

We measure it. **testo**



# Smartphone. Smart Probes. Smart work.

Testo Smart Probes: compact measuring instruments in professional Testo quality, optimized for smartphones.



# High-tech from the Black Forest.

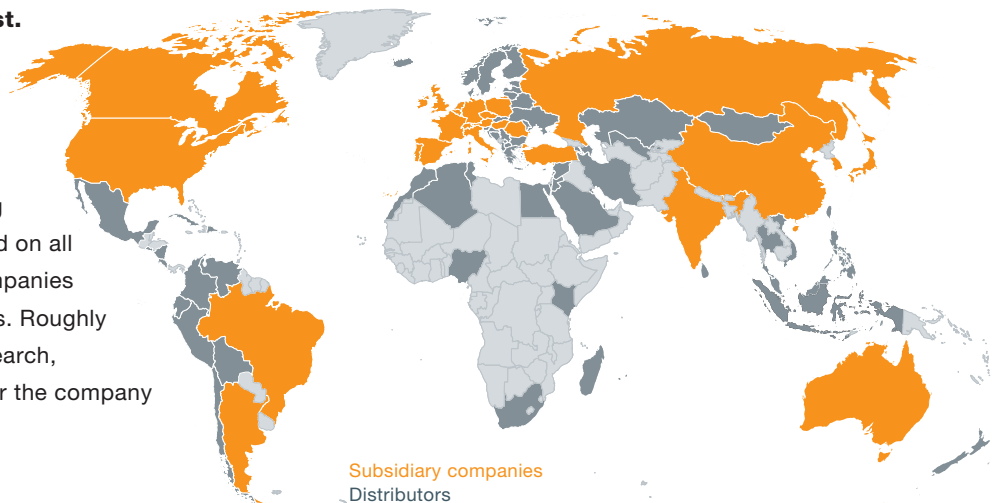


For more than 55 years, Testo has stood for innovative measuring solutions made in Germany. As an expert in measurement technology and world market leader in portable measurement technology, we convince over 650,000 customers worldwide with highly precise measuring instruments for many different sectors. 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.**

Our headquarters are in Lenzkirch in the Black Forest. However, Testo has for many years been a constantly growing global concern, now represented on all continents by 30 subsidiary companies and over 80 distribution partners. Roughly 2,500 Testorians worldwide research, develop, produce and market for the company with passion and expertise.



## **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.

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

# Smart Probes: small, professional measuring instruments – optimized for your smartphone.



For VAC, refrigeration and heating contractors, 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 directly to the free testo Smart Probes 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.

## The testo Smart Probes App: One App. Eight measuring instruments. Many advantages.

- Wireless readout of the measurement values on your smartphone/tablet – even at some distance from the measuring instrument.
- Display of up to six Smart Probes at the same time.
- The App quickly visualizes measurement value changes – as a graph or a table.
- Pre-stored menus for specific applications, incl.: automatic calculation of evaporation and condensation temperatures, as well as superheating and sub-cooling; volume flow measurement in ducts/at outlets; non-contact temperature measurement by infrared with fast image documentation incl. measurement values and measurement spot marking.
- Measurement data reports can be supported by images created with the App, and immediately sent as PDF or Excel files.



**testo Smart Probes App**  
for free download

System requirements: iOS 8.3 or Android 4.3 or newer / Bluetooth 4.0

# For smart temperature measurement.

## testo 115i: Clamp thermometer operated with your smartphone

- Measurement of flow and return temperature in heating systems
- Temperature measurement on refrigeration systems for automatic calculation of superheating and subcooling
- Comfortable application also at far apart measurement locations
- Fast identification of temperature changes by graph curve display
- Measuring range -40 to +150 °C

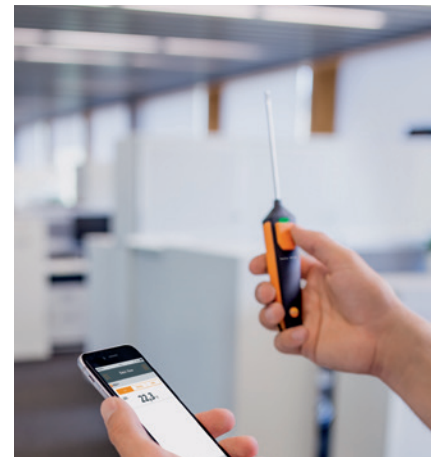
Order no. 0560 1115



## testo 905i: Thermometer operated with your smartphone

- Measurement of temperatures in rooms, ducts and at air outlets
- Fast identification of temperature change by graph curve display
- Measuring range -50 to +150 °C

Order no. 0560 1905



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

- Non-contact, infrared measurement of the surface temperature
- Measurement spot marking with easily visible 8-point laser circle
- Easy selection of emissivity with stored material list
- Image documentation with measurement values and measurement spot marking
- Optics 10:1, measuring range -30 to +250 °C

Order no. 0560 1805



## For smart **humidity measurement.**

### **testo 605i: Thermohygrometer operated with your smartphone**

- Measurement of air humidity and temperature in rooms and ducts
- Automatic calculation of the dewpoint and wet bulb temperature
- Measuring range: 0 to 100 %RH; -20 to +60°C

Order no. 0560 1605



## For smart **flow velocity measurement.**

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

- Measurement of air flow velocity, volumetric flow and temperature
- Easy configuration of the dimensions and geometry of the duct cross-section for determining volume flow
- Telescopic shaft extendible up to 400 mm
- Measuring range 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 flow velocity, volumetric flow and temperature
- Presentation of the volume flow of several outlets for the purposes of regulating systems
- Easy parameterization of the outlet (dimensions and geometry)
- Measuring range 0.4 to 30 m/s and -20 to +60 °C

Order no. 0560 1410



## For smart **pressure measurement.**

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

- Measurement of gas flow pressure and static pressure
- Measurement menu for pressure-drop test incl. alarms
- Easy configuration and determination of the volume flow with Pitot tube
- Magnetic fixture for better attachment
- Measuring range -150 to 150 hPa

Order no. 0560 1510



### **testo 549i: High-pressure measuring instrument operated with your smartphone**

- Measurement of high and low pressure
- Quick and easy installation at the pressure connection
- Low refrigerant loss thanks to hoseless application
- Measuring range -1 to 60 bar

Order no. 0560 1549



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

**The Smart Probes refrigeration set:** 2x testo 549i and 2x testo 115i in the testo Smart Case.



The refrigeration set is ideally suited to service and error detection on air conditioning and refrigeration systems, as well as their installation. The robust testo Smart Case enables the measuring instruments to be conveniently transported and means that they are always to hand when they are needed.

- Low refrigerant loss thanks to hoseless application
- Quick and easy installation directly onto the pressure connection
- Simplifies work on systems with far apart measurement locations
- Automatic calculation of the evaporation and condensation temperature via the testo Smart Probes App
- Calculation of system parameters – such as superheating – on refrigeration systems, via testo Smart Probes App.
- Measurement data analyzed and sent via testo Smart Probes App
- Practical testo Smart Case for stowing and transport

Order no. 0563 0002

**The Smart Probes VAC set:** testo 405i, testo 410i, testo 605i and testo 805i in the testo Smart Case.



With the VAC set, you can measure air velocities, humidity, volume flows and temperatures in, on and in connection with air conditioning units systems. The robust testo Smart Case enables the measuring instruments to be conveniently transported and means that they are always to hand when they are needed.

- Easy parameterization of the outlet/duct cross-section
- Listing of several volume flows and calculation of the total volume flow (in the report)
- Identification of mould danger through combined use of the testo 605i and testo 805i
- Fast image documentation with IR temperature measurement values and measurement spot marking
- Measurement data analyzed and sent via testo Smart Probes App
- Practical testo Smart Case for storage and transport

Order no. 0563 0003

**The Smart Probes heating set:** testo 115i, testo 510i and testo 805i in the testo Smart Case.



With the heating set, you measure and check all temperatures and pressures in a heating system. The robust testo Smart Case enables the measuring instruments to be conveniently transported and means that they are always to hand when they are needed.

- Measurement of gas flow pressure and static pressure
- Measurement of the flow and return temperatures at distributors
- Measurement of the temperatures of underfloor heating and radiators
- Measurement menu for pressure-drop test incl. alarms
- Fast image documentation with IR temperature measurement values and measurement spot marking
- Measurement data analyzed and sent via testo Smart Probes App
- Practical testo Smart Case for stowing and transport

Order no. 0563 0004

# Ordering information.

Testo Smart Probes	Order no.
<b>testo 905i</b> , thermometer operated with smartphone, incl. batteries and calibration protocol	0560 1905
<b>testo 115i</b> , clamp thermometer operated with smartphone, for measurements on pipes with diameters of 6 to maximum 35 mm, incl. batteries and calibration protocol	0560 1115
<b>testo 805i</b> , infrared thermometer operated with smartphone, incl. batteries and calibration protocol	0560 1805
<b>testo 605i</b> , thermal hygrometer operated with smartphone, incl. batteries and calibration protocol	0560 1605
<b>testo 405i</b> , thermal anemometer operated with smartphone, incl. batteries and calibration protocol	0560 1405
<b>testo 410i</b> , vane anemometer operated with smartphone, incl. batteries and calibration protocol	0560 1410
<b>testo 510i</b> , differential pressure gauge operated with smartphone, incl. hose set (Ø 4 mm and 5 mm) with adapter, batteries and calibration protocol	0560 1510
<b>testo 549i</b> , high-pressure gauge operated with smartphone, incl. batteries and calibration protocol	0560 1549
testo Smart Cases	Order no.
<b>testo Smart Case (VAC)</b> for the storage and transport of testo 405i, testo 410i, testo 510i, testo 605i, testo 805i and testo 905i, dimensions 270 x 190 x 60 mm	0516 0260
<b>testo Smart Case (refrigeration)</b> for the storage and transport of 2 x testo 115i and 2 x testo 549i, dimensions 250 x 180 x 70 mm	0516 0240
<b>testo Smart Case (heating)</b> 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
testo Smart Probes sets	Order no.
<b>testo Smart Probes VAC set</b> for servicing ventilation and air conditioning systems. Consists of: testo 405i, testo 410i, testo 605i, testo 805i, testo Smart Case (VAC), batteries, calibration protocol	0563 0003
<b>testo Smart Probes refrigeration set</b> for servicing, commissioning and error detection on air conditioning and refrigeration systems. Consists of: 2x testo 115i, 2x testo 549i, testo Smart Case (refrigeration), batteries, calibration protocol	0563 0002
<b>testo Smart Probes heating set</b> for pressure and temperature measurement on heating systems. Consists 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

Calibration certificates	Order no.
ISO calibration certificate (temperature), for air/immersion probe, calibration points -18 °C; 0 °C, +60 °C	0520 0001
ISO calibration certificate temperature, for air/immersion probe, calibration point -18 °C	0520 0061
ISO calibration certificate temperature, for air/immersion probe, calibration point 0 °C	0520 0062
ISO calibration certificate temperature, for air/immersion probe, calibration point +60 °C	0520 0063
ISO calibration certificate temperature, one-point calibration for clamp thermometer, calibration point +60 °C	0520 0072
ISO calibration certificate temperature, infrared thermometer, calibration points +60 °C; +120 °C, +180 °C	0520 0002
ISO calibration certificate humidity, calibration points 11.3 %RH and 75.3 %RH at +25°C	0520 0006
ISO calibration certificate humidity, calibration point 75.3 %RH at +25°C	0520 0096
ISO calibration certificate flow velocity, two-point calibration, calibration points 5; 10 m/s	0520 0094
ISO calibration certificate flow velocity, hot-wire/vane anemometer, Pitot tube; calibration points 1; 2; 5; 10 m/s	0520 0004
ISO calibration certificate flow velocity, hot-wire/vane anemometer, Pitot tube; calibration points 5; 10; 15; 20 m/s	0520 0034
ISO calibration certificate pressure, accuracy > 0.6 % of final value	0520 0005
ISO calibration certificate relative pressure, 3 measurement points distributed over the entire measuring range	0520 0085

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Subject to change, including technical modifications, without notice.

