4TEV: 4TE + Volatiles Sensor

metergroup.com/food/products/aqualab-4tev-water-activity

Switch sensors to measure samples with volatiles

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AQUALAB 4TEV

In addition to the standard dew point sensor, the Series 4TEV has a hygroscopic polymer capacitance sensor that can be used to measure the water activity of samples containing volatiles. You can switch between sensors using the instrument menu. The capacitance sensor is less accurate ($\pm$ 0.015 a_w) than the dew point sensor ($\pm$ 0.003 a_w).

For samples containing volatiles: 4TEV and AQUALAB TDL

The Series 4TEV is best for customers who occasionally need to measure samples that contain volatile ingredients in low concentrations. If the product itself is volatile (soy sauce, alcohols, flavorings, black tea) or contains a high concentration of volatiles (flavored teas, sauces and seasonings), the laser sensor in the AQUALAB TDL is a better option.

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Features   Specifications   Accessories   Support / Downloads

Features

- Fast: water activity readings in 5 minutes or less
- Switch easily between volatiles and non-volatiles sensors
- Volatiles sensor accuracy: ± 0.015 a_w
- Non-volatiles sensor accuracy: ±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

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
Temperature	Range: 15-50 °C Resolution: 0.01 °C Accuracy: ±0.1 °C
Read time	~5 min

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)
Case material	POLYLAC PA-765 (ABS) with fire retardant
Sample cup capacity	14 mL (0.47 fl oz)
Weight	3.1 kg (6.8 lb)

Display	64 × 128 graphical
Operating temperature	Minimum: 4 °C Maximum: 50 °C
Operating environment	0%–90% noncondensing
Sample dish capacity	7.5 mL recommended (15 mL full)
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)

California requires the following notice:

Support

Have a question or problem? Our support team can help.

We manufacture, test, calibrate, and repair every instrument in house. Our scientists and technicians use the instruments every day in our product testing lab. No matter what your question is, we have someone who can help you answer it.

Email: support.food@metergroup.com

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