Data sheet
testo 440
testo 440 dP

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Air velocity & IAQ measuring instruments

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

°C CO %RH CO_2 m/s Lux hPa

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

Intuitive: clearly structured measurement menus for the most important applications stored on the instrument

Wireless: Bluetooth probes for greater measuring convenience and a reduced tangle of cables in the case

Space-saving: a universal handle for all probes

Clear overview: parallel display of 3 measuring values; configuration and results at a glance

Reliable: internal memory for up to 7500 measurement protocols, USB interface for data export and optional printout of measuring values

The testo 440 combines 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 air velocity & IAQ measuring instrument either to a large selection of digital probes, the Testo Smart Probes or numerous Testo temperature probes. Clearly structured menus for measuring volume flow in ducts/at outlets, K-factor, degree of turbulence, cooling/heating load, mould indication and logging mode are stored on the instrument. These menus enable you to accomplish the relevant measuring task more quickly, more efficiently and more reliably. Reports can be exported as Excel files via the USB interface or printed out on site.

The testo 440 air velocity & IAQ measuring instrument is available in two versions. The testo 440 dP model version also has an integrated differential pressure sensor. This makes measurements at filters as well as Pitot tube and K-factor measurements possible.

Ordering data for testo 440

testo 440

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

Order no. 0560 4401

testo 440 dP

Air velocity & IAQ measuring instrument 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 to +150 °C	
Accuracy (±1 digit)	±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. (remaining meas. range)	
Resolution	0.1 °C	
Temperature (TC)		
Measuring range	-200 to +1370 °C	
Accuracy (±1 digit)	±(0.3 °C + 0.3% of m.v.)	
Resolution	0.1 °C	
Temperature (Pt100)		
Measuring range	See probe data	
Accuracy (±1 digit)		
Resolution		
Differential pressure		
Measuring range	–	-150 to +150 hPa
Accuracy (±1 digit)		±0.05 hPa (0 to +1.00 hPa) ±0.2 hPa + 1.5% of m.v. (+1.01 ... +150 hPa)
Resolution		0.01 hPa
Probe connections		
TC type K	1x	
NTC TUC / digital probe with cable	1x	
Bluetooth probe	1x digital Bluetooth probe or testo Smart Probe	
Differential pressure	–	+
Technical data		
Operating temperature	-20 to +50 °C	
Storage temperature	-20 to +50 °C	
Battery type	3 x AA batteries	
Battery life	12 h (typically vane measurement)	
Weight	250 g	
Dimensions	154 x 65 x 32 mm	

The wired digital probes and the NTC probes of the testo 440 all have the practical TUC connection (**T**esto **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
- 100 mm vane probe head incl. temperature sensor
- Telescope (1 m) and 90° angle to fit both probes
- Combi 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
- 16 mm vane probe head incl. temperature sensor
- 100 mm vane probe head incl. temperature sensor
- Humidity probe head incl. temperature sensor
- Telescope (1 m) and 90° angle to fit both probes
- Combi 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
- 100 mm vane probe with Bluetooth, incl. temperature sensor
- Hot wire probe with telescope (0.85 m) incl. temperature sensor, fixed cable (1.8 m)
- Measurement menu, e.g. for determining the volume flow
- Combi 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
- 100 mm vane probe with Bluetooth, incl. temperature sensor
- 16 mm vane probe with telescope (0.85 m), fixed cable (1.8 m)
- Measurement menu, e.g. for determining the volume flow
- Combi case for testo 440 and multiple probes

Order no. 0563 4407

Ordering data for kits

Additional kits

testo 440
Hot Wire Kit

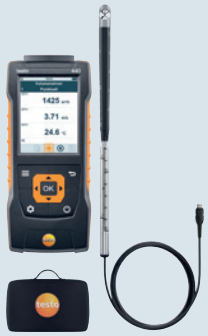
- testo 440 air velocity & IAQ measuring instrument with internal memory and data export function
- Hot wire probe incl. temperature sensor, fixed cable (1.8 m) with telescope (0.85 m)
- Measurement menu, e.g. for determining the volume flow and timed and multi-point mean calculation
- Basic case for testo 440 and 1 probe

Order no. 0563 4400

testo 440
16 mm Vane Kit

- testo 440 air velocity & IAQ measuring instrument with internal memory and data export function
- Vane probe, fixed cable (1.8 m) with telescope (0.85 m)
- 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
100 mm Vane Kit with BT

- testo 440 air velocity & IAQ measuring instrument with internal memory and data export function
- 100 mm 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 (400 mm)
- CO_2 probe with Bluetooth, incl. temperature and humidity sensor
- Combi case for testo 440 and multiple probes

Order no. 0563 4408

testo 440
CO_2 Kit with BT

- testo 440 air velocity & IAQ measuring instrument
- CO_2 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

testo 440
Laboratory kit

- testo 440 air velocity & IAQ measuring instrument
- Glass-coated digital Pt100 laboratory probe
- Basic case for testo 440 and 1 probe

Order no. 0563 4412

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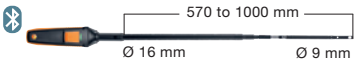
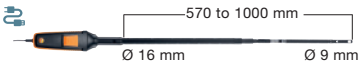
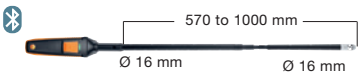
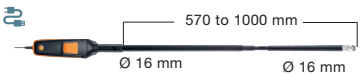
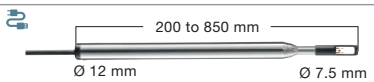
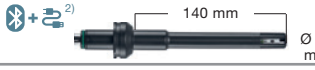
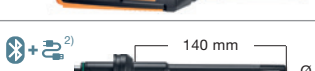
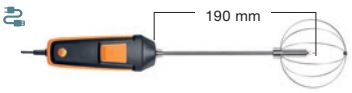
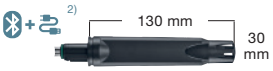
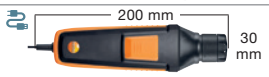
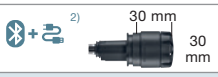
Digital air velocity probes

Probe type		Measuring range	Accuracy	Resolution	Order no.
Digital flow probes					
Hot wire probe with Bluetooth®, including temperature and humidity sensor		0 to 50 m/s -20 to +70 °C 5 to 95 %RH 700 to 1100 hPa	±(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) ±0.5 °C (0 to +70 °C) ±0.8°C (-20 to 0 °C) ±3.0 %RH (10 to 35 %RH)[3] ±2.0 %RH (35 to 65 %RH)[3] ±3.0 %RH (65 to 90 %RH)[3] ±5 %RH (remaining meas. range)[3] ±3 hPa	0.01 m/s 0.1 °C 0.1 %RH 0.1 hPa	0635 1571
Hot wire probe, fixed cable, including temperature and humidity sensor					0635 1572
Hot wire probe head, including temperature and humidity sensor					0635 1570
Vane probe (Ø 16 mm) with Bluetooth®, including temperature sensor		0.6 to 50 m/s -10 to +70 °C	±(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) ±1.8°C	0.1 m/s 0.1 °C	0635 9571
Vane probe (Ø 16 mm), fixed cable, including temperature sensor					0635 9572
Vane probe head (Ø 16 mm), including temperature sensor					0635 9570
Hot wire probe, fixed cable, including temperature sensor		0 to 30 m/s -20 to +70 °C 700 to 1100 hPa	±(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) ±0.5 °C ±3 hPa	0.01 m/s 0.1 °C 0.1 hPa	0635 1032
Hot wire probe (Ø 7.5 mm), fixed cable, including temperature sensor		0 to 20 m/s -20 to +70 °C 700 to 1100 hPa	±(0.03 m/s + 5% of m.v.) (0 to 20 m/s) ±0.5 °C ±3 hPa	0.01 m/s 0.1 °C 0.1 hPa	0635 1026
Hot ball probe (Ø 3 mm), fixed cable, including temperature sensor		0 to 10 m/s -20 to +70 °C 700 to 1100 hPa	±(0.03 m/s + 5% of m.v.) (0 to 10 m/s) ±0.5 °C ±3 hPa	0.01 m/s 0.1 °C 0.1 hPa	0635 1051
Vane probe (Ø 16 mm), fixed cable		0.6 to 50 m/s	±(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)	0.1 m/s	0635 9532
Fume cupboard probe, fixed cable *(Measurement of flow velocity and volume flow at laboratory extractors based on DIN EN 14175-3/-4.)*		0 to 5 m/s 0 to +50 °C 700 to 1100 hPa	±(0.02 m/s + 5% of m.v.) (0 to 5 m/s) ±0.5 °C ±3 hPa	0.01 m/s 0.1 °C 0.1 hPa	0635 1052
High-precision vane probe (Ø 100 mm) with Bluetooth®, including temperature sensor		0.1 to 15 m/s -20 to +70 °C	±(0.1 m/s + 1.5% of m.v.) (0.1 to 15 m/s) ±0.5 °C	0.01 m/s 0.1 °C	0635 9371
High-precision vane probe (Ø 100 mm), fixed cable, including temperature sensor					0635 9372
High-precision vane probe head (Ø 100 mm), including temperature sensor					0635 9370
Vane probe (Ø 100 mm) with Bluetooth®, including temperature sensor		0.3 to 35 m/s -20 to +70 °C	±(0.1 m/s + 1.5% of m.v.) (0.3 to 20 m/s) ±(0.2 m/s + 1.5% of m.v.) (20.01 to 35 m/s) ±0.5 °C	0.01 m/s 0.1 °C	0635 9431
Vane probe (Ø 100 mm), fixed cable, including temperature sensor					0635 9432
Vane probe head (Ø 100 mm), including temperature sensor					0635 9430

[1] For use with cable handle (order no. 0554 2222) or Bluetooth handle (order no. 0554 1111) in conjunction with adapter (order no. 0554 2160).
[3] Please note the additional accuracy specifications on the hysteresis and long-term stability of humidity in the instruction manual.

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 -20 to +70 °C	±2 %RH (5 to 90 %RH)[3] ±0.5 °C	0.1 %RH 0.1 °C	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 -20 to +70 °C	±(0.6 %RH + 0.7% of m.v.) (0 to 90 %RH)[3] ±(1.0 %RH + 0.7% of m.v.) (90 to 100 %RH)[3] ±0.3 °C (15 to 30 °C) ±0.5 °C (remaining meas. range)	0.01 %RH 0.01 °C	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 +180 °C, fixed cable		0 to 100 %RH -20 to +180 °C	±3 %RH (0 to 2 %RH)[3] ±2 %RH (2.1 to 98 %RH)[3] ±3 %RH (98.1 to 100 %RH)[3] ±0.5 °C (-20 to 0 °C) ±0.4 °C (0.1 to +50 °C) ±0.5 °C (+50.1 to +180 °C)	0.1 %RH 0.1 °C	0636 9775
Digital comfort probes					
Turbulence probe, fixed cable		0 to +5 m/s 0 to +50 °C 700 to 1100 hPa	±(0.03 m/s + 4% of m.v.) (0 to 5 m/s) ±0.5 °C ±3 hPa	0.01 m/s 0.1 °C 0.1 hPa	0628 0152
Lux probe, fixed cable		0 to 100,000 lux	DIN 13032-1 Appendix B F1 = 6 % = V(Lambda) adjustment F2 = 5 % = cos-true evaluation Class C according to DIN 5032-7	0.1 lux (< 10,000 lux) 1 lux (≥ 10,000 lux)	0635 0551
CO_2 probe with Bluetooth®, including temperature and humidity sensor		0 to 10,000 ppm CO_2 5 to 95 %RH 0 to +50 °C 700 to 1100 hPa	±(50 ppm + 3% of m.v.) (0 to 5,000 ppm) ±(100 ppm + 5% of m.v.) (5,001 to 10,000 ppm) ±3 %RH (10 to 35 %RH)[3] ±2 %RH (35 to 65 %RH)[3] ±3 %RH (65 to 90 %RH)[3] ±5 %RH (remaining meas. range)[3] ±0.5 °C ±3 hPa	1 ppm 0.1 %RH 0.1 °C 0.1 hPa	0632 1551
CO_2 probe, fixed cable, including temperature and humidity sensor					0632 1552
CO_2 probe head, including temperature and humidity sensor					0632 1550
CO probe with Bluetooth®		0 to 100 ppm 100.1 to 500 ppm	±3 ppm (0 to 30 ppm) ±5 ppm (30.1 to 100 ppm) ±10 % of m.v. (100.1 … 500 ppm)	0.1 ppm	0632 1271
CO probe, fixed cable					0632 1272
CO probe head					0632 1270
Probe handles and adapters					
Bluetooth® handle for connecting testo 400 testo 440 probe heads					0554 1111
Cable handle for connecting testo 400 / testo 440 probe heads					0554 2222
Handle adapter for connecting testo 400 / testo 440 flow probes					0554 2160

[2] For use with cable handle (order no. 0554 2222) or Bluetooth handle (order no. 0554 1111).

[3] Please note the additional accuracy specifications on the hysteresis and long-term stability of humidity in the instruction manual.

Testo Smart Probes

Testo Smart Probes		Measuring range	Accuracy ±1 digit	Reso-lution	Order no.
Temperature					
testo 115i Clamp thermometer with smartphone operation, for measurements on pipelines with diameters of 6 to max. 35 mm, including batteries and calibration protocol		-40 to +150 °C	±1.3 °C (-20 to +85 °C)	0.1 °C	0560 2115 02
testo 915i – with flexible probe Wireless Smart Probe testo 915i with flexible probe (TC Type K), incl. batteries and calibration protocol		-50 to +400 °C	±1.0 °C (-30 to +80 °C) ±(0.7 °C + 1 % of m.v.) (-50 to -30 °C) ±(0.2 °C + 1 % of m.v.) (+80 to +400°C)	0.1 °C	0563 4915
testo 915i – with air probe Wireless Smart Probe testo 915i with air probe (TC Type K), incl. batteries and calibration protocol		-50 to +400 °C	±1.0 °C (-50 to +100 °C) ±1 % of m.v. (remaining meas. range)	0.1 °C	0563 3915
testo 915i – with immersion/penetration probe Wireless Smart Probe testo 915i with immersion/penetration probe (TC Type K), incl. batteries and calibration protocol		-50 to +400 °C	±1.0 °C (-50 to +100 °C) ±1 % of m.v. (remaining meas. range)	0.1 °C	0563 1915
testo 915i – with surface probe Wireless Smart Probe testo 915i with surface probe (TC Type K), incl. batteries and calibration protocol		-50 to +350 °C	±(1.0 °C +1 % of m.v.)	0.1 °C	0563 2915
testo 915i kit Universal temperature kit consisting of Smart Probe testo 915i with plug-in immersion/penetration probe, air probe and surface probe in Smart Case, incl. batteries and calibration protocol		see above, testo 915i - Air probe - Immersion/penetration probe - Surface probe		0.1 °C	0563 5915
testo 805i Infrared thermometer with smartphone operation, including batteries and calibration protocol		-30 to +250 °C	±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)	0.1 °C	0560 1805
Humidity					
testo 605i Thermohygrometer with smartphone operation, including batteries and calibration protocol		0 to 100 %RH -20 to +60 °C	±3.0 %RH (10 to 35 %RH)[3] ±2.0 %RH (35 to 65 %RH)[3] ±3.0 %RH (65 to 90 %RH)[3] ±5 %RH (< 10 %RH or > 90 %RH)[3] ±0.8 °C (-20 to 0 °C) ±0.5 °C (0 to +60 °C)	0.1 %RH 0.1 °C	0560 2605 02
Flow					
testo 405i Thermal anemometer with smartphone operation, telescopic tube extendable to up to 400 mm, including batteries and calibration protocol		0 to 30 m/s -20 to +60 °C	±(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) ±0.5 °C	0.01 m/s 0.1 °C	0560 1405
testo 410i Vane anemometer with smartphone operation, including batteries and calibration protocol		0.4 to 30 m/s -20 to +60 °C	±(0.2 m/s + 2% of m.v.) (0.4 to 20 m/s) ±0.5 °C	0.1 m/s 0.1 °C	0560 1410
Pressure					
testo 510i Differential pressure measuring instrument with smartphone operation, including hose kit (Ø 4 mm and 5 mm) with adapter, batteries and calibration protocol		-150 to 150 hPa	±0.05 hPa (0 to 1 hPa) ±(0.2 hPa + 1.5% of m.v.) (1 to 150 hPa)	0.01 hPa	0560 1510
testo 549i High-pressure measuring instrument with smartphone operation, including batteries and calibration protocol		-1 to 60 bar	0.5% of final value	0.01 bar	0560 2549 02

[3] Please note the additional accuracy specifications on the hysteresis and long-term stability of humidity in the instruction manual.

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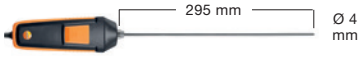
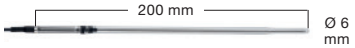
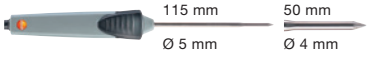
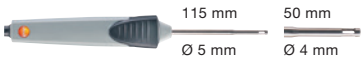
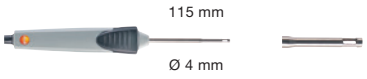
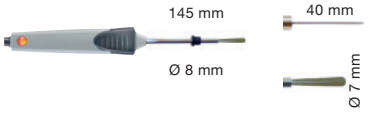
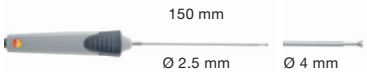
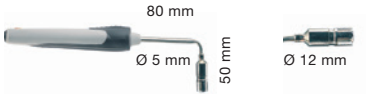
Digital temperature probes

Probe type		Measuring range	Accuracy	Resolution	Order no.
Digital temperature probes					
High-precision digital Pt100 penetration probe for measurements in liquids and pastes with an accuracy of up to ±0.05 °C		-80 to +300 °C	±0.3 °C (-80 to -40.001 °C) ±(0.1 °C + 0.05% of m.v.) (-40 to -0.001 °C) ±0.05 °C (0 to +100 °C) ±(0.05 °C + 0.05% of m.v.) (+100.001 to +300 °C)	0.001 °C	0618 0275
Digital Pt100 penetration probe for measurements in liquids and pastes		-100 to +400 °C	±(0.15 °C + 0.2% of m.v.) (-100 to -0.01 °C) ±(0.15 °C + 0.05% of m.v.) (0 to +100 °C) ±(0.15 °C + 0.2% of m.v.) (+100.01 to +350 °C) ±(0.5 °C + 0.5% of m.v.) (+350.01 to +400 °C)	0.01 °C	0618 0073
Glass-coated digital Pt100 laboratory probe for measurements in corrosive media		-50 to +400 °C	±(0.3 °C + 0.3% of m.v.) (-50 to +300 °C) ±(0.4 °C + 0.6% of m.v.) (+300.01 to +400 °C)	0.01 °C	0618 7072
Robust, fast-reaction, digital Pt100 air probe		-100 to +400 °C	±(0.15 °C + 0.2% of m.v.) (-100 to -0.01 °C) ±(0.15 °C + 0.05% of m.v.) (0 to +100 °C) ±(0.15 °C + 0.2% of m.v.) (+100.01 to +350 °C) ±(0.5 °C + 0.5% of m.v.) (+350.01 to +400 °C)	0.01 °C	0618 0072
Flexible digital Pt100 temperature probe for measurements in locations that are difficult to access and in liquids		-100 to +260 °C	±(0.3 °C + 0.3% of m.v.)	0.01 °C	0618 0071

Analog temperature probe

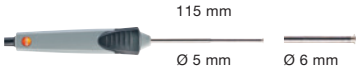
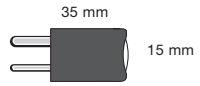
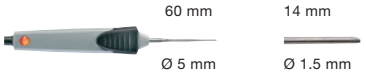
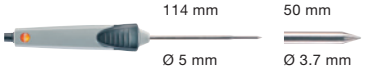
Probe type	Probe shaft/probe shaft tip dimensions	Measuring range	Accuracy	Response time	Order no.
Pipe wrap probe (NTC) for pipe diameters of 5 to 65 mm, fixed cable 1.2 m		-50 to +120 °C	±0.2 °C (-25 to +80 °C)		0615 5605
Temperature probe with Velcro (NTC), fixed cable 1.4 m		-50 to +70 °C	±0.2 °C (-25 to +70 °C) ±0.4 °C (-50 to -25.1 °C)	60 s	0615 4611
Watertight immersion/penetration probe NTC, 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	0615 1212
Robust air probe NTC, fixed cable 1.2 m		-50 to +125 °C	±0.2 °C (-25 to +80 °C) ±0.4 °C (remaining meas. range)	60 s	0615 1712
Clamp probe for 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)	60 s	0615 5505
Robust air probe, TC type K, fixed cable		-60 to +400 °C	Class 2 [1]	200 sec	0602 1793
Very fast-reaction surface probe with sprung thermocouple strip, also suitable for uneven surfaces, measuring range briefly up to +500 °C, TC type K, fixed cable		-60 to +300 °C	Class 2 [1]	3 sec	0602 0393
Fast-reaction paddle surface probe, for measurements in places that are difficult to access (e.g. narrow openings and cracks), thanks to flat, flexible tip, TC Type K, fixed cable		0 to +300 °C	Class 2 [1]	5 sec	0602 0193
Precise, watertight surface probe with small measuring head for even surfaces, TC type K, fixed cable		-60 to +1000 °C	Class 1 [1]	20 sec	0602 0693
Very fast-reaction surface probe with sprung thermocouple strip, angled for uneven surfaces as well, measuring range briefly up to +500 °C, TC type K, fixed cable		-60 to +300 °C	Class 2 [1]	3 sec	0602 0993
Surface temperature probe TC type K, with telescope max. 985 mm, for measurements in locations that are difficult to access, fixed cable 1.6 m (correspondingly shorter when telescope is extended)		-50 to +250 °C	Class 2 [1]	3 sec	0602 2394
Magnetic probe, adhesive power approx. 20 N, with adhesive magnets, for measurements on metal surfaces, TC type K, fixed cable		-50 to +170 °C	Class 2 [1]	150 sec	0602 4792
Magnetic probe, adhesive power approx. 10 N, with adhesive magnets, for higher temperatures, for measurements on metal surfaces, TC type K, fixed cable		-50 to +400 °C	Class 2 [1]		0602 4892

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

Information about surface measurement:

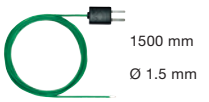
- The specified response times t_{99} are measured on polished steel or aluminium plates at +60 °C.
- The specified accuracies are sensor accuracies.
- The accuracy in your application depends on the surface properties (roughness), the material of the measurement object (thermal capacity and heat transfer) 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).

Analogue temperature probes

Probe type	Dimensions Probe shaft/probe shaft tip	Measuring range	Accuracy	t_{99}	Order no.
Watertight surface probe with wider measuring tip for plane surfaces, TC type K, fixed cable		-60 to +400 °C	Class 2 [1]	30 s	0602 1993
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	0615 1912
Pipe wrap probe with Velcro strip, for measuring temperatures on pipes with diameters up to max. 120 mm, Tmax +120 °C, TC type K, fixed cable		-50 to +120 °C	Class 1 [1]	90 s	0628 0020
Pipe wrap probe for pipe diameters 5 to 65 mm, with interchangeable measuring head, measuring range briefly up to +280 °C, TC type K, fixed cable		-60 to +130 °C	Class 2 [1]	5 s	0602 4592
Replacement measuring head for pipe wrap probe, TC type K		-60 to +130 °C	Class 2 [1]	5 s	0602 0092
Clamp probe for measurements on pipes, pipe diameters 15 to 25 mm (max. 1"), measuring range briefly up to +130 °C, TC type K, fixed cable		-50 to +100 °C	Class 2 [1]	5 s	0602 4692
Precise and fast immersion probe, flexible, watertight, TC type K, fixed cable		-60 to +1000 °C	Class 1 [1]	2 s	0602 0593
Ultra-fast, watertight immersion/ penetration probe, TC type K, fixed cable		-60 to +800 °C	Class 1 [1]	3 s	0602 2693
Immersion measuring tip, flexible, TC type K		-40 to +1000 °C	Class 1 [1]	5 s	0602 5792
Immersion measuring tip, flexible, for measurements in air/flue gases (not suitable for measurements in smelters), TC type K		-40 to +1000 °C	Class 1 [1]	4 s	0602 5693
Watertight immersion/penetration probe, TC type K, fixed cable		-60 to +400 °C	Class 2 [1]	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)	 TC type K, 2 m, FEP-insulated thermal wire, temperature-resistant up to 200 °C, oval cable with dimensions: 2.2 mm x 1.4 mm	-40 to +1000 °C	Class 1 [1]	1 s	0602 0493
Watertight food probe made of stainless steel (IP 65), TC type K, fixed cable		-60 to +400 °C	Class 2 [1]	7 s	0602 2292
Stainless steel NTC food probe (IP67) with PTFE cable up to +250 °C, fixed cable 1.5 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)	8 s	0615 3311

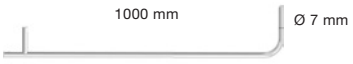
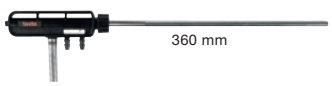
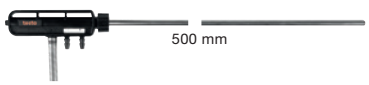
[1] According to standard EN 60584-2, the accuracy of Class 1 refers to -40 to +1000 °C (type K), Class 2 to -40 to +1200 °C (type K), Class 3 to -200 to +40 °C (type K). A probe only ever complies with one accuracy class.

Analogue probes

Probe type	Dimensions Probe shaft/probe shaft tip	Measuring range	Accuracy	t_{99}	Order no.
Thermoelectric couples					
Thermoelectric couple with TC plug, flexible, length 800 mm, fibreglass, TC type K		-50 to +400 °C	Class 2 [1]	5 s	0602 0644
Thermoelectric couple with TC plug, flexible, length 1500 mm, fibreglass, TC type K		-50 to +400 °C	Class 2 [1]	5 s	0602 0645
Thermoelectric couple with TC plug, flexible, length 1500 mm, PTFE, TC type K		-50 to +250 °C	Class 2 [1]	5 s	0602 0646
Comfort probe					
Globe thermometer Ø 150 mm, TC type K, for measuring radiant heat		0 to +120 °C	Class 1 [1]		0602 0743

[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.

Pitot tubes

Probe type	Dimensions Probe shaft/probe shaft tip	Measuring range	Order no.
Pitot tube, length 500 mm, Ø 7 mm, stainless steel, for measuring flow velocity*		Measuring range 1 to 100 m/s Operating temperature 0 to +600 °C Pitot tube factor 1.0	0635 2045
Pitot tube, length 350 mm, Ø 7 mm, stainless steel, for measuring flow velocity*		Measuring range: 1 to 100 m/s Operating temperature: 0 to +600 °C Pitot tube factor: 1.0	0635 2145
Pitot tube, length 1000 mm, stainless steel, for measuring flow velocity*		Measuring range: 1 to 100 m/s Operating temperature: 0 to +600 °C Pitot tube factor: 1.0	0635 2345
Straight Pitot tube with integrated temperature measurement, incl. connection hose, length 360 mm		Measuring range: 1 to 30 m/s Operating temperature: 0 to +600 °C Pitot tube factor: 0.67 Minimum immersion depth: 150 mm	0635 2043
Straight Pitot tube with integrated temperature measurement, incl. connection hose, length 500 mm		Measuring range: 1 to 30 m/s Operating temperature: 0 to +600 °C Pitot tube factor: 0.67 Minimum immersion depth: 150 mm	0635 2143
Straight Pitot tube with integrated temperature measurement, incl. connection hose, length 1000 mm		Measuring range: 1 to 30 m/s Operating temperature: 0 to +600 °C Pitot tube factor: 0.67 Minimum immersion depth: 150 mm	0635 2243

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

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Accessories

Accessories for digital air velocity probes	Order no.
Extendible telescope for testo 440 air flow probes (37.5 to 100 cm incl. 90° angle)	0554 0960
Telescope extension (0.9 m) for testo 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
Telescopic rod with universal joint for testo 400 / testo 440 / testo 480 flow velocity probes (0.6 to 1.8 m)	0430 0946
Measuring tripod for flow measurements for standard-compliant positioning of probes, incl. tripod base and probe holder	0554 1592

Other accessories	Order no.
Measuring stand for comfort level measurements with standard-compliant positioning of probes (incl. case)	0554 1590
Combi case for testo 440 and multiple probes	0516 4401
Service case for volume flow measurement	0516 4900
testovent 417 funnel set comprising funnel for plate outlets (Ø 200 mm) and funnel for fans (330 x 330 mm) for incoming/outgoing air	0563 4170

Other accessories	Order no.
Flow straightener testovent 417	0554 4172
USB mains unit incl. cable	0554 1105
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 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 mains unit	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.
ISO calibration certificate (temperature), for air/immersion probe, calibration points -18 °C; 0 °C; +60 °C	0520 0001
DAkkS calibration certificate (temperature); measuring instruments with air/immersion probe; calibration points -20 °C; 0 °C; +60 °C	0520 0211
ISO calibration certificate humidity, calibration points 11.3 %RH and 75.3 %RH at +25°C	0520 0006
DAkkS calibration certificate (humidity); electronic hygrometer; calibration points 11.3 %RH and 75.3 %RH at +25 °C	0520 0206
ISO calibration certificate (pressure); accuracy > 0.6 (% of f.v.)	0520 0005
ISO calibration certificate flow, hot wire, vane anemometer, Pitot tube; calibration points 1; 2; 5; 10 m/s	0520 0004
ISO calibration certificate flow, hot wire, vane anemometer, Pitot tube; calibration points 5; 10; 15; 20 m/s	0520 0034
ISO calibration certificate (luminance) calibration points 0; 500; 1000; 2000; 4000 lux	0520 0010
ISO calibration certificate (CO_2; CO_2 probes); calibration points 0; 1000; 5000 ppm	0520 0033

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