

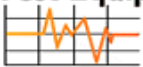


testo 606-1

Instruction manual



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Short manual testo 606-1

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- ① Protection cap: Park position
- ② Sensing electrodes
- ③ Display
- ④ Control keys
- ⑤ Battery compartment (on rear)
- ⑥ Test resistance contact
- ⑦ List of settable materials, for sticking into the protective cap

Basic settings

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

Auto off-Funktion: **OFF, ON**


Switching the instrument on

Press .

Switching the display light on (for 10s)

Instrument on > press .

Select display mode

Instrument on > select with  :

Current reading > **Hold**: Readings are held

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:



With the signal word **Caution!**:

Warns against hazards which could result in minor physical injury or damage to equipment if the precautionary measures indicated are not taken.



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

Functions and use

The testo 606-1 is a material moisture measuring instrument. It is normally used to determine the material moisture content in wood or building materials. The measurement procedure used is suitable for overview measurement to determine whether the material is continuing to dry out. The material moisture is given in % by weight.

Measurement data

- Sensors:
Electrical resistance (conductivity measurement), Testo humidity sensor, NTC temperature sensor
- Parameters:
% by weight material moisture (wood, building materials), %rH, td, wb, °C, °F
- Measuring ranges:
See chapter Using the Product
- Resolutions:
0.1 %, 0.1 °C, 0.1 °F, 0.1 %rH
- Accuracies (Nominal temperature 25 °C, ±1 Digit):
Conductivity measurement ±1 %, ±0.5 °C, ±0.9 °F, ±2.5%rH (5...95%rH)
- Measuring rate:
0.5 s, humidity: 1s

Further instrument data

- Protection class: IP20
- 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:
130 h (without display light)
- Dimensions:
119x46x25mm / 4.69x1.81x0.98" (inc. protection cap)
- Weight: 90 g / 3.2 oz (inc. batteries and protection cap)

Directives, standards and tests

- EC Directive: 2004/108/EEC

Warranty

- Duration: 2 years
- Warranty conditions: see guarantee card

Product description

At a glance



- ① Protection cap: Park position
- ② Sensing electrodes

⚠ Caution! Risk of injury from sensing electrodes!

➤ Attach protection cap when not in use.

- ③ Display
- ④ Control keys
- ⑤ Battery compartment (on rear)
- ⑥ Test resistance contact
- ⑦ List of settable materials, for sticking into the protective cap

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

· 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.
- The instrument changes to measuring mode.

Using the product


i To ensure correct readings, repeat the measurement at several points. Always measure wood moisture across the grain.

i The values displayed are highly dependent on the building material/manufacture used, and on the ambient conditions. As the materials are natural, the same materials can vary from batch to batch.



➤ 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.


➤ Setting the material characteristic curve:

i The material moisture is indicated in the top line of the display. The material symbol  (wood) or  (building material) is displayed with the relevant material number (see enclosed sticker for the inside of the protective cap).

Settable materials




Measuring range

1. beech, spruce, larch, birch, cherry, walnut	8.8...54.8 % by weight
2. oak, pine, maple, ash-tree, douglas fir, meranti	7.0...47.9 % by weight
3. cement screed, concrete	0.9...22.1 % by weight
4. anhydrite screed	0.0...11.0 % by weight
5. cement mortar	0.7...8.6 % by weight
6. lime mortar, plaster	0.6...9.9 % by weight
7. bricks	0.1...16.5 % by weight

- Press  several times until the desired material characteristic curve appears.

➤ Testing the instrument function:

- 1 Press  several times until **Test:** lights up.


- 2 Connect sensing electrodes with the contacts of the test resistor on the top of the protection cap.
 - **Test** flashes.
 - **Test: ok** lights up: instrument is functioning.
Test: ok does not light up: test not possible, see chapter 'Tips and assistance'.
 - 3 Press  back to measurement menu.
- **Changing the display view:**
- Adjustable views**
-
- Current reading
 - **Hold:** Readings are held.
- Press  until the desired view appears.
- **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

Questions and answers

Question	Possible causes/solutions
Hi or Lo	<ul style="list-style-type: none"> Readings outside the measuring range (too high, too low): Keep to the permitted measuring range.
	<ul style="list-style-type: none"> Residual capacity <10 min: Change batteries.
Testing the instrument function: Test: ok does not light up	<ul style="list-style-type: none"> Clean sensing electrodes and contacts on the top of the protection cap. If the error message appears again, send the instrument to Testo Customer Service.
Meas. electrodes defective/worn	<ul style="list-style-type: none"> Send instrument to Testo customer service.

Typical values for equilibrium moisture (Air dryness in building materials¹):

Material	Char. curve	Material moisture
Anhydrite screed	4	<0.5 % by weight
Concrete	3	<2.2 % by weight
Plaster	3	<0.8 % by weight
Lime mortar	6	<2.0 % by weight
Brick, fired without hole	7	<1.0 % by weight
Cement screed	3	<3.0 % by weight
Cement mortar	5	<3.0 % by weight

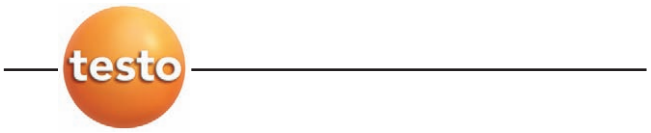
¹ In ambient conditions of 20 °C and 65 % RH

Guideline values for the installation moisture of wood, which sets in as an average after a certain period in use-status (DIN 1052-1 (4/88) Para. 4.2.1.):

Char. curve	Application area	Wood humidity in % by weight
1 or 2	buildings closed on all sides with heating	9 ± 3
1 or 2	buildings closed on all sides without heating	12 ± 3
1 or 2	roofed open buildings	15 ± 3
1 or 2	constructions which are open to the weather on all sides	18 ± 6

If we could not answer your question, please contact your dealer or Testo Customer Service.

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