

Compact and lightweight water activity measuring device. Ideal for Quality and Product Development in Food, Pharmaceutical, and Cosmetic applications

Convenient & Easy to use

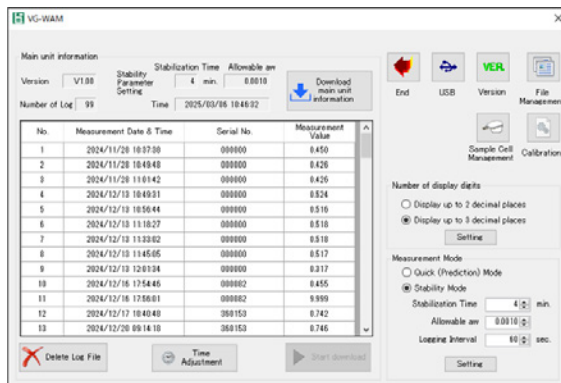
- Measurements within four steps
- Detachable sensor design allows for multiple samples to be set-up while test underway
- Portable - use right on production line

Precise with wide applications

- Capacitive Sensor is capable of measuring solids, powders and liquids
- Electrical Resistance Sensor for samples containing high alcohol content is available and sold separately
- Calibrate meter with optional calibration salts (sold separately)
- Allows for 1- to 3-point calibration

Versatile

- Run a quick test or a long (stability) test using the same unit
- Log data in the meter and transfer to a computer
- Set up meter and manage logged data through the included software (Operating Systems Windows 10 & 11)
- Calibrate at different levels for different samples, save the calibration factors to your computer, and then load the factor to the sensor for whichever sample you are testing



Transfer and manage logged data with included software

Water Activity Meter Kit

Item No.	Dimension L x W x H (in)	Dimension L x W x H (mm)
47002	5.11 x 3.6 x 1.85	130 x 92 x 47

Why Water Activity Matters

- Extends shelf life
- Improves product safety
- Supports regulatory compliance
- Optimizes production
- Enables stable, high-quality formulations



Food

Controls moisture to inhibit microbial growth, reduce spoilage risk, and support shelf-life stability and regulatory compliance.



Pharmaceuticals

Supports dosage form stability and performance by optimizing moisture control in accordance with USP and EP requirements.



Cosmetics

Evaluates moisture availability to reduce microbial risk and ensure product stability, safety, and efficacy.

Specifications	
Sensor Type	Capacitive Humidity Sensor
Measurement Modes	Quick and Stability modes
Measurement Range	0.001 to 1.000 aw / 0 to 80°C
Resolution	0.01 aw / 0.1°C
Water Activity Accuracy	±0.01 aw
Data Logging	99 sets of data in total
Logging Interval	1 to 3600 seconds
Power	Four AAA alkaline batteries (not included) for datalogging; USB power when connected to a PC for setup and data transfer
Meter Dimensions	130 x 92 x 47 mm
Weight	160 g
What's Included	Water Activity Meter, Sensor Assembly with sample cup, five extra sample cups with lids, five replacement sensor filters, USB micro B to USB type A cord, hard carrying case



Protective carrying case keeps components organized

Replacements and Accessories

Item No.	Description
47001-FILTER	Replacement Sensor Filters, Pk/10
47001-SC	Sample Containers Pk/10
47001-SENSOR	Replacement Capacitive Sensor with Sample Cup
47001-ALSENSOR	Electrical Resistance - Alcohol Sensor
47001-ALFILTER	Filters for Alcohol Sensor

Calibration Salts

For use with Water Activity Meter to verify accuracy

It is recommended to perform water activity calibration if the measurement result of the saturated salt under the same conditions as sample measurement deviates by more than $\pm 0.02^*$ from the reference value

Salts are reusable

- Do not pierce waterproof breathable film
- Recommend to replace after one year

To use:

- Open the lid and set it on the sensor to complete preparation

Please follow the testing standards based upon your sample product

- ISO 18787:2017 - Food Products
- ASTM E104 - Pharmaceuticals and Cosmetics

Item No.	Description
47010	Calibration Salts 0.225 AW
47011	Calibration Salts 0.328 AW
47012	Calibration Salts 0.529 AW
47013	Calibration Salts 0.753 AW
47014	Calibration Salts 0.843 AW
47015	Calibration Salts 0.930 AW
47016	Calibration Salts 0.973 AW



47013



47014



47015