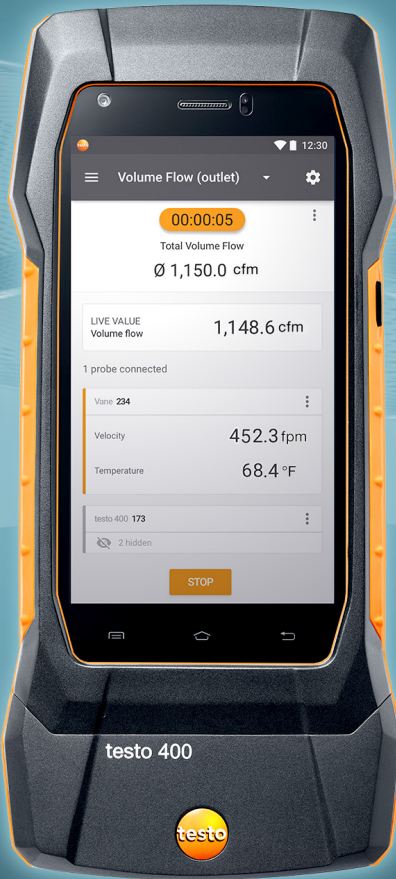


Be sure. **testo**



Air flow and IAQ measurement improved to the max.

The new universal IAQ instrument testo 400.

Smarter. Faster. Better:

The new generation of air flow and IAQ measurement technology.

Fast on:

Simply exchange probes during the measurement without a re-start.

Measurement assistant:

Smart support for error-free measurement.



To the videos:





Universally applicable:

Wide range of probes for all of your air flow & IAQ measurements.

Always ready to go:

Probes can be calibrated independently of the measuring instrument.

Save time:

Finish measurement with complete documentation directly on site with the customer.

Smarter: Easiest handling.

The new universal air flow and IAQ measuring instrument testo 400 and its broad selection of precision probes were developed with just one objective in mind: To make all measurement tasks in the ventilation and air conditioning sector easier and less complicated than ever before.



Everything under control at the touch of a finger

You operate the testo 400 with its Smart-Touch technology just as intuitively as your smartphone.

All data at a glance

You see all measurement data immediately and clearly on the large 5" HD display.

Wireless measurement with one click

You simply start and stop measurements with just one button on the probe handle.

Highly efficient allrounder

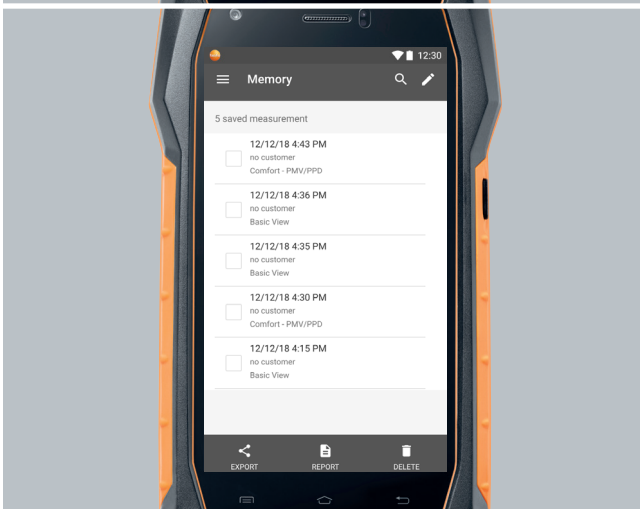
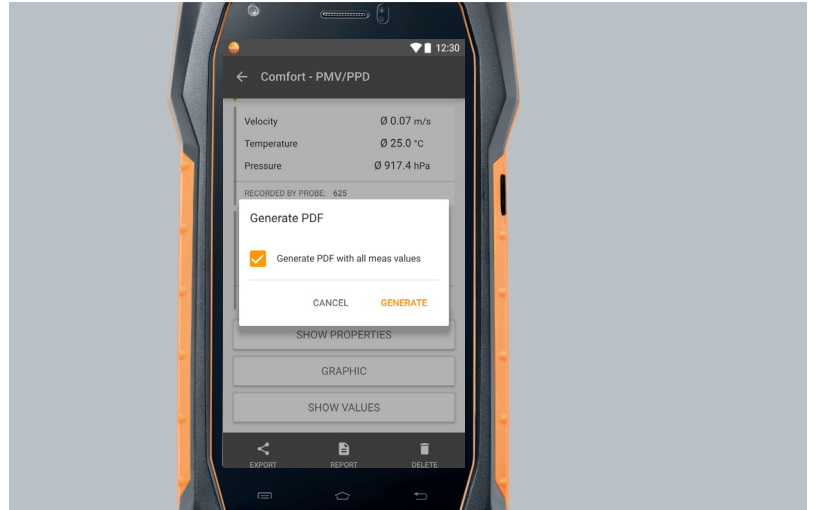
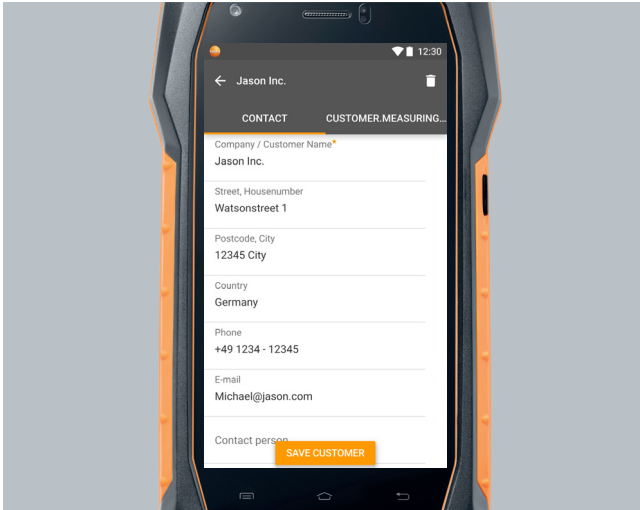
And for more demanding measurements, up to eight probes can be used simultaneously (4 x Bluetooth, 4 x cable).

Always have the right probe at your fingertips

The flexible Bluetooth and cable probes from the new probe range are completely compatible with each other.

Faster: Save time in documentation and measurement data management.

With the testo 400, you can now carry out worksteps which were previously only possible with a PC and software – directly on site with just one measuring instrument!



Customers and measurement sites are always with you

You can save customers and measurement sites directly in the measuring instrument, manage them and re-use them for repeated measurements.

Digital archive

All measurements are securely stored in the 1.3 GB memory in the instrument. You can retrieve everything quickly thanks to the intelligent search function.

Beat the paperwork

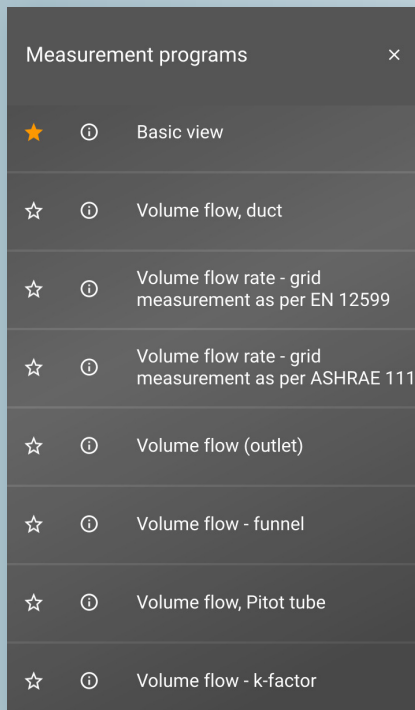
You create professional reports with all relevant data, images and comments directly on site, and you can send them right away by WiFi/Bluetooth.

The App for your PC

The measurement data management and analysis software testo DataControl for the most detailed analysis and reporting in the office is included in delivery.

Better: Error-free results with the measurement data assistant.

With the testo 400, you always have your own personal smart helper with you. The more demanding the measurement, the more the measurement assistant in the instrument supports you in configuration, execution and evaluation of results.



Fast support

The measurement assistant is there to help you in all relevant measurements. Thanks to intuitive menu structures and graphic presentation, you never lose the overview, even with multiple measurement points.

How the measurement assistant supports you in:

Air flow measurement according to EN12599 and ASHRAE 111

Configuration: Input of duct geometry, apertures and measurement points, calculation of measurement depths
Measurement: Graphically guided measurement with all relevant measurement points
Result: Statement of volume flow and the exact measurement inaccuracy

Volume flow rate - grid measurement as per ASHRAE...

00:00:01

Operating flow rate
1,112.68 \varnothing cfm

CURRENT VALUE

Volume flow 9.04 cfm

Flow velocity 7 fpm

5.2 in

STOP



PMV/PPD measurement in accordance with ASHRAE 55

Configuration: Determination of clothing index and activity
Measurement: Parallel measurement of ambient and radiated temperatures, flow velocity and relative humidity
Result: Statement as a PMV/PPD curve including evaluation

Comfort - PMV/PPD

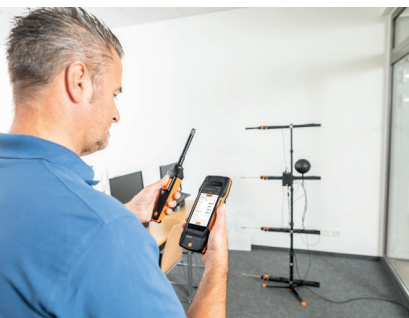
LIVE GRAPHIC TABLE

00:00:27

PPD (%)

PMV

STOP



Turbulence measurement

Configuration: Allocation of probes to measurement positions
Measurement: Simultaneous measurement at three heights according to norm
Result: Statement of measurement values at all heights as a value, table and graph.

Discomfort - Draft Rate

LIVE TRENDING VALUES

00:00:53

Turbulence 668

Velocity 7.87 fpm

Pressure 366.1 inH₂O

Temperature 72.8 °F

SELECT PROBE

NEW STOP



Improved to the max: Volume flow measurements.

How testo 400 convinces you in ducts and at outlets

- Measurement assistant for volume flow measurement according to norm.
- You have all measurement locations with you at all times and ready at your fingertips.
- Wireless Bluetooth probes for maximum freedom of movement at work.
- You simply finish measurement reports on site – directly with the testo 400.

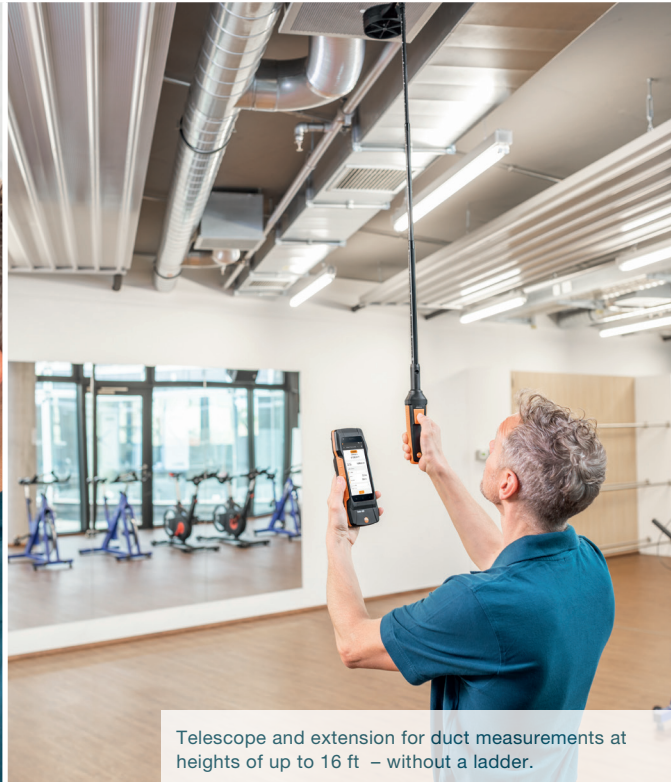
Duct measurement



Suitable probes



Outlet measurement



Telescope and extension for duct measurements at heights of up to 16 ft – without a ladder.

Suitable probes



Vane probe
(Ø 4 in) incl.
temperature sensor

High-precision vane probe
(Ø 4 in) incl.
temperature sensor



testovent 417 - funnel set



Extendable telescope
(14.7 – 39.4 in, including 90° angle)



Telescope extension
(35 in)



testo 400 air flow kit
for TAB / Commissioning professionals

- testo 400 universal instrument, including transport case for air flow measurement, testo DataControl software, power supply with USB cable and calibration protocol
- Hot wire probe with Bluetooth®, including temperature and humidity sensor (comprised of: hot wire probe head, telescope (extendable to 3.3 ft.) handle adapter and Bluetooth® handle), 4 x AA batteries and calibration protocol
- Vane anemometer probe head (Ø 4 in.), including temperature sensor and calibration protocol
- 2 x silicone pressure hoses and pitot tube (13.8 in.)
- 90° angle for connecting air flow probes



Order no. 0563 0407

Improved to the max: IAQ and comfort level measurements.

testo 400 – first choice for IAQ and comfort

- Measurement assistant for PMV/PPD measurement and determination of draft rates.
- IAQ data logger for long-term IAQ measurements independently of the instrument.
- Finish report either directly on site or later at a PC.

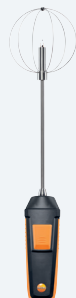
Comfort level measurement



Suitable probes



CO₂ probe
incl. temperature
and humidity
sensor



Turbulence probe



Globe thermometer

CO probe



Lux probe

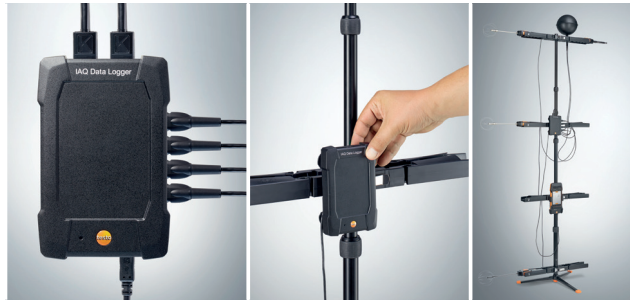


IAQ and Comfort level measurements



The ideal solution for flexible, long-term IAQ measurements

The IAQ data logger is configured and read out using the testo 400. Up to six probes can then be connected. This results in unheard of measurement possibilities for you – for example, you can now carry out turbulence measurements at three different heights simultaneously.



For a reliable measurement, simply attach all required probes to the tripod.

Our recommendation

IAQ data logger for long-term measurements with the testo 400

Comprising:

- IAQ data logger
- Power supply with USB cable



Order no. 0577 0400

Measuring tripod for comfort measurements

Comprising:


- Folding tripod, attachment bar
- 4 x probe holders, incl. bag



Order no. 0554 1590

testo 400 IAQ kit
for Commissioning and IAQ investigation professionals

- testo 400 universal instrument, including transport case, testo DataControl software, power supply with USB cable and calibration protocol
- CO₂ probe with Bluetooth®, including temperature and humidity sensor (comprised of: CO₂ probe head and Bluetooth® handle), 4 x AA batteries and calibration protocol
- CO probe with Bluetooth® (comprised of: CO probe head and Bluetooth® handle), 4 x AA batteries and calibration protocol



Order no. 0563 0408

testo 400 comfort kit
for comfort professionals in high performance buildings

- testo 400 universal instrument, including transport case for comfort level measurement, testo DataControl software, power supply with USB cable and calibration protocol
- Humidity / temperature probe with Bluetooth®, (comprised of: humidity probe head and Bluetooth® handle), 4 x AA batteries, and calibration protocol
- Turbulence probe with fixed cable, including calibration protocol
- Lux probe with fixed cable including calibration protocol



Order no. 0563 0409

Improved to the max: Measurements in laboratories, cleanrooms and industry

Always to hand, even for the highest demands

- Highest precision, especially in pressure and temperature measurements.
- Display all measurements as a table and graphic curve.
- Zero-error adjustment in the instrument for even more accurate measurements.

Measurements in cleanrooms and laboratories



The differential pressure sensor of the testo 400 fulfils the accuracy requirements of ISO 14644.

Suitable probes



High-precision vane probe
(Ø 4 in) incl. temperature sensor



Fume cupboard probe

High-precision humidity/temperature probe



Calibratable immersion/penetration probe (Pt100)

Glass-coated laboratory probe (Pt100)



Industry and production



With the testo 400, you can use up to eight probes simultaneously (4 x Bluetooth, 4 x cable).

Our recommendation

testo 400

Comprising:

- testo 400 universal IAQ measuring instrument + testo DataControl software
- Transport case for volume flow measurements
- Connection hose
- Power supply with USB cable and calibration protocol



Order no. 0560 0400



Suitable probes for your application

We are happy to advise you personally and individually, in order to find the right probes for your challenges.

Online: www.testo.com Telephone: 1-800-227-0729

Unbeatable duo: The new generation of air flow and IAQ measuring instruments.

With the new testo 400 universal IAQ measuring instrument, the already familiar testo 440 and the universal probe portfolio for both measuring instruments, we are completing our range of innovative climate measuring technology for all requirements.



The compact testo 440

Are you a service engineer, taking care of the general functional testing of air conditioning and ventilation plants? You only document measurement results occasionally, and when you do, you simply want to transfer the data to a PC? Then the testo 440 with its clear display, easy button operation, measurement data store in the instrument, as well as csv. export to your PC, is the ideal choice.

The flexible probe portfolio

The probes cover all air conditioning and ventilation applications and can be used with both the testo 440 and the testo 400. All handles and probes are mutually compatible, allowing you to expand your probe selection as required. Particularly useful: The digital probes can be calibrated independently of the measuring instrument. That means the measuring instrument remains in use and you can carry on working with other probes.

New: The universal testo 400

Are you an expert for complete ventilation systems or for proof of comfort – in accordance with norms? You place the highest demands on precision in cleanrooms, laboratories and industrial applications? Then you can fulfil your complex tasks smarter, faster and better with the testo 400. Thanks to the simplest Smart-Touch operation imaginable, complete data management on site and an intelligent measurement assistant.

Instruments and features in comparison.

| | testo 440 dP | testo 400 |
|--|------------------------------------|--|
| General | | |
| Colour graphic display | ✓ | ✓ HD display |
| Operation | Buttons | SmartTouch |
| Camera | – | ✓ Rear camera: 8.0 MP Front camera: 5.0 MP |
| Magnets on the rear | ✓ | ✓ |
| Integrated differential pressure sensor | ✓ | ✓ High-precision and position-independent |
| Integrated absolute pressure sensor | – | ✓ |
| Compatible with the new Testo probe portfolio | ✓ with cable 1x with Bluetooth® 1x | ✓ with cable 2x with Bluetooth® 4x |
| Thermocouple Type K connection | ✓ 1x | ✓ 2x |
| Intelligent calibration concept | ✓ | ✓ |
| Zero-error display: Adjustment function at up to 6 measuring points | – | ✓ |
| Measurement menus | | |
| Volume flow measurement | ✓ | ✓ |
| Volume flow measurement in accordance with EN 12599 (including measurement uncertainty) and ASHRAE 111 | – | ✓ |
| Pitot tube measurement | ✓ As from 2950 fpm | ✓ As from 985 fpm |
| Outlet measurement with funnel | ✓ | ✓ |
| Volume flow measurement using K factor (differential pressure) | ✓ | ✓ |
| Turbulence measurement in accordance with EN ISO 7730 | ✓ | ✓ At 3 heights at the same time |
| PMV/PPD measurement in accordance with EN ISO 7730 and ASHRAE 55 | – | ✓ |
| Logging mode | ✓ | ✓ |
| Stand-alone, configurable IAQ data logger | – | ✓ |
| Measurement data management | | |
| Internal memory (number of measurement values) | ✓ (225,000) | ✓ (1,000,000) |
| Customer and measuring point management | – | ✓ |
| PC software for analyzing, archiving and documenting measurement data | – | ✓ |
| Personalized measurement protocols (including own logo) | – | ✓ |
| Integrated camera for on-site documentation | – | ✓ |
| On-site printing | ✓ | ✓ |
| Export formats | CSV via USB interface | CSV, PDF, JSON via PC software or directly from the measuring instrument (e-mail or Bluetooth) |
| Technical data | | |
| Power supply | 3x AAA | Li-ion/li-poly rechargeable battery |
| Dimensions | 6.1 x 2.6 x 1.3 in | 8.3 x 3.7 x 1.5 in |
| Weight | 0.55 lb | 1.1 lb |

More precision and reliability with the testo 400.

Calibration and test equipment management from Testo Industrial Services

With our subsidiary company Testo Industrial Services, we offer you a competent partner in the field of calibration and test equipment management. Testo Industrial Services has over 200 accredited calibration procedures, making it one of the leading providers of metrological services. A team of qualified, motivated and service-oriented staff allows a high level of quality, with which norms, guidelines and certifications are always fulfilled. The regular calibration of your measuring instruments leads to reliable measurement results for quality assurance.

Unique calibration service



Electrics



Thermodynamics



Mechanics

Measurement
of length

Flow rate



Analysis



Acoustics

- **All from one source:**

New instrument and calibration directly from Testo

- **Broad service portfolio:**

Over 200 calibration procedures according to ISO & DAkkS

- **Holistic test equipment management:**

From the organization to the pick-up and delivery service to calibration

- **Independent of manufacturer:**

Calibration of measuring instruments from all manufacturers

Our recommendation

Regular calibration of measuring instruments is required anywhere they are used in quality-related areas. The digital probes can be calibrated independently of the measuring instrument. That means your universal IAQ measuring instrument testo 400 remains in use and you can carry on working with other probes.



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