

AwLab Benchtop Water Activity Meter

Fast, accurate, and reliable water activity analysis — engineered for quality control laboratories, food manufacturers, pharmaceutical companies, research institutions, and testing organizations. AWLAB supports up to **five independent measurement channels**, delivering professional-grade results with maximum laboratory efficiency.

MODEL: AWLAB

CE · FCC · PSE · ROHS CERTIFIED



Multi-Channel Water Activity Testing

Unlike conventional water activity meters, AWLAB supports up to **five independent measurement channels** operating simultaneously — significantly improving testing efficiency, reducing waiting time, and increasing laboratory productivity. Featuring advanced sensor technology, intelligent measurement algorithms, and powerful data management software, AWLAB delivers accurate, repeatable, and reliable water activity measurements for demanding laboratory and industrial applications.

5

Measurement Channels

Simultaneous independent testing

5mins

Typical Test Time

Rapid results in Fast Measurement Mode

±0.015

Accuracy (Aw)

Laboratory-grade precision

5030

Records per Channel

Built-in data storage capacity

Why Choose AWLAB?

Test Up to 5 Samples Simultaneously

AWLAB supports up to five independent measurement channels operating at the same time, enabling simultaneous testing of multiple samples with up to five times higher testing efficiency. This reduces laboratory waiting time and increases productivity and throughput — ideal for batch testing applications.

Fast Measurement

Advanced sensor technology and intelligent calculation algorithms provide rapid and reliable results. Fast Measurement Mode delivers results in as little as 3 minutes, with typical measurement time of approximately 5 minutes — significantly improving testing efficiency without compromising accuracy.

Laboratory-Grade Accuracy

AWLAB utilizes professional imported water activity sensors to ensure outstanding measurement performance: accuracy of ±0.015 Aw, resolution of 0.0001 Aw, and long-term stability of less than 0.0025 Aw/year. Accurate measurements help improve product quality, shelf-life studies, and process control.

Key Features



5-Channel Measurement

Up to 5-channel



Professional Sensors

Professional water activity sensors



Fast Measurement

Fastest 3 minutes;
typical 5 minutes



3 Measurement Modes

Quick, Normal,
and Continuous



Thermal Printer

Built-in thermal printer



Data Storage

Storage of up to 5030
records per channel



Connectivity

USB communication



Data Export

Export to Excel, BMP



Certifications

CE, FCC, PSE, and RoHS

Typical Applications



Food Industry

Shelf-life prediction for
baked goods, meat
products, dairy products,
and snack foods



Pharmaceutical Industry

Water activity quality
control for active
pharmaceutical
ingredients, tablets, and
capsules



Cosmetics Industry

Water activity control for
skincare, makeup, and
personal care products



Research & Testing

Essential instrument for universities, research institutes, and third-party testing laboratories

Technical Specifications

Measurement Type	Water Activity (Aw)
Measurement Range	0.0000 – 1.0000 Aw
Resolution	0.0001 Aw
Accuracy	±0.015 Aw (10–30°C)
Temperature Accuracy	±0.1°C
Temperature Range	–10 to 50°C
Operating Conditions	–10 to 40°C
Long-Term Stability	<0.0025 Aw/year
Measurement Channels	Up to 5 Channels
Measurement Modes	Fast, Standard, and Continuous
Calibration	Single-Point, Two-Point, and Three-Point
Display	LCD
Data Storage	5030 Records per Channel
Printer	Built-In Thermal Printer
Communication	USB
Housing Material	Aluminum Alloy
Power Supply	110–230 V AC, 50/60 Hz
Dimensions	267 × 105 × 220 mm
Weight	Approx. 1.5 kg
Languages	English and Chinese
Certifications	CE, FCC, PSE, RoHS

Standard Package & Ordering Information

Standard Package Contents

- AWLAB Main Unit × 1
- Water Activity Probe AwSensor× 1
- Measurement Base AwBase× 1
- Sample Cups × 10
- ASoft Data Analysis Software × 1(download)
- USB Cable × 1
- Power Adapter × 1
- User Manual × 1

Ordering Configurations

Order No.	Model	Description
2000	AWLAB	Fixed Single-Channel
2001	AWLAB-1	Expandable Single-Channel
2002	AWLAB-2	2 channels
2003	AWLAB-3	3 channels
2004	AWLAB-4	4 channels
2005	AWLAB-5	5 channels

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