



LabSwift-aw

Portable precision instrument for measurement of the a_w -value (water activity) of foodstuff, pharmaceutical and chemical products and cosmetics

This compact and handy water activity measurement device with optional rechargeable batteries can be easily used for mobile measurement of the important a_w -value product quality parameter directly at-line. Its accuracy can be checked at any time using saturated salt standards. The **LabSwift-aw** is delivered including the accessories in a handy carrying case..



Measurement range a_w	: 0.03 ... 1.00 a_w , (not condensing)
Measurement range temp.	: 5 ... 45°C
Sensor	: with resistive-electrolytic measurement cell CM-2
Accuracy	: +/- 0.01 a_w , +/- 0.3°K
Communication	: SD card -> PC

LabSwift-aw

Fast, accurate, reliable

The **LabSwift-aw** instrument combines modern technology with measurement speed and high accuracy. Thanks to the Novasina electrolyte sensor the device is able to determine the a_w -value very accurately in products of all kinds. Furthermore it is robust, stable and maintenance-free.

The integrated large LC-Display eases the value reading. The ergonomic design and the optional Lithium-Ions long life battery allows a mobile measurement. For stationary use an external power supply is available. The air-tight measurement chamber (not temperature controlled) disposes of a spring-loaded measurement head. The temperature can be read at any time on the display. The new developed stability value settings enable an easy handling for optimal a_w measurements. The stability status is appears on the instrument's display. A data logging function by SD card permits a storage of all measurement data, including the protocols, which can be easily transferred to a PC or printer. A special software is available for a detailed analysis of these data.

The instrument is delivered with a robust plastic carrying case including accessories such as humidity standards, filters, ePW sample dishes etc..

Examples of samples, which can be measured with the **LabSwift-aw**:

- Bakery products of all kinds
- Meat and sausages, cheese
- dried food, fruit concentrates
- Pharmaceutical products
- Chemical products
- Cosmetics
- Drugs, natural remedies

Measurement device **LabSwift-aw**:

Dimensions	: 85x140x225 mm
Weight	: 1.2 kg
Power supply	: External supply and/or Lithium-Ions battery (optional) 1700 mAh

Operation ranges:

Temperature	: 5 ... 45 °C
a_w	: 0.03 ... 0.95 a_w

Humidity sensor:

Electrolyte measurement cell	
Type	: CM-2 incl. stored calibration values (11, 33, 58, 75, 90%RH)
Measurement range:	: 0.03... 1.00 a_w
Reproducibility	: +/- 0.003 a_w
Accuracy	: +/- 0.01 a_w (0.10...0.95 a_w at 25°C, all 5 points calibrated)

Temperature measurement:

Precision infrared surface sensor as well as NTC temperature sensor	
Measurement range:	: 5 ... 45°C
Reproducibility	: +/- 0.1° K
Accuracy	: +/- 0.15° K

Humidity standards

Salt tablets SAL-T:

Saturated pure salt solutions based on national standards are recommended:

see catalogue accessories



LabSwift-aw sets

LabSwift-aw set (without battery)



LabSwift-aw set (without battery)

260 0177 mit Euro-Stecker

260 0178 mit US-Stecker

LabSwift-aw set

The new LabSwift-aw is a precise and handy instrument for the aw-value measurement of foodstuff, pharmaceuticals and cosmetics. It is delivered with a plastic carrying case including accessories. A SD-card interface enables the transfer of all measurement data to a PC or printer. The device can be checked and adjusted at any time with the included SAL-T humidity standards.

LabSwift-aw set consisting of :

- Measurement device LabSwift-aw
 - Ext. power supply Euro or US
 - SD card
 - 3 SAL-T: 11, 58, 84% RH
 - 40 sample dishes ePW
 - Spare pre-filters white (5 pcs)
 - Tension ring
 - Operating instructions
 - Factory calibration certificate of the 6-point calibration
11-33-58-75-84-90%
- Weight : 3.000 kgs

LabSwift-aw Set (with battery)



LabSwift-aw set (with battery)

2600179 mit Euro-Stecker

2600180 mit US-Stecker

LabSwift-aw set & BAT

The new LabSwift-aw is a precise and handy instrument for the aw-value measurement of foodstuff, pharmaceuticals and cosmetics. The built in Lithium-Ions rechargeable battery allows mobile measurements. The set is delivered with a plastic carrying case including accessories. A SD-card interface enables the transfer of all measurement data to a PC or printer. The device can be checked and adjusted at any time with the included SAL-T humidity standards.

LabSwift-aw set consisting of :

- Measurement device LabSwift-aw
 - Ext. power supply Euro or US
 - Battery incl. electronics (built in)
 - SD card
 - 3 SAL-T: 11, 58, 84% RH
 - 40 sample dishes ePW
 - Spare pre-filters white (5 pcs)
 - Tension ring
 - Operating instructions
 - Factory calibration certificate of the 6-point calibration
11-33-58-75-84-90%
- Weight : 3.100 kgs



Accessories to LabSwift-aw



External power supply
[260 0181](#) with Euro-plug
[260 0182](#) with US-plug

External power supply Euro or US

Power supply and battery charger for LabSwift-aw.

Attention: Please use only the external power supply delivered by Novasina.

Power supply:

90-264 VAC / 50-60Hz

Output : 5 VDC / 10W

Plug : Stereo plug
(instrument side)
Diameter 4 mm

Weight : 130 g
to LabSwift-aw



[260 0187](#) Battery set

Battery set to LabSwift-aw

Lithium-Ions rechargeable battery & electronics

Optional battery set for mobile power supply of the LabSwift-aw. In continuous operation the LabSwift-aw runs >20 hours with this battery.

Attention: The assembly of the battery shall only be made by a qualified Novasina representative.

Battery set to LabSwift-aw:

Lithium-Ions rechargeable battery with electronics :

Battery with PCB
5VDC 1700 mAh

Weight : 50 g
to LabSwift-aw



[260 0188](#) PC software
Novalog MC (for LabSwift-aw)

PC software for LabSwift-aw

This optional Windows software allows the analysis and graphical display of the data stored on the SD-card.

Consisting of:

CD with Novalog MC software for Windows system software

Weight: 180g

to LabSwift -aw



[111 0601](#) ePW sample dishes

Sample dishes ePW

For LabSwift-aw

Box with 100 sample cups.

These cups are for all Novasina aw instruments. They are disposable, intended for a single use.

A box contains:

100 sample cups ePW

Material : Polypropylene

Dimensions : 40mm diameter
x 12mm depth

Weight : 440 g

to LabSwift-aw



[111 0930](#) -> SAL-T 11% RH
[111 0932](#) -> SAL-T 33% RH
[111 0934](#) -> SAL-T 53% RH
[260 0189](#) -> SAL-T 58% RH
[111 0936](#) -> SAL-T 75% RH
[111 9886](#) -> SAL-T 84% RH
[111 0938](#) -> SAL-T 90% RH

SAL-T salt tablets

Humidity standards based on saturated salt solutions in plastic tablets with humidity-permeable membranes. Each salt is delivered in an airtight can. SAL-T are available with the following humidity values (at 25°C):

11.3 %	colour	white	
32.8 %	colour	blue	
52.9 %	colour	green	(DG see general terms of sales)
57.6 %	colour	white	
75.3 %	colour	purple	
84.3 %	colour	white	
90.1 %	colour	white	(DG see general terms of sales)

Humidity values in the temperature range 15° 30°C:

11.3	.....	11.3%	rh
33.3	.....	32.4%	rh
55.9	.....	51.4%	rh
60.7	.....	56.0%	rh
75.6	.....	75.1%	rh
85.9	.....	83.6%	rh
90.9	.....	89.9%	rh

The precision corresponds to eg. the Greenspan Report 1977 typically +/- 0.3 % rh

Weight: 50 g each

to LabSwift-aw



- [111 1056](#) -> SAL-T/C 11% RH
- [111 1057](#) -> SAL-T/C 33% RH
- [111 1060](#) -> SAL-T/C 53% RH
- [260 0190](#) -> SAL-T/C 58% RH
- [111 1063](#) -> SAL-T/C 75% RH
- [260 0276](#) -> SAL-T/C 84% RH
- [111 1065](#) -> SAL-T/C 90% RH

Salt tablets SAL-T/C certified with European certificate

Humidity standards based on saturated salt solutions in plastic tablets with humidity-permeable membranes. Each salt is delivered in an airtight can. SAL-T are available with the following humidity values (at 25°C):

- 11.3 % colour white
- 32.8 % colour blue
- 52.9 % colour green (DG see general terms of sales)
- 57.6 % colour white
- 75.3 % colour purple
- 84.3 % colour white
- 90.1 % colour white (DG see general terms of sales)

Internationally accredited laboratory:



All Novasina humidity standards are also available with an internationally recognised certificate from an accredited European laboratory (UKAS England)
Weight: 50g each
to LabSwift-aw



[260 0191](#) Carrying case with 5 pcs SAL-T

Set of 5 SAL-T salt tablets

Humidity standards based on saturated salt solutions in plastic tablets with humidity-permeable membranes. Each salt is delivered in an airtight can. The set consists of a case containing one each of the following values (at 25°C):

- 11.3 % colour white
- 32.8 % colour blue
- 57.6 % colour white
- 75.3 % colour violet
- 84.3 % colour white

Case with 5 salt tablets
SAL-T for 11 ... 90%rh.

Humidity values in the temperature range 15° ... 30°C:

- 11.3 11.3% rh
- 33.3 32.4% rh
- 60.7 56.0% rh
- 75.6 75.1% rh
- 85.9 83.6% rh

The precision corresponds to the Greenspan Report 1977 typically +/- 0.3 % rh
Weight: 670 g



[see price list UKAS certificate](#)

Certification

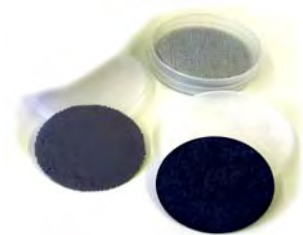
of an aw measurement instrument in an accredited European laboratory

A UKAS-laboratory will certify the instrument at two or more humidity values and at several different temperatures if required.

Accredited lab:



Certified instruments can be also supplied.



- [111 1001](#) -> eVC-21
- [111 1003](#) -> eVC-26
- [111 0995](#) -> eVALC
- [111 0997](#) -> eVMT-2
- [111 0999](#) -> eVMS-2

Cell protection filters

A number of filters are available to protect the measurement cell from abrasion or corrosive vapours.

-> Please consult the appropriate datasheets

Cell protection filters:

- [111 1001](#) -> eVC-21 (10 Stk)
- [111 1003](#) -> eVC-26 (10 Stk)
- [111 0995](#) -> eVALC (2 Stk)
- [111 0997](#) -> eVMT-2 (5 Stk)
- [111 0999](#) -> eVMS-2 (5 Stk)

Weight: 30 g

to LabSwift-aw



Spare parts to LabSwift-aw



260 0211	Gasket	: 1
260 0183	Pre-filter white	: 2
260 0210	Tension ring	: 3

Spare parts to measurement head LabSwift-aw

1 Gasket to LabSwift-aw

Recommendation: Seal ring should be replaced regularly and should be lubricated with silicone.

2 Pre-filter white, 5 pcs

3 Tension ring for filter fixation

Spare parts to LabSwift-aw:

- Gasket
- Pre-filter white
- Tension ring

Weight :	1	:	10 g
	2	:	10 g
	3	:	5 g

to LabSwift-aw



[260 0193](#) SD card

SD card to LabSwift-aw

SD-card for measurement data and protocol storage. The data can be analysed by spreadsheet programs or by the optional Novalog MC PC-software.

Consisting of:

- SD memory card
- Blister

Weight: 6g
to LabSwift -aw



[111 9983](#) CM-2 meas. cell

CM-2 measurement cell

Replaceable, calibrated measurement system with calibration point memory on the basis of the unique Novasina „Novalyte“ technology. The inbuilt active heating element avoids a condensation on the humidity sensing element.

Attention : *in no case touch the front area of the measurement cell. Neither with hands nor with any other object!*

Aw humidity measurement system CM-2:

Meas. range	: 0.03...1.00a _w
corresponds	: 3...100% RH
Operating temp.	: 5 ... 45°C
(inside LabSwift)	
Storage temp.	: 0...50°C
Storage humidity	: 10...80% RH
	not condensing
Meas. accuracy	: +/- 0.01 a _w
	+/- 1.0 % RH
(inside LabSwift at 25°C and fully calibrated)	
Reproducibility	: +/- 0.003a _w
No internal temp. measurement	
Weight	: ca. 2 g