

Vane anemometer

testo 416

Direct display of volume flow

Point and timed mean value calculation

Max./min. values

Hold button for freezing measurement value

Display illumination

Auto-off function

TopSafe, protects the instrument from dirt and impact (optional)



The testo 416 is a compact anemometer with a fixed vane probe. The measuring instrument is particularly suitable for flow velocity measurements in ducts thanks to the extendable telescope (max. length 890 mm, diameter 16 mm). The volume flow is directly shown in the display. For volume flow calculation purposes, the duct crosssection area can be conveniently entered into the testo 416. The timed and point mean value calculations provide information on the average volume flow. The Hold function allows the current measurement value to be fixed in the display. Min./max. values are also displayed at the press of a button. The optional TopSafe reliably protects the instrument from dirt and impact, ensuring a particularly long working life.



Technical data / Accessories

testo 416

testo 416 vane anemometer with telescope (max. 890 mm) incl. battery and calibration protocol



Part no. 0560 4160

Sensor type	Vane
Measuring range	0.6 to 40 m/s
Accuracy ±1 digit	±(0.2 m/s +1.5% of m.v.)
Resolution	0.1 m/s
General technical dat	-20 to ±50 °C
Storage temperature	-40 to +70 °C
Battery type	9V block battery, 6F22
Battery life	80 h
Dimensions	182 x 64 x 40 mm
Weight	325 g
Housing material	ABS

Accessories

Part no.

Accessories for measuring instrument

Case for measuring instrument and probes	0516 0191
TopSafe, protects from impact and dirt	0516 0221
Service case for measuring instrument and probe, dimensions 454 x 316 x 111 mm	0516 1201
9V rech. battery for instrument, instead of battery	0515 0025
ISO calibration certificate velocity hot wire, vane anemometer, Pitot tube; calibration points 1; 2; 5; 10 m/s	0520 0004
ISO calibration certificate velocity hot wire, vane anemometer, Pitot tube; calibration points 5; 10; 15; 20 m/s	0520 0034

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Thermal anemometer

testo 425 – Digital hot wire anemometer with App connection

Simple, fast and precise flow and temperature measurement plus volume flow calculation in the ventilation duct

More flexibility for duct measurements with the cableconnected telescopic probe (maximum length 820 mm)

Fast in-app (duct) configuration, graph history, second screen and measurement data memory in the testo Smart App

Timed and point mean value calculation

Durability through compact design with robust housing



Optimally adjusted **air conditioning and ventilation systems** are a decisive factor for modern buildings. Accordingly, it is important to use the appropriate measurement technology to ensure that the flow, temperature and volume flow in the ventilation duct are correct.

The testo 425 thermal anemometer is your fast, easy and precise companion. The cable-connected telescopic probe can be extended up to 820 mm, making it easier to work overhead or in large diameter ducts. All relevant calculations, such as volume flow or time and point averages, are performed automatically by the particularly robust and compact measuring instrument.

Incidentally: Configuration of the measuring instrument, display and storage of measured values as well as documentation are all particularly convenient with the testo Smart App. This also turns your smartphone into a second display.



Ordering data / technical data / accessories

testo 425

testo 425, thermal hot wire anemometer with App connection and fixed telescope (max. 820 mm), incl. carrying bag, calibration protocol and 3 X AA batteries

Order no. 0563 0425







The testo Smart App

• Simple and fast: Measurement menus for numerous applications provide optimum support in configuring and carrying out the measurement

• Clear graphical presentation of readings, e.g. as a table, for quick interpretation of results

 Create digital measurement reports including photos as PDF/CSV files on site and send via e-mail

Free download for Android and iOS



Sensor types

Measuring range0 to 30 m/sAccuracy ± 1 digit $\pm (0.03 m/s + 4\%$ of m.v.) (0 to 20 m/s) $\pm (0.5 m/s + 5\%$ of m.v.) (20.01 to 30 m/s)Resolution0.01 m/sNTCMeasuring range -20 to $+70$ °CAccuracy ± 1 digit ± 0.5 °CResolution0.1 °CGeneral technical dataOperating temperatureProbe: -20 to $+70$ °CStorage temperature -20 to $+50$ °CBattery type3 x AABattery life35 hDimensionsMeasuring instrument: 135 x 60 x 28 mm Probe: Length 180 mm, Ø 7.5 mm Cable length 1.5 mWeight268 gProtection classMeasuring instrument: IP 40 Probe: IP20Housing materialABS + PC / TPE	Hot wire		
Accuracy ± 1 digit $\pm (0.03 \text{ m/s} + 4\% \text{ of m.v.}) (0 \text{ to } 20 \text{ m/s}) \\ \pm (0.5 \text{ m/s} + 5\% \text{ of m.v.}) (20.01 \text{ to } 30 \text{ m/s}) \\ \hline \\ \text{Resolution} & 0.01 \text{ m/s} \\ \hline \\ \text{NTC} \\ \hline \\ \text{Measuring range} & -20 \text{ to } +70 \ ^{\circ}\text{C} \\ \hline \\ \text{Accuracy } \pm 1 \text{ digit} & \pm 0.5 \ ^{\circ}\text{C} \\ \hline \\ \text{Resolution} & 0.1 \ ^{\circ}\text{C} \\ \hline \\ \text{General technical data} \\ \hline \\ \text{Operating} & \text{Measuring instrument: } -20 \text{ to } +50 \ ^{\circ}\text{C} \\ \hline \\ \text{Probe: } -20 \text{ to } +70 \ ^{\circ}\text{C} \\ \hline \\ \text{Storage temperature} & -20 \text{ to } +50 \ ^{\circ}\text{C} \\ \hline \\ \text{Battery type} & 3 \times \text{AA} \\ \hline \\ \text{Battery life} & 35 \text{ h} \\ \hline \\ \text{Dimensions} & \text{Measuring instrument: } 135 \times 60 \times 28 \text{ mm} \\ \hline \\ \text{Probe: Length } 180 \text{ mm, } \emptyset \text{ 7.5 mm} \\ \hline \\ \hline \\ \text{cable length } 1.5 \text{ m} \\ \hline \\ \hline \\ \text{Weight} & 268 \text{ g} \\ \hline \\ \hline \\ \text{Protection class} & \text{Measuring instrument: IP 40} \\ \hline \\ \\ \text{Probe: IP20} \\ \hline \\ \text{Housing material} & \text{ABS + PC / TPE} \\ \hline \end{aligned}$	Measuring range	0 to 30 m/s	
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Housing material ABS + PC / TPE	Protection class	Measuring instrument: IP 40 Probe: IP20	
	Housing material	ABS + PC / TPE	

Accessories	Order no.	
testo Bluetooth [®] printer, incl. 1 roll of thermal paper, rech. 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	
ISO calibration certificate for flow, hot wire/vane anemometer, Pitot tube; calibration points 1; 2; 5; 10 m/s	0520 0004	
ISO calibration certificate for flow, hot wire/vane anemometer, Pitot tube; calibration points 5; 10; 15; 20 m/s	0520 0034	
ISO flow calibration certificate, hot wire, vane anemometer, Pitot tube, calibration points 0.3; 0.5; 0.8; 1.5 m/s	0520 0024	