

Benchtop Water Activity Meter

[metergroup.com/food/products/aqualab-4te-water-activity-meter](https://www.metergroup.com/food/products/aqualab-4te-water-activity-meter)



Direct measure of water activity accurate to 0.003

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AQUALAB 4TE

Speed and accuracy

Measure water activity (a_w) in 5 minutes or less (average read time: 2.5 minutes) with $\pm 0.003 a_w$ accuracy. AQUALAB instruments are the fastest, most precise water activity meters available.

Use anywhere

Use the AQUALAB 4TE water activity meter to get lab-quality measurements at the line, receiving dock, processing plant, storage facility—anywhere you need to test and verify the safety and quality of your products and ingredients.

Internal temperature control lets you set a measuring temperature between 15 and 50 °C and use the instrument anywhere—even outside the QC lab.

How it works

The secret to the 4TE's speed and accuracy is in its unique chilled mirror dew point sensor. The dew point sensor is a primary measure of water activity. Unlike other water activity sensors, the dew point sensor actually measures water activity (A_w), not some secondary parameter merely correlated with water activity (A_w). This makes the 4TE extremely accurate, so you can have complete confidence in your sample readings.

Easy to clean

The sample chamber lid flips up so contamination in the sample chamber is quick to spot and easy to clean.

Secure data

The AQUALAB water activity meter 4TE stores time, date, and user information with every measurement and calibration, and can store up to 10,000 secure data points.

Administrative functions can be set to control access to data. Designate up to 25 unique users and passwords. Use the RS-232 serial data port to download or print data for statistical analysis and to maintain compliance records and archives.

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[Features](#) [Specifications](#) [Accessories](#) [Support / Downloads](#) [Request a quote](#)

Features

- Fast: water activity meter gets readings in 5 minutes or less
- Accurate: $\pm 0.003 a_w$
- Verifiable with independent salt standards
- Repeatable: different users, different locations, same result
- Portable: weighs just 7 pounds
- Easy to use: water activity meter yields precise measurements with minimal training
- Secure: offers administrative control over calibration and sample data
- Proven: used by 80 of the top 100 food companies

Specifications

MEASUREMENT SPECIFICATIONS

Water activity	Range: 0.030–1.000 a_w Resolution: 0.0001 a_w Accuracy: ± 0.003 (4TE dew point) ± 0.015 (4TEV capacitance) Repeatability: 0.001 a_w
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Temperature	Range: 15-50 °C Resolution: 0.01 °C Accuracy: ± 0.1 °C
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Read time	~5 min
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PHYSICAL SPECIFICATIONS

Case dimensions	Length: 26.7 cm (10.5 in) Width: 17.8 cm (7.0 in) Height: 12.7 cm (5.0 in)
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Case material	POLYLAC PA-765 (ABS) with fire retardant
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Sample cup capacity	14 mL (0.47 fl oz)
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Weight	3.1 kg (6.8 lb)
Display	64 × 128 graphical
Operating temperature	Minimum: 4 °C Maximum: 50 °C
Operating environment	0%–90% noncondensing
Data communications	USB A and RS-232 serial 9,600–115,000 baud
Power	110–220 VAC 50/60 Hz
COMPLIANCE	Manufactured under ISO 9001:2015 EM ISO/IEC 17050:2010 (CE Mark)

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