

Fast—water activity readings in 5 minutes or less.

ENSURE THE SAFETY AND QUALITY OF YOUR PRODUCTS

■ Accurate —

$\pm 0.003 a_w$

■ Verifiable —

with independent salt standards.

■ Repeatable —

different users,
different locations,
same result.

■ Portable —

the meter weighs just
7 pounds.

■ Easy to use —

precise measurements
with minimal training.

■ Secure —

offers administrative
control over calibration
and sample data.

■ Proven —

used by 80 of the top
100 food companies.

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

Speed and Accuracy

Measure water activity 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 (Almost) Anywhere

Water activity is temperature dependent. Internal temperature control lets you set a measuring temperature between 15°- 50°C and use the instrument anywhere—even outside a climate-controlled facility.

How it Works

Put a 7.5 ml product sample in a disposable cup, seal the sample chamber lid over the sample, and wait for vapor equilibrium.

An infrared beam focused on a tiny mirror determines the precise dew point temperature of the sample. That dew point temperature is then translated into water activity.

Easy to Clean

The sample chamber lid flips up so contaminated sensors are quick to spot and easy to clean.

Secure Data

The 4TE stores time, date, and user information with every measurement and calibration, and can store up to 8,000 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.

Easy to Use

AquaLab Series 4TE makes water activity measurements quick, accurate, and simple. Using AquaLab, anyone, from a researcher in the lab to an operator at the line, can measure water activity in 5 minutes or less to 0.003 a_w specifications. That means tighter control points, better quality, and a leaner operation.

Learn More

Visit wateractivity.com to see how water activity can keep your products safe and your process lean. ■



**AQUA
LAB**
BY DECAGON

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Pullman, Washington 99163
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AquaLab 4TE Specifications

AquaLab 4TE Dewpoint Water Activity Meter



Free loaner service during warranty period

Free technical and application support over the life of the instrument

Sensor Types

- Chilled-mirror dewpoint
- Infrared temperature

Water Activity Accuracy

± 0.003 a_w

Water Activity Resolution

0.0001 a_w

Water Activity Range

0.030 to 1.000 a_w

Water Activity Repeatability

± 0.001 a_w

Sample Temperature Control

15 to 50 °C (± 0.2 °C)

Sample Temperature Resolution

0.01 °C

Sample Dish Capacity

7.5 ml recommended (15 ml full)

Measurement Time

Less than 5 minutes

Display

128 x 64 pixel LCD display with backlighting.

Test Result Memory

8,000 readings (each reading includes water activity, temperature, time, date, operator, and sensor used)

Program Identification

Alphanumeric; Programmable to display product name, lot, or product ID number

Operating Environment

4 to 50°C (39.2 to 122°F)
0 to 90% Relative Humidity (non-condensing)

Universal Power

110 V to 220 V AC, 50/60 Hz
Less than 0.4 amps

Data Interface

USB and RS232A compatible, 8-data bit ASCII code, 9600 baud, no parity, 1 stop bit, cable included

Case Dimensions

26.7 x 18.0 x 12.7 cm
(11 x 7.1 x 5.1 in)

Case Material

Machined aluminum frame; Lustran 433 (ABS) with fire retardant

Weight

3.18 kg (6.9 lb)

Warranty

One year, factory parts & labor

Certifications

CE; AOAC Approved Method for Measurement of Water Activity, Part 11 Compliance

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