

Digital manifold

testo 557s – the manifold with Bluetooth and 4-way valve block for commissioning, servicing and maintenance of refrigeration systems and heat pumps

All results at a glance thanks to the large graphic display

Exceptionally compact and reliable thanks to the easy-to-handle, robust housing with IP 54 protection class

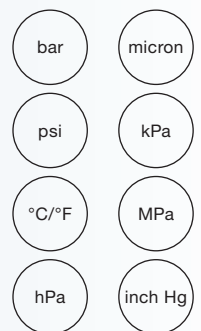
Simple, wireless measurement of vacuum and temperature via automatic Bluetooth connection

Even greater flexibility for your measurements and documentation with the testo Smart App

Even easier to get results, thanks to guided measurement menus for target superheat, vacuum and pressure loss

Convenient refrigerant management in the App with favourites and automatic updates

Can be used for applications with A2L refrigerant, taking into account the relevant legislation, norms and guidelines for refrigeration systems



 **Bluetooth 5.0**
+ App

testo Smart App
for free download



The testo 557s digital manifold with 4-way valve block enables you to carry out your measurements on refrigeration and air conditioning systems and heat pumps particularly fast. The large display also helps you to evaluate the results in graphic form. Stored programs guide you through the measurement and enable the automatic determination of numerous important system parameters such as superheat, pressure drop test or evacuation.

Thanks to the testo 552i Bluetooth vacuum probe included in the kit, the testo 557, as the first manifold ever, makes wireless vacuum measurement possible.

Bluetooth probes for temperature, pressure and humidity can be easily connected directly to the instrument and offer maximum flexibility in their application. In conjunction with the testo Smart App, you can take care of digital documentation directly on site. In addition to this, you always have the current refrigerants available to you, and can set your favourites and transfer them to the instrument. Its proven quality and great durability guarantee the continuously high performance of your manifold in all conditions.

Technical data/accessories/kits

Sensor types

	Pressure	Temperature
Measuring range	-1 to 60 bar	-50 to +150 °C
Accuracy (at 22 °C)	±0.5% fs	±0.5 °C
Resolution	0.01 bar	0.1 °C
Probe connections	3 x 7/16" – UNF + 1 x 5/8" – UNF	2 x plug-in (NTC)
Overload	65 bar	–

General technical data

Operating temperature	-20 to +50 °C
Storage temperature	-20 to +60 °C
Battery type	4 AA microcells
Battery life	250 h with no illumination, no Bluetooth® 100 h with illumination and Bluetooth®
Auto power off	After 10 minutes when not connected via Bluetooth
Dimensions	229 x 112.5 x 71 mm
Weight	1243 g
Protection class	IP54
Bluetooth technology/range	Bluetooth® 5.0/150 m
Compatibility	requires iOS 11.0 or newer/Android 6.0 or newer requires mobile terminal device with Bluetooth® 4.0



The testo Smart App

- For all applications of the testo 557s – from measurement to documentation
- Compatible with all Bluetooth-enabled Testo measuring instruments for air conditioning/refrigeration systems and heat pumps
- Measurement errors are easily prevented thanks to menus that offer optimum support, e.g. for superheating and subcooling
- Quick analysis thanks to clear presentation of the values, e.g. in a table
- Create digital measurement reports including photos as PDF/CSV files on site and email them straight away

Measuring instrument accessories	Order no.
Magnetic belt for digital manifolds for flexible use of the magnet or hook thanks to a simple exchange system, compatible with all digital manifolds from Testo	0564 1001
Valve spare parts kit; exchange of 2 valve positioners with 4 valve positioner covers (red, blue and 2 x black), compatible with all digital manifolds from Testo.	0554 5570

testo 557s kits

testo 557s Smart Vacuum Kit
Smart digital manifold with wireless vacuum and temperature probes



testo 557s Smart Vacuum Kit with filling hoses
Smart digital manifold with wireless vacuum and temperature probes and hose filling set (4 pcs.)



Order no.	0564 5571	0564 5572
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Kit components

testo 557s Smart digital manifold	✓	✓
Calibration protocol	✓	✓
testo 552i Vacuum probe (Smart Probe)	✓	✓
testo 115i Wireless clamp temperature probe (Smart Probe)	✓ 2 x	✓ 2 x
Hose filling set (4 hoses)		✓
Instrument case	✓	✓

Testo Smart Probes

testo 115i

testo 115i, clamp thermometer operated with smartphone, for measurement on pipelines with diameters of 6 to max. 35 mm, including batteries and calibration protocol



Order no. 0560 2115 02

Sensor type	NTC
Measuring range	-40 to +150 °C
Accuracy ±1 digit	±1.3 °C (-20 to +85 °C)
Resolution	0.1 °C
General technical data	
Compatibility	requires iOS 11.0 or newer/Android 6.0 or newer requires mobile terminal device with Bluetooth® 4.0
Storage temperature	-20 to +60 °C
Operating temperature	-20 to +50 °C
Battery type	3 AAA microcells
Battery life	150 h
Dimensions	183 x 90 x 30 mm
Bluetooth® range	up to 100 m

testo 605i

testo 605i, thermohygrometer operated with smartphone, including batteries and calibration protocol



Order no. 0560 2605 02

Sensor type	Humidity – capacitive
Measuring range	0 to 100 %RH
Accuracy (at +25 °C) ±1 digit	±3.0 %RH (10 to 35 %RH) ±2.0 %RH (35 to 65 %RH) ±3.0 %RH (65 to 90 %RH) ±5 %RH (< 10 %RH or > 90 %RH)
Resolution	0.1 %RH
Sensor type	NTC
Measuring range	-20 to +60 °C
Accuracy ±1 digit	±0.8 °C (-20 to 0 °C) ±0.5 °C (0 to +60 °C)
Resolution	0.1 °C
General technical data	
Compatibility	requires iOS 11.0 or newer/Android 6.0 or newer requires mobile terminal device with Bluetooth® 4.0
Storage temperature	-20 to +60 °C
Operating temperature	-20 to +50 °C
Battery type	3 AAA microcells
Battery life	150 h
Dimensions	218 x 30 x 25 mm 73 mm probe shaft
Bluetooth® range	up to 100 m

testo 552i

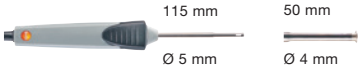




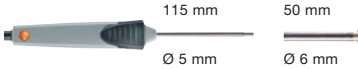
testo 552i, app-controlled wireless vacuum probe, including batteries and calibration protocol



Order no. 0564 2552

Sensor type	Pressure
Measuring range	0 to 26.66 mbar/0 to 20000 microns
Accuracy ±1 digit	±10 microns + 10% of m.v. (100 to 1000 microns)
Resolution	1 micron (0 to 1000 microns) 10 microns (1000 to 2000 microns) 100 microns (2000 to 5000 microns)
Connection	7/16" – UNF
Overload	6.0 bar/87 psi (relative: 5.0 bar/72 psi)
General technical data	
Connection	Bluetooth 4.2
Bluetooth® range	150 m
Storage temperature	-20 °C to +50 °C
Operating temperature	-10 °C to +50 °C
Battery type	3 AAA microcells
Battery life	39 h
Auto power off	After 10 minutes when not connected via Bluetooth
Protection class	IP54
Dimensions	150 x 32 x 31 mm
Weight	142 g

Probes

Probe type	Dimensions Probe shaft/probe shaft tip	Measuring range	Accuracy	Order no.
Air probe				
Precise, robust NTC air probe		-50 to +125 °C	±0.2 °C (-25 to +80 °C) ±0.4 °C (remaining meas. range)	0613 1712
Surface probe				
Clamp probe for temperature in kit for measurements on pipes from 6 to 35 mm diameter, NTC, fixed cable 1.5 m		-40 to +125 °C	±1 °C (-20 to +85 °C)	0613 5507
Clamp probe for temperature measurements on pipes from 6 to 35 mm diameter, NTC, fixed cable 5.0 m		-40 to +125 °C	±1 °C (-20 to +85 °C)	0613 5506
Pipe wrap probe with Velcro tape for pipe diameters of up to max. 75 mm, Tmax +75 °C, NTC, fixed cable 1.5 m		-50 to +70 °C	±0.2 °C (-25 to +70 °C) ±0.4 °C (-50 to -25.1 °C)	0613 4611
Pipe wrap probe (NTC) for pipe diameters of 5 to 65 mm, fixed cable 2.8 m		-50 to +120 °C	±0.2 °C (-25 to +80 °C)	0613 5605
Watertight NTC surface probe for flat surfaces, fixed cable 1.2 m		-50 to +150 °C Long-term measuring range +125°C, briefly +150 °C (2 minutes)	±0.5% of measured value (+100 to +150 °C) ±0.2 °C (-25 to +74.9 °C) ±0.4 °C (remaining meas. range)	0613 1912

App-controlled wireless vacuum probe

testo 552i

Identify vacuum quickly and easily by means of the graphical display in the App or on the digital manifold screen

Connects automatically via Bluetooth to the testo Smart App and digital manifolds

Exceptionally compact and reliable thanks to the robust, easy-to-handle housing with IP 54 protection class

Easy installation at any service port thanks to the integrated 45° angle

Can be used for applications with A2L refrigerant, taking into account the relevant legislation, norms and guidelines for refrigeration systems



The testo 552i App-controlled wireless vacuum probe expands the Testo Smart Probes portfolio with the option of measuring vacuum wirelessly and via just one service port. Used with the testo Smart App, the Smart Probe is also perfect for quick vacuum measurement. With the graphic display and critical value alarms in the testo Smart App, you have everything at a glance in your hand.

For the purposes of wireless vacuum measurement, the testo 552i automatically connects to the digital manifolds testo 550s and testo 557s via Bluetooth. Thanks to its proven quality and great durability, you can rely on your wireless vacuum probe in any conditions.

Technical data/accessories

testo 552i

testo 552i, app-controlled wireless vacuum probe, including batteries and calibration protocol



Order no. 0564 2552



The testo Smart App

- For the complete operation of the testo 552i
- Compatible with all Bluetooth-enabled Testo measuring instruments for air conditioning/refrigeration systems and heat pumps
- Measurement errors are easily prevented thanks to menus that offer optimum support, e.g. for superheating and subcooling
- Quick analysis thanks to clear presentation of the values, e.g. in a table
- Create digital measurement reports including photos as PDF/CSV files on site and email them straight away

Sensor type	Pressure
Measuring range	0 to 26.66 mbar/0 to 20000 microns
Accuracy ±1 digit	±10 microns + 10% of m.v. (100 to 1000 microns)
Resolution	1 micron (0 to 1000 microns) 10 microns (1000 to 2000 microns) 100 microns (2000 to 5000 microns)
Connection	7/16" – UNF
Overload	6.0 bar/87 psi (relative: 5.0 bar/72 psi)

General technical data	
Connection	Bluetooth 4.2
Bluetooth® range	150 m
Storage temperature	-20 °C to +50 °C
Operating temperature	-10 °C to +50 °C
Battery type	3 AAA microcells
Battery life	39 h
Auto power off	After 10 minutes when not connected via Bluetooth
Protection class	IP54
Dimensions	150 x 32 x 31 mm
Weight	142 g

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Subject to change, including technical modifications.

Clamp thermometer operated with smartphone

testo 115i

Compact professional measuring instrument from the Testo Smart Probes series for use with smartphones/tablets

Measurement of flow and return temperature of heating systems

Temperature measurement on refrigeration systems for calculation of superheating and subcooling

Fast identification of temperature changes by graphic progression display

Measurement data analyzed and sent via testo Smart App

Problem-free use at measuring points that are a long distance apart – Bluetooth® range up to 100 m



 Bluetooth®
+ App

testo Smart App
for free download



In conjunction with a smartphone or tablet, the handy testo 115i clamp thermometer is suitable for servicing and troubleshooting on air conditioning and refrigeration systems, as well as for their installation. In addition, the measuring instrument can also be used to measure flow and return temperatures. The testo 115i makes it considerably easier to work on measuring points that are a long distance apart, thanks to wireless connection to a smartphone or tablet.

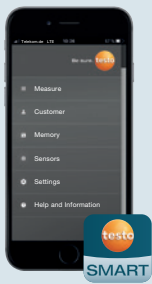
And simultaneous use of the testo 549i high-pressure measuring instrument also enables calculation of individual refrigeration system parameters, such as superheating and subcooling. Users can read off their measuring values conveniently via the testo Smart App installed on the terminal device. All measurement data are presented either as a graph or a table. Finally, the measurement data reports can be sent directly as pdf or Excel files.

Technical data/accessories

testo 115i

testo 115i, clamp thermometer operated with smartphone, for measurement on pipelines with diameters of 6 to max. 35 mm, including batteries and calibration protocol

Order no. 0560 2115 02



testo Smart App

The App turns your smartphone/tablet into the display for the testo 115i. Both the operation of the measuring instrument and the display of the readings are achieved by Bluetooth® via the testo Smart App on your smartphone or tablet – irrespective of the measuring location. In addition, you can use the App to create measurement reports, add photos and comments to these and send them by e-mail. For iOS and Android.

Sensor type

NTC

Measuring range	-40 to +150 °C
Accuracy ±1 digit	±1.3 °C (-20 to +85 °C)
Resolution	0.1 °C

General technical data

Compatibility	requires iOS 11.0 or newer / Android 6.0 or newer requires mobile terminal device with Bluetooth® 4.0
Storage temperature	-20 to +60 °C
Operating temperature	-20 to +50 °C
Battery type	3 micro batteries AAA
Battery life	150 hrs
Dimensions	183 x 90 x 30 mm
Bluetooth® range	up to 100 m

Accessories

Order no.

testo Smart Case (refrigeration) for the storage and transport of 2 x testo 115i and 2 x testo 549i, dimensions 250 x 180 x 70 mm	0516 0240	
testo Smart Case (heating) for the storage and transport of testo 115i, testo 410i, testo 510i, testo 549i and testo 805i, dimensions 250 x 180 x 70 mm	0516 0270	
ISO temperature calibration certificate, one-point calibration for clamp thermometer, calibration point +60 °C	0520 0072	



Testo Smart Probes FAQ

Questions and answers
on the new Testo Smart Probes



How do I get the testo Smart Probes App?

The testo Smart Probes App is available free of charge in the Google Play Store and the Apple Store. On every packaging of a Smart Probe, you will also find a QR code which links you directly to the right store:



Free download
testo Smart Probes App

 GET IT ON
Google Play

 Download on the
App Store

Which Android / iOS version is supported?

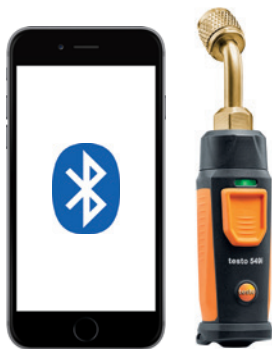
iOS 8.3 / Android 4.3 or newer; Bluetooth 4.0.
We have successfully tested the Testo Smart Probes with numerous mobile end devices. [Click here to find out exactly which ones these are.](#)

Why doesn't my smartphone recognize the Smart Probe?

Please first check whether your end device meets the system requirements? If so, switch off the measuring instrument and close the App. Now switch it on again and restart the App.

How do I carry out the pairing between the Smart Probe and the smartphone/tablet?

Pairing is not necessary. Activate Bluetooth on your mobile end device, and switch on the Smart Probe. The App will connect automatically. As soon as this is done, the LED on the Smart Probe flashes green.



What do I do if my mobile end device asks for a PIN as soon as I try to connect it to a Smart Probe?

You do not require a PIN to connect the Smart Probe to your mobile end device. Activate Bluetooth on your mobile end device, and switch on the Smart Probe. The App will connect automatically. As soon as this is done, the LED on the Smart Probe flashes green.

How do I close the App in iOS?

Press the Home button quickly twice in succession, and close the App with the swipe motion.



How do I close the App in Android?

Tap on the menu icon and close the App with the swipe motion.



How can I save the measurement results in my smartphone/tablet?

iOS: PDF report, curve view as an image, and tabular view as an Excel file can be sent by e-mail. If there is no internet connection at the time of sending, the e-mail will be saved in the outbox. PDF reports can also be stored in iBooks or a Cloud application (e.g. Dropbox).

Android: See iOS. You can additionally save the protocols directly in the end device.

How many Smart Probes can I simultaneously connect with the App?

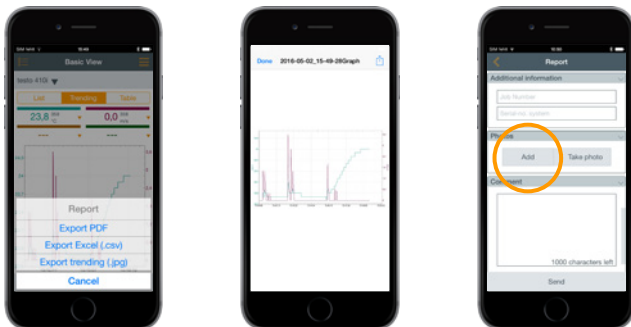
Up to 6 Smart Probes.

How great is the maximum range between the mobile end device and the Smart Probe?

Minimum 15 metres (unobstructed). Smart Probes testo 115i, testo 549i and testo 605i up to 100 meters. Please note that the range is very dependent on the performance of the respective end device.

Can I add the graphic curve to the protocol?

Yes. First save the graphic curve as an image file in the image gallery of the mobile end device. Then open the protocol as a PDF and insert the graph as an image.



Do the Smart Probes switch off automatically?

As soon as there is no longer a connection between the mobile end device and the the Smart Probe, the Smart Probe automatically switches off after 15 minutes.

For how long can I record a measurement?

There is no limit to this from the Testo side. However, the following factors have an influence on the duration of the measurement:

- Battery charge level of the mobile end device
- Performance extent of the mobile end device (e.g. storage, cache)
- Distance between Smart Probe and mobile end device

What is the measurement rate, and can I change it?

iOS: 1 second, Android: 2 seconds. The measurement rate cannot be changed.

How do I save the graphic curve for a certain time section?

After the graphic curve has been stopped, you can select the desired time section by zooming in and out.



Does the testo Smart Probes App also exist for Windows?

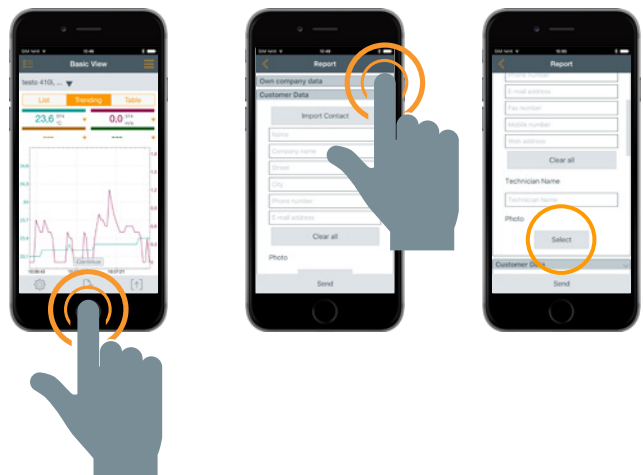
No.

Can I use the testo Smart Probes App on a PC?

No. You can, however, connect the App by Bluetooth to a mobile end device (iOS or Android).

Where and how can I insert my company logo into a protocol?

Tap on the share icon and select "Export PDF". Then tap on "Data own company" and tap on "Insert image". Now select your company logo from the image gallery of your end device. The selected image will be visible at top left in the protocol.



How can I save measurement values when I don't have a signal and cannot send e-mails?

If you do not have internet reception, the protocol is saved in the outbox until the connection is reestablished.

Can I use rechargeable batteries for the Smart Probes?

Yes.

How long do the batteries last?

testo 115i: 150 hours
testo 405i: 15 hours
testo 410i: 130 hours
testo 510i: 150 hours
testo 549i: 130 hours
testo 605i: 150 hours
testo 805i: 30 hours
testo 905i: 150 hours

How do I connect the testo 549i?

In most cases, the integrated 45° angle allows the testo 549i to be connected directly to the pressure port. Should the pressure connection be difficult to access, or if it has a different thread (e.g. R410A plants), we recommend the following adapters:

Adapter 1:
Connector 1/4" SAE
(7/16" UNF) external thread -
1/4" SAE (7/16" UNF)
external thread



Adapter 2:
Angle piece 90°,
1/4" SAE (7/16" UNF)
external thread 1/4" SAE
(7/16" UNF) internal thread



Adapter 3:
Connector
1/4" SAE (7/16" UNF)
external thread 5/16" SAE
(1/2" UNF) internal thread,
for R410A

