



LabTouch-aw

The new laboratory instrument WITH TOUCH-SCREEN for water activity measurement in foodstuff, drugs and cosmetic products.

Measurement device with touch-screen combined with a semi-temperature-stabilised measurement chamber for consistent and reproducible measurement results (aw-value).

The **LabTouch-aw**, with its ergonomic design and the touch-screen, makes water activity measurements easier than ever before. Semi-temperature-control and active sample temperature measurements by an integrated infrared sensor, provide the highest possible reliability of measurements.

Measurement range aw : 0.06 ... 0.97 a_w , (non condensing)

Measurement range temp. : 5 ... 45°C

Sensor : with resistive-electrolytic measurement cell CM-2

Accuracy : +/- 0.005 a_w , +/- 0.15K

Communication : RS-232, USB
2x RS-485 for add. chambers
SD card -> PC (NovaLog MC)



LabTouch-aw

Fast, accurate, reliable, easy to operate

Experience the next generation of high quality water activity meters made by Novasina. Touch a new world, driven by the ease of use and fast menu access by a touch-screen combined with a semi-temperature-stabilised measurement chamber for consistent and reproducible measurement results (aw-value). The latest sensor and measurement technology coupled with re-useable humidity calibration standards provide a very economical solution to precision water activity measurements. Furthermore, the standards are an easy method for double-checking the instrument and sensor's high performance.

All measurement data, including the important protocols are stored on a **SD card** and can be transferred to a PC or printer. Special software is available for viewing results and analysis of the data. This assures confidence in readings for quality assurance and traceability of all measurement values.

The LabTouch-aw assures high accuracy and reproducibility, long-term stability, ease of use and an economical measurement system. Get ready for the new standard for aw-value measurement.

Typical samples:

- Lean meat, fresh meat
- Bakery products with filling
- Fruits, dried products, milk powder, spices
- Chocolate
- Cosmetics
- Petfood

Measurement device

LabTouch-aw:

Dimensions : 105 x 200 x 300mm (HxWxL)
Touch-screen : 55 x 95mm (color LCD)
Weight : 2.8 kg
Power supply : External supply

Operation ranges:

Temperature : 5 ... 45 °C
 a_w : 0.06 ... 0.97 a_w

Humidity sensor:

Electrolyte measurement cell
Type : CM-2 incl. stored calibration values
(11, 33, 58, 75,84, 90, 97%RH)

Temperature measurement:

Precision infrared surface sensor as well as NTC temperature sensor

Measurement chamber temp. control:

Accuracy : +/- 0.05° K
Chamber temperature must be always +2°C above environmental temperature.

Humidity standards

Salt tablets SAL-T:
Various re-usable salt solutions are available for instrument verification and calibration. For more information please consult the chapter accessories.



LabTouch-aw "BASIC"

single-channel



[260 0775](tel:2600775) LabTouch-aw
"BASIC"

LabTouch-aw "BASIC"

Bench-top laboratory measurement instrument with semi-temperature controlled measurement chamber and touch-screen.

Further functions:

- Stability parameter, time & date displayed on LCD screen
- Semi-temperature-stabilized measurement chamber
- Re-usable SAL-T humidity standards
- Fast and precise thanks to "Novalyte" technology
- Specific chemical sensor protection filters available
- Calibration data is stored on the sensor
- Data logging function with SD card
- Factory calibration at 7 aW-value points
- Checking, testing and adjusting possibilities with SAL-T humidity standards

LabTouch-aw includes:

Dimensions : 200 x 300x 95 mm
Weight : 2.800 kg

- Measurement device LabTouch
- External universal power supply
- SD card 2GB Memory
- 4 SAL-T: 33, 58, 75, 84% RH
- 40 sample dishes ePW
- Spare pre-filters white (5 pcs)
- Tension ring
- Operating instructions
- Factory certificate of 7-point calibration, 11-33-58-75-84-90-97%

LabTouch-aw "ADVANCED"

multi-channel system



The flexible **LabTouch-aw** system can be extended by max. 2 additional external **LabClick-aw** chambers. This offers a higher measurement capacity running 2 or 3 chambers contemporaneously. The calibration and system management is made by the **LabTouch-aw** "ADVANCED". The external chambers can be put in a climatic chamber if required.



[260 0776](tel:2600776) LabTouch-aw
"ADVANCED"

LabTouch-aw "ADVANCED"

Bench-top laboratory measurement instrument with semi-temperature controlled measurement chamber and touch-screen.

Further functions:

- Stability parameter, time & date displayed on LCD screen
- Semi-temperature-stabilized measurement chamber
- Re-usable SAL-T humidity standards
- Fast and precise thanks to "Novalyte" technology
- Specific chemical sensor protection filters available
- Calibration data is stored on the sensor
- Data logging function with SD card
- Factory calibration at 7 aW-value points
- Checking, testing and adjusting possibilities with SAL-T humidity standards
- Option to connect max. 2 external chambers LabClick-aw

LabTouch-aw includes:

Dimensions : 200 x 300x 95 mm
Weight : 2.800 kg

- Measurement device LabTouch
- External universal power supply
- SD card 2 GB Memory
- 4 SAL-T: 33, 58, 75, 84% RH
- 40 sample dishes ePW
- Spare pre-filters white (5 pcs)
- Tension ring
- Operating instructions
- Factory certificate of 7-point calibration, 11-33-58-75-84-90-97%
- Novalog MC software
- USB interface

LabClick-aw

External chamber with 2-line LCD display to be connected to a LabTouch-aw "ADVANCED" for extended measurement capacity. Operation and calibration is made by the main unit LabTouch-aw "ADVANCED".

Remark: The LabClick-aw has NO semi-temperature stabilized measurement chamber. Make sure the ambient temperature is stable during the measurement or place the instrument inside a climatic chamber.



[260 0838](tel:2600838) LabClick-aw

LabClick-aw includes:

Dimension s : 140 x 225x 80 mm
Weight : 1.600 kgs

- Measurement device LabClick-aw
 - External universal power supply
 - Connection cable 1.8 m
 - Operating instructions
 - Factory certificate of 6-point calibration, 11-33-58-75-84-90%
- Remark: pre-filters, SAL-T and sample dishes are not included*



Accessories for *LabTouch-aw*
for "BASIC" and "ADVANCED"



External power supply
260 0505 with universal plug

External power supply with universal plug insert for all socket standards

Power supply and battery charger (for *LabSwift-aw* with akku). The same power supply is ready for the *LabTouch-aw* and *LabClick-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
Cable length : approx. 1.5 m



260 0188 PC-SW *Novalog MC*

PC software *NovaLog MC*

This optional Windows software allows the analysis and graphical display of the measurement data.

Software suitable for :
Windows 98/2000/XP/Vista and Windows 7

Consisting of:

CD with **Novalog MC** software for Windows system
Weight : 180g



111 0601 ePW sample dishes

Sample dishes ePW

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



- 111 7440** -> SAL-T 4% RH
- 111 6453** -> SAL-T 6% RH
- 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
- 111 9887** -> SAL-T 97% RH

SAL-T salt tablets

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 following humidity values (at 25°C):

3.4 %	colour	white
6.4 %	colour	white
11.3 %	colour	white
32.8 %	colour	blue
52.9 %	colour	green
57.6 %	colour	white
75.3 %	colour	purple
84.3 %	colour	white
90.1 %	colour	white
97.3 %	colour	yellow

Important: please consult the operation manual of your instrument to see which points can be calibrated. Other SAL-T can be used for verification.

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

4.3	.....	3.0% rh
6.9	.....	6.2% rh
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
97.9	.....	97.0% rh

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

Weight : 50 g each



- 111 7000** -> SAL-T/C 6% RH
- 111 1056** -> SAL-T/C 11% RH
- 111 1057** -> SAL-T/C 33% RH
- 111 0060** -> 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
- 111 9981** -> SAL-T/C 97% 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):

6.4 %	colour	white	57.6 %	colour	white
11.3 %	colour	white	75.3 %	colour	purple
32.8 %	colour	blue	84.3 %	colour	white
52.9 %	colour	green	90.1 %	colour	white
			97.3 %	colour	yellow

Important: please consult the operation manual of your instrument to see which points can be calibrated. Other SAL-T can be used for verification.

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



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	purple
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

Cell protection filters

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

-> Please consult the Novasina filter data sheet for more details about the sample substances and the correct selection of the most suitable filter for your application.

Cell protection filters:

- 111 1001** -> eVC-21 (10 pcs)
- 111 1003** -> eVC-26 (10 pcs)
- 111 0995** -> eVALC (2 pcs)
- 111 0997** -> eVMT-2 (5 pcs)

Dimensions : 36 x 3mm

Weight : 30 g each filter



111 7212 -> Redox

Cell protection filter REDOX

Special protection filter against volatiles such as aromatic substances, ethanol, glycol etc. which can be present in a sample.

Important: this filter is subject to saturation, therefore it must be checked and replaced regularly.

-> Please consult the Novasina filter data sheet for more details about the sample substances and the correct selection of the most suitable filter for your application.

Cell protection filters:

- 111 7212** -> Redox (1 pc)

Dimension : 36 x 3mm

Weight : 60 g

Spare parts for *LabTouch-aw*



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

Spare parts to measurement head *LabTouch/Click-aw*

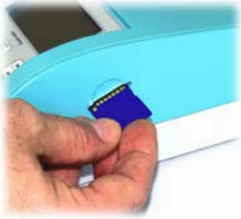
- 1 Gasket to *LabSwift/Touch/Chamber-aw*
Recommendation: Seal ring should be replaced and lubricated regularly.
- 2 Pre-filter white (only dustfilter), 5 pcs
- 3 Tension ring for filter fixation

Remark: these spare parts are the same as used for *LabStart-aw* and *LabSwift-aw*

Spare parts chamber:

- Gasket
- Pre-filter white
- Tension ring

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



260 0193 SD card

SD card

SD-card for measurement data and protocol storage. The data can be analysed by spreadsheet programs

Consisting of:

- SD memory card
- Blister

Memory : 2 GB

Weight : 6g



111 9983 CM-2 measurement 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 condensation on the humidity sensing element.

Attention: do not touch the top of the measurement cell. Neither by hand nor with any other object!

Measurement system CM-2:

Meas. range : 0.03...1.00a_w
Storage temp. : 0...50°C
Storage humidity : 10...80% RH

Fully calibrated at 9 calibration points

Weight : approx. 2 g

Upgrade kit for LabTouch-aw



260 0893 Firmware upgrade

Firmware upgrade „BASIC“-„ADVANCED“

Enables an upgrade from LabTouch-aw "BASIC" to "ADVANCED".

Additional functions :

- Activation of RS-232 and USB Interface for NovaLog MC connections
- Multi-Channnel functions for connection of max. 2 LabClick
- including visualization Software **NovaLog MC**

Upgrade for LabTouch-aw :

- Firmware upgrade for additional functions :

BASIC to ADVANCED level

- **NovaLog MC** visualisation and analysis software
- USB / RS-232 interface cable 1,8m.