

Vane anemometer

testo 417 - Digital 100 mm vane anemometer with App connection

Easy, fast and precise measurement of flow, volume flow and temperature at air inlets and outlets

Efficient regulation of balanced residential ventilation and fast documentation with the testo Smart App

Fast in-app 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



The compact vane anemometer testo 417 was developed to make it as easy as possible for you to take measurements on air inlets and outlets of **air conditioning and ventilation systems**. The integrated 100 mm vane quickly ensures precise results. Time and point average values as well as the volume flow are automatically calculated in the instrument and shown on the display.

This allows **balanced residential ventilation systems** to be adjusted especially efficiently – including quick documentation with the testo Smart App. In addition, the App not only supports you in configuring the

measuring instrument and takes over display, storage and documentation of the measured values – it also turns your smartphone into a second display.

testo 417 is also available in two practical kits: The **testo 417 kit 1** includes two measuring funnels for plate outlets and ventilation grilles. These can be easily attached to the vane, covering a wide range of outlet sizes and formats.

In addition to the two measuring funnels, the **testo 417 kit 2** includes a volume flow straightener to achieve precise results even at swirl diffusers.

Order data / Technical data

testo 417

testo 417, 100 mm vane anemometer with App connection, incl. carrying bag, calibration protocol and 3 X AA batteries



Order no. 0563 0417

testo 417 kit 1

testo 417 funnel kit 1, consisting of vane anemometer testo 417, measuring funnel for plate outlets, measuring funnel for ventilation grilles, carrying bag, calibration protocol and 3 x AA batteries



Order no. 0563 1417

testo 417 kit 2

testo 417 funnel kit 2, consisting of vane anemometer testo 417, measuring funnel for plate outlets, measuring funnel for ventilation grilles, flow straightener, carrying bag, calibration protocol and 3 x AA batteries



Order no. 0563 2417

Sensor types

| Vane (m/s, fpm) | |
|-------------------|--------------------------|
| Measuring range | 0.3 to 20 m/s |
| Accuracy ±1 digit | ±(0.1 m/s +1.5% of m.v.) |
| Resolution | 0.01 m/s |

| Volume flow calculation (m³/h, cfm, l/s) | |
|--|---|
| Measuring range | 0 to +99999 m³/h 0 to +440 m³/h (testo 417 in combination with funnel kit 0563 4170) 0.1 to +200 m³/h, preferably 0.1 to 100 m³/h, (testo 417 in combination with funnel & flow straightener 0554 4172) |
| Resolution | 0.1 m³/h (0 to +99.9 m³/h) 1 °C /h (rem. measuring range) |

| NTC (°C, °F) | |
|-------------------|-------------|
| Measuring range | 0 to +50 °C |
| Accuracy ±1 digit | ±0.5 °C |
| Resolution | 0.1 °C |

| General technical data | |
|------------------------|--|
| Operating temperature | -20 to +50 °C |
| Storage temperature | -20 to +50 °C |
| Battery type | 3 x AA |
| Battery life | 50 h |
| Dimensions | 236 x 108 x 45 |
| Weight | 243 g |
| Protection class | Measuring instrument: IP 40 Probe: IP20 |
| Housing material | ABS + PC / TPE |

The testo Smart App

- For all kinds of IAQ applications of the testo 417 – from measurement to documentation
- Compatible with all Bluetooth-enabled Testo measuring instruments for air conditioning/refrigeration systems and heat pumps
- Integrated measurement database incl. customer and measuring point management
- Quick analysis thanks to clear presentation of the values, e.g. as a graph
- Create digital measurement reports including photos as PDF/CSV files on site and email them straight away



SMART

- **PRO* Air balancing measurement program** for maximum performance in the commissioning and balancing of air conditioning and ventilation systems:
 - Time saving up to 30 %
 - Calculation of all relevant values incl. recommendations for action
 - Automatic documentation and all measurement results at a glance

*PRO: after trial subscription subject to charge, can be cancelled monthly (not available in every country)

Download and test **testo Smart App** for free




Accessories

| 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 |
| testovent 417, funnel kit consisting of a funnel for plate outlets (Ø 200 mm) and a funnel for fans (330 x 330 mm) | 0563 4170 |
| testovent 417 volume flow straightener | 0554 4172 |
| DAkkS flow calibration certificate; hot wire, vane anemometer, calibration points 0.5; 1; 2; 5; 10 m/s | 0520 0244 |
| 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 |

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Subject to change, including technical modifications.