



LABMASTER-AW

High Precision Water Activity Measurement

WATER ACTIVITY MEASUREMENT

QUICK FACTS

LABMASTER-AW

Perfect for QA-Labs / Batch-Release / R&D

With full temperature control in the range of 0-50°C, the LabMaster is your flexible and reliable AW-meter for batch release, but as well as for product development where simulations have to be carried out under various conditions.

ADVANTAGES & BENEFIT

VERSATILE & PRECISE

"Top of the line" instrument with thermostatted measurement chamber for highest accuracy, precision and repeatability. Powder, gels, liquids or solids with aw-values from very low (0.03aw) to high (1.00aw) can be handled and measured by the instrument in a very easy way. Measurement temperature can be set individually in the range of 0 to 50°C which allows a measurement which is reproducible and compliant with standards (like AOAC, EN ISO etc) under all circumstances. These characteristics and the robust design in addition made the LabMaster a standard instrument for food and pharma applications.

FEATURES

EASE OF USE	● ● ● ● ●
SIZE OF DISPLAY	● ● ● ● ●
DATA STORAGE	● ● ● ● ●
MEASUREMENT SPEED	● ● ● ● ●
MEASUREMENT ACCURACY	● ● ● ● ●
QUICK MODE	● ● ● ● ●
APPLICATION RANGE	● ● ● ● ●
CHEM. PROTECTION FILTER	● ● ● ● ●
THERMOSTATTED CHAMBER	● ● ● ● ●
PRICE	● ● ● ● ●
RE-USABLE STANDARDS	● ● ● ● ●
EASE OF MAINTENANCE	● ● ● ● ●
HUMIDITY EQUILIBRIUM DETECTION	● ● ● ● ●

novasina
The Art of Precision Measurement

SPECIFICATION SHEET



LabMaster-aw

Measurement Specifications

	<i>Parameter</i>	
	<i>Water Activity</i>	<i>Temperature</i>
Measurement Principle	Resistive Electrolytic	NTC
Measurement Range	0.030.....1.000aw	0...50°C (32...122°F)
Calibration Range	0.040.....1.000aw	N/A
Resolution	0.001aw	0.1°C
Accuracy	+/-0.003aw within cal. range	+/-0.2°C
Precision	+/-0.002aw within cal. range	+/-0.1°C
Repeatability	+/-0.001aw within cal. range	N/A
Temperature Control	Programmable measurement temperature in the range of 0.....50°C (32.....122°F)	
Calibration Points (%rH)	4%, 6%, 11%, 33%, 53%, 58%, 75%, 84%, 90%, 97%, 100%	

Instrument-Specifications

	<i>LabMaster-aw</i>
Versions	BASIC, STANDARD and ADVANCED
Power Supply	90.....260 VAC 50/60 Hz
Display	LCD, 240 x 480 LED dots with background lighting
Communication	<ul style="list-style-type: none"> • RS-232 and USB 1.0 for PC / printer • internal bus system for LabPartner-aw
Housing	<ul style="list-style-type: none"> • Painted steel housing, weight 10kg • Dimensions (L x W x H)= 268 x 392 x 170mm
Volume measurement chamber	15mL
Dimensions Sample Cup	Diameter 30mm x Height 14mm
Protection Class	IP21
21CFR 11	Compliant



LABTOUCH-AW

Simple and Accurate Water Activity Measurement

WATER ACTIVITY MEASUREMENT

QUICK FACTS

LABTOUCH-AW

Suitable for Lab and Production

Versatile and fast water activity meter with big touchscreen for easy access. Appropriate for at-line measurement in production or for accurate water activity value determination in QA labs.

ADVANTAGES & BENEFIT

SIMPLE & ACCURATE

aW-instrument for various samples nevertheless if liquid, jellylike or solid. With its ergonomic design and touch screen, water activity measurement is made as easy as never before. A semi temperature-control as well as integrated surface temperature measurement allows an accurate and reproducible measurement. A selectable choice of measurement modes offers the opportunity to users to perform either a fast measurement at production lines or an accurate measurement for final control / batch release purposes.

FEATURES

EASE OF USE	● ● ● ● ●
SIZE OF DISPLAY	● ● ● ● ●
DATA STORAGE	● ● ● ● ●
MEASUREMENT SPEED	● ● ● ● ●
MEASUREMENT ACCURACY	● ● ● ● ●
QUICK MODE	● ● ● ● ●
APPLICATION RANGE	● ● ● ● ●
CHEM. PROTECTION FILTER	● ● ● ● ●
THERMOSTATED CHAMBER	● ● ● ● ●
PRICE	● ● ● ● ●
RE-USABLE STANDARDS	● ● ● ● ●
EASE OF MAINTENANCE	● ● ● ● ●
HUMIDITY EQUILIBRIUM DETECTION	● ● ● ● ●

novasina
The Art of Precision Measurement

SPECIFICATION SHEET



LabTouch-aw

Measurement Specifications

	<i>Parameter</i>	
	<i>Water Activity</i>	<i>Temperature</i>
Measurement Principle	Resistive Electrolytic	Surface-IR and NTC
Measurement Range	0.030.....1.000aw	5.....45°C (41.....113°F)
Calibration Range	0.110.....0.970aw	N/A
Resolution	0.001aw	0.1°C
Accuracy	+/-0.005aw within cal. range	+/-0.15°C
Precision	+/-0.003aw within cal. range	+/-0.1°C
Repeatability	+/-0.002aw within cal. range	N/A
Temperature Control	Programmable measurement temperature in the range of 15.....30°C (59.....86°F)*	
Calibration Points (%rH)	11%, 33%, 53%, 58%, 75%, 84%, 90%, 97%	

*Please refer to manual for detailed description and restrictions

Instrument-Specifications

	<i>LabTouch-aw</i>
Versions	BASIC and ADVANCED
Current Supply	5 VDC, +/-6%, max. power consumption 10W
Power Supply / Mains	90.....264 VAC 50/60 Hz
Display	4.3" LC-Display , color
Communication	<ul style="list-style-type: none"> • USB for PC / Drucker (Advanced) • SD/SD_{HC}-card (Basic and Advanced)
Housing	<ul style="list-style-type: none"> • Two-part PC/ABS housing, Weight: 2.8kg • Dimensions (L x W x H)= 200 x 285 x 105mm
Volume measurement chamber	15mL
Dimensions Sample Cup	Durchmesser 30mm x Höhe 14mm
Protection Class	IP22
21CFR 11	Partially Compliant



LABSWIFT-AW

Water Activity Measurement, Portable or Stationary

WATER ACTIVITY MEASUREMENT

QUICK FACTS

LABSWIFT-AW

Once Portability is Needed

A measurement here and there, in the lab or at production lines, the LabSwift-aw with battery pack offers maximum portability. No need to look for power cords in environments where they can hardly be found. This instrument is suitable for daily use and designed for samples in the low to mid water activity value range.

ADVANTAGES & BENEFIT

PORTABLE & RELIABLE

Looking for a water activity instrument with local flexibility so that you can even measure off-site in the field? If so, the LabSwift is exactly what fits best your need. Suitable for samples as powders or dried fruits with low to mid water activity values as the instrument does not offer temperature controlled measurement chamber. The established and proven Novasina, resistive-electrolytic measurement technology is implemented here as well and ensures reliable and accurate measurement results.

FEATURES

EASE OF USE	● ● ● ● ●
SIZE OF DISPLAY	● ● ● ● ●
DATA STORAGE	● ● ● ● ●
MEASUREMENT SPEED	● ● ● ● ●
MEASUREMENT ACCURACY	● ● ● ● ●
QUICK MODE	● ● ● ● ●
APPLICATION RANGE	● ● ● ● ●
CHEM. PROTECTION FILTER	● ● ● ● ●
THERMOSTATED CHAMBER	● ● ● ● ●
PRICE	● ● ● ● ●
RE-USABLE STANDARDS	● ● ● ● ●
EASE OF MAINTENANCE	● ● ● ● ●
HUMIDITY EQUILIBRIUM DETECTION	● ● ● ● ●

novasina
The Art of Precision Measurement

SPECIFICATION SHEET



LabSwift-aw

Measurement Specifications

	<i>Parameter</i>	
	<i>Water Activity</i>	<i>Temperature</i>
Measurement Principle	Resistive Electrolytic	Surface-IR and NTC
Measurement Range	0.030.....1.000aw	5.....45°C (41.....113°F)
Calibration Range	0.110.....0.900aw	N/A
Resolution	0.001aw	0.1°C
Accuracy	+/-0.010aw within cal. range	+/-0.15°C
Precision	+/-0.003aw within cal. range*	+/-0.1°C
Repeatability	+/-0.002aw within cal. range*	N/A
Temperature Control	no temperature control available	
Calibration Points (%rH)	11%, 33%, 53%, 58%, 75%, 84%, 90%	

*As long as temperature remains constant between different measurements

Instrument-Specifications

	<i>LabSwift-aw</i>
Versions	with and without battery pack
Current Supply	5 VDC, +/-6%, max. power consumption 10W
Power Supply / Mains	90.....264 VAC 50/60 Hz
Display	LC-display, dimension: 35x69 mm
Communication	SD/SD _{HC} -card
Housing	<ul style="list-style-type: none"> • Two-part PC/ABS housing, Weight: 1.2kg • Dimensions (L x W x H)= 225 x 140 x 85 mm
Volume measurement chamber	15mL
Dimensions Sample Cup	Diameter 30mm x Height 14mm
Protection Class	IP22
21CFR 11	Partially Compliant



LABSTART-AW

Good Start into Water Activity Measurement

WATER ACTIVITY MEASUREMENT

QUICK FACTS

LABSTART-AW

Ideal for the first steps

Cost-efficient water activity meter for a range of 0.3-0.6aw for modest requirements on accuracy and reproducibility. Can handle all type of samples like liquids or solids.

ADVANTAGES & BENEFIT

FOR THE FIRST MEASUREMENTS

Interested in finding-out, if water activity is something for your company and your products but without spending a fortune for a meter? In this case, LabStart-aw is the best choice. It is it as well if requirements in terms of accuracy and reproducibility are low to modest. Although it is designed as a starter meter, proven Novasina technology, especially the unique water activity sensor is implemented.

FEATURES

EASE OF USE	● ● ● ● ●
SIZE OF DISPLAY	● ● ● ● ●
DATA STORAGE	● ● ● ● ●
MEASUREMENT SPEED	● ● ● ● ●
MEASUREMENT ACCURACY	● ● ● ● ●
QUICK MODE	● ● ● ● ●
APPLICATION RANGE	● ● ● ● ●
CHEM. PROTECTION FILTER	● ● ● ● ●
THERMOSTATED CHAMBER	● ● ● ● ●
PRICE	● ● ● ● ●
RE-USABLE STANDARDS	● ● ● ● ●
EASE OF MAINTENANCE	● ● ● ● ●
HUMIDITY EQUILIBRIUM DETECTION	● ● ● ● ●

novasina
The Art of Precision Measurement

SPECIFICATION SHEET



LabStart-aw

Measurement Specifications

	<i>Parameter</i>	
	<i>Water Activity</i>	<i>Temperature</i>
Measurement Principle	Resistive Electrolytic	Surface-IR and NTC
Measurement Range	0.03.....1.00aw	15.....30°C (59.....86°F)
Calibration Range	0.33.....0.75aw	N/A
Resolution	0.01aw	0.1°C
Accuracy	+/-0.03aw within cal. range	+/-0.15°C
Precision	+/-0.01aw within cal. range*	+/-0.1°C
Repeatability	+/-0.01aw within cal. range*	N/A
Temperature Control	no temperature control available	
Calibration Points (%rH)	33%, 75%	

*As long as temperature remains constant between different measurements

Instrument-Specifications

	<i>LabStart-aw</i>
Versions	N/A
Current Supply	5 VDC, +/-6%, max. power consumption 10W
Power Supply / Mains	90.....264 VAC 50/60 Hz
Display	LC-display, dimension: 35x69 mm
Communication	none
Housing	<ul style="list-style-type: none"> • Two-part PC/ABS housing, Weight: 1.2kg • Dimensions (L x W x H)= 225 x 140 x 85 mm
Volume measurement chamber	15mL
Dimensions Sample Cup	Diameter 30mm x Height 14mm
Protection Class	IP22
21CFR 11	Not Compliant



CLIMMATE SET-AW

Handles Even Sample Chunks

WATER ACTIVITY MEASUREMENT

QUICK FACTS

CLIMMATE SET-AW

Handheld Water Activity Meter

Handheld unit with big sample box to measure water activity of bigger amounts of sample or sample chunks. Can be used for raw material inspection or in production. Suitable to get a sneak peek what the water activity of the sample is about.

ADVANTAGES & BENEFIT

FOR BIGGER SAMPLE CHUNKS

To measure a sample in a representative way, bigger amount of sample is required sometimes. In this case, Novasina's ClimMate Set aw offers a comfortable solution. It allows the user to measure bigger quantity of sample or chunks of sample or even bulky stuff. This water activity meter does not feature the Novasina equilibrium detection, thus end of measurement has to be determined by the user himself and there is as well any implemented temperature-control. This meter is battery powered, so it can easily be used as portable version.

FEATURES

EASE OF USE	● ● ● ● ●
SIZE OF DISPLAY	● ● ● ● ●
DATA STORAGE	● ● ● ● ●
MEASUREMENT SPEED	● ● ● ● ●
MEASUREMENT ACCURACY	● ● ● ● ●
QUICK MODE	● ● ● ● ●
APPLICATION RANGE	● ● ● ● ●
CHEM. PROTECTION FILTER	● ● ● ● ●
THERMOSTATED CHAMBER	● ● ● ● ●
PRICE	● ● ● ● ●
RE-USABLE STANDARDS	● ● ● ● ●
EASE OF MAINTENANCE	● ● ● ● ●
HUMIDITY EQUILIBRIUM DETECTION	● ● ● ● ●

novasina
The Art of Precision Measurement

SPECIFICATION SHEET



ClimMate-aw

Measurement Specifications

	<i>Parameter</i>	
	<i>Water Activity</i>	<i>Temperature</i>
Measurement Principle	Resistive Electrolytic	Surface-IR and NTC
Measurement Range	0.03.....1.00aw	0.....50°C (32.....122°F)
Calibration Range	0.11.....0.90aw	N/A
Resolution	0.01aw	0.1°C
Accuracy	+/-0.02aw within cal. range	+/-0.15°C
Precision	+/-0.01aw within cal. range*	+/-0.1°C
Repeatability	+/-0.01aw within cal. range*	N/A
Temperature Control	no temperature control and humidity equilibrium detection available	
Calibration Points (%rH)	Only with nSoft-CAL: Points: 11%, 33%, 53%, 75%, 90%	

*As long as temperature remains constant between different measurements

Instrument-Specifications

	<i>ClimMate Set aw</i>
Versions	N/A
Current Supply	4x 1,5 VDC Alkaline batteries or adapter 5 VDC
Power Supply / Mains	90.....264 VAC 50/60 Hz
Display	capacitive TFT display
Communication	USB to PC
Housing	<ul style="list-style-type: none"> • Plastic Housing, Weight: 0.2kg • Dimensions (L x W x H)= 62 x 170 x 34 mm
Volume measurement chamber	480mL
Dimensions Sample Cup	Diameter 80mm x Height 95mm
Protection Class	IP54
21CFR 11	Not Compliant