



Be sure. **testo**



New  
Smart Probes  
and multifunction  
Smart App

# Smart pros rely on Smart Probes.

Measure quickly and reliably without cables. Everything in view with one click. testo Smart Probes – compact pro measurement technology for your smartphone.

# High-tech from the Black Forest.

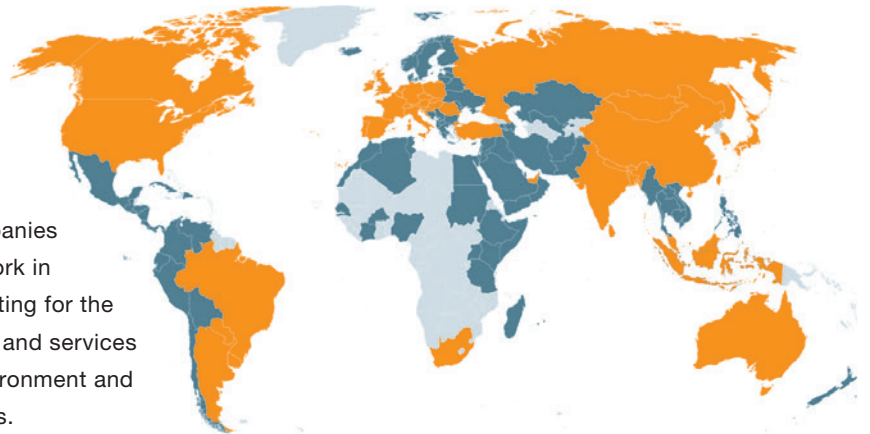


For more than 60 years, Testo has stood for innovative measuring solutions made in Germany. As an expert in measuring technology and global market leader in portable measuring technology, we provide over 650,000 customers worldwide with high-precision measuring instruments for many different sectors. Whether in refrigeration, air conditioning and environmental technology, industrial

applications, for exhaust and flue gas analysis, in the pharmaceutical and health sectors, for the monitoring of indoor air and food quality, or in the electrical field – we measure it. Our products help to save time and resources, to protect the environment and the health of humans, and to increase the value of goods and services.

## With roots in the Black Forest. At home all over the world.

Testo, whose headquarters are in the Black Forest, is an expert for highly precise measurement technology and innovative measurement solutions. In 35 subsidiary companies around the world, roughly 3,200 employees work in research, development, production and marketing for the high-tech company. Testo products, solutions and services help save time and resources, protect the environment and human health and improve the quality of goods.



Subsidiary companies  
Agencies

## Our innovations are the engine which drives you forward.

The requirements for practical measurement solutions are becoming increasingly more complex and specific. That is why we have set ourselves the key task of identifying these customer requirements in industry and trade and translating them permanently into new technology. We carry out our own intensive research, which has given us a leading role in the market for decades.

Did you know that Testo is the inventor of Smart Probes? For five years, our Smart Probes have already been making many technicians' working day easier.



On the following pages, we will present the intelligent little helpers which make you ready to measure at any time.

## Smart Probes: compact pro measuring instruments – optimized for your smartphone.

For you, measurement is more mobile than ever before, with the new testo Smart Probes. Because the compact measuring instruments can be operated **wirelessly with your own smartphone or tablet**, and conveniently transported in the handy testo Smart Case. That way, you always have all your measurement technology with you and immediately ready to hand. All measurement data are transmitted by Bluetooth **directly** to the free Smart App, and with a mobile end device, can be read out, turned into a report, and finally sent directly by e-mail. And the App can do much more: with **practical measurement menus and special functions**, it turns your smartphone into a measurement data centre – and makes your work more efficient. Welcome to the world of digital measurement technology.



# testo Smart Probes offer these features.



# Smart on the job: Application examples.

## Tightness test on refrigeration plants



- Long-term measurement of system pressure with the testo 549i high-pressure measuring instrument
- Check for compressor leaks with the testo 549i high pressure measuring instrument

### This is how the testo Smart App helps you in this application:

- Graphic recording and analysis of the pressure curve

### Our recommendation:

#### The testo Smart Probes AC & refrigeration test kit



Kit, see page 10.

## Superheating and subcooling on refrigeration systems



- Measure temperature and pressure on high and low pressure side of the plant simultaneously with two **testo 115i** clamp thermometers and two high pressure measuring instruments **testo 549i**
- Problem-free measurement even at measurement sites which are far apart (indoor and outdoor areas) thanks to long range of up to 100 m

### This is how the testo Smart App helps you in this application:

- All relevant refrigerants stored
- Automatic updates of new refrigerants
- Automatic determination of condensation and evaporation temperature, and calculation of superheating and subcooling

## Target superheat on refrigeration plants



- Measurement of wet bulb temperature with the thermohygrometer **testo 605i**
- Measurement of wet bulb temperature with the thermohygrometer **testo 605i**
- Measure temperature and pressure on high and low pressure side of the plant simultaneously with two **testo 115i** clamp thermometers and two high pressure measuring instruments **testo 549i**

### This is how the testo Smart App helps you in this application:

- All relevant refrigerants stored
- Automatic updates of new refrigerants
- Automatic calculation of the target superheat without manually reading off tables

### Our recommendation:

#### The testo Smart Probes AC & refrigeration test kit plus



Kit, see page 10.

## Refrigeration and heating performance of air conditioning plants



- Measure volume flow with the thermal anemometer **testo 405i**
- Measure input and exhaust air simultaneously with two thermohygrometers **testo 605i**

### This is how the testo Smart App helps you in this application:

- Automatic calculation of refrigeration-heating performance

# Smart on the job: Application examples.

## Functional testing on air conditioning plants



- Measure air humidity with the thermohygrometer **testo 605i**
- Record volume flows with the vane anemometer **testo 410i** and the thermal anemometer **testo 405i**
- Measure air humidity with the thermohygrometer **testo 605i**

This is how the testo Smart App helps you in this application:

- Easy parameterization of the outlet/duct cross-section for volume flow measurement
- Listing of several volume flows and calculation of total volume flow
- Calculation of dewpoint and wet bulb temperature

### Our recommendation:

testo Smart Probes **VAC kit**



Kit, see page 10.

## Functional testing on heating systems



- Non-contact temperature measurement with infrared thermometer **testo 805i**
- Measurement of flow and return temperature with clamp thermometer **testo 115i**
- Measurement of gas flow pressure incl. pressure drop test with differential pressure measuring instrument **testo 510i**

This is how the testo Smart App helps you in this application:

- Pressure drop test incl. alarms
- Fast image documentation with infrared temperature measurement values and measurement spot marking

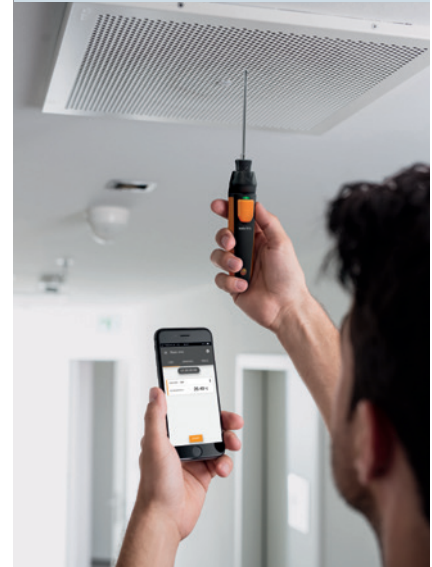
### Our recommendation:

testo Smart Probes **heating kit**



Kit, see page 11.

## Flexible temperature measurement



- Measure ambient temperature and temperature in ducts or at air vents with the **testo 915i with air temperature probe**
- Measure temperatures in liquid, semi-solid or paste media with the **testo 915i with immersion/penetration probe**
- Measure surface temperature on uneven surfaces with the **testo 915i with surface probe**

This is how the testo Smart App helps you in this application:

- Intuitive operation with fast and reliable temperature display
- Versatile use in the most varied temperature measurement applications
- Easy analysis and documentation

### Our recommendation:

testo 915i **temperature kit**



Kit, see page 11.



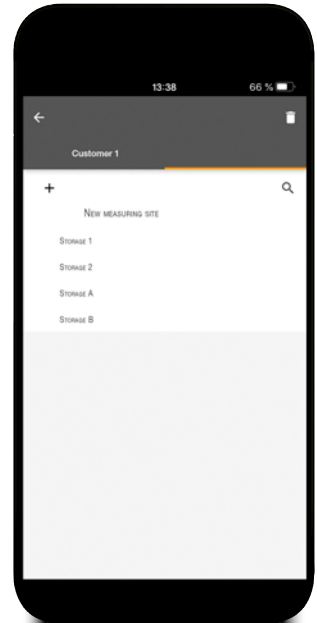
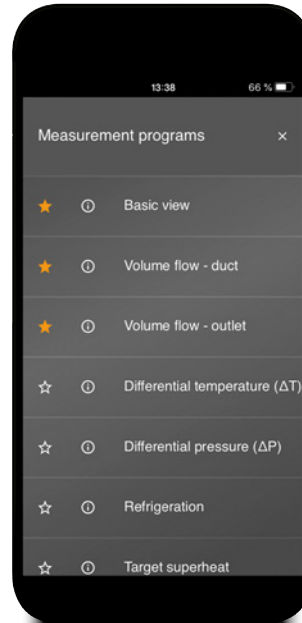
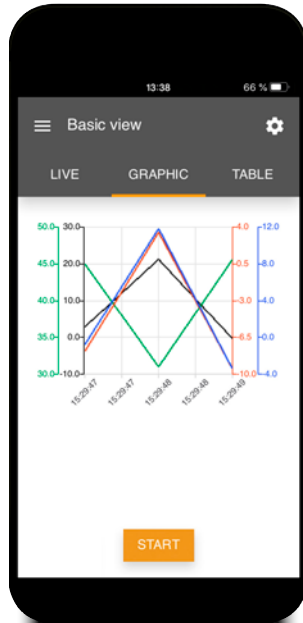
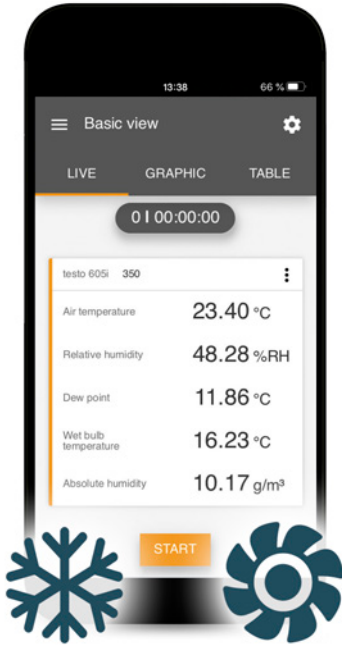
# New: The testo Smart App. All Smart Probes. One App. Many advantages.

**One App** for all measurement applications in air conditioning and refrigeration

**Graphically presented** measurement values

**Intuitive measurement menus** for numerous applications

**Customer data management,** measurement reports created and sent by e-mail



## Further advantages:

- Wireless read-out of measurement values on your smartphone/tablet from up to 100 m distance to the measuring instrument
- Display of several Smart Probes at the same time
- Data synchronization by testo Datacontrol PC software for fast preparation and finishing of jobs
- Compatible and usable with other measuring instruments from Testo: Digital manifolds testo 550s, testo 557s, testo 550i, clamp meter testo 770-3



**testo Smart App**

for free download



## For smart temperature measurement.



### testo 915i: Thermometer with plug-in probes, operated by smartphone

- Wireless temperature measurement in the most diverse applications thanks to large selection of probes and compatibility with common Type K thermocouple probes
- Robust and fast-reaction probes for quick temperature measurements
- Fast identification of temperature change by graph curve display
- Individually available with air probe, immersion/penetration probe, surface probe or flexible probe (all TC Type K, Class 1)
- Available as a kit with air, immersion/penetration and surface probes TC Type K, Class 1
- Large measuring range up to -50 to +400 °C
- High measurement accuracy up to  $\pm 1.0$  °C thanks to system calibration ex-works

testo 915i with flexible probe Order no. 0563 4915

testo 915i with air probe (see figure) Order no. 0563 3915

testo 915i with immersion/penetration probe Order no. 0563 1915

testo 915i with surface probe Order no. 0563 2915

Kit testo 915i with 3 probes in testo Smart Case Order no. 0563 5915  
(see p. 11)



### testo 115i: Clamp thermometer operated via smartphone

- Measurement of flow and return temperature in heating systems
- Temperature measurement on refrigeration systems for automatic calculation of superheating and subcooling
- Problem-free use at measuring points that are a long distance apart – Bluetooth® range up to 100 m
- Measuring range -40 to +150 °C

Order no. 0560 2115 02



### testo 805i: Infrared thermometer operated with your smartphone

- Non-contact infrared measurement of surface temperature
- Measuring spot marking via highly visible 8-point laser circle
- Easy selection of emission level via stored materials list
- Optics 10:1, measuring range -30 to +250 °C

Order no. 0560 1805



## For smart humidity measurement.

### testo 605i: Thermohygrometer operated via smartphone

- Measurement of air humidity and temperature in rooms and ducts
- Determination of refrigeration/heating performance with two testo 605i
- Automatic calculation of the dewpoint and wet bulb temperature
- Problem-free use at measuring points that are a long distance apart – Bluetooth® range up to 100 m
- Measuring ranges 0 to 100 %RH and -20 to +60 °C

Order no. 0560 2605 02





## For smart flow measurement.

### testo 405i: Thermal anemometer operated with your smartphone

- Measurement of air velocity, volume flow and temperature
- Easy configuration of the dimensions and geometry of the duct cross-section for determining volume flow
- Telescopic tube which can be extended to 400 mm
- Measuring ranges 0 to 30 m/s and -20 to +60 °C

Order no. 0560 1405



### testo 410i: Vane anemometer operated with your smartphone

- Measurement of air velocity, volume flow and temperature
- Presentation of the volume flow of several outlets for the purposes of regulating systems
- Easy parametrization of the outlet (dimension and geometry)
- Measuring ranges 0.4 to 30 m/s and -20 to +60 °C

Order no. 0560 1410



## For smart pressure measurement.

### testo 552i: Vacuum measuring instrument operated via smartphone

- Wireless and hoseless vacuum measurement
- Identify vacuum quickly and easily thanks to graphic presentation in the App of on the manifold display
- Automatic Bluetooth® connection with the testo Smart App and all digital manifolds, range up to 150 m
- Compact, reliable and robust thanks to housing with IP 54 protection class
- Easy installation at any service port thanks to the integrated 45° angle
- Measuring range 0 to 26.66 mbar / 0 to 20000 micron

Order no. 0564 2552



### testo 549i: High-pressure gauge operated via smartphone

- Measurement of high and low pressure
- Quick and easy installation at the pressure connection
- Low refrigerant loss thanks to hoseless application
- Problem-free use at measuring points that are a long distance apart – Bluetooth® range up to 100 m
- Measuring range -1 to 60 bar

Order no. 0560 2549 02



### testo 510i: Differential pressure measuring instrument operated with your smartphone

- Measurement of gas flow and static pressure
- Measurement menu for pressure drop test including alerts
- Easy configuration and determination of the volume flow with Pitot tube
- Magnetic holder for easy attachment
- Measuring range -150 to +150 hPa

Order no. 0560 1510



# Smart sets for air conditioning, refrigeration and heating technicians.

## The testo Smart Probes AC & refrigeration test kit:

### 2x testo 549i and 2x testo 115i in testo Smart Case.

- Application-specific menus: Superheating/subcooling
- All relevant refrigerants stored in the testo Smart App, plus automatic refrigerant updates
- 100 m Bluetooth® range for especially flexible use
- Measurement data analysis and dispatch in the testo Smart App



Order no. 0563 0002 10

## The testo Smart Probes AC & refrigeration test kit plus:

### 2x testo 549i, 2x testo 115i and 2x testo 605i in testo HVAC softcase.

- Application-specific menus: superheating and subcooling, target superheating, heating/cooling output
- All relevant refrigerants stored in the testo Smart App, plus automatic refrigerant updates
- Measurement data analysis and dispatch via testo Smart App



Order no. 0563 0002 41

## The testo Smart Probes VAC kit:

### testo 405i, testo 410i, testo 605i and testo 805i in testo Smart Case.

- For the measurement of air and surface temperature, humidity, air flow velocity and volume flow
- Application-specific menus: Volume flow measurement in ducts and at vents, identification of mould danger, easy image documentation
- Easy parameterization of the outlet/duct cross-section
- Calculation of total volume flow
- Measurement data analysis and dispatch via testo Smart App



Order no. 0563 0003 10

## The testo Smart Probes HVAC/R ultimate kit:

### 2x testo 115i, 2x testo 549i, 2x testo 605i, testo 405i, testo 410i, testo 510i, testo 805i and testo 915i in testo HVAC softcase.

- Deal with all measurements in the fields of heating, air conditioning, refrigeration and ventilation with one kit
- All Smart Probes for temperature, pressure, humidity and flow velocity in one kit
- Display of measurement data progression as a graph or table
- Measurement data analysis and dispatch via testo Smart App



Order no. 0563 0002 32

**The testo Smart Probes heating kit:**

**testo 115i, testo 510i and testo 805i in testo Smart Case.**

- For all temperatures and pressures in a heating system
- Flow and return temperature, temperatures of underfloor heating and radiators
- Measurement data analysis and dispatch via testo Smart App



Order no. 0563 0004 10

**The testo 915i temperature kit:**

**testo 915i with 3 temperature probes in testo Smart Case.**

- Fast and easy temperature measurement in the most varying applications with air, immersion/penetration and surface probes (all TC Type K, Class 1)
- Secure locking mechanism for attaching probes
- Expandable with a large selection of probes and compatibility with common TC Type K probes
- Easy operation, evaluation and documentation with free testo Smart App and automatic Bluetooth connection to smartphones, tablets or Testo measuring instruments



Order no. 0563 5915



**USE YOUR  
KIT  
ADVANTAGE  
NOW**

# Ordering information.

Smart Probes	Order no.	EUR
<b>testo 915i with flexible probe</b> , wireless Smart Probe testo 915i with flexible probe (TC Type K), incl. batteries and calibration protocol	0563 4915	xxx.xx
<b>testo 915i with air probe</b> , wireless Smart Probe testo 915i with air probe (TC Type K), incl. batteries and calibration protocol	0563 3915	xxx.xx
<b>testo 915i with immersion/penetration probe</b> , wireless Smart Probe testo 915i with immersion/penetration probe (TC Type K), incl. batteries and calibration protocol	0563 1915	xxx.xx
<b>testo 915i with surface probe</b> , wireless Smart Probe testo 915i with surface probe (TC Type K), incl. batteries and calibration protocol	0563 2915	xxx.xx
<b>testo 915i kit</b> , universal temperature kit consisting of Smart Probe testo 915i with plug-in immersion/penetration probe, air probe and surface probe in testo Smart Case (temperature), incl. batteries and calibration protocol	0563 5915	xxx.xx
<b>testo 115i</b> , clamp thermometer operated by smartphone, for measurements on pipes of 6 to max. 35 mm diameter, incl. batteries and calibration protocol	0560 2115 02	xxx.xx
<b>testo 805i</b> , infrared thermometer operated by smartphone, incl. batteries and calibration protocol	0560 1805	xxx.xx
<b>testo 605i</b> , thermohygrometer operated by smartphone, incl. batteries and calibration protocol	0560 2605 02	xxx.xx
<b>testo 405i</b> , thermal anemometer operated by smartphone, incl. batteries and calibration protocol	0560 1405	xxx.xx
<b>testo 410i</b> , vane anemometer operated by smartphone, incl. batteries and calibration protocol	0560 1410	xxx.xx
<b>testo 510i</b> , differential pressure measuring instrument operated by smartphone, incl. hose set (Ø 4 mm and 5 mm) with adapter, batteries and calibration protocol	0560 1510	xxx.xx
<b>testo 549i</b> , high-pressure measuring instrument operated by smartphone, incl. batteries and calibration protocol	0560 2549 02	xxx.xx
<b>testo 552i</b> , App-controlled wireless vacuum probe testo 552i, incl. batteries and calibration protocol	0564 2552	xxx.xx

testo Smart Probes kits	Order no.	EUR
<b>testo Smart Probes AC &amp; refrigeration test kit</b> for testing and fault localization on air conditioning and refrigeration plants as well as heat pumps. Consisting of: 2x testo 115i, 2x testo 549i, testo HVAC softcase, batteries, calibration protocol	0563 0002 10	xxx.xx
<b>testo Smart Probes AC &amp; refrigeration test kit plus</b> for testing and fault localization on air conditioning and refrigeration plants as well as heat pumps. Consisting of: 2x testo 115i, 2x testo 549i, 2x testo 605i, testo HVAC softcase, batteries, calibration protocol	0563 0002 41	xxx.xx
<b>testo Smart Probes – VAC kit</b> for servicing ventilation and air conditioning plants. Consisting of: testo 405i, testo 410i, testo 605i, testo 805i, testo softcase (HVAC), batteries, calibration protocol	0563 0003 10	xxx.xx
<b>testo Smart Probes HVAC/R ultimate kit</b> Consisting of: 2x testo 115i, 2x testo 549i, 2x testo 605i, testo 405i, testo 410i, testo 510i, testo 805i, testo 915i, testo HVAC softcase, batteries, calibration protocol	0563 0002 32	xxx.xx
<b>testo Smart Probes – heating kit</b> for pressure and temperature measurement on heating systems. Consisting of: testo 115i, testo 510i incl. hose set (Ø 4 mm and 5 mm) with adapter, testo 805i, testo Smart Case (heating), batteries, calibration protocol	0563 0004 10	xxx.xx
<b>testo Smart Probes – mould kit</b> for preventive mould identification. Consisting of: testo 605i, testo 805i, testo Smart Case (HVAC), batteries, calibration protocol	0563 0005 10	xxx.xx
testo Smart Cases	Order no.	EUR
<b>testo Smart Case (HVAC)</b> for the storage and transportation of testo 405i, testo 410i, testo 510i, testo 605i and testo 805i, dimensions 270 x 190 x 60 mm	0516 0260	xxx.xx
<b>testo Smart Case (temperature)</b> for the storage and transportation of testo 915i with TC probes, dimensions 250 x 180 x 70 mm	0516 0032	xxx.xx
<b>testo Smart Case (refrigeration)</b> for the storage and transportation of 2x testo 115i and 2x testo 549i, dimensions 250 x 180 x 70 mm	0516 0240	xxx.xx
<b>testo Smart Case (heating)</b> for the storage and transportation of testo 115i, testo 410i, testo 510i, testo 549i and testo 805i, dimensions 250 x 180 x 70 mm	0516 0270	xxx.xx