Wi-Fi, is not relevant for carrying out measurements.

Set up a connection to a Wi-Fi router or a Wi-Fi hotspot. The connection enables the sending of measurement reports on site by e-mail.

- 1 Call up function: | Device Settings | Wi-Fi.
- 2 Tap Wi-Fiselection field.
- 3 Enable Wi-Fi: tap Off button or move grey point to the right.
- Instrument switches to On. The point changes to green.
- Display of all available Wi-Fi routers or Wi-Fi hotspots in the vicinity.
- 4 Select Wi-FiN router or Wi-Fi hotspot.
- 5 Tap Connect.
- 6 It may be necessary to enter the password for the selected Wi-Fi.
- Connection is set up and shown by Connected.

Further entries via button

Category	Description
Add network	Enter network name using the keypad, set security standard and if necessary enter further options. Save entry.
Saved networks	Display of saved networks.

Category	Description
Updating	Updating the display of available networks.
Advanced	Further Wi-Fi settings are displayed.



The Wi-Fi is disabled in standby mode and enabled again once you quit standby mode. The enabling process may take a few seconds.

8.2.6.3 **Date/Time**

You can set the date, time and time zone in the **Date/Time** menu. You can choose between the 24 hr or AM/PM formats for the time.



If the Wi-Fi has already been enabled, the Date/Time provided by the network is automatically set.

1 Call up function: | Device Settings | Date/Time.



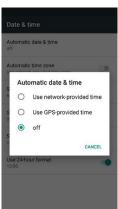
- Various setting options are displayed. Depending on your requirements, you can
 - Enable (●) / disable(▶) selection fields by tapping
 - · Open other selection fields
 - Enter parameters using the keypad
 - Set 24 hr or AM/PM format: 24 hr () / AM/PM ()
- 2 Back to the Device Settings menu: Tap ← | <.

Set Date/Time manually

- 1 Tap Date/Time.
- 2 Tap Autom. Date/Time.



3 Select Off.



- Autom. Date/Time is disabled. The pop-up window closes automatically.
- 4 Tap Set Date.
- 5 Select date via the calendar and confirm with OK.
- 6 Tap Set Time.
- 7 Tap hour and set.

- 8 Tap minute, set and confirm with OK.
- Back to the Device Settings menu: tap $\subseteq |$ \leftarrow |

Set time zone manually

- 1 Tap Time Zone.
- 2 Tap Autom. Time Zone and disable ().
- 3 Tap Select time zone.
- 1 Select desired time zone.
- 2 Back to the Device Settings menu: tap ← | ← | ✓.

8.2.6.4 Own company address

Enter own company address. This information will be shown on the reports.

- Call up function: | Device Settings | Own company address
- Contact information input screen is opened.
- 2 Tap the required input field.
- Keypad appears.
- 3 Enter the information via the keypad.
- 4 Confirm each input with √.
- 5 Back to the Device Settings menu: tap .

8.2.6.5 Hotspot

Enable a hotspot in order to be able to transmit readings to software / industry software.



The interface must also be available in the software / industry software.

Call up function: | Device Settings | Hotspot

- By tapping the selection field, enable ()/disable () Hotspot.
- 3 Back to the Device Settings menu: tap ←.

Edit hotspot name and password

- 1 Tap Hotspot settings.
- 2 Select Wi-Fi Hotspot.
- 3 Tap Set up Wi-Fi Hotspot.
- 4 Edit network name and password.
- 5 Tap Save.
- 6 Back to the Device Settings menu: tap .

8.2.6.6 Rechargeable battery management

- Call up function: | Device Settings | Rechargeable battery management
- 2 Select between the standby options by tapping the selection field.
- 3 Back to the Device Settings menu: tap \(\square\).

8.2.6.7 Display brightness

- Call up function: | Device Settings | Display brightness
- 2 Adjust the display brightness using the slide control.
- 3 Back to the Device Settings menu: tap ←.

8.2.6.8 Manage e-mail accounts

- Call up function: | Device Settings | Manage e-mail accounts.
- 2 An e-mail account can be added by clicking on the plus icon.
- 3 Back to the Device Settings menu: tap —.

8.2.6.9 CO/NO sensor protect

Limit values can be set to protect the CO/NO sensors against overload. Sensor protect is enabled if these are exceeded:

- Fresh air dilution if exceeded (only for instruments with the "Dilution" option)
- · Shutdown if exceeded again



When dilution is enabled, the CO and CO undiluted values are displayed in a blue font. A "*" is shown on the printout after the name of both values to indicate dilution.

- Call up function: | Device Settings | Sensor Protect
- ▶ CO input screen: Set Sensor Setting is opened.
- 2 Enter the alarm limit value via the keypad.
- Confirm input with .



The limit values must be set to 0 ppm to disable sensor protect.

8.2.6.10 NO2 addition (testo 300 Professional / Industrial)

- Call up function: | Device Settings | NO2 addition
- 2 Enter the addition value using the keyboard.
- 3 Confirm the input with OK.
- 4 Back to the Device Settings menu: tap \(\square\).

8.2.6.11 O₂ reference

The O2 reference value of the current fuel can be set.

- Call up function: | Device settings | O2 reference
- ▶ O₂ reference current fuel input screen is opened.
- 2 Enter the value via the keypad.
- Confirm input with .

4 Tap [OK].

8.2.6.12 Alarm limits

Alarm limits can be set for the CO Ambient measurement type. An audible alarm signal is triggered when the alarm limit is reached.

- Call up function: | Device Settings | Alarm limits
- Alarm limits input screen is opened.
- 2 Tap directly on the value in the relevant input field.
- Keypad appears.
- 3 Enter the value via the keypad.
- 4 Confirm each input with √.
- 5 Tap [OK].

8.2.7 Sensor diagnosis

Overview of the sensors fitted and their condition.

Call up function: Sensor Diagnosis

8.2.8 Error list

Call up error reports.

Call up function: | | Error list

8.2.9 Device information

Call up device information.

1 Call up function: | Device information

8.2.10 Server information

Information about the available server.

Call up function: Server information

8.2.11 E-mail

Setting up an e-mail account



An e-mail account has to be set up in order to be able to send reports as e-mails. A Wi-Fi connection must be available to set the account up.

- 1 Call up function: | E-Mail
- 2 Enter e-mail address.
- 3 Enter password.
- 4 Set account options, such as synchronization interval
- 5 Entry of account name (optional) and name which appears with the sent e-mails.
- The inbox of the e-mail account is opened.



If the system does not accept the e-mail address and password combination, but you are certain it is correct, check the following possible solutions:

- Open e-mail client, e.g. gmail, on a PC and check e-mail reception. Your provider may have sent you a security e-mail that you need to acknowledge before the e-mail account can be accepted on the Next-Gen testo 300.
- Enable IMAP account
 To do this, call up your e-mail account on the PC. You will find the setting for the common e-mail providers, e.g. gmx, under settings POP/IMAP. Account-specific information about the enabling of the IMAP account is supplied by the relevant provider. Find out about this from the relevant provider or on the Internet.
- · Manual set-up of the e-mail account
 - 1. Call up function: = | E-Mail.
 - 2. Enter e-mail address.
 - 3. Select Manual set-up.
 - Select Private account type (IMAP) (recommended).
 - Enter password.
 - Enter/change server, port and security type.
 This information is e-mail account specific and is supplied by your e-mail account provider. Find out about this from your account provider or on the Internet.

- 7. [Next]
- Enter/change SMTP server, port and security type.
 This information is e-mail account specific and is supplied by your e-mail account provider. Find out about this from your account provider or on the Internet.
- 9. [Next]
- 10. Set account options, such as synchronization interval.
- 11. [Next]
- 12. Entry of account name (optional) and name which appears with the sent e-mails.
- 13. [Next]
- The inbox of the e-mail account is opened.

Call up e-mail account

- Call up function: E-Mail
- Inbox menu is opened.
- Create e-mail: tap 🥝.
- Compose menu and the keypad is opened.
- 3 Enter the e-mail address via the keypad.
- 4 Fill in subject and create text.



If required, additional files can be attached to the e-mail using the paper clip symbol.

- 5 Send e-mail: tap 2.
- E-mail is sent.

8.2.12 My Apps

Additional applications

- Call up function: | My Apps
- Available Apps are displayed.

Symbol	Name
	Alarm clock
	Gallery
	Browser
	Calendar
- × + =	Calculator
	Quick Support

8.2.13 Help

8.2.13.1 Device registration

Call up function: | Help | Device Registration

Testo would like to offer you the best possible customer service. Register your instrument so that, when you call, our employees in Customer Service have all the information they need available at all times, so that they can quickly provide you with further assistance.

Register at: https://testo.com/register

You will find the information you need for registration on the sticker on the back of the instrument.

Follow the instructions on the display.

Registration gives you the following advantages:

- 1 year's additional warranty for free
- Always being up to date with the latest from Testo

8.2.13.2 Tutorial

1 Call up function: | Help | Tutorial

The tutorial provides you with an overview of and an introduction to the operation and functions of the instrument.

8.2.13.3 Setup Wizard

- 1 Call up function: | Help | Setup Wizard
- 2 The following settings can be made:

Function	Section
Country version and language	8.2.6.1
Wi-Fi	8.2.6.2
Date/time	8.2.6.3
Contact information	8.2.6.4 (own company data)
Registration	8.2.13.1 (instrument registration)

- 3 Next >
- Setup is complete.
- 4 If necessary, tap Start tutorial or End setup.

8.2.13.4 Update via USB



Testo recommends updating the firmware only when the charge capacity is full.

You will find the current instrument software (firmware) on the Testo homepage www.testo.com under the product-specific downloads.

- 1 Call up function: | Help | Update via USB
- 2 Confirm info with OK.
- Firmware update is started.
- Insert the connecting cable (0449 0134) into the USB port on the measuring instrument, then connect it to the PC.
- Your PC identifies the measuring instrument as a removable medium.
- Copy the new instrument software file (t300.zip) to the identified removable medium.

 Length of the copying process: approx. 10 15 minutes
- 5 Disconnect the connecting cable from the measuring instrument.
- Once the instrument software has been updated (duration approx. 1.5 hrs), the measuring instrument will automatically reboot and is ready for use again.

9 Performing the measurement

9.1 Prepare for measurement

- 1 Check the condensate container fill level and if necessary empty container, see Section 10.5 **Empty condensate trap**.
- Check the particle filter of the flue gas probe for contamination and replace it in good time. If necessary, see Section 10.10 Check/replace particle filter.

9.2 Zeroing phases

Measuring the combustion air temperature (AT)

If no external combustion air temperature probe or testo 915i Smart Probe is connected, the combustion air temperature is measured via the integrated temperature probe.

Gas zeroing

The gas sensors are automatically zeroed after the instrument is switched on.



Next-Gen testo 300 without probe zeroing option in the flue gas: The flue gas probe must be in fresh air during the zeroing phase (30 seconds)!

Next-Gen **testo 300** with probe zeroing option in the flue gas: The flue gas probe may already be in the flue gas duct during the zeroing phase (30 seconds).

Start zeroing of the gas sensors manually: (C) | Zeroing Gas Sensors

Draft/pressure zeroing

The pressure sensors are zeroed when a pressure measuring function is called up.



Next-Gen testo 300 without probe zeroing option in the flue gas: The flue gas probe must be in fresh air during the zeroing phase! The instrument must not be pressurized during zeroing! Next-Gen testo 300 with probe zeroing option in the flue gas: The flue gas probe may already be in the flue gas duct during the zeroing phase. The pressure socket of the instrument must be free (depressurized, not closed).

9.3 Carry out gas path check



Regularly check the measurement system (measuring instrument + flue gas probe) for leaks.

In particular, too high an O2 value may be an indicator of a leaking measurement system.

> Gas path check.

9.4 Use of flue gas probe

Check thermocouple before use

> The thermocouple of the flue gas probe must not be touching the probe cage.

Bend the thermocouple back if necessary.



Align flue gas probe

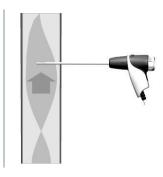
The thermocouple must be freely exposed to the flue gas flow.
 Align the probe by turning it as required.



Search for Hot Spot

- ✓ The tip of the probe is in the hot spot of the flue gas.
- 1 Select Hot Spot.
- Start corestream search: tap .
- 3 Perform zeroing. Please follow the instructions.

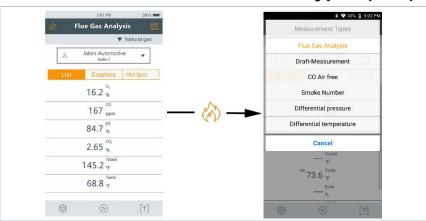
Align the flue gas probe in the flue gas duct so that the probe tip is in the hot spot (area of the highest flue gas temperature Max FT).



- Grey value/grey pointer: Display of current flue gas temperature
- Orange value/orange pointer: Display of maximum flue gas temperature
- Reset values/pointer: .
- End Hot spot search: tap

Overview of measurement types (🥙) 9.5





Measurement types
Flue Gas Analysis
Draft Measurement
CO Air Free
Smoke No.
Differential pressure

Measurement types

Differential temp.

O₂ Air (EU Regulation)

Gas flow

Oil flow

CO ambient

Pipe Commissioning

Pressure Drop Test (EU Regulation)

Pretest (EU Regulation)

9.5.1 Flue Gas Analysis



In order to maintain the measuring accuracy of the instrument, the correct fuel must be selected or configured.

Tap ▼ (Fuels) > Select fuel.



To achieve usable measurement results, the test time of a flue gas measurement should be at least 3 minutes and the measuring instrument should display stable readings.



If a separate CO Air Free measurement has not yet been carried out, this value is calculated using the readings from the flue gas probe and continuously updated.



For this type of measurement, the **Averaging** option is also available. See **Averaging** section.



Up to four Smart Probes can be used simultaneously during flue gas measurement. This enables parallel measurement of the combustion air temperature, the differential temperature and the differential pressure.

The following Smart Probes can be connected:

testo 915i (0563 4915), testo 510i (0560 1510), testo 115i (0560 2115 03)

Call up function: 🖄 | Flue Gas Analysis



- 2 Start measurement: tap .
- Zeroing takes place.
- ▶ Readings are displayed.



If the Draft measurement parameter is enabled in the reading display, a draft measurement is automatically started in parallel to the flue gas measurement. In the List measurement data view, the parallel draft measurement can be stopped/restarted. This draft measurement is performed separately to a measurement of the Draft measurement type.



For the draught measurement, the minus connection for differential pressure measurement must be free (ambient pressure, not closed).

- Tap on the draught reading display □ or ▷ next to it.
- 4 End measurement: tap .

Automatic display after connection of one or more Smart Probe testo 115i or testo 915i during flue gas measurement

If several temperature probes are connected in total (external probes and/or testo 115i or testo 915i), the temperature probes are used for flue gas measurement according to the following procedure.

The AT probe = external cable probe always has first priority.

Connected cable probe (maximum 1 possible)	Number of connected Smart Probes (testo 115i and/or testo 915i)	Display and use of the temperature probe in testo 300 NEXT LEVEL
No	1	t115i: additional temperature channel T t915i: AT probe for the AT measurement
Yes	-	Cable probes: AT probe for the AT measurement
Yes	1	Cable probes: AT probe for the AT measurement t115i/ t915i: additional temperature channel T
No	2	Internal temperature sensor t300 NEXT LEVEL: AT probe for the AT measurement t115i/t915i: additional temperature channel dT
Yes	2	Cable probes: AT probe for the AT measurement t115i/t915i: additional temperature channel dT
No	3	A) min. one t915i connected t915i: AT probe for the AT measurement t115i/t915i: additional temperature channel dT B) no t915i connected Internal temperature sensor t300 NEXT LEVEL: AT probe for the AT measurement t115i: additional temperature channel dT and temperature channel T
Yes	3	Cable probes: AT probe for the AT measurement t115i/t915i: additional temperature channel dT and temperature channel T
No	4	Internal temperature sensor t300 NEXT LEVEL: AT probe for the AT measurement t115i/t915i: 2 additional temperature channels dT

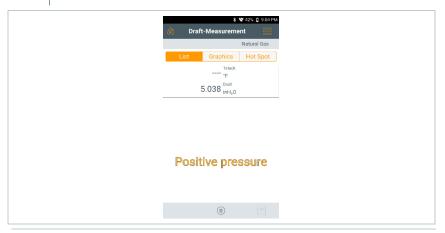
Connected cable probe (maximum 1 possible)	Number of connected Smart Probes (testo 115i and/or testo 915i)	Display and use of the temperature probe in testo 300 NEXT LEVEL
Yes	4	Cable probes: AT probe for the AT measurement t115i/t915i: 2 additional temperature channels dT

9.5.2 Draft Measurement



For this type of measurement, the Mean value calculation option is also available. See Mean value calculation section.

- ✓ A flue gas probe must be connected.
 - Call up function: 🔗 | Draft Measurement





The minus connection for differential pressure measurements must be clear (ambient pressure, not closed).

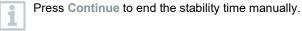
- 2 Start measurement: tap .
- ▶ Zeroing takes place. Please follow the instructions.
- Reading is displayed.
- End measurement: tap .

9.5.3 Solid fuel measurement



For performing solid fuel measurements complying with the 1st BlmSchV, a Next-Gen testo 300 is required with the following equipment:

- CO sensor H2-compensated for measurements (measuring range for 1st BlmSchV measurement min. 20,000 ppm.
 Testo 300 Industrial - 30,000 ppm)
- Measuring range extension by fresh air dilution
- Solid fuel adapter and probe shaft with pre-filter 0600 9765
- Call up function: (A) | Flue Gas
- 2 (Options | Averaging | On
- 3 Zeroing is carried out.
- 4 Confirm with .
- 5 Enter measuring time (15 min). The required value can be entered in the field.
- 6 Confirm with 2.
- 7 Insert the flue gas probe into the exhaust pipe and position it in the hot spot.
- 8 Start averaging with .
 - Stability time starts.



- After a maximum of 3 minutes, the stabilisation time ends and the measurement starts automatically.
- The system records the readings in the set measuring cycle.During the measurement, the readings and the calculated values are displayed.
 - Readings are automatically saved.
 - The measuring result is displayed after the measuring phase has been completed.

9.5.4 CO Air Free

✓ A multi-hole probe (0554 5762) must be connected.

- Call up function: (A) | CO Air Free
- 2 Start measurement: tap .
- Reading is displayed.
- End measurement: tap .

9.5.5 Smoke number



The Smoke No. and Oil depos. parameters are only available for oil fuels. The values calculated by a smoke tester can be entered.

Edit values



All values that can be modified have a dotted underlining.

- Call up function: 🖄 | Smoke No.
- 2 Tap required value.
- Keypad appears.
- 3 Enter value.
- 4 Confirm entry: tap √.
- Reset readings: tap 🗘.

9.5.6 Differential pressure



For this type of measurement, the **Averaging** option is also available. See **Averaging** section.



The differential pressure measurement can also be performed using the Smart Probe testo 510i (0560 1510).



Up to 4 testo 510i Smart Probes can be connected.

A WARNING

Dangerous mixture of gases! Danger of explosion!

- Make sure there are no leaks between the sampling point and the measuring instrument.
- Do not smoke or use naked flames during the measurement.
 - The gas pressure kit (0554 1203) must be connected. Alternatively, the Smart Probe testo 510i (0560 1510) can be used.

- For an instrument with no dilution option: The minus connection for differential pressure measurement must be depressurized at the start of the measurement (ambient pressure, instrument not connected to system being checked), since the pressure sensor is zeroed.
- Call up function: O | Differential pressure
- 2 Tap Differential pressure.
- 3 Start measurement. Tap .
- Zeroing the pressure sensor.
- Reading is displayed.
- 4 End measurement: tap .

9.5.7 Differential temperature



For this type of measurement, the **Averaging** option is also available. See **Averaging** section.



The measurement can also be carried out using Smart Probes. The following Smart Probes can be connected: testo 915i (0563 4915), testo 115i (0560 2115 03)



A differential temperature measurement can also be carried out with just one Smart Probe testo 915i.

The measuring values (T1 and T2) for determining the differential temperature can be recorded by pressing the button on the Smart Probes testo 915i (<1 second).

- Two external temperature probes must be connected. Alternatively, wireless Smart Probes such as the testo 115i or testo 915i can be used. However, a maximum of just four Smart Probes can be used at the same time.
- Call up function: () | Differential temp.
- 2 Start measurement: tap .
- The measured values and the calculated differential temperature \(\Delta t (T1 - T2) \) are displayed.

End measurement: tap .

Automatic display after connection of several Smart Probe testo 115i or testo 915i during differential temperature measurement

If several temperature probes are connected in total (external probes and/or testo 115i or testo 915i), the temperature probes are used for differential temperature measurement according to the following procedure.

Connected cable probe (maximum 1 possible)	Number of connected Smart Probes (testo 115i and/or testo 915i)	Display and use of the temperature probe by temperature channel
No	1	Temperature channel T1: t115i/915i dT is displayed.
Yes	-	Temperature channel T1: Cable probe (ext2): T2 and dT are displayed as "".
Yes	1	Temperature channel T1: Cable probe (ext2): Temperature channel T2: t115i/915i: dT is displayed.
No	2	Temperature channel T1: t115i/915i Temperature channel T2: t115i/915i: dT is displayed.
Yes	2	Temperature channel T1: Cable probe (ext2): Temperature channel T2: t115i/915i: dT is displayed. Temperature channel T3: t115i/915i: T4 and dT are not displayed.
No	3	Temperature channel T1: t115i/915i Temperature channel T2: t115i/915i: dT is displayed. Temperature channel T3: t115i/915i: T4 and dT are not displayed.

Connected cable probe (maximum 1 possible)	Number of connected Smart Probes (testo 115i and/or testo 915i)	Display and use of the temperature probe by temperature channel
Yes	3	Temperature channel T1: Cable probe (ext2): Temperature channel T2: t115i/915i dT is displayed. Temperature channel T3: t115i/915i Temperature channel T4: t115i/915i dT is displayed.
No	4	Temperature channel T1: t115i/915i Temperature channel T2: t115i/915i dT is displayed. Temperature channel T3: t115i/915i Temperature channel T4: t115i/915i dT is displayed.
Yes	4	Temperature channel T1: Cable probe (ext2): Temperature channel T2: t115i/915i dT is displayed. Temperature channel T3: t115i/915i Temperature channel T4: t115i/915i dT is displayed. Temperature channel T5: t115i/915i

9.5.8 O₂ air (EU Regulation)

- ✓ An O₂ dual wall clearance probe (0632 1260) must be connected.
 - Call up function: 🕢 | O₂ supply air
 - Start measurement: tap .
- Reading is displayed.

4 End measurement: tap .

9.5.9 Gas flow



The function is only available if the chosen fuel is a gas.

The gas burner capacity is calculated by means of the gas amount consumed. To this end, a gas amount is input and its consumption read out at the clock meter.

- Call up function: 🙌 | Gas Flow
- 2 Set the gas amount to watch for at the clock meter.
- 3 Set the calorific value of the burnt gas.
- 4 Start measurement: tap .
- The test time is displayed.
- When the set gas amount is reached: tap 🕮.
- The calculated gas flow and the gas burner capacity (in KW) are displayed.

Edit values



All values that can be modified have a dotted underlining.

9.5.10 Oil flow calculation



The function is only available if the chosen fuel is an oil.

This function is used to calculate the capacity of the burner from the set oil pressure and the oil flow rate of the oil nozzle.

- Call up function: 🔗 | Oil flow rate
- 2 Set oil flow rate of the oil nozzle and oil pressure.
- The calculated oil burner capacity is displayed (in KW).

Edit values



All values that can be modified have a dotted underlining.

9.5.11 **CO** ambient



- Cigarette smoke influences the measurement by more than 50 ppm.
 The breath of a smoker influences the measurement by about 5 ppm.
- When using an ambient CO probe, note that:
 The direction of flow of the gas has an effect on the accuracy of measurement. Frontal flow onto the sensor leads to higher readings. The best measurement results are achieved when the probe is moved gently backwards and forwards.
- When using the ambient CO probe and the flue gas probe, note that:
 The probe must be in the fresh air (CO-free) during the zeroing phase.



For this type of measurement, the Mean value calculation option is also available. See **Mean value calculation** section.

- ✓ An ambient CO probe (0632 1272) must be connected.
- Call up function: (A) | CO Ambient
- 2 Start measurement: tap .
- Reading is displayed.
- End measurement: tap .

9.5.12 Pipe Commissioning (EU Regulation)

The pipe commissioning (using air or inert gas such as CO2 or N2) is a tightness test for pipes, including fittings, but without gas appliances and the relevant regulating and safety devices. The pipe commissioning is performed after a load test has been successfully completed on newly laid gas pipes, or after renovation of existing gas pipes, and is used for the acceptance of these pipes. It shows up even the smallest leaks in gas pipes.



According to DVGW TRGI 2018 and ÖVGW G10, the stabilization time and test time depend on the pipe volume.

- Pipe volume < 100 l: Adjustment time 10 min, test time 10 min.

- Pipe volume > 100 I to < 200 I: Adjustment time 30 min, test time 20 min.
- Pipe volume > 200 I: Adjustment time 60 min, test time 30 min.
- > Connect the connector plug of the hose pressure connection kit (0554 1203) to the pressure test kit (0554 1213). Insert the pressure adapter into the flue gas socket and lock by slightly turning it clockwise (bayonet fitting).

Performing the measurement

- The pressure socket of the instrument must be free (depressurized, not closed).
- ✓ Pressure zeroing has been carried out.
- Call up function: (A) | Pipe Comissioning
- 2 Set parameters or enter values.
 - All values that can be modified have a dotted underlining.
- 3 Pressurize the system.



Once the pressure has built up, a stabilization time specified by DVGW-TRGI 2018 should be observed to ensure that any possible pressure fluctuations are not recorded in the measurement as well. The relevant standard provides more detailed information.

- 4 Start stabilization time: tap . If applicable, follow instructions.
- ▶ Reading is displayed.
- Stabilization time is finished.



- Measuring time starts.
- The readings are automatically saved and displayed after the measurement has been completed.
- 5 The measuring value result can be assessed.

- 6 Conclude measurement: tap Next.
- 7 If applicable, repeat measurement: tap .

9.5.13 Pressure Drop Test (EU Regulation)

This measurement is performed to test the serviceability of an existing gas pipe system (in contrast to the load test and pipe commissioning) and is used to check the actual condition of the pipes. The pipe system may be in operation or disused.



Adhere to DVGW-TRGI 2018, worksheet G624!

Absolute pressure (parameter of the measuring location) must be entered to obtain correct readings. If this is not known, it is advisable to use the value 966 hPa (corresponds to 1013 hPa barometric, 400 m above sea level).

> Insert the connector plug of the hose pressure connection kit (0554 1203) into the flue gas socket and lock it in place by turning it slightly clockwise (bayonet fitting).

Performing the measurement

- The pressure socket of the instrument must be free (depressurized, not closed).
 - Pressure zeroing has been carried out.
 - 1 Call up function: 📉 | Pressure Drop test
 - 2 Set parameters or enter values.



All values that can be modified have a dotted underlining.



Three circle diameters and three pipe lengths can be entered, which are then used to calculate three partial volumes. The pipe volume is calculated by adding these three partial volumes.

3 Pressurize the system.

- Start stabilization time. Tap . If applicable, follow instructions.
 Reading is displayed.
 Stabilization time is finished.
 End stabilization time early: tap .
 End measurement: tap .
 Measuring time starts.
 The readings are automatically saved and displayed after the measurement has been completed.
 - 6 The measuring value result can be assessed.
 - 7 Conclude measurement: Tap Next.
 - 8 If applicable, repeat measurement: tap 🔨.

9.5.14 Pretest (EU Regulation)

Insert the connector plug of the hose connection kit (0554 1203) into the flue gas socket and lock it in place by turning it slightly clockwise (bayonet fitting).

Carrying out the measurement

- The pressure socket of the instrument must be free (depressurized, not closed).
- ✓ Pressure zeroing has been carried out.
 - Call up function: (*) | Pretest.
- 2 Set parameters or enter values.
 - All values that can be modified have a dotted underlining.
- 3 Start stabilization time: tap . If applicable, follow instructions.

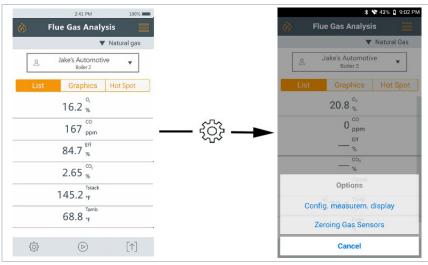
- Reading is displayed.
- Stabilization time is finished.



End stabilization time early: tap .

- Measuring time starts.
- The readings are automatically saved and displayed after the measurement has been completed.
- 4 The measuring value result can be assessed.
- 5 Conclude measurement: tap Next.
- 6 If applicable, repeat measurement: tap .

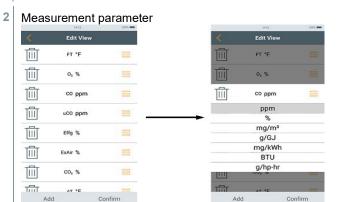
9.6 Overview of options (🔅)



Options	Description
Edit measurem. view	Add (add), delete (i) measurement parameters, change display sequences (i) and units (click on (Unit).
Zeroing Gas Sensors	Manually zeroing gas sensors.
	Menu is only available for measurements with gas sensors.
Zeroing Smart Probes	Zero the differential pressure Smart Probe.
	The menu is only available for measurements with the Smart Probe testo 510i.
Averaging On	Calculation of a mean value within a preset time.

9.6.1 Edit view

- Call up function: (C) | Options | Edit View
- ▶ Edit View menu is opened.



- Add: tap Add to open selection list of measurement parameters.
- **Delete:** tap on $\overline{\mathbb{II}}$.
- **Edit unit:** tap on the measurement parameter you want to edit. Tap on the required measurement unit in the selection list that has been opened.
- Change position in the list: Press and hold and drag to the required position.
- Accept changes: tap Confirm.

Selection list (example: Country version Germany)

The overview of measurement parameters (available selection depends on the chosen measurement type, fuel set and the sensors available in the measuring instrument):

Display	Measurement parameter
FT	Flue gas temperature
AT	Combustion air temperature
Itemp	Instrument temperature
Pump	Pump performance
O2	Oxygen

Display	Measurement parameter
CO2	Carbon dioxide
qAnet	Flue gas loss without consideration of the calorific value range
Effn	Efficiency without consideration of the heat value range
qAgr.	Flue gas loss with consideration of the calorific value range
Effg	Efficiency with consideration of the calorific value range
Draft	Flue draft
ΔΡ	Differential pressure
СО	Carbon monoxide
uCO	Undiluted carbon monoxide
NO	Nitrogen monoxide
NOx	Nitrogen oxides
λ	Fuel-air ratio
AmbCO	Ambient carbon monoxide
O2ref	Oxygen reference
ΔΤ	Differential temperature
Dew Pt	Flue gas dewpoint temperature
Smoke 1	
Smoke 2	
Smoke 3	
Smokenum ber Ø	



Only those measurement parameters and units that are enabled in the reading display appear in the reading display, in the saved measurement protocols and on the report printouts.



The settings only apply to the measurement type currently enabled.

9.6.2 Zeroing Gas Sensors

Zeroing of the gas sensors can be started manually.

- > 🌣 | Zeroing Gas Sensors
- ▶ The gas sensors are zeroed.



Next-Gen testo 300 without probe zeroing option in the flue gas: The flue gas probe must be in fresh air during the zeroing phase (30 seconds)!

Next-Gen testo 300 with probe zeroing option in the flue gas: The flue gas probe may already be in the flue gas duct during the zeroing phase (30 seconds).

9.6.3 Mean value calculation



The mean value calculation option is only available in the country versions x, y, z...



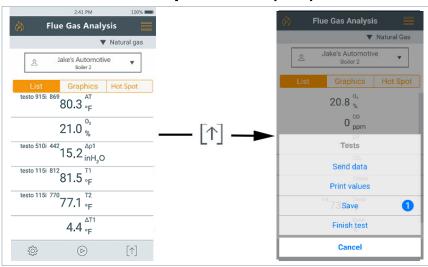
The mean value calculation option can only be set for the following measurement types: Flue gas, Draft, Differential pressure, Differential temperature and CO Ambient.

- 1 Select required measurement type.
- Call up function: (C) | Options | Mean value calculation | On
- The list for mean value calculation is opened.
- The start button changes to .
- Determine the measuring rate (1 sec 120 sec). The required value can be entered directly in the field on the first two lines of the display.
- 4 Confirm with
- Determine the measuring time (30 sec 90 min). The required value can be entered in the field.
- 6 Confirm with
- 7 Start mean value calculation with $^{ extstyle extstyle$

- Stabilization time begins. It can be terminated manually by selecting Next.
 - After a maximum of 3 minutes, the stabilization time ends and the measurement starts automatically.
 - The system records the readings in the set measuring cycle.
 - During the measurement, the readings and the calculated values are displayed.
 - End measurement early:

 .
 - · Readings are automatically saved.
 - The measurement result is displayed.
- Carry out another measurement: 🤒.

9.7 Overview of protocols ([)



Protocols	Feature
Print values	Print out measuring values via Bluetooth [®] .
Save	Save measuring values, including selected customers/measuring sites. Saved measuring values can be retrieved in the main menu.

Protocols	Feature
Finish protocol	Create, save and send measurement report, including - Own company data - Format and print - Customer data - Comments and pictures - Select measurements - Signature Saved reports can be retrieved in the main menu.
Share	Transfer to external software - via QR Code - share TJF file

9.7.1 Print data

The current readings are printed via a Bluetooth® printer (accessories: Testo printer 0554 0621).

Carry out print text settings

Print text settings can be carried out and the reading printout can be supplemented with individual creator information (header: company address; footer: name of technician), see Section 8.2.5.4 Own company address.

Print current readings

- The printer is switched on and within wireless range.
- 1 tap [1].
- Protocols menu is opened.
- 2 Tap Print values.
- The protocol is created and sent to the printer.
- The protocol is printed.



Bluetooth® is always activated on the Next-Gen testo 300.

9.7.2 Save

The measurement data from the last measurement carried out of each measurement type is saved on the measuring instrument.

Measurements that have been carried out can be saved to back up the measurement data and for the subsequent creation of a report:

- 1 tap [↑].
- Protocols menu is opened.
- 2 Tap Save.
- ▶ The measurement protocol is saved.



Only saved readings can be further processed at a later stage for a report.



The readings are automatically saved for the following measurement types:

- Tightness test 1
- · Tightness test 2
- Let by test
- 4 Pa measurement (DE country version)
- First German Federal Immission Control Ordinance (BImSchV) (DE country version)
- Averaging (IT country version)

9.7.3 Finish protocol

- 1 tap [↑].
- > Protocols menu is opened.
- 2 Tap Finish protocol.
- Doptions for Protocols are opened.
- 3 Enter/select log data:

Category	Description
Format and print	Select output format(s): - CSV (comma separated text file, e.g. for Microsoft® Excel), - PDF - QR (global interface for third party software) - QR_ZIV (interface complying with the regulations of the 'Federal Association of the Chimney Sweeps in Germany') - ZIV (XML file, complying with the regulations of the Federal Association of Chimney Sweeps in Germany).
Customer data	Enter contact details
Comments and pictures	Enter comments and add pictures.
Select measurements	All saved measurements are displayed in one of the following time categories, depending on the creation date: Today, Yesterday or Older. The measurements selected to create the report are identified with . Recently saved measurements for these customers are automatically identified. To display saved readings to check them: To delete individual measurement: To delete all measurements of a time category: tap mext to the time category name. To select/deselect a measurement for the report:
Signature	Tap Sign Report and sign. Options: Abort, Reset and Save

Print values: tap .

To save readings: tap .

Save and send report: tap .

Generate QR code: tap .

10 Maintenance

10.1 Service



Testo recommends an annual check of the Next-Gen testo 300; this can be carried out by a Testo-authorized service center. Please contact Testo at http://www.testo.com for more information.

10.2 Calibration



The measuring instrument is supplied with a calibration protocol as standard. To maintain the specified accuracy of measurement results, Testo recommends an annual check of the Next-Gen testo 300 by a Testo-authorized service center.

Please contact Testo at http://www.testo.com for more information.

10.3 Check instrument status

10.3.1 Sensor diagnosis

The status of the sensors can be displayed.

To replace expended sensors, see Section "Replace sensors".

Call up function: = | Sensor Diagnosis

▶ Sensor diagnosis is displayed.



A sensor is able to recover. It is therefore possible for the sensor status display to change from **not OK** to **OK**.

10.3.2 Error list

Instrument errors that have not yet been rectified can be displayed.

Call up function: = | Error list

▶ Error list is displayed if there are errors present.

10.4 Clean the measuring instrument

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



Use distilled water or a weak solvent to clean the flue gas analyzer.

IMPORTANT

Leaking solvents and degreasers! Damage to the instrument and sensors!

- Do not store solvents and degreasers, such as isopropanol, in the case.

IMPORTANT

Strong or harsh alcohol or brake cleaner! Damage to the instrument!

- Do not use any strong or harsh alcohol or brake cleaner.

10.5 Drain condensate container

The fill level of the condensate container can be read from the markings. Hold the instrument horizontally or vertically to check the fill level.



A CAUTION

Weak mix of acids in the condensate! Minor injuries!

- Avoid skin contact.
- Make sure that the condensate does not run over the housing.

A CAUTION

Condensate entering the gas path! Damage to sensors and flue gas pump!

 Do not empty condensate container while the flue gas pump is in operation. Open the condensate outlet on the condensate container.



Let the condensate run out into a sink



Wipe off any drops still on the condensate outlet with a cloth and close the condensate outlet.



The condensate outlet must be completely closed, otherwise incorrect measurements could occur due to infiltration of external air.

10.6 Open the measuring instrument

Only open the measuring instrument when this is required for maintenance purposes (replacing gas sensors).

The measuring instrument must not be connected to a mains socket via the mains unit. The measuring instrument must be switched off.



When opening/assembling the instrument, take care not to lose any screws that have been removed. It is advisable to place a cloth on the work surface

1 Place the instrument on its front so that the back is facing upwards.

2 Using a torx screwdriver (size T 10), remove both housing screws on the top of the instrument.



ATTENTION

The instrument may be damaged by incorrect removal of the housing screws!

- Only remove the two housing screws on the top of the instrument. The other four screws must be left as they are.
 - 3 Unlock the operating module in the direction of the arrow.



- 4 Remove the operating module.
- 5 Place the instrument on its front again.
- 6 Remove the remaining four screws on the back of the instrument.
- 7 Lift off the back of the instrument.



Assembly



Perform in reverse order to assemble. Please note:

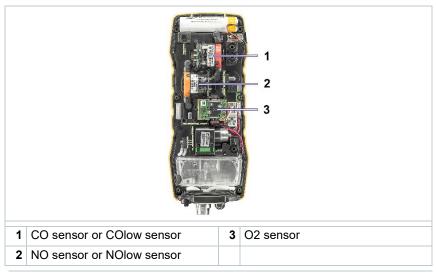
- Lay hoses and lines in the guides intended for this purpose.
- Make sure that hoses and lines do not get jammed.

10.7 Replace sensors



A slot bridge (0192 1552) must be inserted in slots which are not equipped with a sensor. Used sensors must be disposed of as hazardous waste!

Available slots:





When retrofitting a sensor, the associated measurement parameter/unit must be enabled in the reading display.

10.7.1 Replace O2 sensor

- Measuring instrument is open, see Section Open measuring instrument.
- 1 Unlock retaining bracket and open out.



- 2 Remove faulty sensor from the slot.
- Insert new sensor in the slot.
 - Make sure that the socket on the sensor circuit board is correctly connected to the contact plug.



- 4 Close the retaining bracket with an audible "click".
- 5 Close the measuring instrument.
- i

After replacing an O2 sensor, wait for an acclimatization time of 15 min to elapse before using the instrument.



When replacing an O2 sensor and when there is an interruption of the power supply for more than 10 hours, we recommend an acclimatization time of 1 hour for compliance with measuring accuracy.

10.7.2 Change CO, CO H2 and NO sensor

- Measuring instrument is open, see Section Open measuring instrument.
- 1 Remove faulty sensor and hose connections from the slot.



Remove hose connections from the faulty sensor/bridge.



- i
- For NO sensor: Remove auxiliary circuit board.

Do not remove the auxiliary circuit board of the NO sensor until immediately before installation. Do not leave the sensor without auxiliary circuit board for longer than 15 minutes.

- 3 Fit the hose connections onto the new sensor.
- Fit new sensor into the slot and at the same time fit the hose connections onto the gas path connections.
 - Make sure that the socket on the sensor circuit board is correctly connected to the contact plug.
- 5 Close the measuring instrument.

10.8 Clean modular flue gas probe

- ✓ Disconnect flue gas probe from the measuring instrument.
- 1 Release probe catch by pressing the key on the probe handle and remove probe module.

2 Blow compressed air through flue gas ducts of the probe module and probe handle (see illustration). Do not use a brush!



3 Fit probe module onto the probe handle and click into place.

10.9 Replace the probe module

- ✓ Disconnect the flue gas probe from the measuring instrument.
- 1 Press the key on the top of the probe handle and remove the probe module.



2 Fit new probe module and click into place.

10.10Check/replace particle filter

Check particle filter

- Particle filters of the modular flue gas probe must be checked regularly for contamination: check visually by looking through the window of the filter chamber.
- If there is visible contamination or inadequate pump flow, replace the filter.

Replace particle filter



The filter chamber may contain condensate. This is not a malfunction and will not cause incorrect readings.

1 Open filter chamber: turn slightly anti-clockwise.



2 Remove filter chamber.



Remove filter plate and replace it with a new one (0554 3385).



4 Attach the filter chamber and lock it: turn slightly clockwise.



10.11 Replace thermocouple

- 1 Release probe catch by pressing the key on the probe handle and remove probe module.
- Remove thermocouple plug-in head from the socket using a screwdriver and pull thermocouple out of the probe shaft.



- Insert new thermocouple into the probe shaft until the plug-in head clicks into place.
- 4 Fit probe module onto the probe handle and click into place.

11 Technical data

Technical data for testo 300 NEXT LEVEL

rediffical data for testo 500 NEXT EEVEE	
Feature	Value
Temperature measuring instrument	-40 to 2,192 °F (-40 to +1200 °C)
Draft measurement	- 4.01 to 16.06 inH20 (-9.99 to +40 h
Pressure measurement	-40 to 80 inH2O (-100 to +200 hPa)
O ₂ measurement	0 to 21 vol.%
CO measurement	0 to 4,000 ppm
Option: CO measurement	0 to 8,000 ppm
(H ₂ -compensated)	
Option: CO measurement	0 to 500 ppm
(H ₂ -compensated: COlow sensor)	
Option: CO measurement with activated	0 to 15,000 ppm
fresh air dilution/measuring range	
extension	
Option: CO measurement	0 to 30,000 ppm
(H ₂ -compensated) with activated fresh	
air dilution/measuring range extension	
Option: NO measurement	0 to 3,000 ppm
Option: NO measurement	о 10 0,000 ррні
Efficiency testing (Eta)	0 to 120%
Flue gas losses	0 to 99.9%
CO ₂ determination (calculation from O ₂)	Display range 0 to CO _{2 max.}
Ambient CO measurement (internal/flue	0 to 2,000 ppm
gas probe)	
Ambient CO measurement (external with	0 to 500 ppm
CO probe)	
Service life O ₂ sensor	Up to 72 months depending on load
Service life CO sensor	Up to 72 months depending on load
Service life NO sensor	Up to 72 months depending on load

General technical data

Feature	Value
Storage temperature	-23 to 113 °F (-5 to +45 °C)
Operating temperature	-23 to 113 °F (-5 to +45 °C)
Charging temperature	32 to 113 °F (0 to +45°C)

Feature	Value
Voltage	3.6 V/3.5 Ah
Power Supply	5 V / 1 A
Humidity application range	15 to 90% RH, non-condensing
Power supply type	Battery, USB power supply
Energy storage unit service life	10 hrs
Lifetime energy storage	> 1000 charging cycles / approx. 5 years
Protection class	IP 40
Memory	1 million measuring values
Display	5.0" touch display, HD 1280x720 pixels
Weight	Approx. 1.7 lbs (800 g)
Dimensions	L: 9.6 inch (244 mm) (incl. probe connection) H: 2.32 inch (59 mm) W: 3.86 inch (98 mm)
Certification	TÜV-tested according to 1st German Federal Immission Control Ordinance (BImSchV) EN 50379, Parts 1-3

Technical data for testo 915i

Feature	Value
Battery type	3 x micro batteries AAA
Battery life	150 h at 77 F and measurement cycle 1 s
Data transmission	Bluetooth®
Wireless range	Up to 328 ft (100 m) with no obstructions
Operating temperature	-4 to 122 °F (-20 to +50 °C)
Storage temperature	-4 to 140 °F (-20 to +60 °C)
Protection class	IP 40
Measuring range	-58 to 752 °F (-50 to +400 °C)
Accuracy	±1.8 °F (±1.0 °C)
Solution	0.1 °F / 0.1 °C
Dimensions	Handle: 5.0 x 1.2 x 1.2 in
	(129 x 31 x 31 mm)
Power indicator	3-color LED (orange/red/green)
Measurement/connection cycle	1 s
Auto Off	After 10 minutes without Bluetooth® connection

Technical data for testo 510i

Feature	Value
Battery type	3 x micro batteries AAA
Battery life	150 h at 77 °F and measurement cycle 2 s
Data transmission	Bluetooth [®]
Wireless range	Up to 100 m with no obstructions
Operating temperature	-4 to 122 °F (-20 to +50 °C)
Storage temperature	-4 to 140 °F (-20 to +60 °C)
Measuring range	-150 to +150 hPa
Accuracy	±0.02 InH ₂ O (0 to +0.4 InH ₂ O)
	±(0.1 lnH ₂ O + 1.5 % of mv) (+0 to +60 lnH ₂ O)
Solution	0.01 InH ₂ O
Dimensions	6 x 1 x 1 in. (148 x 36 x 23 mm)
Function indicator	3-color LED (orange/red/green)
Measurement/connection	2 s
cycle	
Auto Off	After 10 minutes without Bluetooth® connection

Technical data for testo 115i

Feature	Value
Battery type	3 x micro batteries AAA
Battery life	150 h at 77 °F and measurement cycle 1 s
Data transmission	Bluetooth®
Wireless range	Up to 100 m with no obstructions
Operating temperature	-4 to 122 °F (-20 to +50 °C)
Storage temperature	-4 to 140 °F (-20 to +60 °C)
Measuring range	-58 to 302 °F (-40 to +150 °C)
Accuracy	±2.3 °F (±1.3 °C)
Solution	0.1 °F (0.1 °C)
Dimensions	7.2 x 3.5 x 1.2 in (183 mm x 90 mm x 30 mm)
Power indicator	3-color LED (orange/red/green)
Measurement/connection cycle	1 s
Auto Off	After 10 minutes without Bluetooth® connection

Technical data for Bluetooth® Connector

Feature	Value
Storage temperature	-23 to 113 °F (-5 to +45 °C)
Operating temperature	-23 to 113 °F (-5 to +45 °C)
Humidity application range	15 to 90 %RH, non-condensing

Feature	Value
Operating altitude	<= 2,000 m
Level of contamination	PD 2
Mains unit	5 VDC/ 6 mA
Voltage tolerance	±10%
Protection class	IP 40
Weight	Approx. 0.2 oz. (6.5 g)
Dimensions	L: 0.9 in (23 mm)
	H: 1.06 in (27 mm)
	W: 0.7 in (18 mm)

12 Contact and support

If you have any questions or need further information, please contact your dealer or Testo Customer Service. For contact details, please visit www.testo.com/service-contact.



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