

Be sure. **testo**



Your competent partner for measurements and services.

Intuitive, efficient, reliable – everything you need for facility management:
Welcome to the Smart World of Testo.

Testo – your competent partner for facility management.

Operating costs, user convenience, energy consumption: As a facility manager, you need to keep an eye on a number of things and improve the efficiency of systems and processes at the same time. Thanks to digital measuring technology from Testo, these many different tasks can be tackled more easily.

Because in Testo, the high-tech company from the Black Forest, you have a competent partner who can provide you with all the integrated solutions that you need for all aspects of facility management. Smart, comprehensive and all from one provider. For heating, HVAC, ventilation and refrigeration systems just as for electrical installations.

Use the smart measuring instruments, user-specific apps and intuitive measurement menus from Testo to carry out

quicker testing, more convenient maintenance and more efficient adjustment of systems. Bluetooth connections to the actual sensors make it possible for you to carry out measurements reliably and precisely, wherever required. Since all of the measuring technology can be operated intuitively, all procedures are learned quickly, which not only makes your work faster, but also less prone to errors.

Moreover, Testo offers you wide range of services to make your work easier. From individual consultancy and repair and spare parts services to seminars and training courses, through to professional test equipment management – Testo is your competent partner for measurement solutions and services in facility management.

Your advantages with Testo

Digital, smart and extremely flexible

Since lots of measuring instruments are equipped with Bluetooth, you can also operate them via smartphone or tablet and use application-specific apps. Multifunction measuring instruments have digital probes, some are wireless to make handling easier. This makes your work much easier and more accurate.

Solutions for all measuring tasks involved in efficient facility management

At Testo, you will find all of the measuring technology you need to efficiently adjust heating, air conditioning, ventilation and refrigeration systems as well as electrical installations. With thermal imagers from Testo, you can also detect construction defects, building damage and damp spots as well as malfunctions and wear on systems quicker than you ever could before.

Extensive range of training courses

From free webinars with valuable practical tips to certified training courses from the Testo Academy: not only does Testo offer you measuring technology and services, we also provide you with the expertise that you need to do your job properly. You can find our current range of seminars at www.testo.com

One-stop service

Consultancy, repairs, spare parts hotline, made-to-measure probe construction, calibration and validation or complete test equipment management: Testo offers you all the services you need to work properly and efficiently in facility management, all from one provider.

For more information about Testo's measuring instruments, apps and services for facility management, please call our experts on www.testo.com.

PRIMAS – the integral test equipment management system for facility managers.

External allocation of the entire test equipment management system is something you should be able to rely on. Each company has specific products and processes as well as specific measuring technology.

With the test equipment management system from Testo Industrial Services, you will have nothing to worry about, because this is the integrated solution for your test equipment and is based on collaborative partnership

between customers, Testo Industrial Services, suppliers and logistics partners.

PRIMAS is a combination of calibration and documentation management, coupled with a special software and rounded off with logistics and organization. Thanks to its modular structure, PRIMAS can be perfectly tailored to your facility management requirements.

Individual adaptation thanks to modular design

Calibration

- DAkkS calibration in accredited laboratories
- ISO calibrations
- On-site calibration
- Repairs
- Calibration at the sites of manufacturers and partners

Logistics

- Pick-up and delivery service
- Shipping containers
- Transport partners
- Express service
- On-site calibration

PRIMAS[®]



Documentation

- Standard-compliant
- Paperless
- Labelling

Organization

- Planning and consultancy
- Barcode labelling
- Individual process adjustment
- Deadline monitoring

IT

- PRIMAS online – web-based test equipment management
- PRIMAS exchange – data exchange via VDI/VDE 2623

Guaranteed **comfort** in the workplace.

Too cold, too hot, too draughty: Whether people feel comfortable in the workplace depends on various comfort-related parameters. Moreover, legal standard values (e.g. for sound level, luminous intensity, CO₂) must be complied with. Smart measuring technology from Testo helps you to determine the level of thermal comfort in accordance with PMV/PPD, the indoor air quality and the degree of turbulence quickly and reliably. This enables you to deal competently with complaints from employees using objective values and to check compliance with the standard values at any time. To create an indoor climate in which as many people as possible feel comfortable and can work productively.

Problem: Guaranteeing thermal comfort in the workplace and compliance with legal standard values (e.g. brightness, CO₂ concentration).



Solution: Integrated evaluation of climatic conditions with one multifunction instrument. Standard-compliant evaluation of the comfort level in accordance with PMV/PPD. Determination of the indoor air quality.

testo 400: PMV/PPD, turbulence measurement, °C, %RH, lux, CO₂
 testo 440: Turbulence measurement, °C, %RH, lux, CO₂, CO

	Page
Universal IAQ instrument testo 400	36
Air velocity & IAQ measuring instrument testo 440	35
WiFi data logger system testo Saveris 2	27
Thermohygrometer testo 608-H2	24
Thermohygrometer testo 625	24
Temperature/humidity data logger testo 175 H1	26
IAQ logger testo 160	48
Sound level meter testo 816-1	53
Comfort combo kit CO ₂ kit testo 440	47
CO/CO ₂ measuring instrument testo 315-3	47
Lux meters testo 540	53

Problem: Ensuring a constant ambient climate.



Solution: (Remote) monitoring of the climate using data loggers.

testo Saveris 2, testo 608, testo 175 H1, testo 160 IAQ logger

Problem: Complaints about uncomfortable rooms or poor air quality (headaches, fatigue).



Solution: Quick monitoring of individual parameters using compact measuring instruments.

Sound: testo 816-1
 CO₂: testo 315-3
 Lux: testo 540
 °C and % RH: testo 625

Efficient adjustment of HVAC systems and air conditioning systems.

In ducts

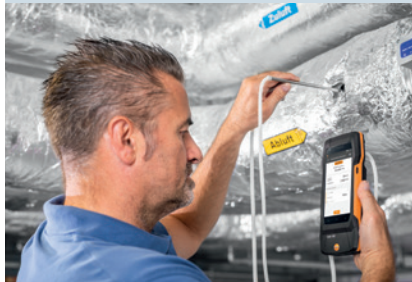
Problem: Adjustment of an air conditioning or ventilation system in accordance with the design layout.



Solution: Measurement of flow velocity and volume flow in the ventilation duct.

testo Smart Probes VAC kit, testo 440, testo 405

Problem: Carrying out a HVAC grid measurement in accordance with EN 12599.



Solution: Step-by-step guide to HVAC grid measurements and individually calibratable probes.

testo 400

Powerful HVAC and air conditioning systems ensure a pleasant working climate in modern buildings. However, these can only run efficiently and without problems when they are optimized and regularly serviced. Air flows that are too low do not sufficiently dissipate the room loads, while air flows that are too high increase the operating costs. With smart air flow meters from Testo, not only can you quickly and conveniently check the air flows in ventilation ducts and at outlets and compare them with the design layout, you can also accurately and reliably measure turbulent flows at ventilation outlets.

At outlets

Problem: Difficult measurement at large outlets due to turbulent flow.



Solution: Precise flow measurement with a flow straightener.

testo 420, testo 417, testo 440, testo 400 with testovent 417 flow straightener kit

Problem: insufficient air exchange rate in closed rooms.



Solution: Measurement and adjustment of the volume flow in ducts and duct outlets.

testo 440, testo 417, testo 410i, testo 410

	Page
Universal IAQ instrument testo 400	36
Air velocity & IAQ measuring instrument testo 440	35
VAC kit Testo Smart Probes	31
Thermal anemometer testo 405	32
Vane anemometer testo 410	32
Vane anemometer with App testo 410i	31
16 mm vane kit testo 440	32
Vane anemometer testo 417	33
Flow straightener kit testovent 417	33
Hot wire kit testo 440	33
Volume flow hood testo 420	34

Efficient adjustment of heating systems.

A building's greatest energy-saving potential is often hidden in its basement boiler room. Use smart, flexible measuring technology from Testo and application-specific Testo apps to analyze flue gases with precision, to measure flow and return temperatures, to locate gas leaks and to carry out pressure drop tests. Doing this enables you to optimize the efficiency of the system as well as to carry out maintenance work in good time and eliminate incorrect user behaviour. Ensuring proper functioning of the heating system and guaranteeing efficient system operation has never been easier.

Flue gas analysis

Problem: Adjustment of the burner so that it complies with legal requirements and is energy-saving.



Solution: Measure flue gas losses and emission values (CO, CO₂) and, if necessary, determine the need for maintenance work.

Recommendation: testo 300, testo 330i

Alternative: testo 320 basic

	Page
Flue gas analyzer testo 300	39/40
Flue gas analyzer testo 330i	39/41
Flue gas analyzer testo 310	39/40
Differential pressure measuring instrument testo 510	42
Differential pressure measuring instrument with smartphone operation testo 510i	42
Heating kit Testo Smart Probes	38
Pressure and leakage tester testo 324	52
Pressure measuring instrument testo 312-4	50
High-pressure gauge with Smartphone operation testo 549i	43

Flow/nozzle pressure

Problem: Adjustment of flow and nozzle pressures in accordance with the manufacturer's specifications.



Solution: Measurement and adjustment of the corresponding pressures.

Recommendation: testo 510/510i, testo Smart Probes heating kit
Alternative: testo 300, testo 330i (with accessory pressure connection kit)

Tightness test

Problem: Inspection of gas pipes in accordance with legal requirements.



Solution: Tightness test using certified measuring instrument and digital documentation of the results as reliable evidence.

Recommendation: testo 324
Alternative: testo 312-4

Hydraulic balancing

Problem: The burner is working, but the radiators are not heating up properly.



Solution: Measurement of the difference between flow and return temperature in preparation for hydraulic balancing.

Spot measurement: testo 320, testo 300 with differential temperature kit, testo Smart Probes heating kit, testo 115i, testo 922, testo 925

Long-term monitoring: testo 175 T3

Problem: Uneven heat distribution due to blockages and silting in the radiator.



Solution: Non-contact temperature measurement.

testo 865, testo 868, testo 830, testo Smart Probes heating kit, testo 805i, testo 810

If a heating system is not configured correctly, the heat escapes out of the window. It is also possible that the radiators further away in the circuit will not heat up the room properly. In this case, hydraulic balancing ensures that the right amount of water arrives at the right place at the right time. The key parameters for hydraulic balancing are the flow and return temperature and determination of the radiator's heat distribution.

Legionella

Problem: Reproduction of Legionella in hot water and air conditioning systems.

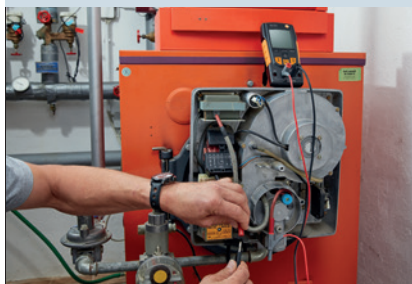


Solution: Regular monitoring of the water temperature and quality.

testo 104-IR, testo 106, testo 206, Mini penetration thermometer

Ionization current at the burner flame

Problem: Incorrect adjustments of the burner flame in the milliampere range lead to malfunctions.



Solution: Check the ionization current using a certified multimeter.

testo 760

	Page
Clamp thermometer with smartphone operation testo 115i	13
Temperature measuring instrument (2-channel) testo 922	15
Temperature data logger testo 175 T3	19
Thermal imager testo 865	20
Thermal imager testo 868	20
Infrared temperature measuring instrument testo 830	17
Infrared thermometer with smartphone operation testo 805i	16
Infrared temperature measuring instrument (2-channel) testo 810	16
Temperature measuring instrument (1-channel) testo 925	15
Temperature measuring instrument Mini penetration thermometer	12
Combined infrared/penetration thermometer testo 104-IR	12
Core temperature measuring instrument testo 106	13
pH/temperature measuring instrument testo 206	13
Digital multimeter testo 760	557

Efficient adjustment of refrigeration systems and heat pumps.

The power consumption of refrigeration and air conditioning systems is immense. If you can optimize your systems and check them regularly, you will save money. Testo can help make the commissioning and maintenance of refrigeration systems and heat pumps as convenient and accurate as possible for you, with digital manifolds and tailor-made apps. For trouble-free, efficient operation of your systems.

Problem: The refrigeration system is not functioning efficiently and needs to be adjusted.



Solution:

Complete service: Digital manifold with App testo 550i, testo 557
 Fast check: Hose-free examination using the testo Smart Probes refrigeration kit

	Page
Digital manifold testo 550	44
Digital manifold testo 557	44
AC & refrigeration test kit Testo Smart Probes	43
Electronic leak detector for refrigerant testo 316-3	46
Leakage detector kit for refrigerants testo 316-4	46
Temperature measuring instrument (1-channel) testo 110	14

Problem: Leaks in the refrigeration system.



Solution: Detect leaks.

testo 316-3, testo 316-4

Problem: Inefficient refrigeration system due to loss of power on the compressor.



Solution:
 Measure current consumption: testo 760-2, testo 770-3.

Quick troubleshooting:
 testo 750-3, testo 755-2, testo 745

Reliable monitoring of electrical installations.

Problem: Ensuring efficient system operation.



Solution: Measure the current and voltage in the control cabinet, on heat pump systems, compressors and air conditioning systems.

testo 750, testo 755, testo 760, testo 770

Problem: System failures and increased fire risk due to superheating.



Solution: Electrical maintenance with a thermal imager.

testo 865, testo 872, testo 875i

Increased temperatures in electrical systems can indicate an overload, an imminent malfunction or an existing defect. With a smart thermal imager or a pyrometer from Testo, you can detect temperature increases in low, medium and high-voltage systems quickly, reliably and accurately. Infrared measuring technology helps you to detect faulty components or connections at an early stage, so that you can initiate specific preventive measures. This minimizes the fire risk and prevents costly system failures.

Mechanical maintenance.

Problem: Failure of systems due to mechanical wear.



Solution: Early detection of wear via non-contact determination of the increase in temperatures in components.

testo 835, testo 865, testo 875i, testo 872



	Page
Voltage tester testo 750	54
Current/voltage tester testo 755	54
Digital multimeter testo 760	55
Clamp meter testo 770	55
Infrared thermometer testo 835	18
Thermal imager testo 865	20
Thermal imager testo 872	21
Thermal imager testo 875i	22

Locating thermal bridges and weak spots in buildings.

With a smart thermal imager or a pyrometer from Testo, you can detect anomalies and damage to building shells or indoor areas quickly, safely and intuitively. Materials and components are tested without any contact and non-intrusively, via an imaging procedure or on the basis of temperature values. This allows you to locate energy losses, thermal bridges and leaks quickly and easily without having to expose large areas of piping and pipe systems as is the case with other methods.

Problem: Energy losses in the heating and air conditioning of buildings.



Solution: Thermographic visualization of the entire building shell using a thermal imager.

testo 872, testo 875i, testo 885

Problem: Suspected structural defects or age-related damage to the building shell.



Solution: Determine the energy losses using thermography.

testo 865, testo 868, testo 872, testo 875i

	Page
Thermal imager testo 872	21
Thermal imager testo 875i	22
Thermal imager testo 865	20
Thermal imager testo 868	20
Thermal imager testo 871	20
Thermal imager testo 885	23
Humidity/temperature measuring instrument testo 635 U-value kit	25

Problem: heat insulating capacity of a building is unknown.



Solution: Simple measurement of the U-value provides information about the insulation characteristics.

testo 635 U-value kit

Problem: Detecting thermal bridges in indoor areas.



Solution: Non-contact temperature measurement.

testo 865, testo 868, testo 872, testo 875i

Reliable detection of damp and mould.

Problem: Determining the cause of mould in residential buildings.



Solution: Visualization and localization of leaks, damp spots and design-related mould risk.

testo 835, testo 868, testo 871, testo 872, testo 875i

Problem: formation of mould due to improper ventilation.



Solution: Recording the ventilation behaviour.

testo 176 H1, testo 176 H2

Incorrect ventilation, building defects, age-related damage to the building shell, trace humidity in building materials or incomplete drying - there can be many causes of damp spots and mould. Testo offers you a whole range of smart instruments which can help you investigate the causes of mould and damp spots quickly, accurately and non-destructively. With thermal imagers, data loggers and humidity measuring instruments from Testo, you can also identify areas that are potentially at risk of mould early enough to be able to initiate counter-measures in good time. This saves you from having to undertake expensive and time-consuming renovation work.

Material moisture and drying

Problem: Evaluation of drying processes (e.g. screed).



Solution: Fast and non-destructive measurement of material moisture.

testo 606, testo 616, testo 635

Problem: Assessment of material moisture (e.g. of wood).



Solution: Fast and non-destructive measurement of material moisture.

testo 606, testo 616, testo 635

	Page
Data logger temperature and humidity testo 176 H1/H2	26
Wood/material moisture measuring instrument testo 606	24
Material moisture measuring instrument testo 616	24
Humidity/temperature measuring instrument testo 635	25

Mini penetration thermometer

- Easy-to-read display
- Battery level display
- Quick, easy battery replacement
- Protective tube as a holder

Measuring range	-50 to +250 °C
Accuracy ±1 digit	±1 °C (-10 to +99.9 °C) ±2% of m.v. (+100 to +199.9 °C) ±3% of m.v. (+200 to +250 °C)
Resolution	0.1 °C (-19.9 to +199.9 °C) ±1 °C (remaining meas. range)

Mini penetration thermometer with extended probe tube

Up to 250 °C, length 213 mm, with protective case for the probe tube, easy-to-read display, includes batteries and calibration protocol



Order no. 0560 1111

Combined infrared and penetration thermometer **testo 104-IR**

- One product, two purposes: Infrared and penetration thermometer
- Fits into any pocket thanks to folding mechanism
- Precise 2-point laser with 10:1 optics
- Watertight (IP65)

Sensor	NTC	Infrared
Measuring range	-50 to +250 °C	-30 to +250 °C
Accuracy ±1 digit	±1 °C (-50.0 to -30.1 °C) ±0.5 °C (-30.0 to +99.9 °C) ±1% of m.v. (remaining meas. range)	±2.5 °C (-30.0 to -20.1 °C) ±2.0 °C (-20.0 to -0.1 °C) ±1.5 °C or ±1.5% of m.v. (remaining meas. range)
Resolution	0.1 °C	0.1 °C
Measuring cycle	-	0.5 s

testo 104-IR

Infrared penetration thermometer, waterproof, folding, includes batteries and calibration protocol



Order no. 0560 1040

Temperature measuring instrument **testo 108**

- Easy to operate and handle
- Waterproof instrument and probe (IP67)
- EN-13485-compliant
- Can be used universally

Measuring range	-50 to +300 °C
Instrument accuracy (Ambient temperature +23 °C ±3 °C)	±0.5 °C (-30 to +70 °C) ±0.5 °C ±0.5% of m.v. (remaining meas. range)
Probe accuracy	±0.5 °C (-40 to -20 °C) ±0.2 °C (-20 to +70 °C) ±0.5 °C (+70 to +125 °C) ±0.4% of m.v. (+125 to +300 °C)
Resolution	0.1 °C

testo 108-2

Watertight temperature measuring instrument (type T) including lockable thermocouple probe type T, softcase, batteries and calibration protocol



Order no. 0563 1082

Accessories for testo 108

Standard TC penetration probe type T for testo 108-2	Order no. 0602 1081
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Temperature measuring instrument **testo 106**

- TopSafe: dishwasher-safe protective case (IP 67) protects from dirt and impacts
- Small, handy and always ready to hand
- Audible and visual alarm
- Certified in accordance with EN 13485 (only in conjunction with TopSafe)

Measuring range	-50 to +275 °C
Accuracy ±1 digit	±1% of m.v. (+100 to +275 °C) ±0.5 °C (-30 to +99.9 °C) ±1 °C (-50 to -30.1 °C)
Resolution	0.1 °C

Clamp thermometer with smartphone operation **testo 115i**

- Compact professional measuring instrument for use with smartphones and tablets
- Measurement of flow and return temperature in heating systems
- Temperature measurement on refrigeration systems to calculate superheating and subcooling
- Measurement data analyzed and sent via App

Measuring range	-40 to +150 °C
Accuracy ±1 digit	±1.3 °C (-20 to +85 °C)
Resolution	0.1 °C
Compatibility	Requires iOS 8.3 or later Android 4.3 or later requires mobile terminal device with Bluetooth 4.0

pH/temperature measuring instrument **testo 206**

- Ideal for use in liquids and semi-solid media (e.g. in the food industry)
- Built-in temperature probe
- Maintenance-free gel electrolyte
- Robust, waterproof and dishwasher-safe protective case (TopSafe, protection class IP68)

Sensor	pH	°C
Measuring range	0 to 14 pH	0 to 60 °C (briefly up to +80 °C, max. 5 min)
Accuracy ±1 digit	±0.02 pH	±0.4 °C
Resolution	0.01 pH	0.1 °C

testo 106 kit

Food core thermometer, includes TopSafe (waterproof protective case, IP67), attachment clip, protective probe cap, batteries and calibration protocol

Order no. 0563 1063



Accessories for testo 106

	Order no.
TopSafe, watertight and dishwasher-safe protective case (IP67)	0516 8265
Attachment clip with protective probe cap	0554 0825

testo 115i

Clamp thermometer with smartphone operation, for measurements on pipelines with diameters of 6 to maximum 35 mm, includes batteries and calibration protocol

Order no. 0560 1115



testo Smart Probes App

The App turns your smartphone or tablet into the display of the testo 115i. The measuring instrument is operated and the measurement values displayed via Bluetooth via the Testo Smart Probes App on your smartphone or tablet – independently of the measuring location. In addition to this, 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.

testo 206-pH1

One-hand pH/°C measuring instrument, protection class IP68, includes storage cap with gel, TopSafe and belt/wall bracket

Order no. 0563 2061



Temperature measuring instrument (1-channel)

testo 110

- Wireless measurement with radio probes possible
- TopSafe, the indestructible protective case, protects from dirt and impacts (with TopSafe and connected probe: IP65)
- Audible alarm (limit values adjustable)
- Certified in accordance with EN 13485

testo 110

1-channel NTC temperature measuring instrument, optional radio probe can be connected, audible alarm, includes calibration protocol and batteries



Order no. 0560 1108

Measuring range	-50 to +150 °C
Accuracy ±1 digit	±0.2 °C (-20 to +80 °C) ±0.3 °C (remaining meas. range)
Resolution	0.1 °C

Probe type	Dimensions Probe shaft/probe shaft tip	Measuring range	Accuracy	t ₉₉	Order no.
Air probe					
Precise, robust NTC air probe, fixed cable 1.2 m		-50 to +125 °C ²⁾	±0.2 °C (-25 to +80 °C) ±0.4 °C (remaining meas. range)	60 s	0613 1712
Surface probe					
Watertight NTC surface probe for flat surfaces, fixed cable 1.2 m		-50 to +150 °C ²⁾	±0.5% of m.v. (+100 to +150 °C) ±0.2 °C (-25 to +74.9 °C) ±0.4 °C (remaining meas. range)	35 s	0613 1912
Pipe wrap probe with Velcro tape for pipe diameters up to max. 75 mm, T _{max} +75 °C, NTC, fixed cable 1.5 m		-50 to +70 °C ²⁾	±0.2 °C (-25 to +70 °C) ±0.4 °C (-50 to -25.1 °C)	60 s	0613 4611
Immersion/penetration probes					
Watertight NTC immersion/penetration probe, fixed cable 1.2 m		-50 to +150 °C	±0.5% of m.v. (+100 to +150 °C) ±0.2 °C (-25 to +74.9 °C) ±0.4 °C (remaining meas. range)	10 s	0613 1212

The measuring instrument with this probe is waterproof in the TopSafe.

²⁾ Long-term measuring range to +125 °C, briefly to +150 °C or +140 °C (2 minutes)

Radio handles including probe head for air/immersion/penetration measurement

Order no.

Radio handle for plug-in probe heads, including TC adapter, approval for the countries DE, FR, UK, BE, NL, ES, IT, SE, AT, DK, FI, HU, CZ, PL, GR, CH, PT, SI, MT, CY, SK, LU, EE, LT, IE, LV, NO; radio frequency 869.85 MHz FSK	0554 0189			
TC probe head for air/immersion/penetration measurement (TC type K)	0602 0293			
Radio handle for plug-in probe heads, including TC adapter, approval for USA, CA, CL; radio frequency 915.00 MHz FSK	0554 0191			
TC probe head for air/immersion/penetration measurement (TC type K)	0602 0293			
Dimensions Probe shaft/probe shaft tip	Measuring range	Accuracy	Resolution	t₉₉
	-50 to +350 °C briefly up to +500 °C	Radio handle: ±(0.5 °C +0.3% of m.v.) (-40 to +500 °C) ±(0.7 °C +0.5% of m.v.) (remaining meas. range) TC probe head: Class 2	0.1 °C (-50 to +199.9 °C) ±1.0 °C (remaining meas. range)	10 s (in water)

Radio handles including probe head for surface measurement

Order no.

Radio handle for plug-in probe heads, including TC adapter, approval for the countries DE, FR, UK, BE, NL, ES, IT, SE, AT, DK, FI, HU, CZ, PL, GR, CH, PT, SI, MT, CY, SK, LU, EE, LT, IE, LV, NO; radio frequency 869.85 MHz FSK	0554 0189			
TC probe head for surface measurement (TC type K)	0602 0394			
Radio handle for plug-in probe heads, including TC adapter, approval for USA, CA, CL; radio frequency 915.00 MHz FSK	0554 0191			
TC probe head for surface measurement (TC type K)	0602 0394			
Dimensions Probe shaft/probe shaft tip	Measuring range	Accuracy	Resolution	t₉₉
	-50 to +350 °C briefly up to +500 °C	Radio handle: ±(0.5 °C +0.3% of m.v.) (-40 to +500 °C) ±(0.7 °C +0.5% of m.v.) (remaining meas. range) TC probe head: Class 2	0.1 °C (-50 to +199.9 °C) ±1.0 °C (remaining meas. range)	5 s

Temperature measuring instruments **testo 925** and **testo 922**

- Ideal for application in heating, air conditioning and ventilation areas
- With optional radio probes
- Display of differential temperature (testo 922)

Measuring range	-50 to +1000 °C
Accuracy ±1 digit	±(0.5 °C +0.3% of m.v.) (-40 to +900 °C) ±(0.7 °C +0.5% of m.v.) (remaining meas. range)
Resolution	0.1 °C (-50 to +199.9 °C) ±1 °C (remaining meas. range)

testo 925

1-channel temperature measuring instrument TC type K, audible alarm, an optional connectible radio probe, includes calibration protocol and batteries

Order no. 0560 9250

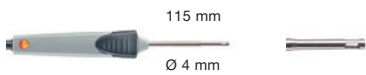
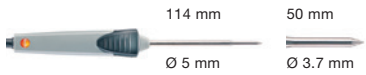
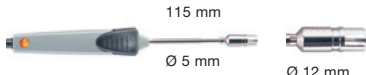




testo 922

2-channel temperature measuring instrument TC type K, an optional connectible radio probe, includes calibration protocol and batteries

Order no. 0560 9221



Probes	Dimensions Probe shaft/probe shaft tip	Measuring range	Accuracy	t ₉₉	Order no.
Robust air probe, TC type K, fixed cable 1.2 m		-60 to +400 °C	Class 2 ¹⁾	25 s	0602 1793
◆ Waterproof immersion/penetration probe, TC type K, fixed cable 1.2 m		-60 to +400 °C	Class 2 ¹⁾	7 s	0602 1293
Super quick-action surface probe with sprung thermocouple strip, also suitable for non-plane surfaces, TC type K, fixed cable 1.2 m		-60 to +300 °C Short-term measuring range up to +500 °C	Class 2 ¹⁾	3 s	0602 0393
Pipe wrap probe for pipe diameters 5 to 65 mm, with interchangeable measuring head, TC type K, fixed cable 1.2 m		-60 to +130 °C Short-term measuring range up to +280 °C	Class 2 ¹⁾	5 s	0602 4592
Clamp probe for measurements on pipes, pipe diameters 15 to 25 mm (max. 1"), TC type K, fixed cable 1.2 m		-50 to +100 °C Short-term measuring range up to +130 °C	Class 2 ¹⁾	5 s	0602 4692

◆ The measuring instrument with this probe is waterproof in the TopSafe.

1) According to standard EN 60584-2, the accuracy of Class 1 refers to -40 to +1000 °C (type K), Class 2 to -40 to +1200 °C (type K), Class 3 to -200 to +40 °C (type K). A probe only ever complies with one accuracy class.

Infrared thermometer with smartphone operation **testo 805i**

- Compact professional measuring instrument for use with smartphones and tablets
- Non-contact IR measurement of surface temperature
- Easy image documentation including reading and measurement spot marking
- Measurement data analyzed and sent via App
- Measurement spot marking via easy-to-see 8-point laser circle

Measuring range	-30 to +250 °C
Accuracy ±1 digit	±1.5 °C or ±1.5% of m.v. (0 to +250 °C) ±2.0 °C (-20 to -0.1 °C) ±2.5 °C (-30 to -20.1 °C)
Resolution	0.1 °C

testo 805i

Infrared thermometer with smartphone operation, includes batteries and calibration protocol

Order no. 0560 1805





testo Smart Probes App

The App turns your smartphone or tablet into the display of the testo 805i. The measuring instrument is operated and the measurement values displayed via Bluetooth via the Testo Smart Probes App on your smartphone or tablet – independently of the measuring location. In addition to this, 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.

Infrared temperature measuring instrument (2-channel) **testo 810**

- Handy pocket-sized combined instrument, for non-contact measurement of the surface temperature and measuring the air temperature
- 1-point laser measurement spot marking and 6:1 optics
- Hold function, display of maximum and minimum values and the difference between air and surface temperatures

testo 810

2-channel temperature measuring instrument with infrared thermometer, laser marking, built-in NTC air thermometer, includes protective cap, calibration protocol, belt pouch and batteries

Order no. 0560 0810



	Infrared	NTC
Measuring range	-30 to +300 °C	-10 to +50 °C
Accuracy ± 1 digit	±2.0 °C (-30 to +100 °C) ±2% of m.v. (remaining meas. range)	±0.5 °C
Measurement rate	0.5 s	0.5 s
Resolution	0.1 °C	0.1 °C

Infrared temperature measuring instrument testo 826

- Non-contact measurement of the surface temperature, ideal for the food industry
- 6:1 optics for fast, accurate measurements
- 1-point laser marking
- Combined instrument with infrared measurement and penetration measurement
- Two adjustable alarm limit values
- Watertight and robust thanks to dishwasher-safe TopSafe protective case in accordance with protection class IP65
- Hold function and display of maximum and minimum values

Sensor types	Infrared	NTC (testo 826-T4)
Measuring range	-50 to +300 °C	-50 to +230 °C
Accuracy ±1 digit	±1.5 °C (-20 to +100 °C) ±2 °C or 2% of m.v. (remaining meas. range)	±0.5 °C (-20 to +99.9 °C) ±1 °C or 1% of m.v. (remaining meas. range)
Resolution	0.1 °C	0.1 °C
Spectral range	8 to 14 µm	
Measurement rate	0.5 s	1.25 s

testo 826-T4

Infrared thermometer with penetration probe, 1-point laser marking, alarm function, includes TopSafe, wall/belt bracket, protective probe cap and frozen produce pre-driller

Order no. 0563 8284



Infrared temperature measuring instruments testo 830

- Laser marking and large lenses for accurate measurement, even at long distances
- Adjustable emission factor
- Two adjustable alarm limit values
- Hold function and display of maximum and minimum values

	testo 830-T1	testo 830-T4
Measuring range		
Infrared	-30 to +400 °C	-30 to +400 °C
Type K (NiCr-Ni)	-	-50 to +500 °C
Accuracy ±1 digit		
Infrared	±1.5 °C or 1.5% of m.v. (+0.1 to +400 °C) ±2 °C or ±2% of m.v. (-30 to 0 °C) the higher value applies	±1.5 °C (-20 to 0 °C) ±2 °C (-30 to -20.1 °C) ±1 °C or 1% of m.v. (remaining meas. range)
Type K (NiCr-Ni)	-	±0.5 °C + 0.5% of m.v.
Resolution	0.1 °C	0.1 °C

testo 830-T1

Infrared thermometer, 1-point laser marking, 10:1 optics, adjustable limit values, alarm function, includes batteries and factory calibration certificate

Order no. 0560 8311



testo 830-T4

Infrared thermometer, 2-point laser marking, 30:1 optics, adjustable limit values, alarm function, external probe can be connected, includes batteries and factory calibration certificate

Order no. 0560 8314



Probe for testo 830; see probes for testo 925/testo 922 on page 15.

Infrared thermometer testo 835

- Measure even at high temperatures
- 4-point laser displays the exact measuring range
- 50:1 optics enables reliable measurements from a long distance
- Integrated emissivity measurement
- Memory and data analysis on the PC with free “EasyClimate” PC software
- External temperature probes can be connected



External probe for testo 835; see probes for testo 925/ testo 922 on page 15.

testo 835-T1

Infrared temperature measuring instrument, 4-point laser marking, measurement data management, includes PC software for free download, batteries and calibration protocol

Order no. 0560 8351



testo 835-T2

Infrared high-temperature measuring instrument, 4-point laser marking, measurement data management, includes PC software for free download, batteries and calibration protocol

Order no. 0560 8352



	testo 835-T1	testo 835-T2
Sensor type infrared		
Optics	50:1 (typical for distance of 2.0 m to measurement object) + aperture diameter of sensor (24 mm)	
Measurement spot marking	4-point laser	
Spectral range	8 to 14 μ m	
Measuring range	-30 to +600 °C	-10 to +1500 °C
Accuracy ± 1 digit	± 2.5 °C (-30.0 to -20.1 °C) ± 1.5 °C (-20.0 to -0.1 °C) ± 1.0 °C (+0.0 to +99.9 °C) $\pm 1\%$ of m.v. (remaining meas. range)	± 2.0 °C or $\pm 1\%$ of m.v.
Resolution	0.1 °C	0.1 °C (-10.0 to +999.9 °C) 1 °C (+1000.0 to +1500.0 °C)
Sensor Type K (NiCr-Ni)		
Measuring range	-50 to +600 °C	-50 to +1000 °C
Accuracy ± 1 digit	$\pm (-0.5$ °C +0.5% of m.v.)	
Resolution	0.1 °C	

Temperature data logger

testo 175 T3

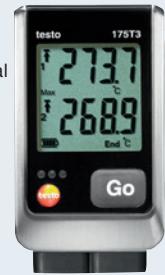
- Large, easy-to-read display
- Measurement data memory for 1 million readings
- Up to 3 years of battery life
- Data transfer via USB cable or SD card
- Two external sensor connections type T and type K

	Type T (Cu-CuNi)	Type K (NiCr-Ni)
Measuring range	-50 to +400 °C	-50 to +1000 °C
Accuracy ±1 digit	±0.5 °C (-50 to +70 °C) ±0.7% of m.v. (+70.1 to +1000 °C)	
Resolution	0.1 °C	

testo 175 T3

2-channel temperature data logger with external sensor connections (TC type T and type K) including wall bracket, lock, batteries and calibration protocol

Order no. 0572 1753



Probe type	Dimensions Probe shaft/probe shaft tip	Measuring range	Accuracy	t ₉₉	Order no.
Magnetic probe, adhesive power approx. 20 N, with magnets, for measurements on metal surfaces, TC type K, fixed cable	35 mm Ø 20 mm	-50 to +170 °C	Class 2 ¹⁾	150 s	0602 4792
Pipe wrap probe for pipe diameter 5 to 65 mm, with interchangeable measuring head, TC type K, fixed cable 1.2 m		-60 to +130 °C Short-term measuring range up to +280 °C	Class 2 ¹⁾	5 s	0602 4592
Clamp probe for measurements on pipes, pipe diameters 15 to 25 mm (max. 1"), TC type K, fixed cable		-50 to +100 °C Short-term measuring range up to +130 °C	Class 2 ¹⁾	5 s	0602 4692

1) According to standard EN 60584-2, the accuracy of Class 1 refers to -40 to +1000 °C (type K), Class 2 to -40 to +1200 °C (type K), Class 3 to -200 to +40 °C (type K).
2) According to standard EN 60584-2, the accuracy of Class 1 refers to -40 to +350 °C (type T).

USB data logger

Temperature **testo 184**

- Clear alarm indication
- Very easy to operate
- Very easy configuration with no software installation
- Convenient readout thanks to automatic PDF report
- Mobiles readout possible via NFC
- IT-safe (no installation, no download)

Measuring range	-35 to +70 °C
Accuracy	±0.5 °C
Resolution	0.1 °C

testo 184 T3

Unlimited operating time thanks to exchangeable battery

Available in packs of 1, 10 and 50 off

Order no. 0572 1843



Accessories for testo 184 T3

Order no.

Mobile printer for data loggers testo 175/176/184	0572 0576
ComSoft Professional, professional software, including data archiving	0554 1704
Wall bracket for testo 184	0554 1841
Lithium battery CR2450, 3 V	0515 5841

Thermal imager testo 865

- Infrared resolution 160 x 120 pixels (with testo SuperResolution technology 320 x 240 pixels)
- Automatic detection of hot and cold spots
- testo ScaleAssist for comparable thermal images in building thermography
- IFOV warmer

testo 865

With USB cable, mains unit, Lithium ion rechargeable battery, professional software, commissioning instructions, short instructions, calibration protocol and case



Order no. 0560 8650

Infrared resolution	160 x 120 pixels
Thermal sensitivity (NETD)	120 mK
Field of view/min. focusing distance	31° x 23° / < 0.5 m
Geometric resolution (IFOV)	3.4 mrad
testo SuperResolution (pixels/IFOV)	320 x 240 pixels / 2.1 mrad
Focus	Fixed focus

Thermal imager testo 868

- Infrared resolution 160 x 120 pixels (with testo SuperResolution technology 320 x 240 pixels)
- With connection to the testo Thermography App
- Integrated digital camera
- Automatic detection of hot and cold spots
- testo ScaleAssist for comparable thermal images in building thermography
- testo ε-Assist for the automatic determination of emissivity

testo 868

With radio module for WLAN, includes USB cable, mains unit, lithium-ion rechargeable battery, professional software, 3 x testo ε-Markers, commissioning instructions, short instructions, calibration protocol and case



Order no. 0560 8681

Infrared resolution	160 x 120 pixels
Thermal sensitivity (NETD)	100 mK
Field of view/min. focusing distance	31° x 23° / < 0.5 m
Geometric resolution (IFOV)	3.4 mrad
testo SuperResolution (pixels/IFOV)	320 x 240 pixels / 2.1 mrad
Focus	Fixed focus

Thermal imager testo 871

- Infrared resolution 240 x 180 pixels (with testo SuperResolution technology 480 x 360 pixels)
- Thermal sensitivity 90 mK
- Integrated digital camera
- With connection to the testo Thermography App
- Wireless measurement data transfer from testo 770-3 clamp meter and testo 605i humidity measuring instrument
- With testo ScaleAssist and testo ε-Assist

testo 871

With BT/wireless LAN module, USB cable, mains unit, Lithium ion rechargeable battery, professional software, 3 x testo ε-markers, commissioning instructions, short instructions, calibration protocol and case



Order no. 0560 8712

Infrared resolution	240 x 180 pixels
Thermal sensitivity (NETD)	90 mK
Field of view/min. focusing distance	35° x 26° / < 0.5 m
Geometric resolution (IFOV)	2.6 mrad
testo SuperResolution (pixels/IFOV)	480 x 360 pixels / 1.6 mrad
Focus	Fixed focus

Thermal imager

testo 872

- Infrared resolution 320 x 240 pixels (with testo SuperResolution technology 640 x 480 pixels)
- Thermal sensitivity 60 mK
- Integrated digital camera and laser marker
- With connection to the testo Thermography App
- Wireless measurement data transfer from testo 770-3 clamp meter and testo 605i humidity measuring instrument
- With testo ScaleAssist and testo ε-Assist

testo 872

With BT/wireless LAN module, USB cable, mains unit, Lithium ion rechargeable battery, professional software, 3 x testo ε-markers, commissioning instructions, short instructions, calibration protocol and case



Order no. 0560 8721

Infrared resolution	320 x 240 pixels
Thermal sensitivity (NETD)	60 mK
Field of view/min. focusing distance	42° x 30° / < 0.5 m
Geometric resolution (IFOV)	2.3 mrad
testo SuperResolution (pixels/IFOV)	640 x 480 pixels / 1.3 mrad
Focus	Fixed focus

Accessories for testo 865, testo 868, testo 871 and testo 872

Order no.

Spare battery: additional lithium-ion rechargeable battery for extending the operating time	0515 5107	
Battery charging station: Desktop charging station for optimizing the charge time	0554 1103	
testo ε-Marker (10 off): Markers for the testo ε-Assist function for automatic determination of the emissivity and the reflected temperature (not for testo 865)	0554 0872	
Holster case	0554 7808	

testo Thermography App



With the testo Thermography App, your smartphone or tablet becomes a second display, and a remote control for your thermal imager. In addition to this, you can use the App to create and send compact reports on site, and to save them online. Download for Android or iOS now free of charge.



Thermal imager

testo 875i

- Thermal imager for complete building analysis
- Exchangeable lenses
- Measuring mode for detecting areas at risk of mould
- Connectible radio humidity probe (optional)
- Laser marker

The testo 875i thermal imager detects anomalies and weak spots in materials and components quickly and reliably.

Its 50 mK thermal resolution and exchangeable lenses also make it ideal for analyzing complete building façades.

	testo 875-1i	testo 875-2i
Infrared resolution	160 x 120 pixels	
Thermal sensitivity (NETD)	< 50 mK at +30 °C	
Field of view/min. focusing distance	32° x 23° / 0.1 m (standard lens)	32° x 23° / 0.1 m (Telephoto: 9° x 7° / 0.5 m)
Geometric resolution (IFOV)	3.3 mrad (Standard lens)	3.3 mrad (Telephoto: 1.0 mrad)
SuperResolution (Pixel/IFOV)	320 x 240 pixels / 2.1 mrad (Standard lens)	320 x 240 pixels / 2.1 mrad (Telephoto: 0.6 mrad)
Focus	Manual	
Measuring range	-30 to +100 °C / 0 to +350 °C (switchable)	
Accuracy	±2 °C, ±2% of m.v. (±3 °C of m.v. at -30 to -22 °C)	

testo 875-1i

With integrated testo SuperResolution and digital camera, in a robust case, includes professional software, softcase, carrying strap, SD card, USB cable, lens cleaning cloth, mains unit, Li-ion rechargeable battery and tripod adapter

Order no. 0563 0875 V1



testo 875-2i

With integrated Testo SuperResolution and digital camera, in a robust case includes professional software, softcase, carrying strap, SD card, USB cable, lens cleaning cloth, mains unit, Li-ion rechargeable battery, tripod adapter and headset

Order no. 0563 0875 V2



testo 875-2i kit

With integrated testo Super-Resolution and digital camera, in a robust case, includes professional software, softcase, carrying strap, SD card, USB cable, lens cleaning cloth, mains unit, rechargeable Li-ion battery, tripod adapter, headset, 9° x 7° telephoto lens, lens protection glass, spare rechargeable battery and quick charging station

Order no. 0563 0875 V3



Accessories for testo 875i

	Code ¹⁾ (Initial equipment testo 875i)	Order no. (Retro-fit)
Quick charging station: Desktop quick charging station for two rechargeable batteries for optimizing the charging time	E1	0554 8801
Spare battery: additional lithium-ion rechargeable battery for extending the operating time	D1	0554 8802
Humidity measurement with radio humidity probe (testo 875-2i only)	B1	^{2) 3)}

¹⁾ When ordering as initial equipment, you get the accessories already in the case. Example: testo 875-1i including lens protection glass and spare battery: Order no. 0563 0875 V1 C1 D1

²⁾ Please contact our customer service.

³⁾ Plus installation

Thermal imager

testo 885

- Thermal imager for the toughest requirements
- Exchangeable lenses
- Parallax-free laser
- Panorama image assistant for large images
- Swivel and hinged display for top ergonomics

The thermal imager testo 885 is the professional measuring instrument for accurate and non-contact detection of anomalies and weak spots in materials and components. The high quality infrared measurement system allows even the smallest of energy losses and thermal bridges to be visualized. The camera is operated intuitively and features a rotary handle, rotatable display and lots of helpful functions, such as the panorama image assistant or auto-focus. Not only does this enable you to carry out fast inspections on site, it also allows you to implement in-depth inspections with professional reports.

testo 885

In a robust case, includes professional software, SD card, USB cable, carrying strap, lens cleaning cloth, mains unit, Li ion rechargeable battery and headset



Order no. 0563 0885 V2

testo 885 kit

In a robust case, includes professional software, SD card, USB cable, carrying strap, lens cleaning cloth, mains unit, Li ion rechargeable battery, headset, telephoto lens, lens case, lens protection glass, spare rechargeable battery and quick charging station



Order no. 0563 0885 V3

Infrared resolution	320 x 240 pixels
Lens	Standard: 30° x 23°, 1.7 mrad Tele (optional): 9° x 7°, 1.0 mrad
Thermal sensitivity (NETD)	< 30 mK at +30 °C
Temperature range	-20 to +100 °C 0 to +350 °C (switchable)
Digital camera resolution	3.1 MP
Focus	Auto-focus and manual focus
Display	4.3" capacitive LCD touchscreen, swivelling and fold-out display

	Code ¹⁾ (First equipment)	Order no. (Retro-fit)
Accessories for testo 885		
testo SuperResolution: four times as many readings, for thermal images with even more detail	S1	0554 7806
Spare battery: additional lithium-ion rechargeable battery for extending the operating time	G1	0554 8852
Quick charging station: Desktop quick charging station for two rechargeable batteries for optimizing the charging time	H1	0554 8851
Humidity measurement with radio humidity probe	E1	^{2) 3)}
Process analysis package for image sequence capturing in the instrument and fully radiometric video measurement	V1	0554 8902

¹⁾ When ordering as initial equipment, you get the accessories already in the case. Example: testo 885-2 incl. lens protection glass and SuperResolution: Order no. 0563 0885 V1 F1 S1

²⁾ Please contact our customer service.

³⁾ Plus installation

Thermohygrometer testo 608-H2

- Continuous display of temperature and humidity/dew point
- Minimum and maximum values
- Battery monitor

Measuring range	-10 to +70 °C / -40 to +70 °Ctd / +2 to +98% RH
Accuracy ±1 digit	±0.5 °C (at +25 °C) / ±2% RH (+2 to +98% RH)
Resolution	0.1 °C / 0.1% RH

testo 608-H2

Alarm hygrometer, humidity/dewpoint/temperature measuring instrument with LED alarm, includes calibration protocol and battery



Order no. 0560 6082

Humidity/temperature measuring instrument testo 625

- Display of temperature and relative humidity, wet bulb temperature and dew point
- Minimum and maximum values
- Display illumination

Measuring range	0 to +100% RH / -10 to +60 °C
Accuracy ± 1 digit	±2.5% RH (+5 to +95% RH) / ±0.5 °C
Resolution	0.1% RH/0.1 °C

testo 625

Humidity/temperature measuring instrument, includes plug-in humidity probe head, calibration protocol and battery



Order no. 0563 6251

Wood/material moisture measuring instrument testo 606

- Precision measurement of wood and material moisture with penetration needles
- Display illumination
- Measurement of temperature and humidity in ambient air including dew point calculation and wet bulb

	Material moisture	NTC	Humidity sensor
Measuring range	0 to 50%	-10 to +50 °C	0 to 100% RH
Accuracy ± 1 digit	±1%	±0.5 °C	±2.5% RH (5 to 95% RH)
Resolution	0.1	0.1 °C	0.1% RH

testo 606-2

Handy wood and material moisture measuring instrument with built-in moisture measurement and NTC air thermometer, includes protective cap, calibration protocol, belt pouch and batteries



Order no. 0560 6062

Material moisture measuring instrument testo 616

- Precision measurement of moisture in building materials and wood
- Equipped with 10 characteristics
- Handy shape for optimal contact pressure

Measuring range wood:	< 50%
Measuring range building materials:	< 20%
Resolution	0.1

testo 616

Material moisture measuring instrument for non-destructive moisture measurement of wood and building materials, includes calibration protocol and battery



Order no. 0560 6160

Humidity/temperature measuring instrument

testo 635

- Connection of 2 plug-in probes and 3 radio probes for temperature and humidity
- Measurement of temperature, humidity, material equilibrium moisture content, pressure dew point, absolute pressure and U-value
- Print-out of data using the testo fast printer (optional)
- Protection class IP 54






testo 635-2

Humidity/temperature measuring instrument with reading memory, PC software, USB data cable, includes calibration protocol and batteries



Order no. 0563 6352

	Type K (NiCr-Ni)	NTC (humidity probe)	Testo humidity sensor	Absolute pressure probe
Measuring range	-200 to +1370 °C	-40 to +150 °C	0 to 100% RH	0 to 2000 hPa
Accuracy ±1 digit	±0.5 °C (-60 to +60 °C) ±(0.2 °C + 0.3% of m.v.) (remaining meas. range)	±0.2 °C (-25 to +74.9 °C) ±0.4 °C (-40 to -25.1 °C) ±0.4 °C (+75 to +99.9 °C) ±0.5% of m.v. (remaining meas. range)	See probe data	See probe data
Resolution	0.1 °C	0.1 °C	0.1% RH	0.1 hPa

Probes	Dimensions Probe shaft/probe shaft tip	Measuring range	Accuracy	t ₉₉	Order no.
Humidity/temperature probes	 Ø 12 mm	0 to 100% RH -20 to +70 °C	±2% RH (+2 to +98% RH) ±0.3 °C		0636 9735
Slim humidity probe with offset electronics, incl. 4 plug-on PTFE protective caps for material equilibrium moisture measurement	 60 mm Ø 4 mm	0 to 100% RH 0 to +40 °C	±2% RH (+2 to +98% RH) ±0.2 °C		0636 2135
Scatter field probe for fast and non-destructive material moisture measurement, with 1.2 m probe cable		Wood: < 50% Building materials: < 20%			0636 6160
Robust air probe, TC type K, fixed cable 1.2 m	 115 mm	-60 to +400 °C	Class 2 ¹⁾	25 s	0602 1793
Temperature probe for determining U-value, threefold sensor for recording wall temperature, incl. modelling clay		-20 to +70 °C	Class 1 ¹⁾ U-value: ±0.1 ±2% of m.v.*		0614 1635
		<p>Note: This probe only fits on testo 635-2. To determine the U-value, an additional probe is required to record the ambient temperature, e.g. 0602 1793 or 0613 1001/0613 1002. *for use with NTC or humidity radio probes for measuring ambient temperature and 20 K difference in air inside/outside</p>			

¹⁾ According to standard EN 60584-2, the accuracy of Class 1 refers to -40 to +1000 °C (type K), Class 2 to -40 to +1200 °C (type K), Class 3 to -200 to +40 °C (type K).

U-value measuring instrument

testo 635 U-value kit

- Easy attachment of the probes – even on difficult-to-access components
- Integrated memory and easy evaluation with PC software
- Proof of service thanks to report creation

testo 635 U-value kit

The kit consists of:

- testo 635-2 (order no. 0563 6352)
- Radio module (order no. 0554 0188)
- Radio handle for plug-in probe heads (order no. 0554 0189)
- Humidity probe head, plug-in (order no. 0636 9736)
- Temperature probe for determining the U-value, threefold sensor for recording wall temperature (order no. 0614 1635)
- Service case (order no. 0516 1035)



Order no. 0563 6353

Mini data logger for temperature and humidity

testo 175 H1

- Large, easy-to-read display
- Measurement data memory for 1 million readings
- Up to 3 years battery standby
- Permanently connected, external capacitive humidity sensor

Accessories for testo 175 H1	Order no.
ComSoft Basic, basic software for programming and reading out Testo data loggers; display of readings in graphic and tabular form, and export function (if free download requiring registration is not required)	0572 0580
ComSoft Professional, professional software, including data archiving	0554 1704

testo 175 H1

2-channel temperature and humidity data logger with external humidity sensor (NTC/capacitive humidity sensor) including wall bracket, lock, batteries and calibration protocol



Order no. 0572 1754

Measuring range	-20 to +55 °C -40 to +50 °C _{id} 0 to 100% RH*
Accuracy ±1 digit	±0.4 °C (-20 to +55 °C) +0.03% RH/K ±2% RH (2 to 98% RH) at +25 °C
Resolution	0.1 °C 0.1% RH

* Not for condensing atmospheres. For continuous application in high humidity (>80% RH at ≤ 30 °C for >12 h, >60% RH at > 30 °C for >12 h), please contact us via our website.

Data loggers for temperature and humidity

testo 176 H1 / testo 176 H2

- High level of data security
- For two external temperature/humidity probes
- Parallel measurement at two sites
- Measurement data memory for 2 million readings
- Up to 8 years of battery life
- Data transfer via USB cable and SD card

Measuring range	-20 to +70 °C 0 to 100% RH*
Accuracy ± 1 digit	±0.2 °C (-20 to +70 °C) ±0.4 °C (remaining meas. range) %RH: depends on the selected probe
Resolution	0.1 °C 0.1% RH

* Not for condensing atmospheres. For continuous application in high humidity (>80% RH at ≤ 30 °C for >12 h, >60% RH at > 30 °C for >12 h), please contact us via our website.

testo 176 H1

4-channel temperature and humidity data logger with external sensor connections (NTC/capacitive humidity sensor), includes wall bracket, lock, battery and calibration protocol



Order no. 0572 1765

testo 176 H2

4-channel temperature and humidity data logger in metal housing with external sensor connections (NTC/capacitive humidity sensor), includes wall bracket, lock, battery and calibration protocol



Order no. 0572 1766

Probes	Dimensions Probe shaft/probe shaft tip	Measuring range	Accuracy	Order no.
Wall surface temperature probe, e.g. for proof of structural damage in buildings, fixed cable, cable length 3 m		-50 to +80 °C	±0.2 °C (0 to +70 °C)	0628 7507
Humidity/temperature probe 12 mm		-20 to +70 °C 0 to 100% RH	±0.3 °C ±2% RH at +25 °C (2 to 98% RH) ±0.03% RH/K ±1 digit	0572 6172
External humidity/temperature probe 12 mm, plug-in, without cable		-30 to +50 °C 0 to 100% RH	±0.5 °C ±2% RH	0572 2151
Humidity/temperature probe 4 mm		0 to +40 °C 0 to 100% RH	±0.3 °C ±2% RH at +25 °C (2 to 98% RH) ±0.08% RH/K ± 1 digit	0572 6174

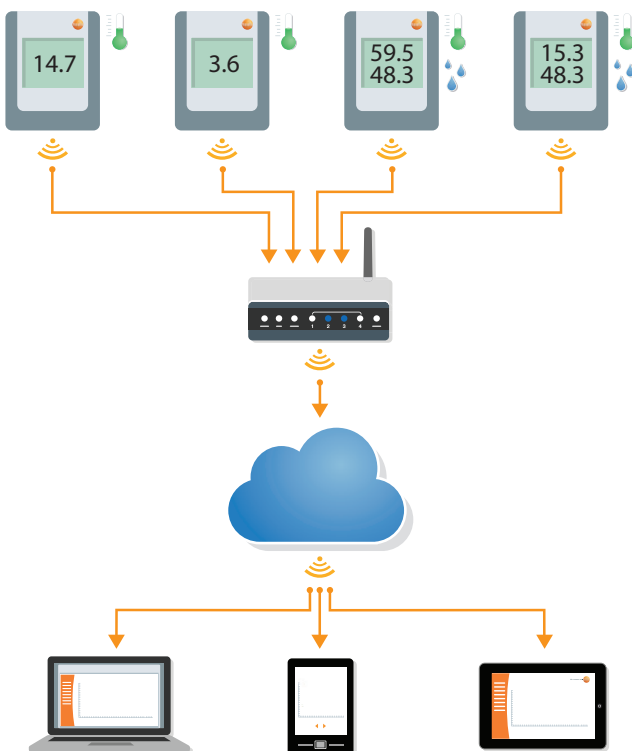
WiFi data logger system testo Saveris 2

- Data transfer by wireless LAN
- All measurement data always available, anywhere, on any instrument
- Alarms when limit values are violated
- With testo Saveris 2 App for easier configuration, push alarms and WiFi range analysis
- Free online data store (Testo Cloud)

The testo Saveris 2 WiFi data logger system is the modern solution for monitoring temperature and humidity values in storerooms and work rooms.

Installing the system is child's play, and can be carried out either via a browser, or with the testo Saveris 2 App. The WiFi data loggers reliably record temperature and humidity at adjustable intervals and transmit the readings to the Testo Cloud via wireless LAN.

The readings stored can be analyzed at any time, anywhere, using an internet-enabled smartphone, tablet or PC. Limit value violations are immediately reported by e-mail, optionally by SMS or via the testo Saveris 2 App as a push notification. This allows critical processes to be kept always under control, even if you are not on site.



testo Saveris 2-T1

WiFi data logger (wireless LAN) with display and internal NTC temperature sensor, includes USB cable, wall bracket, batteries and calibration protocol



Order no. 0572 2031

testo Saveris 2-T2

WiFi data logger (wireless LAN) with display for measuring temperature, two connections for external NTC temperature probes or door contacts, includes USB cable, wall bracket, batteries and calibration protocol



Order no. 0572 2032

testo Saveris 2-H1

WiFi data logger (wireless LAN) with display for measuring temperature and relative humidity, internal capacitive humidity sensor including USB cable, wall bracket, batteries and calibration protocol



Order no. 0572 2034

testo Saveris 2-H2

WiFi data logger (wireless LAN) with display for measuring temperature and relative humidity, connection for one external humidity probe, includes USB cable, wall bracket, batteries and calibration protocol



Order no. 0572 2035

Please note that in order to use the WiFi data logger system testo Saveris 2, a WiFi data logger, registration in the Testo Cloud (www.saveris.net) and a wireless LAN-capable network are absolutely necessary.



testo Saveris 2 App
 With the App for iOS and Android, you now operate the wireless LAN data logger system testo Saveris 2 even more easily and flexibly.

- More efficient commissioning*:
- Easy identification and selection of the WiFi network
 - Faster parallel commissioning of several loggers

- Easy network analysis*:
- Test the strength and range of your WiFi network
 - Create and send status reports

- Reliable alarm functions:
- Push notifications of limit value violations
 - Combinable with e-mail or SMS alarms

*These functions are available only in the Android version of the testo Saveris 2 App.

WiFi data loggers	testo Saveris 2-T1	testo Saveris 2-T2	testo Saveris 2-H1	testo Saveris 2-H2
Temperature measurement				
Sensor type	NTC internal	NTC	NTC internal	NTC
Measuring range	-30 to +50 °C	-50 to +150 °C	-30 to +50 °C	dependent on probe
Humidity measurement				
Measuring range	-		0 to 100% RH	dependent on probe
Communication				
WiFi (wireless LAN)	Signal transmission: wireless; frequency band: 2.4 GHz; supported wireless LAN standards: IEEE 802.11 b/g/n and IEEE 802.1X; Possible encryption methods: without encryption, WEP, WPA, WPA2, WPA2 Enterprise. The data loggers communicate via the standard protocol MQTT and are SNTP time synchronization-capable.			

Calibration certificates	Order no.
ISO temperature calibration certificate; temperature probe; calibration points -18 °C, 0 °C, +40 °C; per channel/instrument	0520 0153
DAkkS temperature calibration certificate; temperature probe; calibration points -18 °C, 0 °C, +40 °C; per channel/instrument	0520 0262
ISO humidity calibration certificate; calibration points 11.3% RH and 75.3% RH at +25 °C/ +77 °F; per channel/instrument	0520 0076
DAkks humidity calibration certificate; humidity probe; calibration points 11.3% RH and 75.3% RH at +25°C; per channel/instrument	0520 0246

testo Saveris 2 Cloud

The Testo Cloud is the core operating element for setting up your testo Saveris 2 system. Here you can configure your WiFi data loggers, set limit value alarms and analyze your measurement data. You must first register at www.saveris.net to get access to the Testo Cloud.



Depending on the required range of functions, you have a choice between the free Basic and more extensive Advanced functionality when using the Testo Cloud. In both packages, you have access to an API interface, in order to export measurement data to your systems.

	Basic	Advanced		
Measuring cycle	15 min (fixed)	1 min to 24 h (flexible)		
Communication cycle	15 min (fixed)	1 min to 24 h (flexible)		
Data storage	Max. 3 months	Max. 2 years		
Reports	Manual (.pdf/.csv)	Manual (.pdf/.csv) Automatic (.pdf/.csv)		
Data analysis	For one measurement channel in each case	For up to 10 measurement channels simultaneously		
Number of users per account	1	10		
Number of WiFi data loggers per account	unlimited	unlimited		
Alarm options	Upper/lower alarm limits	<ul style="list-style-type: none"> • Upper/lower alarm limits • Alarm delay • Time control of alarms 		
System notifications	<ul style="list-style-type: none"> • Notification of low battery • Radio link interrupted • Power supply interrupted 	<ul style="list-style-type: none"> • Notification of low battery • Radio link interrupted • Power supply interrupted 		
E-mail alerts	Yes	Yes		
SMS alerts	None	<ul style="list-style-type: none"> • Including 25 SMS per logger and year • Option of purchasing additional SMS packages 		
		12-month licence Order no. 0526 0735	24-month licence Order no. 0526 0732	36-month licence Order no. 0526 0733

Temperature probes for testo Saveris 2-T2


Probe type	Dimensions Probe shaft/probe shaft tip	Measuring range	Accuracy	t ₉₉	Order no.
Stump probe, IP 54	 35 mm Ø 3 mm	-20 to +70 °C	±0.2 °C (-20 to +40 °C) ±0.4 °C (+40.1 to +70 °C)	15 s	0628 7510
Stationary probe with aluminium sleeve, IP 65, fixed cable, cable length 2.4 m	 40 mm/Ø 6 mm	-30 to +90 °C	±0.2 °C (0 to +70 °C) ±0.5 °C (remaining meas. range)	190 s	0628 7503
Accurate immersion/penetration probe, cable length 6 m, IP 67, fixed cable	 40 mm/Ø 3 mm	-35 to +80 °C	±0.2 °C (-25 to +74.9 °C) ±0.4 °C (remaining meas. range)	5 s	0610 1725
Probe for surface measurement, fixed cable, cable length 2 m	 40 mm/8 x 8 mm	-50 to +80 °C	±0.2 °C (0 to +70 °C)	150 s	0628 7516
Penetration probe NTC with ribbon cable, cable length 2 m, IP 54, fixed cable	 60 mm 30 mm Ø 5 mm Ø 3.6 mm	-40 to +125 °C	±0.5% of m.v. (+100 to +125 °C) ±0.2 °C (-25 to +80 °C) ±0.4 °C (remaining meas. range)	8 s	0572 1001
External temperature probe 12 mm, plug-in, without cable	 105 mm Ø 20 mm Ø 12 mm	-30 to +50 °C	±0.2 °C (-30 to +50 °C)		0572 2153

Humidity/temperature probes for testo Saveris 2-H2

Probe type	Dimensions Probe shaft/probe shaft tip	Measuring range	Accuracy	Order no.
Humidity/temperature probe 12 mm, fixed cable, cable length 1.3 m		-30 to +70 °C 0 to 100% RH	±0.3 °C ±2% RH at +25 °C (2 to 98% RH) ±0.03% RH/K ± 1 digit	0572 2155
External humidity/temperature probe 12 mm, plug-in, without cable	 105 mm Ø 20 mm Ø 12 mm	-30 to +50 °C 0 to 100% RH	±0.3 °C ±2% RH	0572 2154

testo Smart Probes VAC kit

- Compact professional measuring instruments for use with smartphones and tablets
- Measurement of air and surface temperature, humidity, air flow velocity and volume flow
- Application-specific menus
- Measurement data displayed as a table or graphic

 Measurement data analyzed and sent via **testo Smart Probes App**

testo Smart Probes VAC kit

For servicing ventilation and air conditioning systems. Consists of: testo 405i, testo 410i, testo 605i, testo 805i, testo Smart Case (VAC), batteries, calibration protocol
Order no. 0563 0003



	testo 405i	testo 410i	testo 605i	testo 805i
Sensor type	Hot wire	Vane	Humidity (capacitive)	Infrared
Measuring range	0 to 30 m/s	0.4 to 30 m/s	0 to 100% RH	-30 to +250 °C
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)	±(0.2 m/s + 2% of m.v.) (0.4 to 20 m/s)	±(1.8% RH + 3% of m.v.) at +25 °C (5 to 80% RH)	±1.5 °C or ±1.5% of m.v. (0 to +250 °C) ±2.0 °C (-20 to -0.1 °C) ±2.5 °C (-30 to -20.1 °C)
Resolution	0.01 m/s	0.1 m/s	0.1% RH	0.1 °C
Sensor type	NTC	NTC	NTC	
Measuring range	-20 to +60 °C	-20 to +60 °C	-20 to +60 °C	
Accuracy ±1 digit	±0.5 °C	±0.5 °C	±0.8 °C (-20 to 0 °C) ±0.5 °C (0 to +60 °C)	
Resolution	0.1 °C	0.1 °C	0.1 °C	
Compatibility	requires iOS 8.3 or newer / Android 4.3 or newer requires mobile terminal device with Bluetooth 4.0			

Vane anemometer with smartphone operation **testo 410i**

- Compact professional measuring instrument for use with smartphones and tablets
- Measurement of air flow velocity, volume flow and temperature
- Easy parametrization of the outlet for volume flow measurement (dimensions and geometry)
- Presentation of the volume flow of several outlets for the purposes of regulating systems
- Measurement data analyzed and sent via App


Sensor type	Vane	NTC
Measuring range	0.4 to 30 m/s	-20 to +60 °C
Accuracy ±1 digit	±(0.2 m/s + 2% of m.v.) (0.4 to 20 m/s)	±0.5 °C
Resolution	0.1 m/s	0.1 °C

testo 410i

Vane anemometer for measuring the air velocity, volume flow and temperature, with smartphone operation, includes batteries and calibration protocol

Order no. 0560 1410





testo Smart Probes App
The App turns your smartphone or tablet into the display of the testo 410i. The measuring instrument is operated and the measurement values displayed via Bluetooth via the Testo Smart Probes App on your smartphone or tablet – independently of the measuring location. In addition to this, 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.

Thermal anemometer testo 405

- Air flow meter with temperature measurement
- Volumetric flow rate calculation to 99990 m³/h
- Extendible telescope to 300 mm

	Thermal	NTC
Measuring range	0 to 5 m/s (-20 to 0 °C) 0 to 10 m/s (0 to +50 °C) 0 to +99990 m ³ /h	-20 to +50 °C
Accuracy ± 1 digit	±(0.1 m/s + 5% of m.v.) (0 to +2 m/s) ±(0.3 m/s + 5% of m.v.) (remaining meas. range)	±0.5 °C
Resolution	0.01 m/s	0.1 °C

testo 405

Thermal anemometer with duct bracket, includes attachment clip and batteries



Order no. 0560 4053

Vane anemometer testo 410

- Air flow meter with temperature and humidity measurement
- Integrated measurement via 40 mm vane
- Humidity measurement with Testo humidity sensor with long-term stability

	Vane	NTC	Humidity sensor
Measuring range	0.4 to 20 m/s	-10 to +50 °C	0 to 100% RH
Accuracy ± 1 digit	±(0.2 m/s + 2% of m.v.)	±0.5 °C	±2.5% RH (5 to 95% RH)
Resolution	0.1 m/s	0.1 °C	0.1% RH

testo 410-2

Vane anemometer with built-in humidity measurement and NTC air thermometer, includes protective cap, calibration protocol and batteries



Order no. 0560 4102

16 mm vane kit testo 440

- Measurement of flow and volume flow
- Telescope that can be extended to 0.85 m for convenient measurement in ventilation ducts
- Easy storage and evaluation of measurement data

	Vane	NTC
Measuring range	0.6 m/s to 50 m/s	-40 to +150 °C
Accuracy	±(0.2 m/s + 1% of m.v.) (0.6 to 40 m/s) ±(0.2 m/s + 2% of m.v.) (40.1 to 50 m/s)	±0.4 °C (-40 to -25.1 °C) ±0.3 °C (-25 to +74.9 °C) ±0.4 °C (+75 to +99.9 °C) ±0.5% of m.v. (rest of measuring range)
Resolution	0.1 m/s	0.1 °C

testo 440 16 mm vane kit

Air velocity & IAQ measuring instrument including batteries, USB cable and calibration protocol, 16 mm vane probe including telescope and calibration protocol, basic case



Order no. 0563 4401

Hot wire kit testo 440

- Measurement of air flow, volume flow and temperature
- Telescope that can be extended to 0.85 m for convenient measurement in ventilation ducts
- internal data storage and USB port for data export

	Hot wire	NTC
Measuring range	0 to 30 m/s	-40 to +150 °C
Accuracy	±(0.03 m/s + 4% of m.v.) (0 to 20 m/s) ±(0.5 m/s + 5% of m.v.) (20.01 to 30 m/s)	±0.4 °C (-40 to -25.1 °C) ±0.3 °C (-25 to +74.9 °C) ±0.4 °C (+75 to +99.9 °C) ±0.5% of m.v. (rest of measuring range)
Resolution	0.01 m/s	0.1 °C

Vane anemometer testo 417

- Measurement of air flow, volume flow and temperature
- Flow direction detection
- Multi-point and timed mean calculation

	NTC	Vane	Volume flow
Measuring range	0 to +50 °C	+0.3 to +20 m/s	0 to +99999 m³/h
Accuracy ±1 digit	±0.5 °C	±(0.1 m/s + 1.5% of m.v.)	
Resolution	0.1 °C	0.01 m/s	0.1 m³/h (0 to +99.9 m³/h) 1 m³/h (+100 to +99999 m³/h)

testo 440 hot wire kit

Air velocity & IAQ measuring instrument with internal memory and data export function, hot wire probe including temperature sensor, 1.8 m cable and 0.85 m telescope, basic case

Order no. 0563 4400



testo 417

Vane anemometer with built-in 100 mm vane and temperature measurement, includes calibration protocol and battery

Order no. 0560 4170

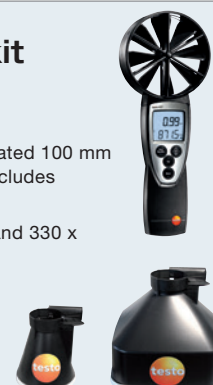


testo 417-1 funnel kit

The kit consists of:

- testo 417 vane anemometer with integrated 100 mm vane and temperature measurement, includes battery and calibration protocol
- Funnel kit (Ø 200 mm for plate outlets and 330 x 330 mm for fans)

Order no. 0563 4171



Accessories for testo 417

Order no.

testovent 417, funnel kit consisting of a funnel for plate outlets (Ø 200 mm) and a funnel for fans (330 x 330 mm)	0563 4170	
testovent 417 volume flow straightener	0554 4172	
testovent 417 flow straightener kit for volume flow consisting of the testovent 417 funnel kit and the volume flow straightener	0554 4173	

Volume flow hood testo 420

- Less than 2.9 kg in weight
- Flow straightener for higher precision measurements at swirl outlets
- Detachable and tiltable measuring instrument with large display
- App integration via Bluetooth for fast, easy monitoring and reporting on site

testo 420 kit

Volume flow hood with measuring instrument, body, flow hood 610 x 610 mm, 5 x tension rods, USB cable, includes batteries, trolley and calibration protocol



Order no. 0563 4200

testo 420

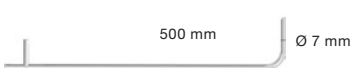


Differential pressure measuring instrument, includes batteries and calibration protocol



Order no. 0560 0420

	Volume flow	NTC	Capacitive humidity sensor	Differential pressure sensor	Absolute pressure probe
Measuring range	40 to 4000 m ³ /h	-20 to +70 °C	0 to 100% RH	-120 to +120 Pa	+700 to +1100 hPa
Accuracy ±1 digit	±(3% of m.v. + 12 m ³ /h) at +22 °C, 1013 hPa (85 to 3500 m ³ /h)	±0.5 °C (0 to +70 °C) ±0.8 °C (-20 to 0 °C)	±(1.8% RH + 3% of m.v.) at +25 °C (5 to 80% RH)	±(2% of m.v. + 0.5 Pa) at +22 °C, 1013 hPa	±3 hPa
Resolution	1 m ³ /h	0.1 °C	0.1% RH	0.001 Pa	0.1 hPa

Accessories for testo 420	Order no.
Flow hood 360 x 360 mm, with bag	0554 4200
Flow hood 305 x 1220 mm, with bag	0554 4201
Flow hood 610 x 1220 mm, with bag	0554 4202
Flow hood 915 x 915 mm, with bag	0554 4203
Tripod that can be extended to 4 m, with castors	0554 4209
Connection hose, silicone, for differential pressure measurement, length 5 m, maximum load capacity 700 hPa (mbar)	0554 0440
Connection hose, silicone-free, for differential pressure measurement, length 5 m, maximum load capacity 700 hPa (mbar)	0554 0453

Probe type/scope of delivery	Dimensions Probe shaft/probe shaft tip	Measuring range	Order no.
Pitot tube, length 500 mm, Ø 7 mm, stainless steel, for measuring the flow velocity*		Measuring range 1 to 100 m/s Operating temperature 0 to +600 °C Pitot tube factor 1.0	0635 2045
Air flow velocity matrix, telescope with spherical head, length 1.8 m, with 2 x 2 m connection hose, silicon-free, with Velcro tape for attaching the telescope to the differential pressure measuring instrument		ID no. 0699 7077/1	0635 8888
Air flow velocity matrix, telescope with spherical head, length 1.8 m, with 2 x 2 m connection hose, silicon-free, with Velcro tape for attaching the telescope to the differential pressure measuring instrument		ID no. 0699 7077/2	0635 8888

*Connection hose required (order no. 0554 0440 or order no. 0554 0453)

Air velocity & IAQ measuring instrument

testo 440

- Measure all air velocity & IAQ parameters with one instrument – selection of probes for turbulence, flow, lux, CO₂, temperature, humidity, radiant heat, pressure, differential pressure
- Intuitive operation thanks to a large display with clearly structured measurement menus
- Parallel display of 3 readings
- Wireless measurement convenience with Bluetooth probes
- Safe and reliable due to internal data memory and USB interface for data export

The testo 440 air velocity & IAQ measuring instrument combines the benefits of a compact handheld device with intuitive measurement menus and a comprehensive selection of air velocity & IAQ probes. You can connect the testo 440 to a large selection of digital probes, the testo Smart Probes or numerous Testo temperature probes.

testo 440

Air velocity & IAQ measuring instrument for air conditioning, ventilation and indoor air quality, includes USB cable, calibration protocol and batteries

Order no. 0560 4401



































testo 440 Flow combo kit 1 with BT



Air velocity & IAQ measuring instrument with internal memory and data export function, 100 mm vane probe with Bluetooth and temperature sensor, hot wire probe with 0.85 m telescope, temperature sensor and 1.8 m cable, measurement menu, includes combi-case

Order no. 0563 4406



Probes for testo 440 Order no.

Flow			
	Hot wire probe including temperature and humidity sensor, 90° bendable	 0635 1571  0635 1572	
	Vane probe (Ø 16 mm), includes temperature sensor	 0635 9571  0635 9572	
	High-precision vane probe (Ø 100 mm), includes temperature sensor	 0635 9371  0635 9372	
	Vane probe (Ø 100 mm), includes temperature sensor	 0635 9431  0635 9432	
Comfort level			
	Turbulence probe, fixed cable	 0628 0152	
	CO ₂ probe, includes temperature and humidity sensor	 0632 1551  0632 1552	
	CO probe	 0632 1271  0632 1272	
	Lux probe, fixed cable	 0635 0551	
Humidity			
	Humidity/temperature probe	 0636 9731  0636 9732	
	High-precision humidity/temperature probe	 0636 9771  0636 9772	
Temperature			
	Fast-action surface probe (TC type K)	 0602 0393	
	Robust air temperature probe (TC type K), fixed cable 1.2 m	 0602 1793	

 with Bluetooth
 fixed cable



A testo 440 handle can be connected directly to a probe head or the adapter for telescope and probe heads easily and reliably in just a few seconds.

Universal IAQ instrument testo 400

- As intuitive to operate as your smartphone, with Smart-Touch technology
- All measurement data clearly and immediately visible in the large 5" display
- Measures all IAQ-related parameters: Flow, temperature, humidity, pressure, illuminance, radiant heat, turbulence, CO₂ and CO
- High-precision, location-independent and integrated differential pressure sensor
- High-quality digital probes and an intelligent calibration concept
- Document measuring values directly on the customer's site and send them by e-mail, or further analyze them using the testo DataControl PC software
- Smart and intuitive measurement programs:
 - HVAC grid measurement in accordance with EN ISO 12599 and ASHRAE 111
 - PMV/PPD in accordance with EN ISO 7730 and ASHRAE 55
 - Draught and degree of turbulence in accordance with EN ISO 7730 and ASHRAE 55
 - WBGT measurement in line with DIN 33403 and EN ISO 7243, NET measurement in accordance with DIN 33403

testo 400 is the universal measuring instrument for all IAQ professionals, enabling them to measure, document and analyze all IAQ parameters with just one instrument.

testo 400

testo 400 universal IAQ instrument, including transport case for volume flow measurement, testo DataControl software, connection hose, mains unit with USB cable and calibration protocol.



Order no. 0560 0400

testo 400 air flow kit with hot wire probe

- testo 400 universal IAQ instrument, including transport case for volume flow measurement, testo DataControl software, silicone hoses, mains unit with USB cable and calibration protocol
- Hot wire probe with Bluetooth®, including temperature and humidity sensor (comprising hot wire probe head, telescope (extendable to 1.0 m) handle adapter and Bluetooth® handle), 4 x AA batteries and calibration protocol
- Vane probe head (Ø 100 mm), including temperature sensor and calibration protocol
- High-precision humidity/temperature probe head, including calibration protocol
- 90° angle for connecting vane probes (Ø 100 mm)

Order no. 0563 0400 71



testo 400 air flow kit with 16 mm vane probe

- testo 400 universal IAQ instrument, including transport case for volume flow measurement, testo DataControl software, silicone hoses, mains unit with USB cable and calibration protocol
- Vane probe (Ø 16 mm) with Bluetooth®, including temperature sensor (comprising 16 mm vane probe head, telescope (extendable to 1.0 m), handle adapter and Bluetooth® handle), 4 x AA batteries and calibration protocol
- Vane probe head (Ø 100 mm), including temperature sensor and calibration protocol
- High-precision humidity/temperature probe head, including calibration protocol
- 90° angle for connecting vane probes (Ø 100 mm)

Order no. 0563 0400 72











Differential pressure (integrated)	
Measuring range	-100 to +200 hPa
Accuracy (±1 digit)	±(0.3 Pa ± 1% of m.v.) (0 to 25 hPa) ±(0.1 hPa + 1.5% of m.v.) (25.001 to 200 hPa)
Resolution	0.001 hPa
Absolute pressure (integrated)	
Measuring range	700 to +1100 hPa
Accuracy (±1 digit)	±3 hPa
Resolution	0.1 hPa
Temperature NTC (with appropriate probe)	
Measuring range	-40 to +150 °C
Accuracy (±1 digit)	±0.2 °C (-25 to 74.9 °C) ±0.4 °C (-40 to -25.1 °C) ±0.4 °C (+75 to +99.9 °C) ±0.5% of m.v. (remaining meas. range)
Resolution	0.1 °C
Temperature TC type K (with appropriate probe)	
Measuring range	-200 to +1370 °C
Accuracy (±1 digit)	±(0.3 °C + 0.1% of m.v.)
Resolution	0.1 °C








General technical data	
Probe connections	4x Bluetooth®, 2x TUC*, 2x TC type K
Interfaces	Bluetooth®, WLAN, USB
Operating temperature	-5 to +45 °C
Storage temperature	-20 to +60 °C
Power supply	Rechargeable li-ion battery (5550 mAh)
Battery life	approx. 12 hrs continuous operation
Display	5.0 inch HD touch display 1280 x 720 px resolution
Camera	Main camera: 8.0 MP Front camera: 5.0 MP
Memory	2 GB (corresponds to approx. 1,000,000 readings)
Protection class	IP40
Dimensions	210 x 95 x 39 mm
Weight	500 g

*TUC connection (Testo Universal Connector): For the connection of fixed cable digital probes and NTC probes.

Accessories for testo 400	Order no.
IAQ data logger for long-term measurements with the testo 400	0577 0400
Measuring tripod for comfort level measurements with standard-compliant positioning of probes (including bag)	0554 1591
Extendable telescope for testo 400 / 440 flow probes (37.5 to 100 cm including 90° angle)	0554 0960
Telescope extension (0.9 m) for testo 400 / 440 flow probes	0554 0990
90° angle for connecting vane probes (Ø 100 mm)	0554 0991
Handle adapter for connection to flow probes	0554 2160
Transport case for air flow measurement (520 x 410 x 160 mm)	0516 1400
Transport case for IAQ and comfort level measurement (520 x 410 x 210 mm)	0516 2400
testovent 417 funnel kit comprising funnel for plate outlets (Ø 200 mm) and funnel for fans (330 x 330 mm) for incoming / outgoing air	0563 4170
testovent 417 volume flow straightener	0554 4172
USB mains unit, including cable	0554 1106
Connection hose, silicone, length 5 m, maximum load capacity 700 hPa (mbar)	0554 0440
Connection hose, silicone-free for differential pressure measurement, length 5 m, maximum load capacity 700 hPa (mbar)	0554 0453
Control and calibration kit for Testo humidity probes, saline solution with 11.3% RH and 75.3% RH, including adapter for Testo humidity probes	0554 0660

Probes for testo 400	Order no.
Flow	
 Hot wire probe including temperature and humidity sensor, 90° bendable	0635 1571 0635 1572
 Vane probe (Ø 16 mm), includes temperature sensor	0635 9571 0635 9572
 High-precision vane probe (Ø 100 mm), includes temperature sensor	0635 9371 0635 9372
 Vane probe (Ø 100 mm), includes temperature sensor	0635 9431 0635 9432
Comfort level	
 Turbulence probe, fixed cable	0628 0152
 CO ₂ probe, includes temperature and humidity sensor	0632 1551 0632 1552
 CO probe	0632 1271 0632 1272

 with Bluetooth
 fixed cable

Probes for testo 400	Order no.
Humidity	
 Humidity/temperature probe	0636 9731 0636 9732
 High-precision humidity/temperature probe	0636 9771 0636 9772
 Robust humidity/temperature probe for temperatures up to +180 °C, fixed cable	0636 9775
Temperature	
 High-precision digital Pt100 penetration probe	0618 0275
 Glass-coated digital Pt100 laboratory probe	0618 7072
 Watertight immersion/penetration probe NTC	0615 1212
 Robust air probe NTC	0615 1712

testo Smart Probes heating kit


- Compact professional measuring instruments for use with smartphones and tablets
- All measuring instruments required for non-contact temperature measurement and the measurement of flow and return temperature, as well as the gas flow pressure
- Measurement data analyzed and sent via App
- Measurement data displayed as a table or graphic


testo Smart Probes heating kit

For pressure and temperature measurements on heating systems. Consists of: testo 115i, testo 510i including hose kit (Ø 4 mm and 5 mm) with adapter, testo 805i, testo Smart Case (heating), batteries, calibration protocol



Order no. 0563 0004





testo Smart Probes App
The App turns your smartphone or tablet into the display of up to 6 Testo Smart Probes at the same time. The operation of the measuring instruments as well as the display of the measurement values take place by Bluetooth via the Testo Smart Probes App on your smartphone or tablet – independently of the measuring location. In addition to this, 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.

	testo 115i	testo 510i	testo 805i
Sensor type	NTC	Differential pressure	Infrared
Measuring range	-40 to +150 °C	-150 to 150 hPa	-30 to +250 °C
Accuracy ±1 digit	±1.3 °C (-20 to +85 °C)	±0.05 hPa (0 to 1 hPa) ±(0.2 hPa + 1.5% of m.v.) (1 to 150 hPa)	±1.5 °C or ±1.5% of m.v. (0 to +250 °C) ±2.0 °C (-20 to -0.1 °C) ±2.5 °C (-30 to -20.1 °C)
Resolution	0.1 °C	0.01 hPa	0.1 °C
Compatibility	requires iOS 8.3 or newer / Android 4.3 or newer		
	requires mobile terminal device with Bluetooth 4.0		

A comparison of flue gas analyzers.

	testo 310	testo 300	testo 300 Longlife	testo 300 Longlife (30,000 ppm CO)	testo 330i
					
Fuels	Oil, gas	Oil, gas, solid fuels	Oil, gas, solid fuels	Oil, gas, solid fuels	Oil, gas, solid fuels
Sensor slots	O ₂ , CO	O ₂ , CO	O ₂ , CO, NO - can be retrofitted	O ₂ , CO H ₂ -compensated, NO - can be retrofitted	O ₂ , CO or CO H ₂ -compensated, NO - can be retrofitted
Measuring ranges	CO: 0 to 4,000 ppm	CO: 0 to 4,000 ppm CO H ₂ -compensated: 0 to 8,000 ppm	CO: 0 to 4,000 ppm CO H ₂ -compensated: 0 to 8,000 ppm	CO H ₂ -compensated: 0 to 30,000 ppm (by fresh air dilution)	CO: 0 to 15,000 ppm CO H ₂ -compensated: 0 to 30,000 ppm (by fresh air dilution)
Longlife sensors with up to 6 years' service life	–	–	✓	✓	✓
Flue gas loss measurement	✓	✓	✓	✓	✓
Draught measurement	✓	✓	✓	✓	✓
Fine pressure	–	✓	✓	✓	–
4 Pa measurement	–	–	–	✓	–
Differential / gas flow pressure measurement	✓	✓	✓	✓	✓
Error and sensor diagnosis	–	✓	✓	✓	✓
Zeroing with probe in flue gas	–	–	–	✓	✓
PDF reports	–	✓	✓	✓	✓
Signature function	–	✓	✓	✓	–
Warranty (instrument, probe, O ₂ and CO sensors)	2 years	2 years	4 years	4 years	4 years
Warranty with product registration	–	3 years	5 years	5 years	5 years
Display	2-line display with background illumination	5" HD touch display (1280 x 720 pixels)	5" HD touch display (1280 x 720 pixels)	5" HD touch display (1280 x 720 pixels)	Smartphone/tablet
Memory	–	1 mio readings	1 mio readings	1 mio readings	500,000 readings
PC software	–	testo EasyHeat software	testo EasyHeat software	testo EasyHeat software	–
Instrument operation	Key operation	via smart-touch display	via smart-touch display	via smart-touch display	App operation via smartphone/tablet

Longlife sensors

High-end sensors with a service life of up to 6 years for intensive use (several times a day). At least one sensor replacement is saved in the course of a normal working life. ** Optional accessories needed.

Suitable kits.

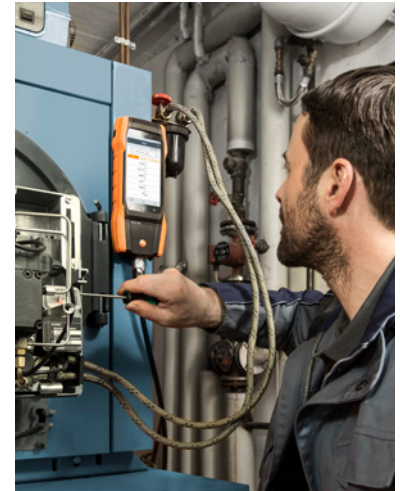


testo 300
Kit 1

- Instrument, including mains unit
- Measuring range: O₂, CO, 4,000 ppm
- Compact flue gas probe (180 mm, Ø 6 mm)
- 10 spare filters
- Printer, including spare paper (order no. 0564 3002 71)
- EasyHeat PC software
- Instrument bag
- 2-year warranty

Without printer	With printer
Order no. 0564 3002 70	Order no. 0564 3002 71

Illustration may differ from original




testo 300 Longlife
Kit 1

- Instrument, including mains unit
- Measuring range: O₂, CO, 4,000 ppm, NO sensor - can be retrofitted
- Compact flue gas probe (180 mm, Ø 6 mm)
- 10 spare filters
- Printer, including spare paper (order no. 0564 3004 71)
- EasyHeat PC software
- Instrument case
- 4-year warranty

Without printer	With printer
Order no. 0564 3004 70	Order no. 0564 3004 71

Illustration may differ from original

testo 300 Longlife
Kit 2

- Instrument, including mains unit
- Measuring range: O₂, CO H₂, 30,000 ppm, NO sensor - can be retrofitted
- Modular flue gas probe (180 mm, Ø 8 mm)
- 10 spare filters
- Printer, including spare paper (order no. 0564 3004 831)
- EasyHeat PC software
- Instrument case
- 4-year warranty

Without printer	With printer
Order no. 0564 3004 82	Order no. 0564 3004 89



testo 310 kit

- testo 310 flue gas analyzer, including rechargeable battery and calibration protocol for the measurement of O₂, CO, hPa and °C
- Measuring range: 0 to 4,000 ppm
- Flue gas probe with cone (180 mm, Ø 6 mm)
- Silicone hose for pressure measurement, particle filter
- 5 particle filters
- 2 rolls of thermal paper for printer
- Instrument case

Without printer	With printer
Order no. 0563 3100	Order no. 0563 3110

Flue gas analyzer

testo 330i

- Integrated sensor monitoring
- Dilution up to 30,000 ppm CO
- Zeroing in flue possible
- TÜV-tested according to EN 50379, Part 1 to 3
- Operation independent of the measuring location and reading display via Bluetooth with smartphone or tablet and testo 330i App
- Paperless documentation and report creation directly on site with the testo 330i App

testo 330i kit with H₂-compensated CO measurement

Kit consists of the testo 330i flue gas analyzer with long-life gas sensors, O₂ and H₂-compensated CO sensor, rechargeable battery and calibration protocol, mains unit, modular flue gas probe, testoFix probe mount, temperature probe, instrument case



Order no. 0563 3000 73

Flue gas

testoFix probe mount

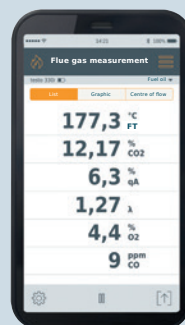
Innovative development: securely fixes the probe and the measuring instrument to the system.



For measurement apertures from 10 mm hole diameter and probe diameter of 8 mm
 Max. surface temperature at the measurement aperture: +140 °C
 Weight: 114 g

testo 330i App







The App turns your smartphone or tablet into the display of the testo 330i.



The measuring instrument operation and the measuring value display are by Bluetooth via the testo 330i App on your smartphone or tablet – irrespective of the measuring location. In addition to this, 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.

Accessories for flue gas analyzers

Order no.

	External combustion air temperature probe 190 mm with 2.2 m cable, cone and magnetic holder	0600 9799	
	For flow and connection pressure measurement: Pressure connection kit	0554 1203	
	For oil-fired systems: Smoke tester (please order cone separately 0554 9010)	0554 0307	
	For systems that are not dependent on ambient air: Dual wall clearance probe	0632 1260	
	For measurement apertures that are difficult to access: Flexible probe shaft (important: only suitable for modular flue gas probes, not included on basic flue gas probes as with the testo 320 basic kit!)	0554 9770	
	For large flue gas pipe diameters: Probe shaft 300 mm, 8 mm diameter	0554 9761	

Differential pressure measuring instrument **testo 510**

- Differential pressure measurement 0 to 100 hPa
- Flow measurement with Pitot tube possible
- Temperature and air tightness compensation
- Display lighting
- 10 selectable units
- Gas flow and connection pressure measurement parallel to flue gas measurement

Measuring range	0 to 100 hPa
Accuracy ±1 digit	±0.03 hPa (0 to 0.30 hPa) ±0.05 hPa (0.31 to 1.00 hPa) ±(0.1 hPa + 1.5% of m.v.) (1.01 to 100 hPa)
Resolution	0.01 hPa

Measuring instrument accessories

Connection hose, silicone, length 2 m, maximum load capacity 700 hPa (mbar)	0554 0448	
ISO calibration certificate, differential pressure, 3 measuring points distributed over the entire measuring range	0520 0095	
ISO calibration certificate, differential pressure, 5 measuring points distributed over the entire measuring range	0520 0005	

Pressure kit **testo 510**

Handy differential pressure measuring instrument including hose kit (Ø 4 mm and 5 mm) with adapter, protective cap, calibration protocol, belt pouch and batteries



Order no. 0563 0510

Differential pressure measuring instrument with smartphone operation **testo 510i**

- Compact professional measuring instrument for use with smartphones and tablets
- Measurement of gas flow and static pressure, as well as volume flow
- Measurement menu for pressure drop test including alerts
- Easy configuration and determination of the volume flow
- Measurement data analyzed and sent via App
- Magnetic holder for easy attachment

Sensor type	Differential pressure
Measuring range	-150 to 150 hPa
Accuracy ±1 digit	±0.05 hPa (0 to 1 hPa) ±(0.2 hPa + 1.5% of m.v.) (1 to 150 hPa)
Resolution	0.01 hPa

Accessories

testo Smart Case (VAC) 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	
ISO calibration certificate pressure, accuracy > 0.6% of final value	0520 0005	

testo 510i

Differential pressure measuring instrument with smartphone operation, includes hose kit (Ø 4 mm and 5 mm) with adapter, batteries and calibration protocol

Order no. 0560 1510



testo Smart Probes App

The App turns your smartphone or tablet into the display of the testo 510i. The measuring instrument is operated and the measurement values displayed via Bluetooth via the Testo Smart Probes App on your smartphone or tablet – independently of the measuring location. In addition to this, 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.

Order no.

High-pressure measuring instrument with smartphone operation

testo 549i

- Compact professional measuring instrument for use with smartphones and tablets
- Measurement of high and low pressure
- Quick and easy installation at the pressure connection
- Low refrigerant loss thanks to hose-free application
- Measurement data analyzed and sent via App

Measuring range	-1 to 60 bar
Accuracy ±1 digit	0.5% of final value
Resolution	0.01 bar
Connection	7/16" – UNF
Overload rel.	65 bar

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	
ISO calibration certificate relative pressure, 3 measurement points distributed over the entire measuring range	0520 0085	

testo 549i

High-pressure measuring instrument with smartphone operation, includes batteries and calibration protocol

Order no. 0560 1549





testo Smart Probes App
The App turns your smartphone or tablet into the display of the testo 549i. The measuring instrument is operated and the measurement values displayed via Bluetooth via the Testo Smart Probes App on your smartphone or tablet – independently of the measuring location. In addition to this, 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.

AC & refrigeration test kit

Testo Smart Probes

- Kit consists of 2 x testo 549i high-pressure measuring instruments and 2 x testo 115i clamp probes for use with smartphones and tablets
- Application-specific menus: Target superheating and subcooling
- All measuring instruments required for refrigeration applications in one kit
- Quick, easy installation at the pressure connection or the temperature measuring point
- Low refrigerant loss thanks to hose-free application
- Measurement data analyzed and sent via App

Accessories

Order no.

ISO calibration certificate relative pressure, 3 measurement points distributed over the entire measuring range	0520 0085	
ISO calibration certificate temperature, one-point calibration for clamp thermometer, calibration point +60 °C	0520 0072	

testo Smart Probes AC & refrigeration test kit



For servicing, commissioning and troubleshooting of refrigeration and air conditioning systems.

Consists of:

2 x testo 115i, 2 x testo 549i, testo Smart Case (refrigeration), includes batteries and calibration protocol

Order no. 0563 0002 02



	testo 115i	testo 549i
Sensor type	NTC	Pressure
Measuring range	-40 to +150 °C	-1 to 60 bar
Accuracy ±1 digit	±1.3 °C (-20 to +85 °C)	0.5% of final value
Resolution	0.1 °C	0.01 bar
Connection		7/16" – UNF
Overload rel.		65 bar
Compatibility	requires iOS 8.3 or newer / Android 4.3 or newer requires mobile terminal device with Bluetooth 4.0	

Digital manifold

testo 550

- App integration via Bluetooth for quick and convenient monitoring and reporting on site
- Updating of refrigerant data on the instrument via the testo Refrigeration App
- Calculation of superheating and subcooling in real time by up to two external temperature probes
- 2-way valve block with three connections, three hose holders and sight glass
- 250 hours of battery life



testo Refrigeration App

The smartphone App for manifolds: more mobile, more flexible, more efficient.

testo 550 kit

Digital manifold with Bluetooth for refrigeration systems and heat pumps, includes 2 x clamp probes, batteries, case and calibration protocol



Order no. 0563 1550

testo 550 kit with 3-hose filling set

Kit as above, however also with pressure connection kit with 2 silicone hoses (ø 6 mm and ø 4 mm, each 1 m) and silicone connection hose (2 m)

Order no. 0563 2550

Digital manifold

testo 557

- App integration via Bluetooth for quick and convenient monitoring and reporting on site
- Updating of refrigerant data on the instrument via the testo Refrigeration App
- 4-way valve block for fast, efficient work
- External vacuum probe assists evacuation of the system with high-precision measurement
- 250 hours of battery life



testo Refrigeration App

The smartphone App for manifolds: more mobile, more flexible, more efficient.

testo 557 kit

Digital manifold with Bluetooth for commissioning, service and maintenance, includes 2 x clamp probes, external vacuum probe, batteries, case and calibration protocol



Order no. 0563 1557

testo 557 kit with 4-hose filling set

Kit as above, however also with pressure connection kit with 2 silicone hoses (ø 6 mm and ø 4 mm, each 1 m) and silicone connection hose (2 m)

Order no. 0563 2557


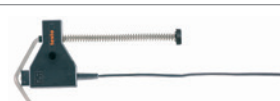
Technical data, testo 550 and testo 557

		testo 550	testo 557
Measuring range	Pressure	-1 to 60 bar	
	Temperature	-50 to +150 °C	
	Vacuum	-1 bar to 0 bar	0 to 20000 microns
Accuracy (at 22 °C)	Pressure	±0.5% fs	
	Temperature	±0.5 °C	
	Vacuum	-	±(10 microns + 10% of m.v.) (100 to 1000 microns)
Resolution	Pressure	0.01 bar	
	Temperature	0.1 °C	
	Vacuum	-	1 micron (0 to 1000 microns) 10 microns (1000 to 2000 microns) 100 microns (2000 to 5000 microns) 500 microns (5000 to 10000 microns) 5000 microns (10000 to 20000 microns)
Probe connections	Pressure	3 x 7/16" – UNF	
	Temperature	2 x plug-in (NTC)	
	Vacuum	-	1 x plug-in (external vacuum probe)
Overload		65 bar	
Refrigerants stored in the instrument	60 profiles: R11, R12, R123, R1234yf, R1234ze, R125, R13B1, R134a, R14, R142B, R152a, R161, R22, R227, R23, R290, R32, R401A, R401B, R401C, R402A, R402B, R404A, R406A, R407A, R407B, R407C, R407D, R407F, R408A, R409A, R410A, R411A, R412A, R413A, R414B, R416A, R417A, R420A, R421A, R421B, R422A, R422B, R422C, R422D, R424A, R426A, R427A, R434A, R437A, R438A, R502, R503, R507, R508A, R508B, R600, R600a, R744 (CO ₂), R718 (H ₂ O), updated via App		

Accessories for testo 550 and testo 557

Transport case for comprehensive range of accessories	0516 0012
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Probes for testo 550 and testo 557

Probe type	Dimensions Probe shaft/probe shaft tip	Measuring range	Accuracy	Order no.
Precise, robust NTC air probe		-50 to +125 °C	±0.2 °C (-25 to +80 °C) ±0.4 °C (remaining meas. range)	0613 1712
Clamp probe for temperature 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 5505
Pipe wrap probe with Velcro tape for pipe diameters 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 to +125 °C, briefly to +150 °C (2 minutes)	±0.5% of m.v. (+100 to +150 °C) ±0.2 °C (-25 to +74.9 °C) ±0.4 °C (remaining meas. range)	0613 1912

Leak detector kit for refrigerants **testo 316-4**

- Extremely high sensitivity of 3g/a enables the detection of even the smallest leaks
- Very long sensor service life
- Visual and audible alarm
- Permanent sensor check
- Earphone connection for reliable leakage detection in loud environments
- Trend display indicates maximum leakages

Measurement parameter	g/a
Detectable	R134a, R22, R404a, H ₂ and all common refrigerants such as CFC, HFC (partially and completely halogenated), NH ₃ (separate sensor head)
Lower response threshold	3 g/a

Accessories for testo 316-4	Order no.
testo 316-4, leak detector spare head for CFC, HFC (partially and completely halogenated), H ₂	0554 3180
testo 316-4 kit, spare head for leak detector for ammonia, NH ₃	0554 3181

Detectable refrigerants

Refrigerant/ Refrigerant group	Refrigerant ref. (Lower response threshold specified)	Refrigerant detectable	Refrigerant selection on instrument
CFC		x	R22
HCFC		x	R22
HFC (partially halogenated)		x	R404a
R12		x	R22
R22	x	x	R22
R123		x	R22
R134a	x	x	R134a
R404	x	x	R404a
R407a, b, c, d, e		x	R134a
R408		x	R22
R409		x	R22
R410a		x	R134a
R505		x	R22
R507		x	R134a

Electronic leak detector for refrigerants **testo 316-3**

- High sensitivity of 4g/a enables the detection of even the smallest leaks
- Detects every common refrigerant
- Immediately ready for use without any kind of pre-settings
- LED indication when there is a leak with simultaneous audible alarm

Sensitivity	4 g/a (0.15 oz/a)
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Accessories for testo 316-3	Order no.
Sensor head for testo 316-3	0554 2610

testo 316-4 kit 1

Leak detector for CFC, HFC (partially and completely halogenated), H₂, includes refrigerant sensor head, case, mains unit and earphones

Order no. 0563 3164



testo 316-4 kit 2

Leak detector for ammonia (NH₃), includes refrigerant sensor head, case, mains unit and earphone

Order no. 0563 3165



Detectable refrigerants

Refrigerant/ Refrigerant group	Refrigerant ref. (Lower response threshold specified)	Refrigerant detectable	Refrigerant selection on instrument
R600/R600a		x	R22
Hydrogen	x	x	H ₂
Ammonia	x	x	NH ₃
R410a		x	R134a
R124		x	R22
R227		x	R134a
R422d		x	R134a
R11		x	R22
R290		x	H ₂
R508		x	R134a
R427a		x	R404a
R1270		x	R22
R1150		x	R22
R170		x	R134a

testo 316-3

Leak detector for CFC, HFC (partially and completely halogenated), includes sensor head, transport case, calibration protocol, batteries and filter

Order no. 0563 3163



IAQ and comfort kit with tripod **testo 400**

- Determination of the PMV and PPD comfort level parameters in accordance with EN ISO 7730 and ASHRAE 55
- Determination of the draught and degree of turbulence comfort level parameters in accordance with EN ISO 7730 and ASHRAE 55
- Indoor air quality: Determination of CO₂ concentration, humidity, air temperature and degree of turbulence in workplaces, including long-term measurement

Comfort combo kit with Bluetooth **testo 440**

- Long-term measurement and parallel determination of CO₂, humidity, air temperature and turbulence
- Complies with the comfort standards EN ISO 7730 and ASHRAE 55
- Easy storage and evaluation of measurement data via USB

Ambient CO/CO₂ measuring instrument **testo 315-3**

- Parallel and direct CO/CO₂ measurement
- TÜV-tested according to EN 50543
- Readings transferable to testo 330 (V2010)
- Data printout on site

	Measuring range	Accuracy ± 1 digit	Resolution
CO sensor	0 to 100 ppm	±3 ppm (0 to 20 ppm) ±5 ppm (> 20 ppm)	0.5 ppm
CO ₂ sensor	0 to 10000 ppm	±300 ppm (0 to 4000 ppm) ±8% of m.v. (4000 to 6000 ppm) ±500 ppm (6000 to 10000 ppm)	10 ppm
Temperature/humidity module	+5 to 95% RH -10 to +60 °C	±2.5% RH (5 to 95% RH) ±0.5 °C (±1 digit)	0.1% RH 0.1 °C

testo 400 IAQ and comfort kit with tripod

Universal IAQ measuring instrument incl. testo DataControl software, silicon hoses, mains power unit with USB cable, calibration protocol, CO₂ probe with Bluetooth®, degree of turbulence probe, globe thermometer, measurement tripod and transport case



Order no. 0563 0400 73

testo 440 Comfort combo kit BT

Air velocity & IAQ measuring instrument for air conditioning, ventilation and indoor air quality, CO₂ probe with Bluetooth, turbulence probe, includes USB cable, calibration protocol, batteries and case



Order no. 0563 4408

testo 315-3 without Bluetooth

Ambient CO/CO₂ measuring instrument without Bluetooth, includes USB mains unit and cable



Order no. 0632 3153

testo 315-3 Bluetooth

Ambient CO/CO₂ measuring instrument with Bluetooth, includes USB mains unit and cable

Order no. 0632 3154

Accessories for testo 315-3	Order no.
Temperature/humidity module Ø 25 mm, plug-in	0636 9725
testo fast printer IRDA with wireless infrared interface, includes 1 roll of thermal paper and 4 AA batteries	0554 0549
Control and calibration kit for humidity sensors (11.3% RH and 75.3% RH)	0554 0660

Monitoring system testo 160

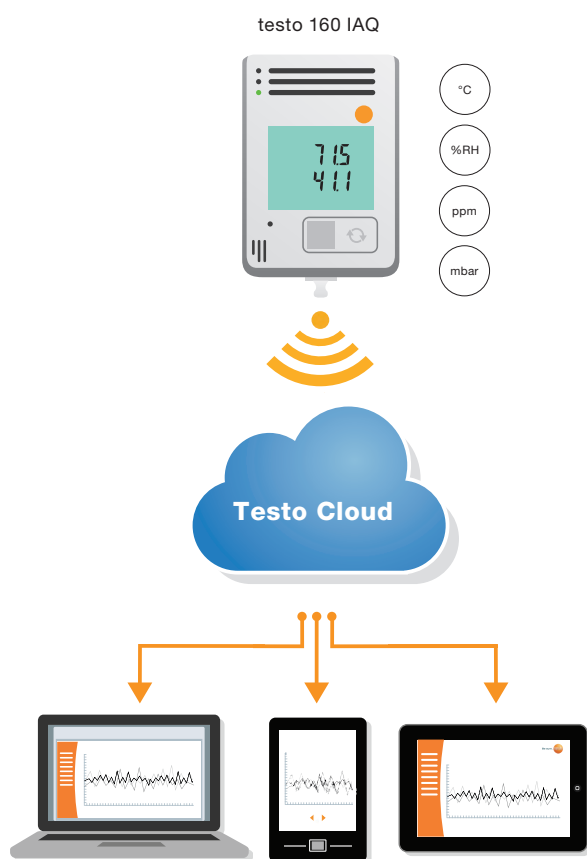
- Readings transferred to the Cloud storage via wireless LAN
- Readings can be accessed on all terminal devices
- Alerts via SMS or e-mail
- Inconspicuous design and small dimensions
- Deco-cover for optimum individual adaptation of the loggers to the surroundings

testo 160 IAQ

WiFi air quality logger with display and integrated sensors for temperature, humidity, CO₂ and atmospheric pressure



Order no. 0572 2014



Temperature measurement	
Measuring range	0 to +50 °C
Accuracy	±0.5 °C
Resolution	0.1 °C
Humidity measurement	
Measuring range	0 to 100% RH (non-condensing)
Accuracy	±2% RH at 25 °C and 20 to 80% RH ±3% RH at 25 °C and < 20% RH and > 80% RH ±1% RH hysteresis ±1% RH/year drift
Resolution	0.1% RH
CO ₂ measurement	
Measuring range	0 to 5000 ppm
Accuracy	±(50 ppm + 3% of m.v.) at +25 °C Without external power supply: ±(100 ppm + 3% of m.v.) at +25 °C
Resolution	1 ppm
Pressure measurement	
Measuring range	600 to 1100 mbar
Accuracy	±3 mbar at +22 °C
Resolution	1 mbar
WLAN	
Standard	802.11 b/g/n
Security	WPA2 Enterprise: EAP-TLS, EAP-TTLS-TLS, EAP-TTLS-MSCHAPv2, EAP-TTLS-PSK, EAP-PEAP0-TLS, EAP-PEAP0-MSCHAPv2, EAP-PEAP0-PSK, EAP-PEAP1-TLS, EAP-PEAP1-MSCHAPv2, EAP-PEAP1-PSK, WPA Personal, WPA2 (AES), WPA (TKIP), WEP

Accessories for testo 160 IAQ

Order no.

Deco-cover for testo 160 IAQ	0554 2012
Wall bracket for testo 160 IAQ	0554 2015
External USB power supply	0572 2020

The testo 160 Cloud

Delivery includes free access to the testo 160 Cloud. In the Cloud, you can view and manage the readings stored online, and use the alarm function via e-mail. The system can also be set up and configured here.

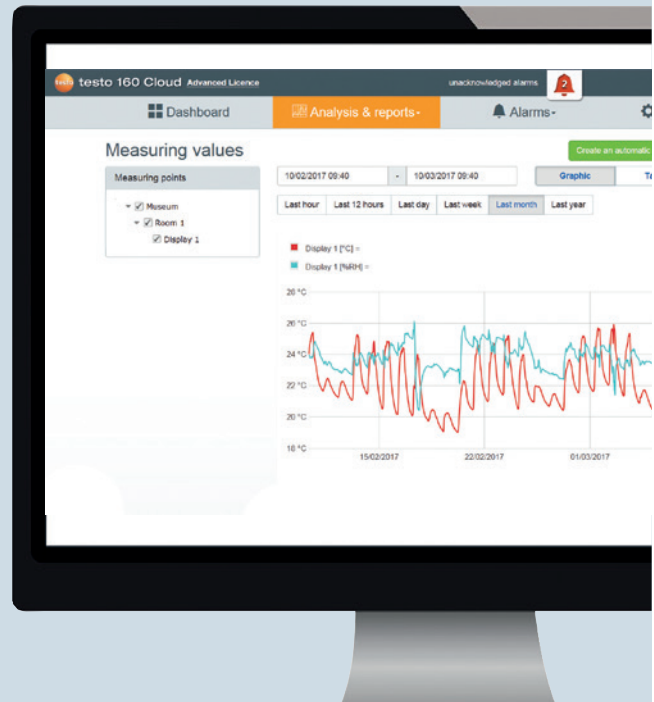
The advantages of the testo 160 Cloud at a glance:

- Central operating element for monitoring, documenting and managing all measuring points
- Secure protection of the measurement data from unauthorized access by third parties
- Automatic storage of your readings and constant availability of all measurement data
- Alarm function in the event of critical values
- Two licence packages (Basic, Advanced) with different features

Maximum flexibility with the Advanced licence:

- Measuring cycle freely adjustable
- Reports automatically sent by e-mail fulfil the duty to provide documentation
- Multiple user profiles – important, e.g. in the event of multiple sites
- Alerts also via SMS

Find out more about the Testo Cloud on page 29.



The testo Saveris 2 App

With the testo Saveris 2 App for iOS and Android, you can now operate the wireless LAN data logger system testo Saveris 160 even more easily and flexibly.

More efficient commissioning*:

- Easy identification and selection of the WiFi network
- Faster parallel commissioning of several loggers

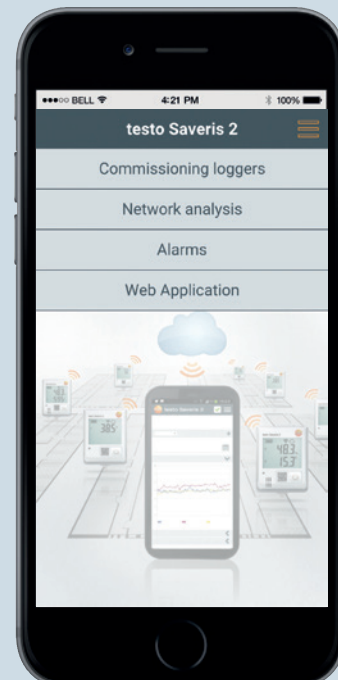
Easy network analysis*:

- Test the strength and range of your WiFi network
- Create and send status reports

Reliable alarm functions:

- Push notifications of limit value violations
- Combinable with e-mail or SMS alarms

* These functions are available only in the Android version of the testo Saveris 2 App.



testo Saveris 2 App

for free download



Pressure measuring instrument **testo 312-4**

- Tightness and serviceability test following pressure drop on gas pipes in accordance with DVGW-TRGI 2008
- Load test on gas pipes in accordance with DVGW-TRGI 2008 using the high-pressure probe
- Regulator testing by recording the readings over a defined period of time
- Checking the gas connection and gas flow pressure, as well as setting the nozzle pressure on gas burners and boilers
- Pressure test on drinking water pipes using water and with the aid of the high-pressure probe in accordance with DIN 1988 (TRWI) and using air in accordance with the ZVSHK information sheet
- Pressure test on waste water pipes using the high-pressure probe

testo 312-4

Differential pressure measuring instrument up to 200 hPa, DVGW-tested, includes battery and calibration protocol

Order no. 0632 0327



Basic kit testo 312-4

testo 312-4 differential pressure measuring instrument, Hose set for testo 312-4, Balloon pump with bleed screw, Conical test stop 1/2", Conical test stop 3/4", Testo fast printer, Pressure kit for gas pressure measurement on heating systems, System case



Order no. 0563 1327

Illustration may differ from original!

	Differential pressure (internal sensor in the testo 312-4)	Pressure (via high pressure probe)	Temperature (via external temperature probe type K)
Measuring range	0 to 200 hPa	0 to 25 bar	dependent on the temperature probe used
Accuracy ± 1 digit	± 0.03 hPa (0 to +3 hPa) $\pm 1.5\%$ of m.v. (+3.1 to +40 hPa) ± 2 hPa or $\pm 1\%$ of f.v. (+41 to +200 hPa)	$\pm 0.6\%$ of f.v. (0 to 10 bar) $\pm 0.6\%$ of f.v. (> 10 to 25 bar)	± 0.4 °C (-100 to +200 °C) ± 1 °C (remaining meas. range)
Resolution	0.01 hPa	10 hPa	0.01 °C

Accessories for testo 312-4

Order no.

Pressure kit for gas pressure measurement on heating units	0554 0449
Hose set for testo 312-4	0554 3172
Desktop mains unit with international connection option	0554 1143
RS232 cable with USB 2.0 adapter	0409 0178
testo fast printer IRDA with wireless infrared interface, includes 1 roll of thermal paper and 4 AA batteries	0554 0549
Instrument case (height: 130 mm) for instrument, probes and accessories	0516 3300
testo 316-1 electronic gas leak detector with flexible measuring probe, incl. battery (see page 51)	0632 0316
testo 316-2 electronic gas leak detector with flexible measuring probe, incl. mains charger and earphones (see page 51)	0632 3162
Manual test pump for generating the test pressure	0554 3157
High pressure probe up to 25 bar	0638 1748

Detector for gas pipe leaks **testo 316-1**

- Flexible measuring probe for difficult-to-access areas
- TopSafe protective case protects from dirt and impacts (option)
- Audible alarm if limit values are exceeded
- Visual alarm

	Methane
Measuring range	0 to 10000 ppm CH ₄
Lower response threshold	100 ppm
1. Alarm threshold	from 200 ppm CH ₄ (Yellow LED)
2. Alarm threshold	from 10000 ppm CH ₄ (LED red)

testo 316-1

Electronic gas leak detector with flexible measuring probe, includes battery

Order no. 0632 0316



Gas leak detector for fast control measurements **testo 316-2**

- Visual and audible alarm thanks to bar display for increasing and dangerous gas concentrations
- Trend display indicates maximum leakages
- Integrated pump
- Flexible probe for inaccessible areas
- Earplug connection for safe leakage detection in loud environments
- Long service life with battery operation

testo 316-2

Electronic gas leak detector with flexible probe, incl. mains charger and earphones

Order no. 0632 3162



	Methane	Propane	Hydrogen
Measuring range	10 ppm to 4.0 vol% CH ₄	10 ppm to 1.9 vol% C ₃ H ₈	10 ppm to 4.0 vol% H ₂
Lower response threshold	10 ppm	10 ppm	10 ppm
1. Alarm threshold	200 ppm CH ₄	100 ppm C ₃ H ₈	200 ppm H ₂
2. Alarm threshold	10000 ppm CH ₄	5000 ppm C ₃ H ₈	10000 ppm H ₂

Pressure and leakage tester **testo 324**

- All measurements on gas and water pipes using one instrument, e.g. gas pipes according to TRGI 2008 G-600 and drinking water pipes according to ZVSHK EN 806-4
- High-resolution graphic colour display
- Easy menu guidance
- Extremely easy to operate thanks to the single-hose connection
- Case with gas bladder
- Integrated pressure build up to 300 mbar
- High-precision sensors
- DVGW-compliant measurement results

Leakage measurement	Measuring range: 0 to 10 l/h Accuracy: ± 0.2 l/h or $\pm 5\%$ of m.v.
Pressure measurement	Measuring range: 0 to 1000 hPa Accuracy: ± 0.5 hPa or $\pm 3\%$ of m.v.
Pressure measurement with a high pressure probe (optional)	Measuring range: 0 to 25 bar Accuracy: $\pm 0.6\%$ of f.v. (0 to 10 bar)/ $\pm 0.6\%$ of f.v. (> 10 to 25 bar)
Absolute pressure measurement	Measuring range: 600 to 1150 hPa Accuracy: ± 3 hPa
Overload	to 1200 hPa
Temperature measurement TC type K (only instrument)	Measuring range: -40 to $+600$ °C Accuracy: ± 0.5 °C or $\pm 0.5\%$
Temperature measurement NTC type 5K (instrument only)	Measuring range: -20 to $+100$ °C
DVGW authorization according to G 5952	Instrument class L up to volume = 200 litres

testo 324 basic kit

Leakage measuring instrument for all legally required tests, mains unit, system case including feed unit, terminal block* with connection hose, manual test pump for generating the test pressure, adapter for gas boiler's test port, high-pressure stage stops $\frac{3}{4}$ " and $1\frac{1}{4}$ ", testo easyHeat PC software

Order no. 0563 3240 70

* Instrument, pump, and hose connections, incl. overpressure valve and stopcock




Gas and water kit **testo 324**

Leakage measuring instrument for professional measurement, documentation and testing, mains unit for testo 324 (can also be used for basic printer), system case including feed unit, terminal block and connection hose, manual test pump for generating the test pressure, adapter for gas boiler's test port, Y-distributor, high-pressure probe up to 25 bar, high-pressure connection, conical test stops $\frac{1}{2}$ ", $\frac{3}{4}$ ", high-pressure stage stops: $\frac{3}{8}$ " + $\frac{3}{4}$ ", $\frac{1}{2}$ " + 1 ", $\frac{3}{4}$ " + $1\frac{1}{4}$ ", PC software testo easyHeat



Order no. 0563 3240 77

Accessories for testo 324

		Order no.
	Single-pipe counter cap, connects test fittings to pipe	0554 3156
	Basic infrared printer (incl. batteries)	0554 0549
	testo 316-2 Electronic gas leak detector with flexible measuring probe, incl. mains charger and earphones (see page 51)	0632 3162

Sound level meter

testo 816-1

- Sound level metering according to IEC 61672-1 class 2 and ANSI S1.4 type 2
- Frequency assessment A and C
- Time evaluation can be changed between Fast and Slow

Measuring range	30 to 130 dB
Frequency range	20 Hz to 8 kHz
Accuracy ±1 digit	±1.4 dB (under reference conditions: 94 dB, 1 kHz)
Resolution	0.1 dB

testo 816-1

Sound level meter, includes microphone, wind protection, PC software, connection cable, instruction manual on CD-ROM and batteries in the system case



Order no. 0563 8170

Accessories

Order no.

Calibrator for the regular calibration of testo 815 and testo 816-1

0554 0452

Lux meter

testo 540

- Sensor adjusted to spectral sensitivity of the eye
- Hold function and maximum and minimum values
- Display illumination

Measuring range	0 to 99999 lux
Accuracy ±1 digit	±3 lux or ±3% of m.v. (compared to reference class B, DIN 5032 part 7)
Resolution	1 lux (0 to 19999 lux) 10 lux (remaining meas. range)

testo 540

Handy lux meter, includes protective cap, calibration protocol and batteries



Order no. 0560 0540

Voltage tester **testo 750**

- Clear, patented all-round LED display
- Fibre-optic technology for optimum voltage indication
- Anti-slip ring for secure grip
- Ergonomic handle shape
- Measuring point illumination

Technical data	testo 750-2	testo 750-3
Voltage testing	12 to 690 V AC/DC	
Continuity testing	< 500 k Ω	
Rotating magnetic field testing	100 to 690 V AC at 50/60 Hz	
Single pole phase testing	100 to 690 V AC at 50/60 Hz	
RCD/FI trigger function	✓	✓
LC display	-	✓
Measuring point illumination	✓	✓
Measurement category	CAT IV 600 V CAT III 690 V	
Approvals	TÜV GS, CSA, CE	
Standard	EN 61243-3:2010	

testo 750-2

Voltage tester including batteries, measuring tip protector and measuring tip caps

Order no. 0590 7502



testo 750-3

Voltage tester including batteries, measuring tip protector and measuring tip caps

Order no. 0590 7503



Accessories for testo 750	Order no.
ISO calibration certificate voltage tester	0520 0750
DAkkS calibration certificate voltage tester	0520 0751

Current/voltage tester **testo 755**

- Automatic measurement parameter detection
- Certified according to voltage tester norm DIN EN 61243-3:2010
- Measurement result without switching on or selection
- Measuring point illumination
- Interchangeable measuring tips

Technical data	testo 755-1	testo 755-2
Voltage measuring range	6 to 600 V AC/DC	6 to 1000 V AC/DC
Current measuring range	0.1 to 200 A AC	
Resistance measuring range	30 Ω to 100 k Ω	
Continuity testing	< 30 Ω	
Rotating magnetic field testing	-	100 to 400 V AC at 50/60 Hz
Single pole phase testing	-	100 to 690 V AC at 50/60 Hz
Measuring point illumination	✓	
Measurement category	CAT IV 600 V CAT III 1000 V	
Approvals	TÜV GS, CSA, CE	
Standards	EN 61243-3:2010, EN 61010-1	

testo 755-1

Current/voltage tester including batteries and measuring tips

Order no. 0590 7551



testo 755-2

Current/voltage tester including batteries and measuring tips

Order no. 0590 7552



Accessories for testo 755	Order no.
Set of replacement measuring tips	0590 0015
ISO calibration certificate current/voltage tester	0520 0755
DAkkS calibration certificate current/voltage tester	0520 0756

Digital multimeter

testo 760

- Simple, modern operation with function keys instead of a rotary knob
- Measurement parameter detection and selection via the socket assignment
- Prevents incorrect settings
- True root mean square measurement TRMS

Technical data	testo 760-2	testo 760-3
True RMS		✓
Voltage measuring range	0.1 mV to 600 V AC/DC	0.1 mV to 1000 V AC/DC
Current measuring range	0.1 μ A to 10 A AC/DC	
Resistance measuring range	0.01 to 60 M Ω	
Frequency measuring range	2 Hz to 30 MHz	2 Hz to 60 MHz
Capacitance measuring range	0.001 nF to 30000 μ F	0.001 nF to 60,000 μ F
Temperature measuring range	-20 to +500°C	
Continuity testing		✓
Measurement category	CAT IV 600 V / CAT III 1000 V	
Approvals	TÜV GS, CSA, CE	
Standards	EN 61326-1	

Clamp meter testo 770

- Unique grab mechanism makes it easier to work at tight measuring points
- Auto AC/DC for current and voltage
- True root mean square measurement TRMS
- With additional functions, such as starting current, power and μ A measurement
- Bluetooth



testo Smart Probes App

Technical data	testo 770-2	testo 770-3
True RMS		✓
Voltage measuring range	1 mV to 600 V AC/DC	
Current measuring range	0.1 to 400 A AC/DC	0.1 to 600 A AC/DC
Performance measurement	-	✓
μ A measuring range	0.1 to 400 μ A AC/DC	0.1 to 600 μ A AC/DC
Resistance measuring range	0.1 Ω to 40 M Ω	0.01 Ω to 60 M Ω
Temperature measuring range	-20 to +500°C	
Bluetooth for connection to the testo Thermography App and testo Smart Probes App	-	✓
Measurement category	CAT IV 600 V / CAT III 1000 V	
Approvals	TÜV GS, CSA, CE	
Standards	EN 61326-1, EN 61140	

testo 760-2

TRMS multimeter, includes batteries, 1 set of measuring cables and 1 x adapter for type K thermocouples

Order no. 0590 7602



testo 760-3

TRMS multimeter, includes batteries and 1 set of measuring cables

Order no. 0590 7603



Accessories for testo 760	Order no.
Thermocouple adapter (Type K)	0590 0002
Clamp meter adapter	0590 0003
Magnetic suspension system	0590 0001
Set of safety crocodile clips, suitable for 0590 0011 and 0590 0012	0590 0008
Set of 4 mm standard measuring cables (angled connector), suitable for 0590 0008	0590 0011
Set of 4 mm standard measuring cables (straight connector), suitable for 0590 0008	0590 0012
Transport bag for testo 760	0590 0016
ISO calibration certificate multimeter	0520 0760
DAkkS calibration certificate multimeter	0520 0761

testo 770-2

TRMS clamp meter, includes batteries, 1 set of measuring cables and 1 x adapter for type K thermocouples

Order no. 0590 7702



testo 770-3

TRMS clamp meter, includes batteries and 1 set of measuring cables, with Bluetooth

Order no. 0590 7703



Accessories for testo 770	Order no.
Thermocouple adapter (Type K) (for testo 770-2/-3 only)	0590 0021
Set of safety crocodile clips, suitable for 0590 0011 and 0590 0012	0590 0008
Set of 4 mm standard measuring cables (angled connector), suitable for 0590 0008	0590 0011
Set of 4 mm standard measuring cables (straight connector), suitable for 0590 0008	0590 0012
Transport bag for testo 755/testo 770	0590 0017

Guaranteed comfort. Increased efficiency.

Measuring technology from Testo can help you to fulfil these tasks.

Efficient adjustment of refrigeration systems



Efficient adjustment of heating systems



Guarantee air quality and comfort



Check electrical installations



Efficient adjustment of ventilation systems

