

USER MANUAL

AW-TESTER

PCE-WAM 10



User manuals in various languages (français, italiano, español, português, nederlands, türk, polski) can be found via our product search on:
www.pce-instruments.com

SAFETY INFORMATION

Please read this user manual carefully and in its entirety before using the device for the first time. The device may only be used by carefully trained personnel. We accept no liability for damage caused by failure to observe the instructions in the operating manual.

- » This measuring device may only be used in the manner described in this operating manual. Using the measuring device in any other way may result in dangerous situations.
- » Only use the measuring device if the ambient conditions (temperature, humidity, etc.) are within the limits specified in the specifications.
- » Do not expose the device to extreme temperatures, direct sunlight, extreme humidity, or moisture.
- » Do not expose the device to shocks or strong vibrations.
- » The device housing may only be opened by qualified personnel from PCE Deutschland GmbH.
- » Never use the measuring device with wet hands.
- » No technical modifications may be made to the device.
- » The device should only be cleaned with a cloth. Do not use abrasive cleaners or cleaning agents containing solvents.
- » The device may only be used with accessories supplied by PCE Deutschland GmbH or equivalent replacements.
- » Check the housing of the measuring device for visible damage before each use. If visible damage is found, the device must not be used.
- » The measuring device must not be used in an explosive atmosphere.
- » The measuring range specified in the specifications must not be exceeded under any circumstances.
- » Failure to observe the safety instructions may result in damage to the device and injury to the operator.

We accept no liability for printing errors or factual errors in this manual.

We expressly refer to our general warranty conditions, which can be found in our General Terms and Conditions.

TECHNICAL SPECIFICATIONS

Water activity	
Measuring range	0,01 aw ... 1 aw
Resolution	±0,01 aw
Accuracy	0,03 aw
Temperature	
Measuring range	0 °C ... 50 °C
Resolution	0,1 °C
Accuracy	±1 °C
General technical data	
Display type	LCD
Sensor	Non-conductive moisture sensor
Battery type	AAA battery (1.5V)
Menu language	English
Protection class	IP20
Weight	244 g
Device weight with scope of delivery	930 g
Dimensions (L x W x H)	150 x 68 x 68 mm
Inner diameter of sample trays	33 mm
Operating conditions	0 ... 50 °C, 0 ... 95 % r. F.
Storage conditions	0 ... 50 °C, 0 ... 95 % r. F.

DEVICE DESCRIPTION

- 1 - Screen
- 2 - Water activity measurement
- 3 - Temperature measurement
- 4 - Interface
- 5 - On/Off button
- 6 - Measurement chamber with sensor
- 7 - Battery compartment



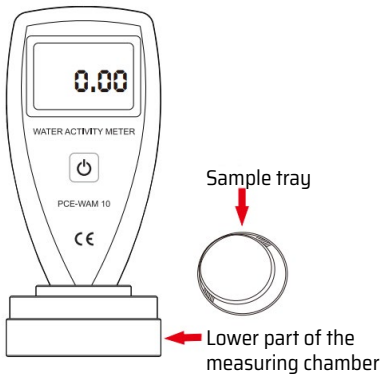
OPERATION

Measuring water activity primarily provides information about the amount of free water in the undisturbed equilibrium of the food with the ambient air, the stability of the food and the possibility of microbial growth, as well as the chemical, enzymatic and physical changes that can lead to a change in food quality. It is often used to measure the ability of microorganisms to resist drying. By measuring the water activity of food and choosing suitable packaging and storage methods, the use of preservatives can be reduced and the shelf life of food, grains, fruits, and vegetables can be assessed.

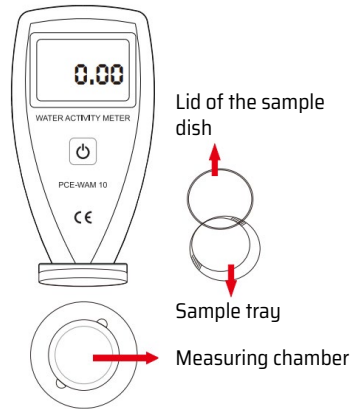
The PCE-WAM 10 is used to measure the water activity of food. No matter when and where you need to measure water activity, this portable device allows you to do so anytime, anywhere.

MEASURE

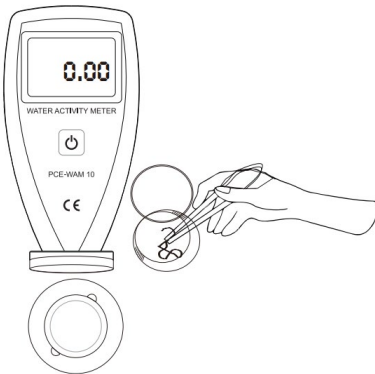
- » Press the on/off button to turn on the device. After switching on, the water activity meter automatically starts measuring.
- » Place the samples in the sample tray. Insert the tray into the lower part of the measuring chamber. Close the measuring chamber. Allow the device to measure for about 5 minutes. Once the value has stabilized, you can read the water activity value on the display.
- » When the measurement is complete, press the on/off button to turn off the device. Clean the sample tray for the next use.
- » The measurement procedure is illustrated below.



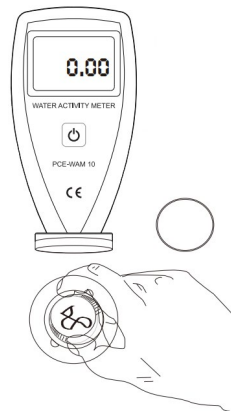
Remove the water activity meter from the case.



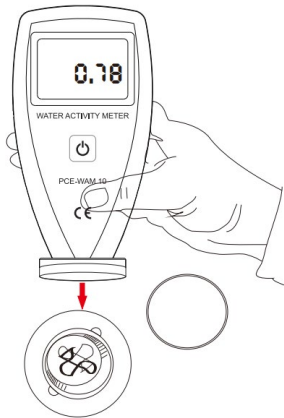
Open the measuring chamber.



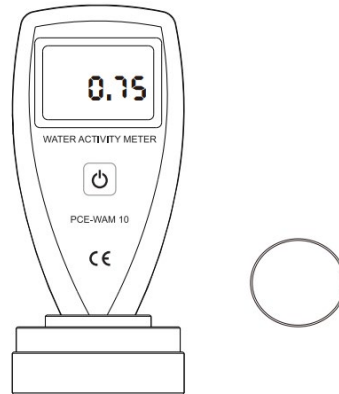
Place the sample in the plastic sample tray.



Place the plastic tray with the sample in the measuring chamber.
Important! The plastic tray must not be covered with the lid.



Close the measuring chamber and start the measurement (if the device is not already switched on).



Let the device measure for about 5 minutes until the value stabilizes.

CALIBRATION

If the measured value needs to be corrected, press and hold the on/off button for about 7 seconds. Then release the button when **Cor** is displayed. A two-digit decimal number appears, representing the correction value.

Then open the battery compartment cover. Directly below the batteries, you will find two small holes behind which there are buttons. Press these with a screwdriver to increase or decrease the correction value. Pressing the left button increases the value by 0.01; pressing the right button decreases the value by 0.01. The adjustment range of the correction value is -0.05 to 0.05.

Once you have made the setting, press the on/off button to return to measurement mode.

DISPOSAL

For the disposal of batteries in the EU, the (EU) 2023/1542 directive of the European Parliament applies. Due to the contained pollutants, batteries must not be disposed of as household waste. They must be given to collection points designed for that purpose. In order to comply with the EU directive 2012/19/EU we take our devices back. We either re-use them or give them to a recycling company which disposes of the devices in line with law. For countries outside the EU, batteries and devices should be disposed of in accordance with your local waste regulations. If you have any questions, please contact PCE Instruments.

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