



testo 511

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## Short manual testo 511



- ① Protection cap: Park position
- ② Absolute pressure sensor nipple connection
- ③ Display
- ④ Control keys
- ⑤ Battery compartment, holding magnets (on rear)

en

## Basic settings

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

Unit of height above mean sea level: **m, ft** > Value of height above mean sea level (**Altitude**) > Unit of pressure: **hPa, mbar, Pa, mmH2O, mmHg, psi, inH2O, inHG**, > Auto off function: **OFF, ON**


## Switching the instrument on

Press .

## Switching the display light on (for 10s)


Instrument on > press .

## Select display size

Instrument on > select with .

Absolute pressure, **barom** (barometric pressure), **Altitude** (height above mean sea level)

## Select display mode

Instrument on > select with .

Current reading > **Max**: Maximum values > **Min**: Minimum values

## 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:

 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.



Magnetic field

**May be harmful to those with pacemakers.**

- > Keep a minimum distance of 10 cm between pacemaker and instrument.



Magnetic field

**Damage to other devices!**

- > Keep a safe distance away from products which could be damaged by the effects of magnetism (e.g. monitors, computers or credit cards).

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## 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

## Functions and use

The testo 511 is an absolute pressure measuring instrument. It is normally used to measure absolute pressure, e.g. for pressure compensation in velocity measurement in ducts, laboratories and production processes. Further measurement parameters are barometric (surface) pressure (= pressure at sea level) and altitude above sea level.

## Technical data

### Measurement data

- Sensor:  
Absolute pressure sensor
- Parameters (absolute/barometric):  
Pa, hPa, mbar, mmH<sub>2</sub>O, mmHg, inHG, inH<sub>2</sub>O, psi
- Measuring ranges:  
300...1,200 hPa, 120.4...481.8 inH<sub>2</sub>O
- Resolutions:  
0.1 hPa, 0.01 inH<sub>2</sub>O
- Accuracies  
(Nominal temperature 22 °C, ±1 Digit):  
±3 hPa, ±1.2 inH<sub>2</sub>O
- Measuring rate:  
0.5 s

### Further instrument data

- Protection class: IP40
- Ambient conditions:  
0...50 °C, 32...122 °F
- Storage/transport conditions:  
-40...70 °C, -40...158 °F
- Voltage supply:  
2x 1.5 V type AAA
- Battery life:  
200 h (without display light)
- Dimensions:  
119x46x25mm / 4.7x1.8x1.0 in (inc. protection cap)
- Weight: 90g / 3.2 oz (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](http://www.testo.com/warranty)

# Product description

## At a glance



- ① Protection cap: Park position
- ② Absolute pressure sensor nipple connection
- ③ Display
- ④ Control keys
- ⑤ Battery compartment, holding magnets (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 height above mean sea level: **m, ft**
  - Value of height above mean sea level (**Altitude**): Set flashing figure with , change to next figure with .
  - Unit of pressure: **hPa, mbar, Pa, mmH2O, mmHg, psi, inHG,**
  - 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** For measuring barometric (surface) pressure **barom** (= pressure at sea level), the following must be observed:

- the altitude of the measurement site above sea level must be known, and be set in the instrument, see chapter 'First steps', section 'Basic settings (configuration mode)'.
- The barometric pressure displayed is only correct for the altitude set, for a change of altitude, the altitude above sea level must be reset.


For measuring barometric Altitude (= altitude relating to a fixed level), the following must be observed:

- The altitude above sea level at the starting point of the measurement (= Reference altitude) must be known and be set in the instrument, see chapter 'First steps', section 'Basic settings (configuration mode)'. When entering the reference altitude, the current absolute pressure is also stored as a reference pressure.
- When carrying out the measurement at the destination, the weather conditions must be the same as when entering the reference altitude. If the weather has changed (= change of absolute pressure), a new reference value must be entered.

➤ 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 can be changed.

#### Adjustable parameters


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- Absolute pressure
- **barom** (barometric pressure)
- **Altitude** (height above mean sea level)
  - > Press  several times until the desired parameter appears.



- Changing the display view:

#### Adjustable views

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- Current reading
- **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.
  - > Press  several times until the desired view appears.

- 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

- 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

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## Questions and answers

Question	Possible causes/solutions
Hi or Lo	<ul style="list-style-type: none"><li>· Readings outside the measuring range (too high, too low): Keep to the permitted measuring range.</li></ul>
	<ul style="list-style-type: none"><li>· Residual capacity &lt;10 min: Change batteries.</li></ul>

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](http://www.testo.com/service-contact)

## Accessories and spare parts

Accessories and spare parts can be found in the product catalogues and brochures or in the internet at: [www.testo.com](http://www.testo.com)



