

Short manual testo 410-1



- ① Protection cap: Park position
- ② Impeller
- ③ Temperature sensor
- ④ Display
- ⑤ Control keys
- ⑥ Battery compartment (on rear)

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Basic settings

Instrument off > press and hold 2s > select with (▲), confirm with (◀):

Unit of temperature: °C, °F > Unit of velocity: m/s, km/h, fpm, mph, kts, Beau > Auto off-Funktion: OFF, ON

Switching the instrument on

Press .

Switching the display light on (for 10s)

Instrument on > press .

Select display size

Instrument on > select with :

Velocity, chill temperature ()

Select display mode

Instrument on > select with :

Current reading > Hold: Readings are held > Max: Maximum values > Min: Minimum values > Hold Avg: Timed mean value calculation, see below

Timed mean value calculation for flow

Press several times, until Hold and Avg appear > Hold down until - - - - appears > Releasing starts mean value calculation, the current readings are displayed > End measurement: press , the mean value is displayed.

Switching the instrument off:

Instrument on > press and hold 2s.

Safety and the environment

About this document

- > Please read this documentation through carefully and familiarise yourself with the product before putting it to use. Keep this document to hand so that you can refer to it when necessary. Hand this documentation on to any subsequent users of the product.
- > Pay particular attention to information emphasised by the following symbols:
 - i** Important.

Avoid personal injury/damage to equipment

- > Only operate the measuring instrument properly, for its intended purpose and within the parameters specified in the technical data. Do not use force.
- > Never store the product together with solvents, acids or other aggressive substances.
- > Only carry out the maintenance and repair work that is described in the documentation. Follow the prescribed steps when doing so. Use only OEM spare parts from Testo.

Protecting the environment

- > Take faulty rechargeable batteries as well as spent batteries to the collection points provided for them.
- > Send the product back to Testo at the end of its useful life. We will ensure that it is disposed of in an environmentally friendly manner.

Specifications



The testo 410-1 is a flow/temperature measuring instrument. It is normally used to measure the air speed at ventilation outlets. In addition to the measurement of temperature, climatic conditions can also be analysed.

Technical data

Measurement data

- Sensors:
Plastic impeller,
NTC temperature sensor
- Parameters:
m/s, km/h, fpm, mph, kts, Beaufort,
°C, °F, wind chill
- Measuring ranges:
0.4...20 m/s, 80... 4000 fpm,
-10...50 °C, 14...122 °F
- Resolutions:
0.1 m/s, 1 fpm, 0.1 °C, 0.1 °F
- Accuracies
(Nominal temperature 22 °C, ±1 Digit):
±(0.2 m/s +2 % of reading),
±(40 fpm +2 % of reading),
±0.5 °C, ±0.9 °F
- Measuring rate:
0.5 s

Further instrument data

- Protection class: IP10
- Ambient conditions:
-10...50 °C, 14...122 °F
- Storage/transport conditions:
-40...70 °C, -40...158 °F
- Voltage supply:
2x 1.5 V type AAA
- Battery life:
100 h (without display light)
- Dimensions:
133x46x25 mm (inc. protection cap)
- Weight: 110 g (inc. batteries and
protection cap)

Directives, standards and tests

- EC Directive: 2014/30/EU

Warranty

- Duration: 2 years, warranty conditions:
see www.testo.com/warranty

Product description

At a glance



- ① Protection cap: Park position
- ② Impeller
- ③ Temperature sensor
- ④ Display
- ⑤ Control keys
- ⑥ Battery compartment (on rear)






First steps

➤ Inserting batteries:

- 1 To open the battery compartment, push the battery cover down.
- 2 Insert batteries (2x 1.5 V type AAA). Observe the polarity!
- 3 To close the battery compartment, push the battery cover back on.

➤ Basic settings (configuration mode):

Adjustable functions

- Unit of temperature: °C, °F
 - Unit of velocity: m/s, km/h, fpm, mph, kts, Beau
 - Auto off function: OFF, ON (instrument switches off automatically if no key is pressed for 10 minutes)
- 1 When switching the instrument on, press and hold  until  and  appear on the display (configuration mode).
 - The adjustable function is displayed. The current setting flashes.
 - 2 Press  (▲) several times until the desired setting flashes.
 - 3 Press  (←) to confirm the input.
 - 4 Repeat steps 2 and 3 for all functions.
 - The instrument changes to measuring mode.

Using the product




i To ensure correct readings, align the instrument so that it has its back to the flow.

➤ Switching the instrument on:

- > Press .
 - Measuring mode is opened.



➤ Switching the display light on:

- ✓ The instrument is switched on.
- > Press .
 - The display light goes out automatically if no key is pressed for 10 seconds.

➤ Changing the parameter:


i The parameter in the top display line can be changed. The bottom display line always shows the temperature.










Adjustable parameters

- Velocity
- Wind chill temperature (): perceived temperature (only deviates from ambient temperature at temperatures <10°C / <50°F and wind speeds >1.34m/s / >264 fpm)
- > Press  several times until the desired parameter appears.

➤ Changing the display view:

Adjustable views

- Current reading
- Hold: Readings are held.
- Max: Maximum values since the instrument was last switched on or last reset.
- Min: Minimum values since the instrument was last switched on or last reset.
- Hold Avg: Timed mean value calculation, see below.
- > Press  several times until the desired view appears.

- Timed mean value calculation for flow:
 - 1 Press  several times, until Hold and Avg appear in the display. The last result of mean value calculation is displayed.
 - 2 Hold  down until - - - - appears. Releasing  starts mean value calculation automatically, the current readings are displayed.
 - 3 End measurement: press . The mean value is displayed.
 - 4 For further mean value calculation: hold down .
 - 5 End mean value calculation: press  briefly.
- Resetting Max/Min values:
 - 1 Press  several times until the desired view appears.
 - 2 Press  and hold until - - - - appears.
 - 3 Repeat steps 1 and 2 for all values that are to be reset.
- Switching the instrument off:
 - > Press  and hold until the display goes out.

Maintaining the product

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➤ Changing batteries:


- 1 To open the battery compartment, push the battery cover down.
- 2 Remove used batteries and insert new batteries (2x 1.5 V type AAA). Observe the polarity!
- 3 To close the battery compartment, push the battery cover back on.

➤ Cleaning the housing:

- > Clean the housing with a moist cloth (soap suds) if it is dirty. Do not use aggressive cleaning agents or solvents!

Tips and assistance

Questions and answers

Question	Possible causes/solutions
Hi or Lo	· Readings outside the measuring range (too high, too low): Keep to the permitted measuring range.
	· Residual capacity <10 min: Change batteries.

If we could not answer your question, please contact your dealer or Testo Customer Service. For contact details, please visit www.testo.com/service-contact.