

# Thermal anemometer operated with smartphone

## testo 405i

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Compact professional measuring instrument from the Testo Smart Probes series, for use with smartphones/tablets

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Measurement of air flow velocity, temperature  
and volume flow

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Easy configuration (dimensions and geometry)  
of the duct cross-section for determining volume flow

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Measurement data analyzed and sent  
via testo Smart Probes App

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Telescopic shaft, extendable up to 400 mm

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Space-saving and easy to transport

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Bluetooth  
+ App

testo Smart Probes App  
for free download



The hot-wire anemometer testo 405i, in combination with a smartphone or tablet, is a compact measuring instrument for air flow velocities, temperatures and volume flows. Equipped with a telescopic shaft, extendable to 400 mm, it allows flexible applications in rooms and ducts. Via the testo Smart Probes App installed on the end device, users can comfortably read off their measurement values, configure volume flow measurements quickly and easily, and reliably determine timed and multi-point mean values.

The measurement protocols can then be directly sent as PDF or Excel files. In combination with the thermal hygrometer testo 605i, the testo 405i is suitable for determining cooling or heating performance.

## Technical data/accessories

### testo 405i

testo 405i, thermal anemometer operated with smartphone, incl. batteries and calibration protocol

Order no. 0560 1405



#### testo Smart Probes App

The App turns your smartphone/tablet into the display of the testo 405i. The operation of the measuring instrument as well as the display of the measurement values take place by Bluetooth via the Testo Smart Probes App on your smartphone or tablet – independently of the measurement location. In addition to this, you can use the App to create measurement reports, add photos and comments to these, and send them by e-mail. For iOS and Android.

#### Sensor type

| Sensor type          | Hot wire                                                                        |
|----------------------|---------------------------------------------------------------------------------|
| Measuring range      | 0 to 30 m/s                                                                     |
| Accuracy<br>±1 digit | ±(0.1 m/s + 5 % of m.v.) (0 to 2 m/s)<br>±(0.3 m/s + 5 % of m.v.) (2 to 15 m/s) |
| Resolution           | 0.01 m/s                                                                        |

#### Sensor type

| Sensor type          | NTC           |
|----------------------|---------------|
| Measuring range      | -20 to +60 °C |
| Accuracy<br>±1 digit | ±0.5 °C       |
| Resolution           | 0.1 °C        |

#### General technical data

|                       |                                                     |
|-----------------------|-----------------------------------------------------|
| Compatibility         | requires iOS 8.3 or newer /<br>Android 4.3 or newer |
|                       | requires mobile end device with<br>Bluetooth 4.0    |
| Storage temperature   | -20 to +60 °C                                       |
| Operating temperature | -20 to +50 °C                                       |
| Battery type          | 3 micro batteries AAA                               |
| Battery life          | 15 hrs                                              |
| Dimensions            | 200 x 30 x 41 mm                                    |
|                       | Telescope extendable to 400 mm                      |

#### Accessories

#### Order no.

|                                                                                                                                                                 |           |  |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|--|
| testo Smart Case (VAC) for the storage and transport of testo 405i, testo 410i, testo 510i, testo 605i, testo 805i and testo 905i, dimensions 270 x 190 x 60 mm | 0516 0260 |  |
| ISO calibration certificate flow velocity, two-point calibration, calibration points 5; 10 m/s                                                                  | 0520 0094 |  |
| ISO calibration certificate flow velocity, hot-wire/vane anemometer, Pitot tube; calibration points 1; 2; 5; 10 m/s                                             | 0520 0004 |  |