



# WaterLab

Dew Point Water Activity Meter

Benchtop water activity meter







## Technical specifications:

### Activity water

- Measuring range: from 0,030 to 1,000 aW
- Accuracy:  $\pm 0,003$  aW at + 25°C
- Repeatability (standard deviation):  $\pm 0,001$  aW
- Calibration: Multiple at 5 points (0.250 – 0.500 – 0.760 – 0.920 – 0.984) Single: at any point, user settable
- Equilibrium/measurement times: < 5 minutes (IN EQUILIBRIUM, real and definitive data, NOT approximate)
- Sensor: Dew point (sensor required by ISO 21807:2004 and subsequent ISO 18787:2017) Sensor block with front opening for easy sample insertion and cleaning. Equipped with a fan for uniform headspace, a high-seal chamber with a seal that guarantees very little environmental interference
- Display resolution:  $\pm 0.0001$  aw (4 decimal places)
- Security: administrator and user management via password (in compliance with 21 CFR part 11 - guarantee of data integrity).

### Temperature

- Complete sample thermostating: at +25°  $\pm 1$  °C (adjustable from +15°C to +50°C) Real sample temperature reading with dedicated infrared sensor (also equipped with temperature indicator for the lid and the base of the reading block and cooled mirror temperature sensor)
- Operating range at room temperature: +5°C to +50°C
- Digital resolution: 0.01 °C
- Accuracy:  $\pm 0.2$  °C
- Uncertainty:  $\pm 0.2$  °C

## General features:

- Water activity meter (aW) in compliance with ISO 21807: 2004 and subsequent ISO 18787:2017 standards
- 7-inch, latest-generation, color touchscreen graphic display
- User-friendly internal management software with pop ups and notification systems for easy workflow management
- Equipped with USB ports outputs for connection to an external PC and for downloading data onto mobile memory cards
- Equipped with Wi-Fi and Ethernet functionality for connections to local networks and remote control
- Total data management flexibility, thanks to the ability to store information, produce graphics, save operator names
- Set up for connection to external barcode readers and printers



Cups and Lids available for any aW analyzer



**Waterlab** represents the state-of-the-art in water activity (aW) meters, and today it is an essential instrument for the quality control of products and ingredients in the food, pharmaceutical and cosmetic industries.

Wherever it is necessary to study a product's shelf life in order to determine its risk of microbial development and therefore how long it will keep over time, Waterlab is the answer.

**Waterlab** is also the top-performing instrument on the market, thanks to its dew point sensor, which measures the actual water activity (aW), and not related secondary parameters. For this reason, the dew point sensor is considered the benchmark for these measurements.

New calibration and control modes allow the operator to optimize times even for multiple

analyses of samples with very different water activity (aw) values. With the introduction of innovative calculation and temperature control systems, Waterlab allows you to perform different types of analyses: from simple control measurements to specific shelf life tests for each individual case.

Waterlab's latest generation touch screen graphic display, Wi-Fi and USB compatibility ensure a simple, intuitive workflow, allowing automatic data saving and immediate recognition of the sample and the operator, as well as communication with PCs and external memory cards.

**Waterlab** is certifiable and in compliance with the latest ISO standards.



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