



#### ◀ Volatiles Sensor

Measure samples with volatiles like propylene glycol without worrying about effects on the dew point sensor.

#### ■ Accurate —

±0.003  $a_w$  dew point  
±0.015  $a_w$  capacitance

#### ■ Verifiable —

with independent salt standards.

#### ■ Repeatable —

different users, different locations, same result.

#### ■ Easy to use —

precise measurements with minimal training.

## DEW POINT AND CAPACITANCE SENSORS IN ONE INSTRUMENT

# Simply Measure $a_w$ Even with Volatile Substances

**U**sing dew point sensors to measure water activity is easy, fast, and accurate. But, volatile substances can interfere with good readings. The AquaLab 4TEV solves this problem by offering both dew point and capacitance water activity sensors on one instrument

#### Easy Switch

You can change between capacitance and dew point sensors before taking a reading. This is done in a menu on the AquaLab's screen, and takes about 5 seconds.

#### Test Volatiles Effects

A sample may contain an ingredient like glycerol that is volatile, but doesn't negatively effect the dew point sensor. Having both sensors allows you to know which samples could present a problem. Simply test if the readings are the same.

#### Uses in R&D

Many times R&D labs are asked to test new formulations and flavors in the course of product development. Having both sensors on one instrument can prepare your R&D group for the wide variety of samples they test. ■

**AQUA  
LAB**  
BY DECAGON

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[www.wateractivity.com](http://www.wateractivity.com)

## AquaLab 4TEV Specifications

### AquaLab 4TEV 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
- Capacitance

#### Water Activity Accuracy

Chilled Mirror:  $\pm 0.003 a_w$   
Capacitance:  $\pm 0.015 a_w$

#### Water Activity Resolution

Chilled Mirror:  $0.0001 a_w$   
Capacitance:  $0.01 a_w$

#### Water Activity Repeatability

Chilled Mirror:  $\pm 0.001 a_w$   
Capacitance:  $\pm 0.0003 a_w$

#### Water Activity Range

Chilled Mirror:  $0.030 a_w$  to  $1.000 a_w$

#### Capacitance

$0.0 a_w$  to  $1.000 a_w$

#### Sample Dish Capacity

7 ml recommended (15 ml full)

#### Measurement Time

Less than 5 minutes

#### Display

128 x 64 pixel LCD display with backlighting

#### Temperature Control

15 to 50 °C ( $\pm 0.2$  °C)

#### 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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