

testo 400 air flow kit with hot wire probe

Kit for standard-compliant volume flow measurement in ducts, at outlets and on filters

Determination of volume flow in ducts using grid measurement in accordance with EN ISO 12599 and ASHRAE 111

Determination of volume flow at outlets or on individual components through measurement of the reference pressure and input of the manufacturer-specific K factor

Complete measurement with full documentation directly on site with the customer or further analysis with the measurement data management and analysis software testo DataControl

Parallel measurement of flow, differential pressure, humidity and temperature

Integrated absolute pressure sensor, high-precision and location-independent differential pressure sensor; external high-precision humidity/temperature probe head



Compatible with a comprehensive selection of Bluetooth® and cable probes.



The testo 400 air flow kit with hot wire probe is the ideal equipment for all air velocity & IAQ professionals focusing on volume flow measurement. It provides you with smart support through stored measurement menus and an evaluation of measuring values according to the traffic light principle – for error-free measurements. You can manage all the relevant customer data, including measuring points, directly in the instrument and thus work directly and efficiently on site. The probe heads can be changed very quickly and easily without restarting the instrument. Both calibration of probes which is independent of the measuring instrument and the adjustment function at up to six measuring points for zero-error display ensure fewer downtimes and high-precision measurements.

Your advantages in application:

- You can combine the 100 mm vane probe including Bluetooth® with the telescope and 90° angle for ceiling outlets or with the funnel kit for plate outlets
- Simple filter checks on air conditioning and ventilation systems thanks to integrated differential pressure measurement
- Set HVAC systems properly in accordance with EN ISO 12599
- The Bluetooth® handle can be combined with probe heads and the telescope, thus avoiding troublesome cable clutter in the case

Scope of delivery

- testo 400 universal IAQ instrument, including transport case, for volume flow measurement, silicone hoses, mains unit with USB cable (order no. 0560 0400)
- Hot wire probe with Bluetooth®, including temperature and humidity sensor (comprising hot wire probe head, telescope (extendable to 1.0 m) handle adapter and Bluetooth® handle), 4 x AA batteries (order no. 0635 1571)
- Vane probe head (Ø 100 mm), including temperature sensor (order no. 0635 9430)
- High-precision humidity/temperature probe head (order no. 0636 9770)
- 90° angle for connecting vane probes (Ø 100 mm) (order no. 0554 0991)

Order no. 0563 0400 71



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Technical data	Measuring range	Accuracy	Resolution
Digital 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	$\pm(0.03 \text{ m/s} + 4\% \text{ of m.v.})$ (0 to 20 m/s) $\pm(0.5 \text{ m/s} + 5\% \text{ of m.v.})$ (20.01 to 30 m/s) $\pm 0.5 \text{ °C}$ (0 to +70 °C) $\pm 0.8 \text{ °C}$ (-20 to 0 °C) $\pm 3.0 \text{ \%RH}$ (10 to 35 \%RH)* $\pm 2.0 \text{ \%RH}$ (35 to 65 \%RH)* $\pm 3.0 \text{ \%RH}$ (65 to 90 \%RH)* $\pm 5 \text{ \%RH}$ (remaining meas. range)* $\pm 3 \text{ hPa}$	0.01 m/s 0.1 °C 0.1 %RH 0.1 hPa
Vane probe head (Ø 100 mm) , including temperature sensor 	0.3 to 35 m/s -20 to +70 °C	$\pm(0.1 \text{ m/s} + 1.5\% \text{ of m.v.})$ (0.3 to 20 m/s) $\pm(0.2 \text{ m/s} + 1.5\% \text{ of m.v.})$ (20.01 to 35 m/s) $\pm 0.5 \text{ °C}$	0.01 m/s 0.1 °C
High-precision humidity/temperature probe head 	0 to 100 %RH -20 to +70 °C	$\pm(0.6 \text{ \%RH} + 0.7\% \text{ of m.v.})$ (0 to 9 \%RH)* $\pm(1.0 \text{ \%RH} + 0.7\% \text{ of m.v.})$ (90 to 100 \%RH)* $\pm 0.3 \text{ °C}$ (15 to 30 °C) $\pm 0.5 \text{ °C}$ (remaining meas. range)	0.01 %RH 0.1 °C
testo 400			
testo 400 universal IAQ instrument Connectable probes: 2x TC type K, 2x NTC (TUC) / digital probes with cable, 4x Bluetooth® probes 	Differential pressure -100 to +200 hPa $\pm 0.3 \text{ Pa} + 1\% \text{ of m.v.}$ (0 to +25 hPa) $\pm 0.1 \text{ hPa} + 1.5\% \text{ of m.v.}$ (+25.001 to +200 hPa)		0.001 hPa
	Absolute pressure 700 to 1100 hPa $\pm 3 \text{ hPa}$		0.1 hPa

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

General technical data	testo 400	Hot wire probe with Bluetooth®	Vane probe head (Ø 100 mm)	High-precision humidity/temperature probe head
Data transmission	Bluetooth®, USB, WLAN	Bluetooth®		
Operating temperature	-5 to +45 °C	-20 to +70 °C	-20 to +70 °C	-20 to +70 °C
Storage temperature	-20 to +60 °C	-20 to +70 °C	-20 to +70 °C	-20 to +70 °C
Dimensions	210 x 95 x 39 mm	780 x 50 x 40 mm	180 x 105 x 46 mm	160 x 28 x 28 mm
Probe head diameter		9 mm	100 mm	12 mm
Weight	510 g	400 g	125 g	20 g

You will find the complete selection of probes and accessories for the testo 400 in the testo 400 data sheet or at www.testo.com.

