USER MANUAL

WATER ACTIVITY METER

PCE-WAT 10

ENGLISH



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

INTRODUCTION

PCE-WAT 10 is a portable water activity meter, which can measure the water activity of solid (powder, granular, block), liquid and pasty samples. It is mainly used for the effective moisture that microorganisms can use or participate in chemical reactions in the reaction equilibrium state, product stability and microbial reproduction ability. Widely used in food processing, feed production, chemical and pharmaceutical, scientific research, experiments and other occasions.

- It can display water activity and temperature of samples at the same time.
- The backlight brightness can be adjusted.
- High-precision sensor.
- High accuracy and stable performance.
- The measuring time is 5 minutes and easy to operate.
- With data memory and view functions.
- With battery indication function.
- With automatic poweroff function.

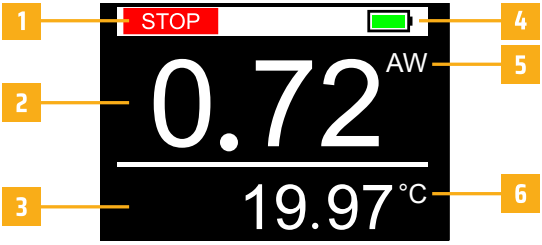
DEVICE DESCRIPTION

1 - LCD Display
2 - POWER Key
3 - Sample Cup
4 - DATA Key
5 - START Key



DISPLAY SYMBOLS

1 - The Indication of Measuring State
2 - Water Activity Value display area
3 - Sample Temperature display area
4 - The State of Batteries
5 - Water Activity Unit (AW)
6 - Sample Temperature Unit (°C)



SPECIFICATIONS

Display	LCD
Sensor	Non-conductive Humidity Sensor
Range	0.00 ... 1.00 aw
Accuracy	±0.02 aw
Resolution	0.01
Measuring time	5 min (general sample)
Data memorized	99 Groups
Operating conditions	Temperature: 0 ... 50°C Humidity: 0 ... 80%RH (no condensation)
Storage conditions	Temperature: -10 ... 60°C Humidity: 0 ... 90%RH (no condensation)
Power supply	3 x 1.5V AAA (UM-4) Batteries
Size	Main Unit: 75 x 23 x 151 mm Sample Cup: φ35mm

Note: When move from one temperature/humidity extreme to another, please wait minutes for the meter to stabilize condition.

INSTRUCTIONS

Power On/Off

» Power On: press and hold the power key.

» Manual Power Off: press and hold the power key for 3 seconds.

» Automatic Power Off: 10 minutes after no operation.

Backlight Brightness

» Short Press the power key, adjust the backlight brightness.

» The brightness adjustment sequence is 100% - 60% - 30% cyclic.

Measuring

» Start Measuring: short press the start key, the meter starts measuring, and the RUN symbol appears on the display.

» Stop Measuring: the STOP symbol appears on the display.

» Complete Measuring: the DONE symbol appears on the display and you will hear 3 beeps.

» Note: The measurement data is memorized automatically.

Data Viewing

» Data Viewing: press and hold the data key to view the memorized data; press and hold the data key again to exit.

» Turn to page: short press the start key, turn to previous page; short press the data key, turn to next page.

BATTERY REPLACEMENT

» When the indication symbol appears on the display, it means low battery and needs to replace batteries timely.

» Unscrew the top screw and open the back cover.

» Replace the new batteries correctly in the battery compartment.

» If the meter will not be used for a long time, please remove the batteries to prevent the batteries from rot and damage the meter.

CLEANING

To avoid damage, do not use abrasives or solvents for cleaning the meter. Do not disassemble the meter without authorization, the wrong method will cause man-made damage.

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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