

## Air velocity & IAQ meters

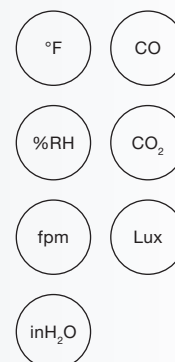
- testo 440 air velocity & IAQ meter
- testo 440 dP air velocity & IAQ meter incl. differential pressure

**Intuitive:** Clearly structured measurement menus for volume flow, heating & cooling load, K-factor, turbulence, data logging, mold indication, and more.

**Convenient:** Testo 440 kits include instrument-specific wireless and wired probes that offer greater measuring convenience and the instrument also connects to testo smart probes.

**Space-saving:** A universal Bluetooth or wired handle for all probes means more applications, with less equipment.

**Efficient:** Internal memory for up to 7,500 measurement points, a USB interface for data export and optional printout of all your measuring values.



Compatible with a wide selection of Bluetooth® and wired probes.

The testo 440 air velocity and IAQ meter combines all the benefits of a compact handheld device with intuitive measurement menus and a comprehensive selection of air velocity & IAQ probes. This means you have all measuring tasks on air conditioning and ventilation systems reliably under control.

You can connect the testo 440 to a large selection of digital probes, the testo Smart Probes, or even numerous Testo temperature probes, allowing for numerous configurations to meet your needs. The clearly structured menus for measuring volume flow in ducts and at outlets, cooling/heating load, K-factor, turbulence, mold indication and

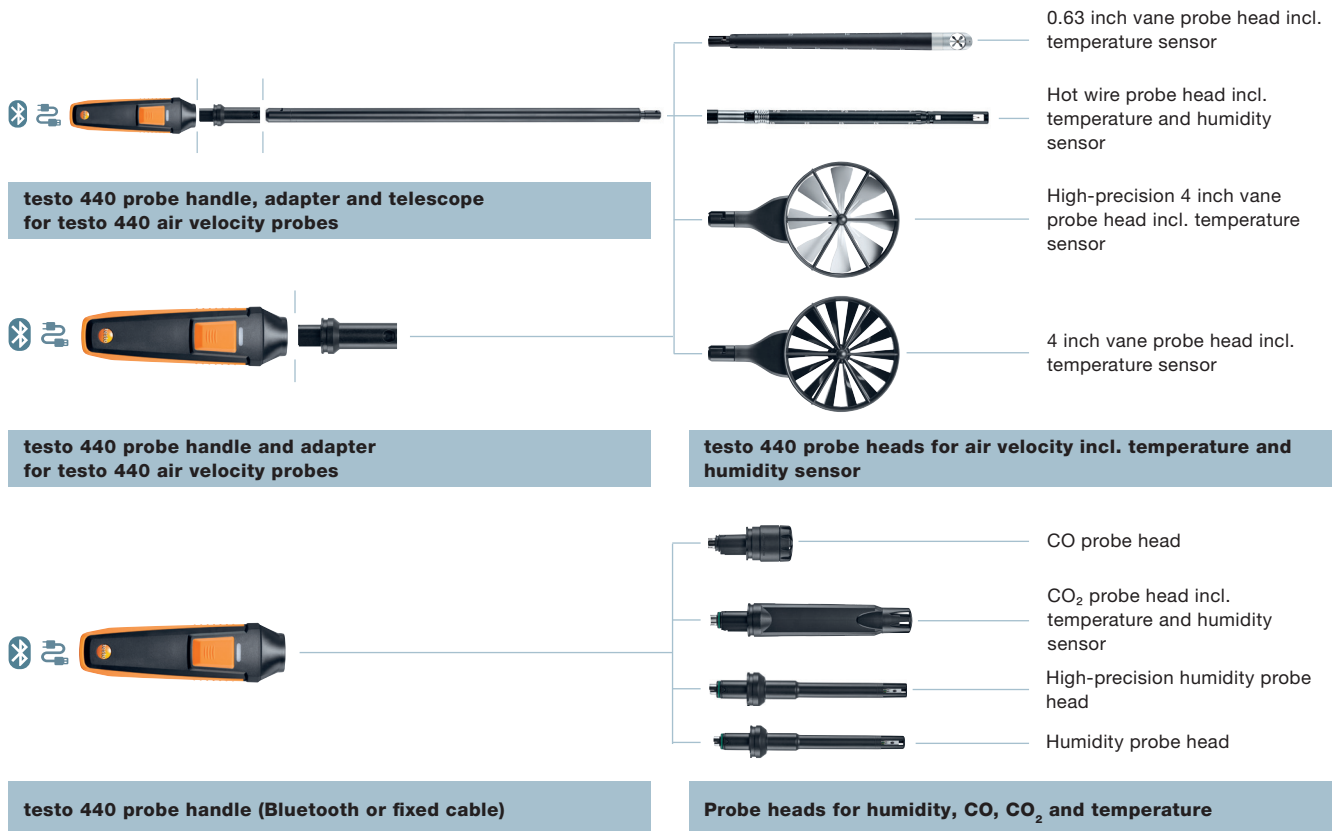
even a data logging mode are stored on the instrument for additional convenience. These menus enable you to accomplish the relevant measuring task more quickly, more efficiently and more reliably than ever before. Reports can also be exported as excel files via the USB interface or printed out directly on site.

The testo 440 air velocity & IAQ meter is available in two versions. The standard testo 440 and the testo 440 dP model version, which includes an integrated differential pressure sensor. This makes measurements at filters as well as Pitot tube and K-factor measurements possible.

## The testo 440 probe system

Completely versatile: a universal handle for all air velocity & IAQ probes. This saves space and reduces weight, enabling you to perform accurate measurements in any application.

With the testo 440, you can handle any air conditioning and ventilation system measurements that come your way.



## Advantages during measurement



All testo 440 air velocity probes for measurements in ducts have an optional scaled, extendible telescope (extends from 3 to 6.5 feet).



The 4 inch vane probe can be easily combined with the 90° angle and telescope, making measurements at ceiling outlets easier.



Do you need to carry out measurements in places where Bluetooth isn't possible? No problem: simply switch the probe head over from Bluetooth to the cable handle and you're ready to go.



With the testo 440 dP model, which includes a differential pressure sensor, you can ensure that the filters in air conditioning systems are working properly and no contamination in the outdoor air gets indoors.

## Ordering data for testo 440

### testo 440

Air velocity & IAQ meter, 3 x AA batteries, USB cable and calibration protocol.

Order no. 0560 4401



### testo 440 dP

Air velocity & IAQ meter with integrated differential pressure sensor, connection hose, 3 x AA batteries, USB cable and calibration protocol.

Order no. 0560 4402



## Technical data testo 440

|                                    | testo 440                                                                                                                | testo 440 dP                                                                                                                                    |
|------------------------------------|--------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------|
| Temperature (NTC)                  |                                                                                                                          |                                                                                                                                                 |
| Measuring range                    | -40.0 to 302.0 °F                                                                                                        |                                                                                                                                                 |
| Accuracy (±1 digit)                | ±1 °F (-40 to -13.2 °F)<br>±1 °F (-40 to -13.2 °F)<br>±0.7 °F (167 to 211.8 °F)<br>±0.5% of m.v. (remaining meas. range) |                                                                                                                                                 |
| Resolution                         | 0.1 °F                                                                                                                   |                                                                                                                                                 |
| Temperature (TC)                   |                                                                                                                          |                                                                                                                                                 |
| Measuring range                    | -328 to 2498 °F                                                                                                          |                                                                                                                                                 |
| Accuracy (±1 digit)                | (±0.2 °F + 0.3% of m.v.)                                                                                                 |                                                                                                                                                 |
| Resolution                         | 0.1 °F                                                                                                                   |                                                                                                                                                 |
| Differential pressure              |                                                                                                                          |                                                                                                                                                 |
| Measuring range                    | -                                                                                                                        | -60 to +60 InH <sub>2</sub> O                                                                                                                   |
| Accuracy (±1 digit)                |                                                                                                                          | ±0.02 InH <sub>2</sub> O (0 to 0.40 InH <sub>2</sub> O)<br>±0.1 InH <sub>2</sub> O + 0.6 InH <sub>2</sub> O<br>(0.40 to +60 InH <sub>2</sub> O) |
| Resolution                         |                                                                                                                          | 0.1 InH <sub>2</sub> O                                                                                                                          |
| Probe connections                  |                                                                                                                          |                                                                                                                                                 |
| TC type K                          | 1x                                                                                                                       |                                                                                                                                                 |
| NTC TUC / digital probe with cable | 1x                                                                                                                       |                                                                                                                                                 |
| Bluetooth probe                    | 1x digital Bluetooth probe<br>or testo Smart Probe                                                                       |                                                                                                                                                 |
| Differential pressure              | -                                                                                                                        | +                                                                                                                                               |
| Technical data                     |                                                                                                                          |                                                                                                                                                 |
| Operating temperature              | -4 to 122 °F                                                                                                             |                                                                                                                                                 |
| Storage temperature                | -4 to 122 °F                                                                                                             |                                                                                                                                                 |
| Battery type                       | 3 x AA batteries                                                                                                         |                                                                                                                                                 |
| Battery life                       | 12 h (typically vane measurement)                                                                                        |                                                                                                                                                 |
| Weight                             | 8.8 oz                                                                                                                   |                                                                                                                                                 |
| Dimensions                         | 6.1 x 2.6 x 1.3 in.                                                                                                      |                                                                                                                                                 |



The wired digital probes and the NTC probes of the testo 440 all have a convenient TUC connection (Testo **U**niversal **C**onnector).

## Ordering data for kits

### Kits for measurement in ducts, at outlets, and at filters

#### testo 440 delta P

##### Air Flow ComboKit 1 with BT

- testo 440 dP air velocity & IAQ measuring instrument incl. differential pressure with internal memory and data export function
- Universal probe handle with Bluetooth
- Hot wire probe head incl. temperature and humidity sensor
- 4 inch vane probe head incl. temperature sensor
- Telescopic extension (3 feet) and 90° angle to fit both probes
- Combo case for testo 440 dP and multiple probes



Order no. 0563 4409

#### testo 440 delta P

##### Air Flow ComboKit 2 with BT

- testo 440 dP air velocity & IAQ measuring instrument incl. differential pressure with internal memory and data export function
- Universal probe handle with Bluetooth
- 0.63 inch vane probe head incl. temperature sensor
- 4 inch vane probe head incl. temperature sensor
- Humidity probe head incl. temperature sensor
- Telescopic extension (3 feet) and 90° angle to fit both probes
- Combo case for testo 440 dP and multiple probes



Order no. 0563 4410

### Kits for measurements in ducts and at outlets

#### testo 440

##### Air Flow ComboKit 1 with BT

- testo 440 air velocity & IAQ measuring instrument with internal memory and data export function
- 4 inch vane probe with Bluetooth, incl. temperature sensor
- Hot wire probe with telescope (33.5 inch) incl. temperature sensor, fixed cable (6 feet)
- Measurement menu, e.g. for determining the volume flow
- Combo case for testo 440 and multiple probes



Order no. 0563 4406

#### testo 440

##### Air Flow ComboKit 2 with BT

- testo 440 air velocity & IAQ measuring instrument with internal memory and data export function
- 4 inch vane probe with Bluetooth, incl. temperature sensor
- 0.63 inch vane probe with telescope (33.5 inch), fixed cable (6 feet)
- Measurement menu, e.g. for determining the volume flow
- Combo case for testo 440 and multiple probes



Order no. 0563 4407

# Ordering data for kits

## Additional kits

### testo 440 Hot Wire Kit

- testo 440 air velocity & IAQ measuring instrument with internal memory and data export function
- Hot wire probe incl. temperature sensor, fixed cable (6 feet) with telescope (33.5 inch)
- Measurement menu, e.g. for determining the volume flow and timed and multi-point mean calculation
- Basic case for testo 440 and 1 probe

Order no. 0563 4400



### testo 440 0.63 inch Vane Kit

- testo 440 air velocity & IAQ measuring instrument with internal memory and data export function
- Vane probe, fixed cable (6 feet) with telescope (33.5 inch)
- Measurement menu, e.g. for determining the volume flow and timed and multi-point mean calculation
- Basic case for testo 440 and 1 probe

Order no. 0563 4401



### testo 440 4 inch Vane Kit with BT

- testo 440 air velocity & IAQ measuring instrument with internal memory and data export function
- 4 inch vane probe with Bluetooth, incl. temperature sensor
- Measurement menu, e.g. for determining the volume flow
- Basic case for testo 440 and 1 probe

Order no. 0563 4403



### testo 440 Indoor Comfort ComboKit with BT

- testo 440 air velocity & IAQ measuring instrument with internal memory and data export function
- Turbulence probe (4 inch)
- CO<sub>2</sub> probe with Bluetooth, incl. temperature and humidity sensor
- Combo case for testo 440 and multiple probes

Order no. 0563 4408



### testo 440 CO<sub>2</sub> Kit with BT

- testo 440 air velocity & IAQ measuring instrument
- CO<sub>2</sub> probe with Bluetooth, incl. temperature and humidity sensor
- Basic case for testo 440 and 1 probe

Order no. 0563 4405



### testo 440 Humidity Kit with BT

- testo 440 air velocity & IAQ measuring instrument
- Humidity and temperature probe with Bluetooth
- Basic case for testo 440 and 1 probe

Order no. 0563 4404



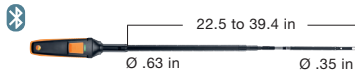
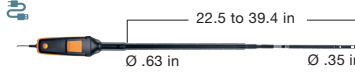
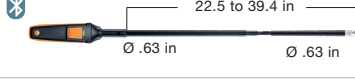
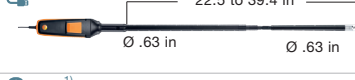
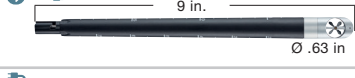
### testo 440 Lux Kit

- testo 440 air velocity & IAQ measuring instrument
- Lux probe
- Basic case for testo 440 and 1 probe

Order no. 0563 4402

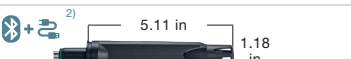
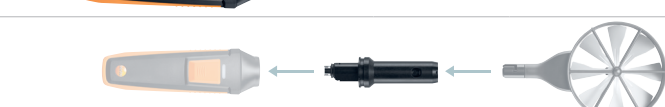


# Digital air velocity probes

| Probe type                                                                                                                                                                                                               |                                                                                     | Measuring range                               | Accuracy                                                                                                                                                                                                                                                              | Resolution                    | Order no. |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-----------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|-----------|
| Digital air velocity probes                                                                                                                                                                                              |                                                                                     |                                               |                                                                                                                                                                                                                                                                       |                               |           |
| Hot wire probe with Bluetooth, incl. temperature and humidity sensor                                                                                                                                                     |    | 0 to 9842.5 fpm<br>-4 to 158°F<br>5 to 95% RH | ±(5.91 fpm + 4% of m.v.)<br>(0 to 3937 fpm)<br>±(98.4 fpm + 5% of m.v.)<br>(3939 to 5905.5 fpm)<br>±0.9 °F (32 to 158 °F)<br>±1.4 °F (-4 to 32 °F)<br>±3.0% RH (10 to 35% RH)<br>±2.0% RH (35 to 65% RH)<br>±3.0% RH (65 to 90% RH)<br>±5% RH (remaining meas. range) | 1.97 fpm<br>0.1 °F<br>0.1% RH | 0635 1571 |
| Hot wire probe, fixed cable, incl. temperature and humidity sensor                                                                                                                                                       |    |                                               |                                                                                                                                                                                                                                                                       |                               | 0635 1572 |
| Hot wire probe head, incl. temperature and humidity sensor                                                                                                                                                               |    |                                               |                                                                                                                                                                                                                                                                       |                               | 0635 1570 |
| Vane probe (Ø 0.63 inch) with Bluetooth, incl. temperature sensor                                                                                                                                                        |    | 118 to 9842.5 fpm<br>14 to 158 °F             | ±(39.37 fpm + 1% of m.v.)<br>(118 to 7874 fpm)<br>±(39.37 fpm+ 2% of m.v.)<br>(7874 to 9842.5 fpm)<br>±3.2 °F                                                                                                                                                         | 1.97 fpm<br>0.1 °F            | 0635 9571 |
| Vane probe (Ø 0.63 inch), fixed cable, incl. temperature sensor                                                                                                                                                          |    |                                               |                                                                                                                                                                                                                                                                       |                               | 0635 9572 |
| Vane probe head (Ø 0.63 inch), incl. temperature sensor                                                                                                                                                                  |    |                                               |                                                                                                                                                                                                                                                                       |                               | 0635 9570 |
| Hot wire probe, fixed cable, incl. temperature sensor                                                                                                                                                                    |  | 0 to 5905.5 fpm<br>-4 to 158 °F               | ±(1.97 fpm + 4% of m.v.)<br>(0 to 3937 fpm)<br>±(98.42 fpm + 5% of m.v.)<br>±0.9 °F                                                                                                                                                                                   | 1.97 fpm<br>0.1 °F            | 0635 1032 |
| Vane probe (Ø 0.63 inch) fixed cable                                                                                                                                                                                     |  | 118 to 9842.5 fpm                             | ±(39.37 fpm + 1% of m.v.)<br>(118 to 7874 fpm)<br>±(39.37 fpm + 2% of m.v.)<br>(7874 to 9842.5 fpm)                                                                                                                                                                   | 19.7 fpm                      | 0635 9532 |
| Fume hood probe, fixed cable                                                                                                                                                                                             |  | 0 to 984.25 fpm<br>32 to +122 °F              | ±(39.37 fpm + 5% of m.v.)<br>(0 to 984.25 fpm)<br>±0.9 °F                                                                                                                                                                                                             | 1.97 fpm<br>0.1 °F            | 0635 1052 |
| To measure flows in ducts with a large cross-section, we recommend an extension set (0554 0990). This enables the telescope to be extended to up to 6.5 feet for all air velocity probes with an interchangeable handle. |                                                                                     |                                               |                                                                                                                                                                                                                                                                       |                               |           |
| High-precision vane probe (Ø 4 inch) with Bluetooth, including temperature sensor                                                                                                                                        |  | 19.7 to 2952.8 fpm<br>-4 to 158 °F            | ±(1.97 fpm + 1.5% of m.v.)<br>(19.7 to 2952.8 fpm)<br>±0.9 °F                                                                                                                                                                                                         | 1.97 fpm<br>0.1 °F            | 0635 9371 |
| High-precision vane probe (Ø 4 inch), fixed cable, incl. temperature sensor                                                                                                                                              |  |                                               |                                                                                                                                                                                                                                                                       |                               | 0635 9372 |
| High-precision vane probe head (Ø 4 inch), incl. temperature sensor                                                                                                                                                      |  |                                               |                                                                                                                                                                                                                                                                       |                               | 0635 9370 |
| Vane probe (Ø 4 inch) with Bluetooth, incl. temperature sensor                                                                                                                                                           |  | 59 to 6889.8 fpm<br>-4 to 158°F               | ±(0.1 m/s + 1.5% of m.v.)<br>59 to 3937 fpm)<br>±(39.37 fpm + 1.5% of m.v.)<br>(3939 to 6889.76 fpm)<br>±0.9 °F                                                                                                                                                       | 1.97 fpm<br>0.1 °F            | 0635 9431 |
| Vane probe (Ø 4 inch), fixed cable, incl. temperature sensor                                                                                                                                                             |  |                                               |                                                                                                                                                                                                                                                                       |                               | 0635 9432 |
| Vane probe head (Ø 4 inch), incl. temperature sensor                                                                                                                                                                     |  |                                               |                                                                                                                                                                                                                                                                       |                               | 0635 9430 |
| For convenient ceiling measurements, the telescope with 90° angle (0550 0960) has been developed. It can be easily attached to the 4 inch vane probes.                                                                   |                                                                                     |                                               |                                                                                                                                                                                                                                                                       |                               |           |

<sup>1)</sup> For use with cable handle (order no. 0554 2222) or Bluetooth handle (order no. 0554 1111) in conjunction with an adapter (order no. 0554 2160).

## Other digital probes and probe accessories

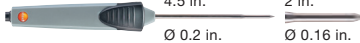
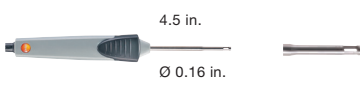
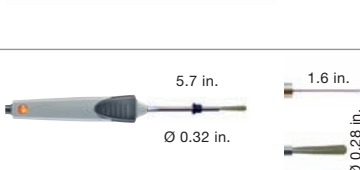
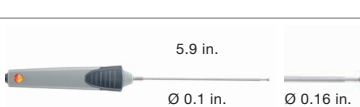
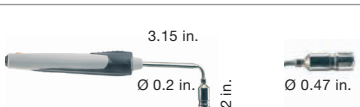
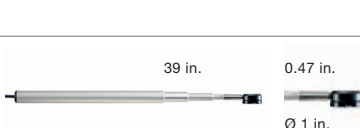
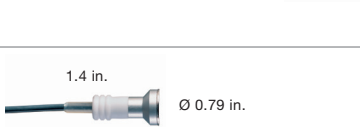
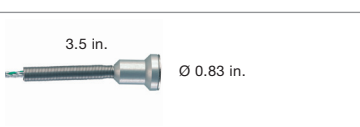
| Probe type                                                                   |                                                                                      | Measuring range                                                 | Accuracy                                                                                                                                                                                                             | Resolution                                           | Order no. |
|------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|-----------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------|-----------|
| Digital humidity probes                                                      |                                                                                      |                                                                 |                                                                                                                                                                                                                      |                                                      |           |
| Humidity/temperature probe with Bluetooth                                    |     | 0 to 100% RH<br>-4 to 158°F                                     | ±2% RH (5 to 90% RH)<br>±0.9 °F                                                                                                                                                                                      | 0.1% RH<br>0.1 °F                                    | 0636 9731 |
| Humidity/temperature probe, fixed cable                                      |     |                                                                 |                                                                                                                                                                                                                      |                                                      | 0636 9732 |
| Humidity/temperature probe head                                              |     |                                                                 |                                                                                                                                                                                                                      |                                                      | 0636 9730 |
| High-precision humidity/temperature probe with Bluetooth                     |     | 0 to 100% RH<br>-4 to 158°F                                     | ±(0.6% RH + 0.7% of m.v.)<br>(0 to 90% RH)<br>±(1.0% RH + 0.7% of m.v.)<br>(90 to 100% RH)<br>±0.5 °F (59 to 86 °F)<br>±0.9 °F (remaining meas. range)                                                               | 0.01% RH<br>0.1 °F                                   | 0636 9771 |
| High-precision humidity/temperature probe, fixed cable                       |     |                                                                 |                                                                                                                                                                                                                      |                                                      | 0636 9772 |
| High-precision humidity/temperature probe head                               |     |                                                                 |                                                                                                                                                                                                                      |                                                      | 0636 9770 |
| Robust humidity/temperature probe for temperatures up to 356 °F, fixed cable |     | 0 to 100% RH<br>-4 to 356°F                                     | ±3% RH (0 to 2% RH)<br>±2% RH (2.1 to 98% RH)<br>±3% RH (98.1 to 100% RH)<br>±0.9 °F (-4 to 32 °F)<br>±0.7 °F (32 to 122°F)<br>±0.9 °F (122 to 356 °F)                                                               | 0.1% RH<br>0.1 °F                                    | 0636 9775 |
| Digital comfort probes                                                       |                                                                                      |                                                                 |                                                                                                                                                                                                                      |                                                      |           |
| Turbulence probe, fixed cable                                                |   | 0 to 984.25 fpm<br>32 to 122 °F                                 | ±(5.9 fpm + 4% of m.v.)<br>(0 to 984.25 fpm)<br>±0.9 °F                                                                                                                                                              | 1.97 fpm<br>0.1 °F                                   | 0628 0152 |
| Lux probe, fixed cable                                                       |   | 0 to 100,000 lux                                                | DIN EN 13032-1 Appendix B<br>Class C according to<br>DIN 5032-7                                                                                                                                                      | 0.1 lux<br>(< 10,000 lux)<br>1 lux<br>(≥ 10,000 lux) | 0635 0551 |
| CO <sub>2</sub> probe with Bluetooth, incl. temperature and humidity sensor  |   | 0 to 10,000 ppm CO <sub>2</sub><br>5 to +95% RH<br>32 to 122 °F | ±(50 ppm + 3% of m.v.)<br>(0 to 5000 ppm)<br>±(100 ppm + 5% of m.v.)<br>(5001 to 10,000 ppm)<br>±3% RH (10 to 35% RH)<br>±2% RH (35 to 65% RH)<br>±3% RH (65 to 90% RH)<br>±5% RH (remaining meas. range)<br>±0.9 °F | 1 ppm<br>0.1% RH<br>0.1 °F                           | 0632 1551 |
| CO <sub>2</sub> probe, fixed cable, incl. temperature and humidity sensor    |   |                                                                 |                                                                                                                                                                                                                      |                                                      | 0632 1552 |
| CO <sub>2</sub> probe head incl. temperature and humidity sensor             |   |                                                                 |                                                                                                                                                                                                                      |                                                      | 0632 1550 |
| CO probe with Bluetooth                                                      |   | 0 to 500 ppm                                                    | ±3 ppm (0 to 30 ppm)<br>±10% of m.v.<br>(30.1 to 500 ppm)                                                                                                                                                            | 0.1 ppm                                              | 0632 1271 |
| CO probe, fixed cable                                                        |   |                                                                 |                                                                                                                                                                                                                      |                                                      | 0632 1272 |
| CO probe head                                                                |   |                                                                 |                                                                                                                                                                                                                      |                                                      | 0632 1270 |
| Probe handle and adapter                                                     |                                                                                      |                                                                 |                                                                                                                                                                                                                      |                                                      |           |
| Cable handle for connecting testo 440 probe heads                            |   |                                                                 |                                                                                                                                                                                                                      |                                                      | 0554 2222 |
| Bluetooth handle for connecting testo 440 probe heads                        |   |                                                                 |                                                                                                                                                                                                                      |                                                      | 0554 1111 |
| Handle adapter for connecting testo 440 air velocity probes                  |  |                                                                 |                                                                                                                                                                                                                      |                                                      | 0554 2160 |

<sup>2)</sup> For use with cable handle (order no. 0554 2222) or Bluetooth handle (order no. 0554 1111).

# testo Smart Probes

| testo Smart Probes                                                                                                                                                                      |                                                                                     | Measuring range                  | Accuracy $\pm 1$ digit                                                                                                                        | Resolution               | Order no. |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|----------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|-----------|
| <b>Temperature</b>                                                                                                                                                                      |                                                                                     |                                  |                                                                                                                                               |                          |           |
| <b>testo 115i</b><br>Clamp thermometer with smartphone operation, for measurements on pipelines with diameters of 0.25 to 1.5 inches, incl. batteries and calibration protocol          |    | -40 to 302 °F                    | $\pm 2.3$ °F (-4 to 185 °F)                                                                                                                   | 0.1 °F                   | 0560 1115 |
| <b>testo 905i</b><br>Thermometer with smartphone operation, including batteries and calibration protocol                                                                                |    | -58 to 302 °F                    | $\pm 2$ °F                                                                                                                                    | 0.1 °F                   | 0560 1905 |
| <b>testo 805i</b><br>Infrared thermometer with smartphone operation, including batteries and calibration protocol                                                                       |    | -22 to 482 °F                    | $2.7$ °F or $\pm 1.5$ % of mv (32 to 482 °F)<br>$\pm 4$ °F (-4 to 32 °F)<br>$\pm 4.5$ °F (-22 to -4.2 °F)                                     | 0.1 °F                   | 0560 1805 |
| <b>Humidity</b>                                                                                                                                                                         |                                                                                     |                                  |                                                                                                                                               |                          |           |
| <b>testo 605i</b><br>Thermohygrometer with smartphone operation, including batteries and calibration protocol                                                                           |    | 0 to 100% RH<br>-4 to 140 °F     | $\pm (1.8\% \text{ RH} + 3\% \text{ of m.v.})$ at 77 °F (5 to 80% RH)<br>$\pm 1.4$ °F (-4 to 32 °F)<br>$\pm 0.9$ °F (32 to 140 °F)            | 0.1% RH<br>0.1 °F        | 0560 1605 |
| <b>Flow</b>                                                                                                                                                                             |                                                                                     |                                  |                                                                                                                                               |                          |           |
| <b>testo 405i</b><br>Thermal anemometer with smartphone operation, telescopic tube extendible to up to 15.75 inches, incl. batteries and calibration protocol                           |  | 0 to 5906 fpm<br>-4 to 140 °F    | $\pm (19.7 \text{ fpm} + 5\% \text{ of mv})$ (0 to 394 fpm)<br>$\pm (59.1 \text{ fpm} + 5\% \text{ of mv})$ (394 to 2953 fpm)<br>$\pm 0.9$ °F | 1.97 fpm<br>0.1 °F       | 0560 1405 |
| <b>testo 410i</b><br>Vane anemometer with smartphone operation, including batteries and calibration protocol                                                                            |  | 78.7 to 5906 fpm<br>-4 to 140 °F | $\pm (39.4 \text{ fpm} + 2\% \text{ of mv})$ (78.7 to 3937 fpm)<br>$\pm 0.9$ °F                                                               | 19.7 fpm<br>0.1 °F       | 0560 1410 |
| <b>Pressure</b>                                                                                                                                                                         |                                                                                     |                                  |                                                                                                                                               |                          |           |
| <b>testo 510i</b><br>Differential pressure measuring instrument with smartphone operation, including hose set (Ø 0.15 in. and 0.2 in.) with adapter, batteries and calibration protocol |  | -60 to +60 InH <sub>2</sub> O    | $\pm 0.02$ InH <sub>2</sub> O<br>$\pm (0.1 \text{ InH}_2\text{O} + 1.5\% \text{ of mv})$ (+0 to +60 InH <sub>2</sub> O)                       | 0.004 InH <sub>2</sub> O | 0560 1510 |
| <b>testo 549i</b><br>High-pressure measuring instrument with smartphone operation, including batteries and calibration protocol                                                         |  | -14 to +870 psi                  | 0.5% of final value                                                                                                                           | 0.14 psi                 | 0560 1549 |

# Analog temperature probes

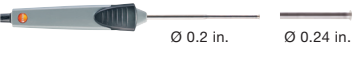
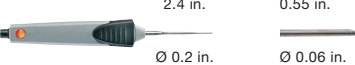
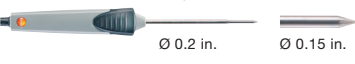
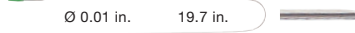
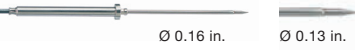
| Probe type                                                                                                                                                                                          | Dimensions<br>Probe shaft/probe shaft tip                                           | Measuring range | Accuracy                                                                               | t <sub>99</sub> | Order no. |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-----------------|----------------------------------------------------------------------------------------|-----------------|-----------|
| Watertight immersion/penetration probe NTC, fixed cable 4 feet                                                                                                                                      |    | -58 to 302 °F   | ±0.5 % of mv (212 to 302 °F)<br>±0.4 °F (-13 to 166.8 °F)<br>±0.7 °F (Remaining Range) | 10 s            | 0615 1212 |
| Robust air probe, NTC, fixed cable 4 feet                                                                                                                                                           |    | -58 to 257 °F   | ±0.4 °F (-13° to 176 °F)<br>±0.7 °F (Remaining Range)                                  | 60 s            | 0615 1712 |
| Clamp probe for measurements on pipes from 0.25 to 1.5 in. diameter, NTC, fixed cable 5 feet                                                                                                        |    | -40 to 257 °F   | ±1.8 °F (-4 to 185 °F)                                                                 | 60 s            | 0615 5505 |
| Robust air probe, TC type K, fixed cable                                                                                                                                                            |    | -76 to 752 °F   | Class 2 <sup>1)</sup>                                                                  | 200 s           | 0602 1793 |
| Fast-reaction surface probe with sprung thermocouple strip, also suitable for non-plane surfaces, measuring range briefly up to 932 °F, TC type K, fixed cable                                      |    | -76 to 572 °F   | Class 2 <sup>1)</sup>                                                                  | 3 s             | 0602 0393 |
| Fast-reaction paddle surface probe, for measurements in places that are difficult to access, e.g. narrow openings and cracks, TC type K, fixed cable                                                |   | 32 to 572 °F    | Class 2 <sup>1)</sup>                                                                  | 5 s             | 0602 0193 |
| Precise, watertight surface probe with small measuring head for plane surfaces, TC type K, fixed cable                                                                                              |  | -76 to 1832 °F  | Class 1 <sup>1)</sup>                                                                  | 20 s            | 0602 0693 |
| Fast-reaction surface probe with sprung thermocouple strip, angled for non-plane surfaces as well, measuring range briefly up to 932 °F, TC type K, fixed cable                                     |  | -76 to 572 °F   | Class 2 <sup>1)</sup>                                                                  | 3 s             | 0602 0993 |
| Surface temperature probe TC type K, with telescope max. 39 in., for measurements in places that are difficult to access, fixed cable 5.25 ft. (correspondingly shorter when telescope is extended) |  | -58 to 482 °F   | Class 2 <sup>1)</sup>                                                                  | 3 s             | 0602 2394 |
| Magnetic probe, adhesive power approx. 20 N, with magnets, for measurements on metal surfaces, TC type K, fixed cable                                                                               |  | -58 to 338 °F   | Class 2 <sup>1)</sup>                                                                  | 150 s           | 0602 4792 |
| Magnetic probe, adhesive power approx. 10 N, with magnets, for higher temperatures, for measurements on metal surfaces, TC type K, fixed cable                                                      |  | -58 to 752 °F   | Class 2 <sup>1)</sup>                                                                  |                 | 0602 4892 |

<sup>1)</sup> According to standard EN 60584-2, the accuracy of Class 1 refers to -40 to 1832 °F (type K), Class 2 to -40 to 2192 °F (type K), Class 3 to -328 to 104 °F (type K).  
A probe only ever complies with one accuracy class.

## Information about surface measurement:

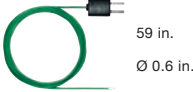
- The specified response times t<sub>99</sub> are measured on polished steel or aluminium plates at 140 °F.
- The specified accuracies are sensor accuracies.
- Accuracy in your application depends on the surface properties (roughness), the material of the measurement object (thermal capacity and heat transfer) and the sensor accuracy. Testo will produce a corresponding calibration certificate for the deviations of your measurement system in your application. For this, Testo uses a surface test bed developed in cooperation with the PTB (Physikalisch Technische Bundesanstalt - National Metrology Institute of Germany).

# Analog temperature probes

| Probe type                                                                                                                                                            | Dimensions<br>Probe shaft/probe shaft tip                                                                                                                                                                          | Measuring<br>range | Accuracy              | t <sub>99</sub> | Order no. |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|-----------------------|-----------------|-----------|
| Watertight surface probe with wider measuring tip for plane surfaces, TC type K, fixed cable                                                                          |                                                                                                                                   | -76 to 752 °F      | Class 2 <sup>1)</sup> | 30 s            | 0602 1993 |
| Pipe wrap probe with Velcro strip, for measuring temperatures on pipes with diameters up to max. 4.7 in., Tmax 248 °F, TC type K, fixed cable                         |                                                                                                                                   | -58 to 248 °F      | Class 1 <sup>1)</sup> | 90 s            | 0628 0020 |
| Pipe wrap probe for pipe diameters 0.2 in. to 2.5 in., with interchangeable measuring head, measuring range briefly up to 536 °F, TC type K, fixed cable              |                                                                                                                                   | -76 to 266 °F      | Class 2 <sup>1)</sup> | 5 s             | 0602 4592 |
| Replacement measuring head for pipe wrap probe, TC type K                                                                                                             |                                                                                                                                   | -76 to 266 °F      | Class 2 <sup>1)</sup> | 5 s             | 0602 0092 |
| Clamp probe for measurements on pipes, pipe diameters 0.5 to 1 in., measuring range briefly up to 266 °F, TC type K, fixed cable                                      |                                                                                                                                  | -58 to 212 °F      | Class 2 <sup>1)</sup> | 5 s             | 0602 4692 |
| Precise and fast immersion probe, flexible, watertight, TC type K, fixed cable                                                                                        |                                                                                                                                 | -76 to 1832 °F     | Class 1 <sup>1)</sup> | 2 s             | 0602 0593 |
| Ultra-fast, watertight immersion/penetration probe, TC type K, fixed cable                                                                                            |                                                                                                                                 | -76 to 1472 °F     | Class 1 <sup>1)</sup> | 3 s             | 0602 2693 |
| Immersion measuring tip, flexible, TC type K                                                                                                                          |                                                                                                                                 | -328 to 1832 °F    | Class 1 <sup>1)</sup> | 5 s             | 0602 5792 |
| Immersion measuring tip, flexible, TC type K                                                                                                                          |                                                                                                                                 | -328 to 104 °F     | Class 3 <sup>1)</sup> | 5 s             | 0602 5793 |
| Immersion measuring tip, flexible, for measurements in air/flue gases (not suitable for measurements in smelters), TC type K                                          |                                                                                                                                 | -328 to 2372 °F    | Class 1 <sup>1)</sup> | 4 s             | 0602 5693 |
| Watertight immersion/penetration probe, TC type K, fixed cable                                                                                                        |                                                                                                                                 | -76 to 752 °F      | Class 2 <sup>1)</sup> | 7 s             | 0602 1293 |
| Flexible, low-mass immersion measuring tip, ideal for measurements in small volumes, such as Petri dishes or for surface measurements (e.g. fixed with adhesive tape) | <br>TC type K, 2 m, FEP-insulated thermal wire, temperature-resistant up to 392 °F, oval cable with dimensions: 0.09 x 0.06 in. | -328 to 1832 °F    | Class 1 <sup>1)</sup> | 1 s             | 0602 0493 |
| Watertight food probe made of stainless steel (IP 65), TC type K, fixed cable                                                                                         |                                                                                                                                 | -76 to 752 °F      | Class 2 <sup>1)</sup> | 7 s             | 0602 2292 |

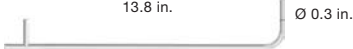
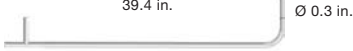
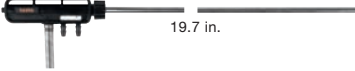
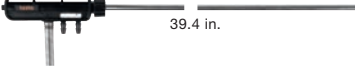
<sup>1)</sup> According to standard EN 60584-2, the accuracy of Class 1 refers to -40 to 1832 °F (type K), Class 2 to -40 to 2192 °F (type K), Class 3 to -328 to +104 °F (type K).  
A probe only ever complies with one accuracy class.

## Analog probes

| Probe type                                                                           | Dimensions<br>Probe shaft/probe shaft tip                                         | Measuring range | Accuracy              | t <sub>99</sub> | Order no. |
|--------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------|-----------------------|-----------------|-----------|
| <b>Thermoelectric couples</b>                                                        |                                                                                   |                 |                       |                 |           |
| Thermoelectric couple with TC plug, flexible, length 31.5 in., fibreglass, TC type K |  | -58 to 752 °F   | Class 2 <sup>1)</sup> | 5 s             | 0602 0644 |
| Thermoelectric couple with TC plug, flexible, length 59 in., fibreglass, TC type K   |  | -58 to 752 °F   | Class 2 <sup>1)</sup> | 5 s             | 0602 0645 |
| Thermoelectric couple with TC plug, flexible, length 59 in., PTFE, TC type K         |  | -58 to 482 °F   | Class 2 <sup>1)</sup> | 5 s             | 0602 0646 |
| <b>Comfort probe</b>                                                                 |                                                                                   |                 |                       |                 |           |
| Globe thermometer Ø 5.9 in., TC type K, for measuring radiant heat                   |  | 32 to 248 °F    | Class 1 <sup>1)</sup> |                 | 0602 0743 |

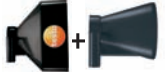
<sup>1)</sup> According to standard EN 60584-2, the accuracy of Class 1 refers to -40 to 1832 °F (type K), Class 2 to -40 to 2192 °F (type K), Class 3 to -328 to 104 °F (type K).  
A probe only ever complies with one accuracy class.

## Pitot tubes

| Probe type                                                                                           | Dimensions<br>Probe shaft/probe shaft tip                                           | Measuring range                                                                                                                          | Order no. |
|------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------|-----------|
| Pitot tube, length 19.7 in., Ø 0.3 in., stainless steel, for measuring flow velocity*                |  | Measuring range 197 to 19685 fpm<br>Operating temperature 32 to 1,112 °F<br>Pitot tube factor 1.0                                        | 0635 2045 |
| Pitot tube, length 13.8 in., Ø 0.3 in., stainless steel, for measuring flow velocity*                |  | Measuring range 197 to 19685 fpm<br>Operating temperature 32 to 1,112 °F<br>Pitot tube factor: 1.0                                       | 0635 2145 |
| Pitot tube, length 39.4 in., Ø 0.3 in., stainless steel, for measuring flow velocity*                |  | Measuring range 197 to 19685 fpm<br>Operating temperature 32 to 1,112 °F<br>Pitot tube factor: 1.0                                       | 0635 2345 |
| Straight Pitot tube with integrated temperature measurement, incl. connection hose, length 14.17 in. |  | Measuring range: 197 to 5906 fpm<br>Operating temperature: 32 to 1,112 °F<br>Pitot tube factor: 0.67<br>Minimum immersion depth: 5.9 in. | 0635 2043 |
| Straight Pitot tube with integrated temperature measurement, incl. connection hose, length 19.7 in.  |  | Measuring range: 197 to 5906 fpm<br>Operating temperature: 32 to 1,112 °F<br>Pitot tube factor: 0.67<br>Minimum immersion depth: 5.9 in. | 0635 2143 |
| Straight Pitot tube with integrated temperature measurement, incl. connection hose, length 39.4 in.  |  | Measuring range: 197 to 5906 fpm<br>Operating temperature: 32 to 1,112 °F<br>Pitot tube factor: 0.67<br>Minimum immersion depth: 5.9 in. | 0635 2243 |

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

# Accessories

| Accessories for digital air velocity probes                                              |                                                                                                                                      | Order no. |
|------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------|-----------|
|         |                                                                                                                                      |           |
| Extendible telescope for testo 440 air flow probes (14.8 to 39.4 inches incl. 90° angle) |                                                                                                                                      | 0554 0960 |
|         |                                                                                                                                      |           |
| Telescope extension (35.4 in.) for testo 440 flow probes                                 |                                                                                                                                      | 0554 0990 |
| Other accessories                                                                        |                                                                                                                                      | Order no. |
|         | Measuring stand for comfort level measurements with standard-compliant positioning of probes (incl. case)                            | 0554 1590 |
|         | Combo case for testo 440 and multiple probes                                                                                         | 0516 4401 |
|         | Service case for volume flow measurement                                                                                             | 0516 4900 |
|         | testovent 410 volume flow rate funnel, Ø 13.4 in. / 13 x 13 in., incl. case                                                          | 0554 0410 |
|       | testovent 415 volume flow rate funnel, Ø 8.3 in. / 7.5 x 7.5 in., incl. case                                                         | 0554 0415 |
|       | testovent 417 funnel set comprising funnel for plate outlets (Ø 7.9 in.) and funnel for fans (13 x 13 in.) for incoming/outgoing air | 0563 4170 |
|       | Flow straightener testovent 417                                                                                                      | 0554 4172 |
|       | USB power supply incl. cable                                                                                                         | 0554 1105 |

| Other accessories                                                                                                                          |                                                                                                          | Order no.   |
|--------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------|-------------|
| Connection hose, silicone, length 16 feet, maximum load capacity 2.8 inH <sub>2</sub> O                                                    |                                                                                                          | 0554 0440   |
| Connection hose silicone-free for differential pressure measurement, length 16 feet, maximum load capacity 2.8 inH <sub>2</sub> O          |                                                                                                          | 0554 0453   |
| Control and calibration set for Testo humidity probes, saline solution with 11.3% RH and 75.3% RH, incl. adapter for Testo humidity probes |                                                                                                          | 0554 0660   |
| Printer                                                                                                                                    |                                                                                                          | Order no.   |
|                                                           | Bluetooth®/IRDA printer incl. battery and power supply                                                   | 0554 0621   |
|                                                                                                                                            | Spare thermal paper for printer (6 rolls), measurement data documentation can be read for up to 10 years | 0554 0568   |
| Calibration certificates                                                                                                                   |                                                                                                          | Order no.   |
| Calibration certificate CO <sub>2</sub>                                                                                                    |                                                                                                          | 400520 0033 |
| NIST Temp certificate with 3 standard points: 50; 77; 104 °F or 68; 77; 104 °F                                                             |                                                                                                          | 400520 1901 |
| NIST Temperature certificate 3 cust. pts                                                                                                   |                                                                                                          | 400520 1902 |
| NIST RH certificate with 2 standard points 11.3% and 75.3% RH at 77 °F                                                                     |                                                                                                          | 400520 2601 |
| NIST RH certificate 2 cust. pts                                                                                                            |                                                                                                          | 400520 2602 |
| NIST Air velocity certificate 3 std. pts                                                                                                   |                                                                                                          | 400520 4401 |
| NIST Air velocity certificate 3 cust. pts                                                                                                  |                                                                                                          | 400520 4402 |
| NIST Light certificate                                                                                                                     |                                                                                                          | 400520 8501 |

1981 0614/dk/01.2018

Subject to change without notice.