



testo · Smart Probes

Instruction manual



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2 Safety and the environment

2.1. About this document

Use

- > Please read this documentation through carefully and familiarize yourself with the product before putting it to use. Pay particular attention to the safety instructions and warning advice in order to prevent injuries and damage to the products.
- > Keep this document to hand so that you can refer to it when necessary.
- > Hand this documentation on to any subsequent users of the product.

Symbols and writing standards

Representation	Explanation
	Warning advice, risk level according to the signal word: Warning! Serious physical injury may occur. Caution! Slight physical injury or damage to the equipment may occur. > Implement the specified precautionary measures.
	Note: Basic or further information.
1. ...	Action: more steps, the sequence must be followed.
2. ...	
> ...	Action: a step or an optional step.
- ...	Result of an action.
Menu	Elements of the instrument, the instrument display or the program interface.
[OK]	Control keys of the instrument or buttons of the program interface.
... ...	Functions/paths within a menu.
"..."	Example entries

2.2. Ensure safety

- > Do not operate the instrument if there are signs of damage at the housing, mains unit or feed lines.
- > Do not perform contact measurements on non-insulated, live parts.
- > Do not store the product together with solvents. Do not use any desiccants.
- > Carry out only the maintenance and repair work on this instrument that is described in the documentation. Follow the prescribed steps exactly. Use only original spare parts from Testo.
- > Dangers may also arise from the systems being measured or the measuring environment: Note the safety regulations valid in your area when performing the measurements.

2.2.1. Safety and the testo 510i/605i

- Magnetic field
- May be harmful to those with pacemakers.
- > Keep a minimum distance of 10 cm between pacemaker and instrument.

2.2.2. Safety and the testo 605i

- Not for condensing atmospheres. For continuous application in high humidity (> 80 %RH at $\leq 30\text{ }^{\circ}\text{C}$ for > 12 h, > 60 %RH at > 30 $^{\circ}\text{C}$ for > 12 h), contact us via www.testo.com.
- The sensor must not be exposed to volatile chemicals such as solvents (e.g. ketene, ethanol, isopropyl alcohol, toluene) or organic compounds, especially in high concentrations and corresponding gases, over a prolonged period of time.

2.2.3. Safety and the testo 549i

- Risk of injury due to pressurized, hot, cold or toxic refrigerants/media!
- > Only to be used by qualified staff.
- > Wear protective goggles and safety gloves.
- > Before applying pressure to the measuring instrument: always fix the instrument tightly onto the pressure connection
- > Comply with the permissible measuring range (0 to 60 bar). Pay particular attention to this in systems with R744 refrigerant, since these are frequently operated at higher pressures!

2.2.4. Safety and the testo 805i

- Laser radiation! Class 2 laser
- > Do not look into the laser beam!

2.3. Protecting the environment

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

3 Specifications

Testo Smart Probes are different hand-held measuring instruments for various applications that communicate with your mobile terminal devices by means of an app. The respective Smart Probe performs the measurement and is operated by your mobile terminal device. The various Smart Probes allow you to measure the temperature, humidity, flow, and volume flow at the outlet, or perform pressure, differential pressure, and non-contact temperature measurements in the duct.

4 Product description

4.1. Overview of Smart Probes



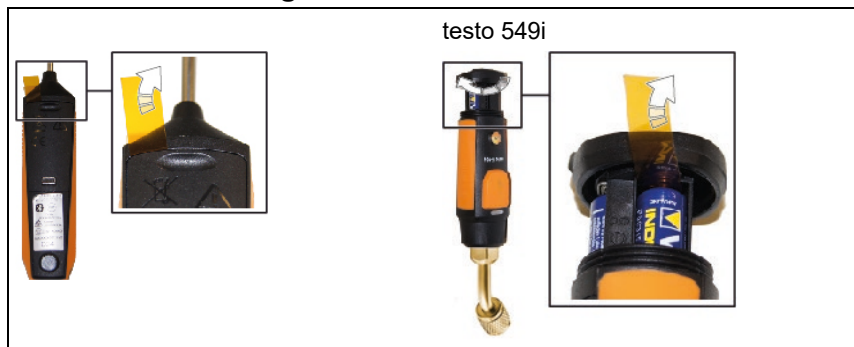
- 1 Measuring unit
- 2 LED
- 3 Key
- 4 Battery compartment (at the back)
- 5 Direction of flow testo 405i / testo 410i (not shown)
(An arrow on the top of the housing displays the direction of flow in which the measuring instrument has been calibrated and which achieves the best measurement results. Please note the direction of flow during usage.)

4.2. LED status

LED status	Meaning
Flashing red	Low battery status
Flashing yellow	- Smart Probe is switched on. - Smart Probe is searching for a BT connection, but is not connected.
Flashing green	- Smart Probe is switched on. - Bluetooth is connected.

5 First steps

5.1. Switching on/off



5.1.1. Switching on

1. Pull the film out of the battery compartment.
2. Press the button on your Smart Probe.
 - The Smart Probe switches on.

5.1.2. Switching off

1. Press and hold the button on your Smart Probe.
 - The Smart Probe switches off.

5.2. Establishing Bluetooth® connection



You need a tablet or smartphone with the testo Smart Probes App already installed on it to be able to establish a Bluetooth connection.

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

Compatibility:

- requires iOS 8.3 or later/Android 4.3 or later
- requires Bluetooth 4.0
- Tested with the following smartphones/tablets:
www.testo-international.com/de/smartprobesmanuals/

-
- ✓ The testo App Smart Probe is installed on your terminal device and ready for use.

1. Press the button on the Smart Probe.
 - The Smart Probe switches on.

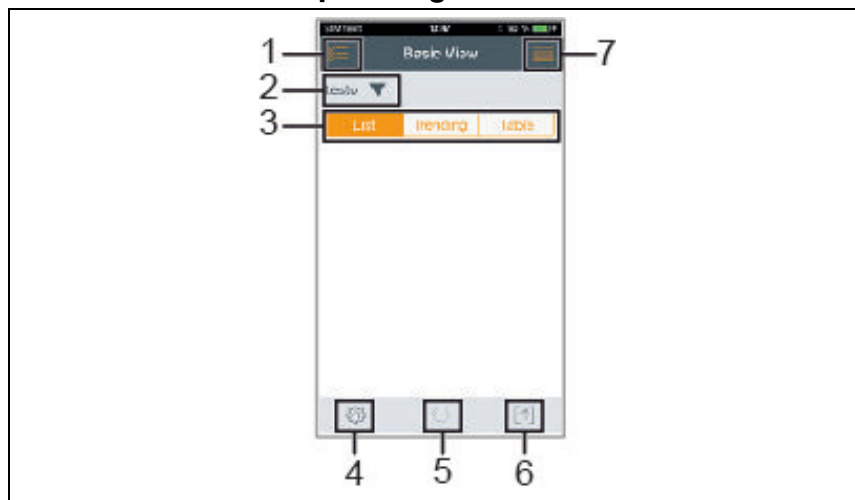
- The LED flashes yellow while connecting via Bluetooth and then flashes green once the connection is established.
- The connection between the Smart Probe and your mobile terminal device is established.

5.3. Transmitting readings

- ✓ The Smart Probe is switched on and connected to your mobile terminal device via Bluetooth.
- The current readings are automatically displayed in the App.

6 Using the App

6.1. Overview of operating controls



- 1  Choice of applications.
- 2  Display of connected Smart Probes.
- 3  Switch between the views (list, graphic diagram, table)
- 4  Measurement settings. (The menu changes depending on the Smart Probe connected and the application selected)
- 5  Restarts the measuring value recording in graph and table format.
- 6  Export the readings.
- 7  Options menu

6.2. App options

6.2.1. Set "Language"

1. Tap  -> **Settings** -> **Language**.
 - A selection list is displayed.
2. Tap the required language.
 - The selected language receives a green check mark.
3. Tap ◀ several times until the measurement view is displayed.
 - The language has been changed.

6.2.2. Display Tutorial



The **Tutorial** guides you through the first steps when operating the testo Smart Probes App.

1. Tap -> **Tutorial**
 - The **Tutorial** is displayed. In **Tutorial**, swipe to display the next page.
2. Tap X to close the **Tutorial**.

6.2.3. Show help



An internet connection is required to display the testo website.

1. Tap -> **Help**
 - The page **Fehler! Linkreferenz ungültig.** is displayed.

6.2.4. Display testo website



An internet connection is required to display the testo website.

1. Tap -> **About/Link** -> **Testo**
 - The page **Fehler! Linkreferenz ungültig.** is displayed.

6.2.5. Display App Info



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

1. Tap -> **About/Link** -> **Info**
 - The App's version number is displayed, as well as the ID.
2. Tap ◀ several times until the measurement view is displayed.

6.3. Application menus

6.3.1. Selecting the application menu

1. Press .
- A selection of menus for various applications is displayed.
2. Select the required application.
- The selection disappears and your selected application is displayed.

6.3.2. Setting favourites

1. Press .
 - A selection of applications is displayed.
2. Press  next to the application that you would like to designate as a favourite.
 - The asterisk is displayed in orange , and the selected application is listed under **Show Favorites**.

6.3.3. Displaying information about an application

1. Press .
 - A selection of applications is displayed.
2. Press .
 - The information about an application is displayed.

6.4. Displaying Smart Probe details

- ✓ One or more Smart Probes are connected to your mobile terminal device via Bluetooth.
1. Press .
 - All connected Smart Probes are displayed in this list.
 2. Select the Smart Probe to display the details you would like to see.
 - A list appears with the details for the Smart Probe.
 3. Press **Close** to exit the detailed view.

6.5. List, graphic diagram and table view

The available readings can be displayed in different ways in the various views.

- List view
Displays the readings transmitted by the Smart Probe in the form of a list. Readings from all connected Smart Probes are displayed here.
- Graphic diagram view
The graphical progression of up to four different readings can be displayed. Tap on a reading above the diagram to select the readings to be displayed.
- Table view
In the Table view, all readings are displayed in sequence according to date and time. The different readings from the individual Smart Probes can be selected by pressing  .

6.6. Settings view

1. Press  and select **Edit View**.
 - An overview of all Smart Probes and their measurement parameters is displayed.
2. Move the required reading up or down to the position it should be.
3. Press  to hide a Smart Probe reading.
4. Press  to select the unit for a reading.
5. Press **OK** to confirm your settings

6.7. Retaining readings

Readings are retained in the “**List**” view; in the “**Trend**” and “**Table**” view, the current readings are still displayed.

- ✓ The Smart Probe is switched on, connected to your mobile terminal device via Bluetooth, and readings are transmitted.
1. Press the button on your Smart Probe.
 - The current reading is retained.
 2. Press the key again.
 - The instrument again displays the current readings.

6.8. Exporting readings

6.8.1. Excel (CSV) Export

1. Press .
 - A selection of export options appears.
2. Press **Export Excel (CSV)**.
 - A list of readings is displayed.
3. Press .
 - A selection of sending/export options appears.
4. Select your required sending/export options.

6.8.2. PDF Export

1. Press .
 - A selection of export options appears.
2. Press **Export PDF**.
 - A PDF is created and saved on your mobile terminal device (Android only) or sent via e-mail (iOS and Android).
3. Press **Done** to exit the detailed view.

6.8.3. Exporting a graph

1. Press .
 - A selection of export options appears.
2. Press **Export Graph**.
 - An image file of the trend display is created.
3. Press .
 - A selection of sending/export options is displayed.
4. Tap on the sending/export option you need.

7 Maintaining the product

7.1. Maintaining Smart Probes

Cleaning the instrument

- > Do not use any aggressive cleaning agents or solvents!
- > Mild household cleaning agents or soap suds may be used.
- > If the housing of the instrument is dirty, clean it with a damp cloth.

Keeping connections clean

- > Keep connections clean and free of grease and other deposits, clean with a damp cloth as required.

Ensuring measuring accuracy

- > Testo Customer Service would be glad to further assist you if you so wish.
- > Keep within the permissible measuring range!
- > Calibrate instrument regularly (recommendation: once a year).

7.2. Smart Probes App

The testo Smart Probes App is kept updated via the Play Store for Android devices and the App Store for iOS devices. Please update the App as soon as a new update is available. We therefore recommend that you do not disable automatic notifications when new updates are available.

8 Tips and assistance

8.1. Questions and answers

Question	Answer
LED flashes red	• Batteries are almost spent. • Change batteries.
The instrument switches itself off	Remaining battery capacity insufficient > Change the batteries.
--- lights up instead of the measurement parameter display	• Outside the permissible measuring range. > Keep within the permissible measuring range. or • Sensor is defective > Contact your testo Service department.
The App cannot be found in the store	• No correct search terms were entered. > Enter an unambiguous search term, e.g.: "testo Smart Probes" or use the link on the testo website. or • Your mobile terminal device does not meet the technical requirements (iOS 8.3 or later, Android 4.3 or later / Bluetooth 4.0 (Low Energy)) > Please check the technical data for your mobile terminal device

8.2. Accessories and spare parts

Designation	Item number
testo Smart Case (Refrigeration) for storing and transporting 2 × testo 115i and 2 × testo 549i, dimensions 250 × 180 × 70 mm	0516 0240
testo Smart Case (Heating) for storing and transporting testo 115i, testo 410i, testo 510i, testo 549i and testo 805i, dimensions 250 × 180 × 70 mm	0516 0270
testo Smart Case (VAC) for storing and transporting testo 405i, testo 410i, testo 510i, testo 605i, testo 805i and testo 905i, dimensions 270 × 190 × 60 mm	0516 0250

9 Technical data

9.1. Bluetooth module

i The use of the wireless module is subject to the regulations and stipulations of the respective country of use, and the module may only be used in each case in countries for which a country certification has been granted.

The user and every owner undertake to adhere to these regulations and prerequisites for use, and acknowledge that the re-sale, export, import, etc. in particular in, to or from countries without wireless permits, is their responsibility.

9.2. General technical data

i All accuracy specifications apply at a nominal temperature of 22 °C.

9.2.1. testo 905i

Feature	Values
Measuring range	-50 to 150 °C / -58 to 302 °F
Accuracy ± 1 digit	± 1 °C / ± 1.8 °F
Resolution	0.1 °C / 0.1 °F
Measurement rate	1/sec
Available units of measurement	°C, °F
Storage temperature	-20 °C to 60 °C / -4 to 140 °F
Operating temperature	-20 °C to +50 °C / -4 to 122 °F
Battery type	3 micro batteries AAA
Battery life	150 h
Dimensions	222 mm $\times$ 30 mm $\times$ 24 mm Probe shaft length 100 mm Probe shaft diameter 4 mm
Directives, standards and tests	EU guideline: 2014/30/EU

9.2.2. testo 410i

Feature	Values
Measuring range	0.4 to 30 m/s / 80 to 5,900 fpm -20 to 60 °C / -4 to 140 °F
Accuracy ± 1 digit	± (0.2 m/s + 2% of m.v.) (0.4 to 20 m/s) ± (40 fpm + 2% of m.v.) (80 to 4,000 fpm) ± 0.5 °C / ±0.9 °F
Resolution	0.1 °C / 0.1 °F 0.1 m/s / 1 fpm
Measurement rate	1/sec
Available units of measurement	°C, °F, m/s, fpm, m³/h, cfm, l/s
Storage temperature	-20 °C to 60 °C / -4 to 140 °F
Operating temperature	-20 °C to +50 °C / -4 to 122 °F
Battery type	3 micro batteries AAA
Battery life	130 h
Dimensions	154 mm × 43 mm × 21 mm 30 mm vane diameter
Directives, standards and tests	EU guideline: 2014/30/EU

9.2.3. testo 405i

Feature	Values
Measuring range ¹	0 to 30 m/s / 0 to 5,900 fpm -20 to 60 °C / -4 to 140 °F
Accuracy ± 1 digit	± (0.1 m/s + 5% of m.v.) (0 to +2 m/s) ± (0.3 m/s + 5% of m.v.) (2 to +15 m/s) ± (20 fpm + 5% of m.v.) (0 to +394 fpm) ± (59 fpm + 5% of m.v.) (394 to +3,000 fpm) ± 0.5 °C / ±0.9 °F

¹ Please switch on the Smart Probe in the following ambient conditions:
> 10 °C, air velocity 0 m/s = protective cap closed to enable the sensor to heat up.

Feature	Values
Resolution	0.01 m/s / 1 fpm 0.1 °C / 0.1 °F
Measurement rate	1/sec
Available units of measurement	°C, °F, m/s, fpm, m³/h, cfm, l/s
Storage temperature	-20 °C to 60 °C / -4 to 140 °F
Operating temperature	-20 °C to +50 °C / -4 to 122 °F
Battery type	3 micro batteries AAA
Battery life	15 hrs
Dimensions	200 mm × 30 mm × 41 mm Extendible telescope 400 mm Probe shaft diameter 12 mm Probe tip diameter 9 mm
Directives, standards and tests	EU guideline: 2014/30/EU

9.2.4. testo 549i

Feature	Values
Measuring range	0 to 60 bar (rel) / 0 to 870 psi (rel)
Overpressure	65 bar
Accuracy ± 1 digit	0.5% of full scale value
Resolution	0.01 bar / 0.1 psi
Measurement rate	2/sec
Available units of measurement	bar, psi, MPa, kPa
Connection	1× 7/16" UNF / 1/4" SAE connection
Overload rel.	65 bar
Storage temperature	-20 °C to 60 °C / -4 to 140 °F
Operating temperature	-20 °C to +50 °C / -4 to 122 °F
Battery type	3 micro batteries AAA
Battery life	130 hrs
Measurable media	CFC, HFC, HCFC, N, H2O, CO2
Dimensions	152 mm x 35 mm x 35 mm

Feature	Values
Directives, standards and tests	EU guideline: 2014/30/EU

9.2.5. testo 805i

Feature	Values
Measuring range	-30 °C to 250 °C / -22 to 482 °F
Accuracy ± 1 digit	± 1.5 °C or ± 1.5% of m.v. (0 to 250 °C) ± 2.0 °C (-20.0 to -0.1 °C) ± 2.5 °C (-30.0 to -20.1 °C) ± 2.7 °F or ± 1.5% of m.v. (32 to 482 °F) ± 3.6 °F (-4 to 32 °F) ± 4.5 °F (-22 to -4 °F)
Resolution	0.1 °C / 0.1 °F
Measurement rate	2/sec
Available units of measurement	°C, °F
Connection	7/16" – UNF
Storage temperature	-20 °C to 60 °C / -4 to 140 °F
Operating temperature	-10 °C to +50 °C / 14 to 122 °F
Battery type	3 micro batteries AAA
Battery life	30 hrs
Optics	10:1
Laser marking	Diffraction lens as laser marking (laser circle)
Dimensions	140 mm × 36 mm × 25 mm
Emission level	Adjustable from 0.1 to 1.0
Directives, standards and tests	EU guideline: 2014/30/EU

9.2.6. testo 605i

Feature	Values
Measuring range	-20 to 60 °C, -4 to 140 °F, 0 to 100% RH

Feature	Values
Accuracy ± 1 digit	$\pm 0.8^{\circ}\text{C}$ ($-20 \dots 0^{\circ}\text{C}$) / $\pm 1.44^{\circ}\text{F}$ ($-4 \dots 32^{\circ}\text{F}$) $\pm 0.5^{\circ}\text{C}$ ($0 \dots +60^{\circ}\text{C}$) / $\pm 0.9^{\circ}\text{F}$ ($32 \dots 140^{\circ}\text{F}$) $\pm 3.0\% \text{RH}$ ($10\% \text{RH} \dots 35\% \text{RH}$) $\pm 2.0\% \text{RH}$ ($35\% \text{RH} \dots 65\% \text{RH}$) $\pm 3.0\% \text{RH}$ ($65\% \text{RH} \dots 90\% \text{RH}$) $\pm 5.0\% \text{RH}$ ($<10\% \text{RH}$ or $>90\% \text{RH}$) @ $25^{\circ}\text{C} \pm 1^{\circ}\text{C}$ Hysteresis: $\pm 1.0\% \text{RH}$ Long term stability/year : $\pm 1.0\% \text{RH}/\text{year}$
Resolution	0.1°F / 0.1°C $0.1\% \text{RH}$
Measurement rate	1/sec
Available units of measurement	$^{\circ}\text{C}$, $^{\circ}\text{F}$, $\% \text{RH}$, $^{\circ}\text{Ctd}$, $^{\circ}\text{Ftd}$, wetbulb $^{\circ}\text{C}$, wetbulb $^{\circ}\text{F}$
Storage temperature	-20°C to 60°C / -4 to 140°F
Operating temperature	-20°C to $+50^{\circ}\text{C}$ / -4 to 122°F
Battery type	3 micro batteries AAA
Battery life	150 h
Dimensions	$218 \text{ mm} \times 30 \text{ mm} \times 27 \text{ mm}$ Probe shaft length 90 mm
Directives, standards and tests	EU guideline: 2014/30/EU

9.2.7. testo 510i

Feature	Values
Measuring range	$-150 \dots 150 \text{ hPa}$ / 60 in wc
Accuracy ± 1 digit	$\pm 0.05 \text{ hPa}$ (0 to 1.00 hPa) / ± 0.02 in wc (0 to 0.4 in wc) $\pm 0.2 \text{ hPa} + 1.5\%$ of m.v. (1.01 to 150 hPa) ± 0.08 in wc + 1.5% of m.v. (0.41 to 60 in wc)

Feature	Values
Overpressure	500 mbar
Resolution	0.01 hPa / 0.01 inch wc
Measurement rate	2/sec
Available units of measurement	mbar, hPa, Pa, mmHg, inHg, in WC, psi, mmWC In conjunction with Pitot tube (optional): m/s, fpm, m ³ /h, cfm, l/s
Storage temperature	-20 °C to 60 °C / -4 to 140 °F
Operating temperature	-20 °C to +50 °C / -4 to 122 °F
Battery type	3 micro batteries AAA
Battery life	150 hrs
Dimensions	148 × 36 × 23 mm
Directives, standards and tests	EU guideline: 2014/30/EU

9.2.8. testo 115i

Feature	Values
Measuring range	-40 to 150 °C / -58 to 302 °F
Accuracy ± 1 digit	± 1.3 °C (-20 to 85 °C) ± 2.34 °F (-4 to 185 °F)
Resolution	0.1 °C / 0.1 °F
Measurement rate	1/sec
Available units of measurement	°C, °F
Storage temperature	-20 °C to 60 °C / -4 to 140 °F
Operating temperature	-20 °C to +50 °C / -4 to 122 °F
Battery type	3 micro batteries AAA
Battery life	150 h
Dimensions	183 mm × 90 mm × 30 mm max. 35 mm pipe diameter
Directives, standards and tests	EU guideline: 2014/30/EU

10 Certifications

Module Lierda L Series BLE Module

Product	testo 115i, testo 405i, testo 410i, testo 510i, testo 549i, testo 605i, testo 805i, testo 905i	
Mat.-No.	0560 1115, 0560 1405, 0560 1410, 0560 1510, 0560 1549, 0560 1605, 0560 1805, 0560 1905	
Country	Comments	
Australia		E 1561
Brazil	         "Este equipamento opera em caráter secundário, isto é, não tem direito a proteção contra interferência prejudicial, mesmo de estações do mesmo tipo, e não pode causar interferência a sistemas operando em caráter primário. "	
Canada	Product IC ID: testo 115i IC ID: 12231A-1115 testo 405i IC ID: 12231A-1405 testo 410i IC ID: 12231A-1410 testo 510i IC ID: 12231A-1510 testo 549i IC ID: 12231A-1549 testo 605i IC ID: 12231A-1605 testo 805i IC ID: 12231A-1805 testo 905i IC ID: 12231A-1905 see IC Warnings	
China	CMIID ID: testo 115i CMIIT ID: 2015DP6557 testo 405i CMIIT ID: 2015DP6558 testo 410i CMIIT ID: 2015DP6612 testo 510i CMIIT ID: 2015DP6559	

10 Certifications

	testo 549i CMIIT ID: 2015DP6560 testo 605i CMIIT ID: 2015DP6561 testo 805i CMIIT ID: 2015DP6562 testo 905i CMIIT ID: 2015DP6563
Europa + EFTA	  The EU Declaration of Conformity can be found on the testo homepage www.testo.com under the product specific downloads. EU countries: Belgium (BE), Bulgaria (BG), Denmark (DK), Germany (DE), Estonia (EE), Finland (FI), France (FR), Greece (GR), Ireland (IE), Italy (IT), Latvia (LV), Lithuania (LT), Luxembourg (LU), Malta (MT), Netherlands (NL), Austria (AT), Poland (PL), Portugal (PT), Romania (RO), Sweden (SE), Slovakia (SK), Slovenia (SI), Spain (ES), Czech Republic (CZ), Hungary (HU), United Kingdom (GB), Republic of Cyprus (CY). EFTA countries: Iceland, Liechtenstein, Norway, Switzerland
Hongkong	Authorized

Japan	testo 115i  R 204-540016
	testo 405i  R 204-540017
	testo 410i  R 204-540018
	testo 510i  R 204-540019
	testo 549i  R 204-540020
	testo 605i  R 204-540021
	testo 905i  R 204-540023
	see Japan Information
Korea	 testo 115i Certification No. MSIP-CRM-Toi-115i testo 405i Certification No. MSIP-CRM-Toi-405i testo 410i Certification No. MSIP-CRM-Toi-410i testo 510i Certification No. MSIP-CRM-Toi-510i testo 549i Certification No. MSIP-CRM-Toi-549i testo 605i Certification No. MSIP-CRM-Toi-605i testo 805i Certification No. MSIP-CRM-Toi-805i testo 905i Certification No. MSIP-CRM-Toi-905i see KCC Warning
Taiwan	testo 115i NCC: CCAB16LP177FT0 testo 405i NCC: CCAB16LP177AT3 testo 410i NCC: CCAB16LP1770T1 testo 510i NCC: CCAB16LP177DT9 testo 549i NCC: CCAB16LP177ET1 testo 605i NCC: CCAB16LP177BT5 testo 805i NCC: CCAB16LP177CT7 testo 905i NCC: CCAB16LP177GT2

10 Certifications

Turkey	Authorized	
USA	Product FCC ID: testo 115i FCC ID: 2ACVD-1115 testo 405i FCC ID: 2ACVD-1405 testo 410i FCC ID: 2ACVD-1410 testo 510i FCC ID: 2ACVD-1510 testo 549i FCC ID: 2ACVD-1549 testo 605i FCC ID: 2ACVD-1605 testo 805i FCC ID: 2ACVD-1805 testo 905i FCC ID: 2ACVD-1905 see FCC Warnings	
Russia	Authorized	
Philippines	Authorized	
South Africa	testo 115i TA-2016/1207 testo 405i TA-2016/1201 testo 410i TA-2016/1200 testo 510i TA-2016/1199 testo 549i TA-2016/1198 testo 605i TA-2016/1204 testo 805i TA-2016/1206 testo 905i TA-2016/1205	
Bluetooth SIG List	Bluetooth®	Range 15 m (free field) (varies with the used mobile device)
	Bluetooth® type	LSD Science & Technology Co., Ltd L Series BLE Module (08 Mai 2013) based on TI CC254X chip
	Qualified Design ID	B016552
	Bluetooth® radio class	Class 3
	Bluetooth® company ID	10274

IC Warnings

This instrument complies with Part 15C of the FCC Rules and Industry Canada RSS-210 (revision 8). Commissioning is subject to the following two conditions:

- (1) This instrument must not cause any harmful interference and
- (2) this instrument must be able to cope with interference, even if this has undesirable effects on operation.

Cet appareil satisfait à la partie 15C des directives FCC et au standard Industrie Canada RSS-210 (révision 8). Sa mise en service est soumise aux deux conditions suivantes :

- (1) cet appareil ne doit causer aucune interférence dangereuse et
- (2) cet appareil doit supporter toute interférence, y compris des interférences qui provoquerait des opérations indésirables.

FCC Warnings

Information from the FCC (Federal Communications Commission)

For your own safety

Shielded cables should be used for a composite interface. This is to ensure continued protection against radio frequency interference.

FCC warning statement

This equipment has been tested and found to comply with the limits for a Class C digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Caution

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment. Shielded interface cable must be used in order to comply with the emission limits.

Warning

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

- (1) this device may not cause harmful interference, and
- (2) this device must accept any interference received, including interference that may cause undesired operation.

KCC Warning

해당 무선 설비는 운용 중 전파혼신 가능성이 있음

Japan Information

当該機器には電波法に基づく、技術基準適合証明等を受けた特定無線設備を装着している。

Module Lierda LSD4BT-S37

Product	testo 115i, testo 549i, testo 605i	
Mat.-No.	0560 2115, 0560 2549, 0560 2605	
Date	01.07.2019	
Country	Comments	
Australia		E 1561
Brazil	testo 605i:  04851-19-04701 testo 549i:  04852-19-04701 testo 115i  04853-19-04701 Este equipamento não tem direito à proteção contra interferência prejudicial e não pode causar interferência em sistemas devidamente autorizados	
Canada	Product IC ID: testo 115i: IC: 6127B-05602115 testo 549i: IC: 6127B-05602549 testo 605i: IC: 6127B-05602605 see IC Warnings	

Europa + EFTA	CE  The EU Declaration of Conformity can be found on the testo homepage www.testo.com under the product specific downloads. EU countries: Belgium (BE), Bulgaria (BG), Denmark (DK), Germany (DE), Estonia (EE), Finland (FI), France (FR), Greece (GR), Ireland (IE), Italy (IT), Latvia (LV), Lithuania (LT), Luxembourg (LU), Malta (MT), Netherlands (NL), Austria (AT), Poland (PL), Portugal (PT), Romania (RO), Sweden (SE), Slovakia (SK), Slovenia (SI), Spain (ES), Czech Republic (CZ), Hungary (HU), United Kingdom (GB), Republic of Cyprus (CY). EFTA countries: Iceland, Liechtenstein, Norway, Switzerland														
South Africa	testo 115i: TA-2019/546 testo 549i: TA-2019/548 testo 605i: TA-2019/547														
Turkey	Authorized														
USA	testo 115i: WAF-05602115 testo 549i: WAF-05602549 testo 605i: WAF-05602605 see FCC Warnings														
Bluetooth® Information	<table> <thead> <tr> <th>Feature</th><th>Values</th></tr> </thead> <tbody> <tr> <td>Bluetooth® range</td><td>Open air: typical 100 m</td></tr> <tr> <td>radio type</td><td>Bluetooth® Low Energy (BLE) 4.2</td></tr> <tr> <td>Bluetooth® radio class</td><td>1</td></tr> <tr> <td>Bluetooth® company</td><td>LSD Science & Technology Co., Ltd</td></tr> <tr> <td>RF Band</td><td>BT LE: 2402 – 2480MHz</td></tr> <tr> <td>power output [E.I.R.P]</td><td>BT LE: 16.94dBm</td></tr> </tbody> </table>	Feature	Values	Bluetooth® range	Open air: typical 100 m	radio type	Bluetooth® Low Energy (BLE) 4.2	Bluetooth® radio class	1	Bluetooth® company	LSD Science & Technology Co., Ltd	RF Band	BT LE: 2402 – 2480MHz	power output [E.I.R.P]	BT LE: 16.94dBm
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Feature	Values														
Declaration ID	D043363														
member company	Testo SE & Co. KGaA														

IC Warnings

10 Certifications

RSS-Gen & RSS-247 statement:

This device complies with Industry Canada licence-exempt RSS standard(s). Operation is subject to the following two conditions:

- (1) this device may not cause interference, and
- (2) this device must accept any interference, including interference that may cause undesired operation of the device.

Le présent appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes :

- (1) l'appareil ne doit pas produire de brouillage, et
- (2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

Caution: Radio Frequency Radiation Exposure

This equipment complies with IC radiation exposure limits set forth for an uncontrolled environment and meets the IC radio frequency (RF) Exposure Guidelines. This equipment should be installed and operated keeping the radiator at least 20 cm or more away from person's body in normal use position to ensure compliance with RF exposure requirement.

Co-Location:

This transmitter must not be co-located or operated in conjunction with any other antenna or transmitter.

Attention : exposition au rayonnement de radiofréquences

Cet équipement est conforme aux limites d'exposition aux radiofréquences IC fixées pour un environnement non contrôlé et aux Lignes directrices relatives à l'exposition aux radiofréquences (RF). Cet équipement doit être installé et utilisé en gardant le radiateur à une distance d'au moins 20 cm du corps humain en position normale d'utilisation pour garantir la conformité à d'exposition aux RF.

Co-location

Ce transmetteur ne peut pas être installé en colocation ou être utilisé avec une autre antenne ou transmetteur, quel qu'en soit le type.

FCC Warnings

Information from the FCC (Federal Communications Commission)

For your own safety

Shielded cables should be used for a composite interface. This is to ensure continued protection against radio frequency interference.

FCC warning statement

This equipment has been tested and found to comply with the limits for a Class C digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

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- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Caution

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment. Shielded interface cable must be used in order to comply with the emission limits.

Warning

This device complies with Part 15 of the FCC Rules.

Operation is subject to the following two conditions:

- (1) this device may not cause harmful interference, and
- (2) this device must accept any interference received, including interference that may cause undesired operation.

Caution: Radio Frequency Radiation Exposure

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment and meets the FCC radio frequency (RF) Exposure Guidelines. Exposure Guidelines. This equipment should be installed and operated keeping the radiator at least 20 cm or more away from person's body in normal use position to ensure compliance with RF exposure requirement.

Co-Location:

This transmitter must not be co-located or operated in conjunction with any other antenna or transmitter.



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