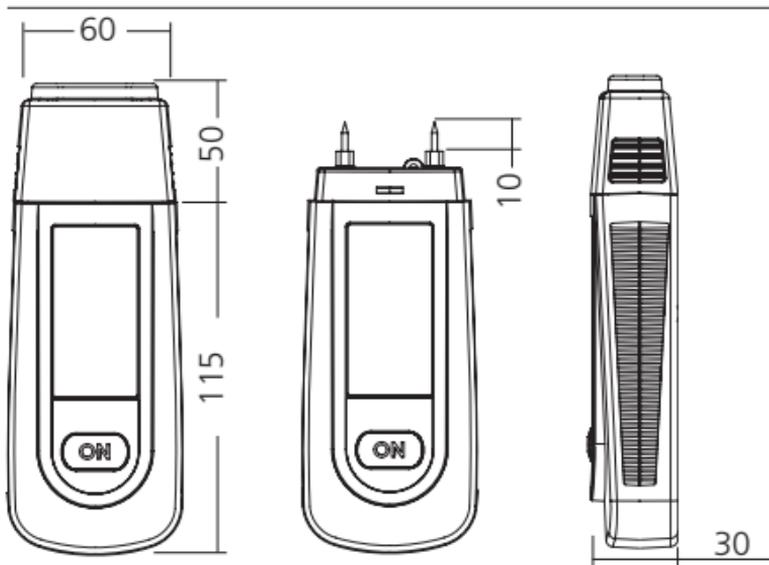
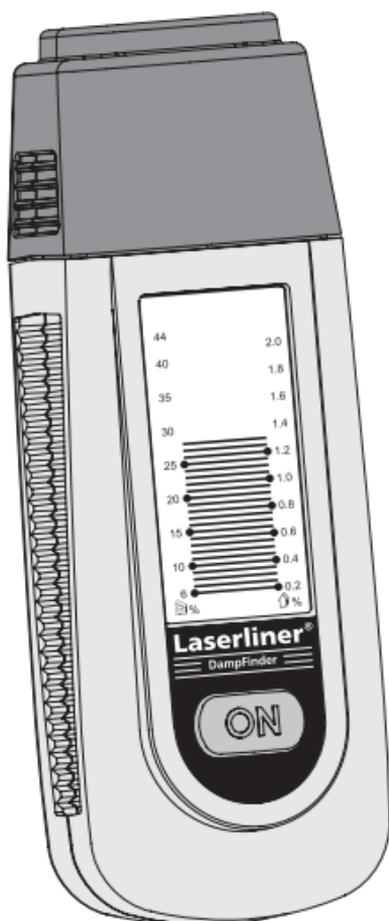


DampFinder



DE 02

GB 06

NL 10

DK 14

FR 18

ES 22

IT 26

PL 30

FI

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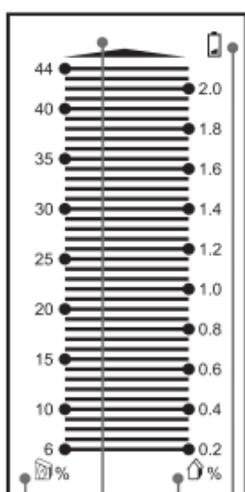
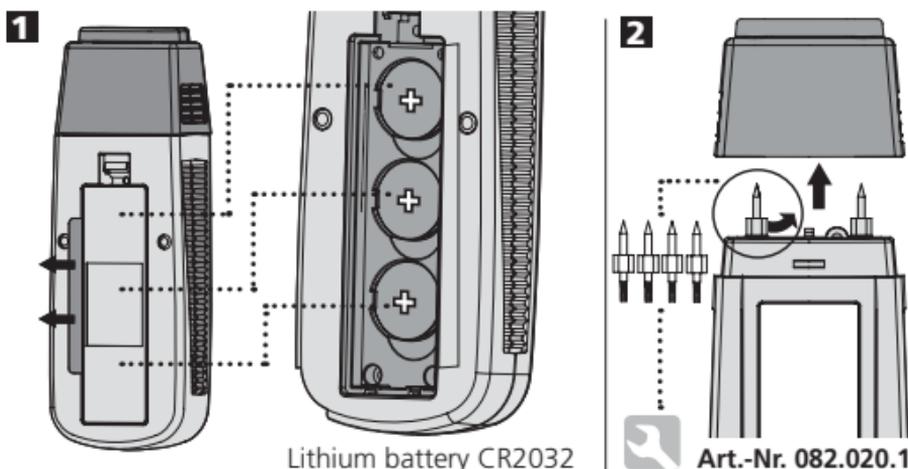
LT

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a c b d

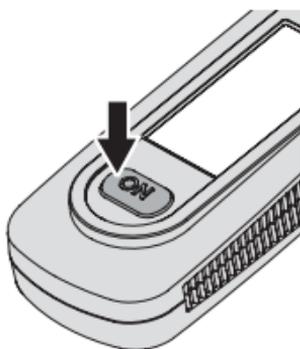
a scale for wood moisture

b scale for mineral building materials

c value out of range indicator

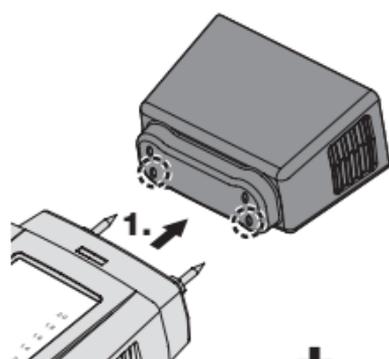
d low battery charge indicator

3 ON/OFF

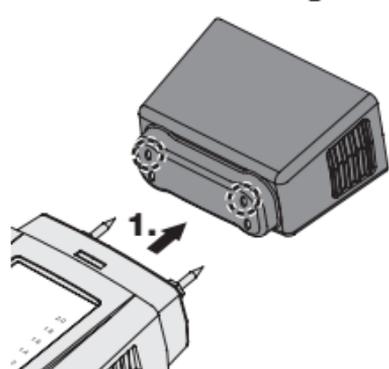
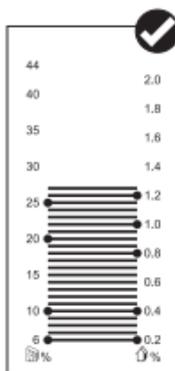


This unit switches into an energy-saving mode after 3 minutes. To wake up the unit again, activate the ON button 2 times. To switch off the unit, activate the ON button 1 time.

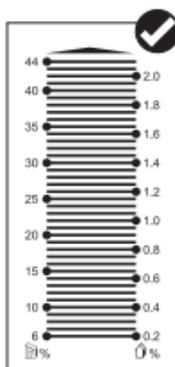
4 Self-test function



2.



2.



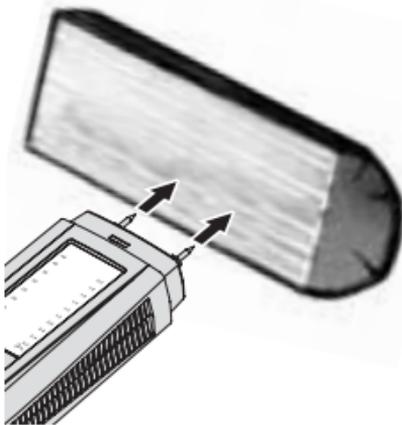
Function/application: This material moisture instrument detects and evaluates the material moisture content of wood and building materials by way of electric resistance measurement. The displayed value is material moisture in % with respect to dry mass. **Example:** 100% material moisture for 1 kg of wet wood = 500 g water.

Measurement procedure notice:

Be sure neither supply lines (electric lines, water pipes, etc) nor a metal subsurface is present at the location to be measured. Insert the electrodes as far into the material as possible but never use excessive or sudden impact force as this could damage the unit. Always pull the unit out of the material with left/right twisting motion. **Perform several comparative measurements at different locations** to minimise measurement error.

The sharply pointed electrodes present an **injury hazard**. Always put the safety cap on the unit when it is not in use or being transported.

5 Wood



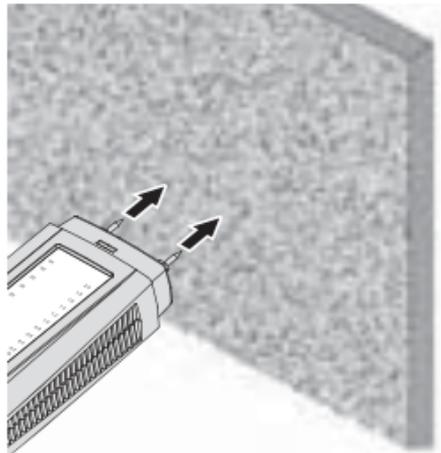
The location to be measured should be untreated, free of knots, dirt and resin.

Measurements should not be made on the end faces of wood because these areas dry particularly quickly such that they produce incorrect measurement results.

Read measurement results from the left-hand **wood moisture scale**.

Refer to the conversion table below in order to obtain more precise measurements for different materials.

Mineral building materials



Be aware that walls (or surfaces) made of several different materials, or even variations in the material's consistency, can cause measurement results to be falsified. **Perform multiple comparative measurements.** Read measurement results from the right-hand **building materials scale**.

Refer to the conversion table below in order to obtain more precise measurements for different materials.

Conversion table

all values in material moisture %

Measurement scale	Beech	Spruce/ Oak/ Birch	concrete	Plaster	Cement screed	Aerated concrete
> 44						
44	28,0	23,5	1,6		1,8	10,0
42	26,0	22,0		2,4	1,7	8,0
40	25,0	21,0		2,1		
38	24,0	20,0				7,0
36	23,5	19,6	1,5	2,0		
34	23,0	19,1				6,0
32	22,5	18,6		1,8		
30	22,0	18,0			1,6	5,7
28	20,0	16,6	1,4			
26	19,2	15,8				5,0
24	17,8	14,6		1,2	1,5	4,5
22	16,2	13,2		1,0		
20	15,7	12,8	1,2		1,4	4,0
18	13,8	11,0	1,1	0,8	1,3	3,7
16	11,3	8,9	1,0	0,5	1,2	3,2

Wet

Dry

Table notices:

Measurements indicated on the instrument's dual-scale are based on the common built-in material characteristics for wood and building materials. More precise results can be obtained for the given wood or building material when the indicated measurement is referenced to the conversion table.

Example: Measurement on the left scale: 24%, corresponds to 1,2% for gypsum plaster. Values with a grey background are considered to be wet.

Technical data	
Measurement range for wood and other materials	6 ... 44%
Building materials measurement range	0.2 ... 2.2%
Accuracy for wood and other materials	± 2% of full scale measurement
Building materials accuracy	± 0.4% of full scale measurement
Dual scale	2 scales, general wood characteristic, general mineral building materials characteristic
Power supply	3 x lithium 3 V CR2032
Nominal temperature	22 °C
Permissible storage temperature	-10 °C ... 60 °C
Permissible operating temperature	0 ... 40 °C
Permissible max. relative humidity	85%

Technical revisions reserved. 07/08

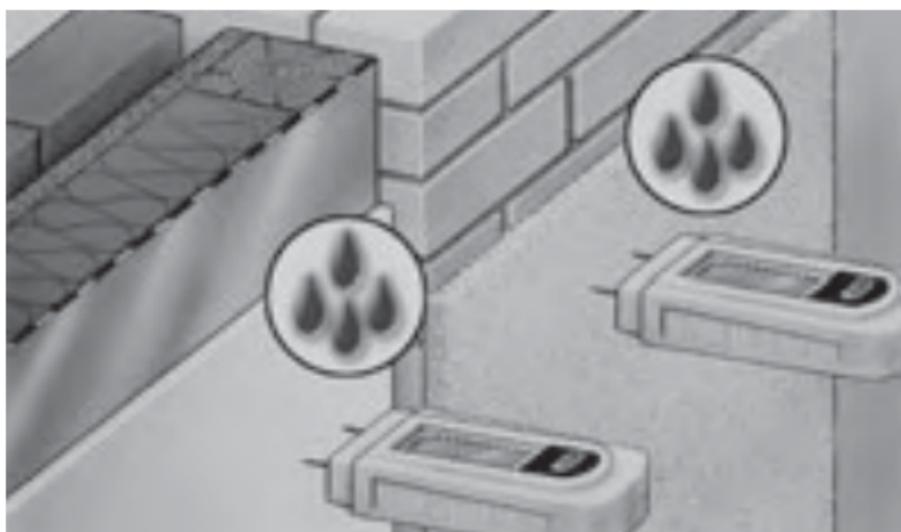
General notices:

Functional and operational safety is only warranted when the instrument is operated within the specified climatic conditions and is only used for those purposes for which it is designed. Responsibility for the interpretation of measurement results and consequent actions taken lie entirely with the user.

Warranty

The warranty period is 2 years from the date of purchase. The warranty covers all material or manufacturing defects occurring during this time. The following are excluded from warranty: Damage due to improper use (e.g. operation with wrong type of current/voltage, connection to unsuitable power source, fall onto hard surface, etc.) or improper storage, normal wear and tear, and defects which only insignificantly impair the value or suitability for use. Any tampering by unauthorised persons will render this warranty void. In the event that you need to claim warranty, please take the complete device together with all information and the invoice to one of our dealers or send it in to Umarex-Laserliner.

DampFinder



SERVICE



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