

LABORATORY WATER ACTIVITY METER

PCE-WAM 60-KIT



- » measurement range 0 ... 1 aw
- » up to 4 aw sensors simultaneously
- » data memory: 65535 data records per channel
- » USB and RS232 interface
- » real-time display of the measurement curve
- » standard, quick and continuous display modes
- » real-time control via software
- » integrated printer
- » 7" LC touch display
- » password-protected user profiles
- » incl. 4 sensors

The laboratory water activity meter enables the simultaneous or separate measurement of water activity on 4 channels. It measures water activity within a range from 0 ... 1 aw and temperature from -10 ... +50 °C.

What does the aw value mean? The aw value is the freely available, unbound or active water in organic products such as food or pharmaceuticals, also known as water activity. It indicates the vapour pressure of the food when it is in undisturbed equilibrium with the surrounding air. The aw value is a decisive criterion for predicting the perishability and edibility of products, particularly with regard to microbial growth, chemical and biochemical reaction rates and physical properties. Contrary to widespread assumptions and common practice in quality management, it is not the moisture or water content of a product that is decisive but its aw value. This is decisive for the development and multiplication of microbes, moulds and yeasts.

Our meter is equipped with a 7" touchscreen that displays the data in real time and saves it for later analysis. Results, graphs and measurement data can be called up at any time. Thanks to the professional sensor, the device provides very accurate results within 3 to 5 minutes.

The laboratory water activity meter has three different measurement modes: normal measurement mode, a quick measurement mode and the continuous display mode as well as a real-time display of the measurement curve.

Specification

Water activity

| | |
|-------------------------|-------------------------|
| Measurement range up to | 0 ... 1 aw |
| Resolution | 0,0001 aw |
| Accuracy | ±0.01 aw (10 ... 30 °C) |

Temperature

| | |
|-------------------------|----------------|
| Measurement range up to | -10 ... +50 °C |
| Resolution | 0,01 °C |
| Accuracy | ±0.1 °C |

General technical data

| | |
|------------------------------|-----------------------------------|
| Number of measuring channels | 4 |
| Display type | LC touch display |
| Display size | 7 Inch |
| Storage medium | Internal memory |
| Storage capacity | 65535 Data records |
| Interface | USB, RS232 |
| Sensor | Capacitive |
| Calibration | 1 - 6 points |
| Menu language | English, French, Spanish, Chinese |
| Protection class (device) | IP20 |
| Power supply | 110 ... 240 V AC 50/60 Hz |
| Connector type | Schuko plug |
| Weight | 2940 g |
| Operating conditions | -10 ... 40 °C , 20 ... 60 % r.F |
| Storage conditions | -10 ... 40 °C , 20 ... 60 % r.F |
| Dimensions (L x W x H) | 265 x 220 x 135 mm |