

## Moisture Meter WDH-318KC



Dear customer,

You have chosen a high quality product. So that you have much joy with this product, here are a few hints:

### **In case of any problems:**

We hope the device meets your expectations ! Should there be any reason for a complaint despite the greatest possible care, we ask you to contact us briefly, as we are very interested in your satisfaction and we would like to clear up any misunderstanding.

## **Important safety instructions:**

- Do not place any objects on the device !
- Do not store the device with solvents and/or other aggressive oils, gases and liquids !
- Do not expose the device to temperatures exceeding 50°C!
- The device is not waterproof. Protect it from splashing water !
- Do not subject the device to violent vibrations !
- Remove the battery if you clean the device or if you do not use it for a longer period of time !
- Clean the device only with mild detergents !
- Do not make any independent changes to the device !
- Only qualified personnel are permitted to open the device !

## **Equipment and quality features:**

- Moisture display both as LCD value and as LED bar graph.
- Measures unsealed materials and surfaces such as walls, ceilings, floors, walls and wood.
- Four different measuring modes can be selected: Hardwood, softwood, stone-walls and walls (ceilings/floors).
- Gentle moisture measurement without damaging the material surface.
- Auto-calibration and freezing of the measured value.
- Acoustic alarm for measured values outside the measuring range.
- Automatic self shut-off after 2 minutes of inactivity.
- Low battery warning symbol (battery warning indicator).
- Illuminated display panel.

## Description of the device parts:



- |                                       |                                     |
|---------------------------------------|-------------------------------------|
| A) Hardwood Mode                      | H) Power button (On / Off)          |
| B) Softwood Mode                      | I) Material selection button left   |
| C) Masonry Mode                       | J) Measured value freeze key (Hold) |
| D) Wall Mode                          | K) Material selection button right  |
| E) Battery warning symbol             | L) Measured value frozen Symbol     |
| F) Moisture measured value in percent | M) Measuring field                  |
| G) LED bar graph                      | N) Battery                          |


## **Instruction:**

The dark sensor surface on the back of the device sends electromagnetic pulses into the material to be tested. From this, an average moisture value is determined over the total area, which is then displayed at the front of the measuring device. Here, superficial moisture has a much greater effect on the measurement result than deeper-seated moisture.

### **1. Preparation**

- Open the rear battery cover of the device and connect a suitable 9V battery to the connection poles. Now insert the battery correctly into the battery compartment and close the battery compartment cover again.
- Make sure that the range to be measured has the following factors:
  - The object to be measured is larger than 4 x 4 cm
  - The object to be measured is thicker/deeper than 2 cm
  - The object to be measured contains no metal
  - The object to be measured is not made of plastic
  - The object to be measured does not consist of different materials
- Make sure that the entire sensor surface of the device is always in full contact with the measured object.

### **2. Operation / Settings**

2.1. Push the On / Off button  of your product. The display light then lights up.

2.2. Select with the left/right arrow keys   the appropriate measuring mode:

Reference: For all other materials we recommend to use the operating mode "Wall".

2.3. Now press the rear sensor surface of the device onto the object to be measured.


2.4. Now you can read the determined humidity value from the display field of the device. In addition, the measured value is also displayed optically as an LED bar graph. The LED bar graph works according to the following scheme:

Wall/Masonry:	Green:	0% ~ 30%
	Yellow:	31% ~ 70%
	Red:	70% ~ 100%
Softwood/Hardwood:	Green:	5% ~ 14%
	Yellow:	15% ~ 17%
	Red:	18% ~ 53%

An acoustic alarm signal additionally sounds for the following measured values:

Wall/Masonry	> 70%
Softwood/Hardwood	> 17%

2.5. If you want to hold or freeze the currently determined measured value, press the Hold key on the device. If you want to make a new measurement or if the holding/freezing is no longer required, press the Hold key again and the device is released for new measurements.

2.6. To turn off the unit, press and hold the power button  for about two (2) seconds. Alternatively, the unit will automatically turn off after two (2) minutes of inactivity.

## Technical data:

<b>Model:</b>	WDH-318KC
<b>Power supply:</b>	9 V Battery
<b>Current consumption:</b>	<35 mA
<b>Measuring ranges:</b>	0% ~ 53% Softwood 0% ~ 35% Hardwood Results of walls, ceilings, floors and masonries correspond to the displayed relative values.
<b>Precision:</b>	± 4%
<b>Max. measuring depth:</b>	20 mm
<b>Application range:</b>	0 ~ 40° C and 0 ~ 70% r.h.
<b>Measurements (H/W/D):</b>	170 x 75 x 30 mm
<b>Weight:</b>	186 g (with Battery)

*The technical data are subject to change without notice !!*

## **Troubleshooting:**

The instrument does not determine any measurement results or the measured value appears unrealistic:

1. Check the battery or make sure that there is sufficient battery voltage.
2. Repeat the measuring procedure.
  - If a measurement error occurs again:
3. Calibrate the instrument manually as follows. Switch on the instrument. Make sure that the rear measuring field on the instrument is clean, dry and free of contact. Now press the Hold button on your instrument until the display shows the value of 101%. Now release the Hold button on your device and a value of 102% should appear briefly in the display. Followed by 000%. Now your meter has been calibrated manually and should function properly again.

## **Additional:**

### **Guarantee declaration:**

Without prejudice to the statutory warranty claims, the manufacturer grants a warranty in accordance with the laws of your country, but at least 1 year (in Germany 2 years for private persons). The warranty begins on the date of sale of the device to the end user. The warranty extends exclusively to defects which are attributable to material or manufacturing defects.

Warranty repairs may only be carried out by an authorized service center. To claim your warranty, the original sales receipt (with date of purchase) must be attached.

The following are excluded from the guarantee:

- Normal wear
- Improper use, such as overloading the device or unauthorized accessories
- Damage due to external influences, use of force or foreign objects
- Damage caused by non-observance of the operating instructions, e.g. connection to an incorrect mains voltage or non-observance of the installation instructions
- Completely or partially dismantled devices

## **Conformity:**

The meter and/or parts thereof have been tested and manufactured to the following (safety) standards:

## **Naturally CE (EMC) compliant.**

Conformity tested according to: EN 61326-1:2013  
EN 61326-2-2:2013  
EMC Directive 2014/30/EU

## **Obligation to inform according to battery law (BattG):**

Make sure that your old batteries comply with the legal requirements, be delivered to a municipal collection point or in local trade. Disposal with normal household waste is prohibited and violates the battery law. The disposal is free of charge for you. You are also welcome to return the batteries purchased from us to us free of charge after use. The return of the batteries/rechargeable batteries to us must always be sufficiently stamped.

Returns of batteries/rechargeable batteries must be addressed to:

Aktobis AG, Borsigstr. 20, D-63110 Rodgau

Batteries and accumulators that contain harmful substances are clearly marked with the symbol of a crossed-out dustbin. In addition, under the symbol of the crossed-out dustbin is the chemical name of the corresponding pollutants. Examples of this are: (Pb) lead, (Cd) cadmium, (Hg) mercury.

## Correct disposal of this product:



Within the EU, this symbol indicates that this product must not be disposed of with household waste. Old appliances contain valuable recyclable materials which should be recycled. In addition, the environment and human health should not be polluted by uncontrolled waste disposal. Please dispose of Old appliances should therefore be collected via suitable collection systems or sent for disposal to the place where they were purchased. The latter will then recycle the device.

We wish you a lot of fun with this device

## **Aktobis AG**

***Keep these instructions for use in a safe place !***