



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	: 0.03 ... 1.00 _{aw} , (non condensing)
Measurement range temp.	: 5 ... 45°C
Sensor	: with resistive-electrolytic measurement cell CM-2
Accuracy	: +/- 0.005 a _w , +/- 0.15°K
Communication	: RS-232, USB and 2x RS-485 to add. Chambers and 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 : 0.03 ... 1.00 a_w

Humidity sensor:

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

Total accuracy : +/- 0.005 a_w
(0.10...0.97 a_w at 25°C, all points calibrated)

Temperature measurement:

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

Measurement chamber temp. control:

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

Humidity standards

Salt tablets SAL-T:

Saturated pure salt solutions based on national standards are recommended:

!! see catalogue accessories !!



LabTouch-aw "BASIC"

single-channel



260 0775 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 calibration certificate of the 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 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

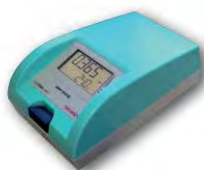
- Measurement device LabTouch
- External universal power supply
- SD card 2 GB Memory
- 4 SAL-T: 33, 58, 75, 84% RH
- 40 sample dishes ePW
- Spare pre-filters white (5 pcs)
- Tension ring
- Operating instructions
- Factory calibration certificate of the 7-point calibration
11-33-58-75-84-90-97%
- Novalog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



260 0838 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 calibration certificate of the 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/NT/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 0930 -> SAL-T 11% RH
111 0932 -> SAL-T 33% 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

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
57.6 %	colour	white
75.3 %	colour	purple
84.3 %	colour	white
90.1 %	colour	white (DG see general terms of sales)
97.3 %	colour	yellow

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
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 1056 -> SAL-T/C 11% RH
111 1057 -> SAL-T/C 33% 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):

11.3 %	colour	white
32.8 %	colour	blue
57.6 %	colour	white
75.3 %	colour	purple
84.3 %	colour	white
90.1 %	colour	white (DG see general terms of sales)
97.3 %	colour	yellow

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	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 pcs)
- 111 1003** -> eVC-26 (10 pcs)
- 111 0995** -> eVALC (2 pcs)

Dimensions : 36 x 3mm
Weight : 60 g



111 7212 -> Redox

Cell protection filter REDOX

Special filter against a lot of "corrosive" substances which can be into a meas. probe. This filter can protect activ the measurement cell without any negativ influence off he result.

Attention : Please change such filter regulary depends off he level of contamination

-> Please consult the appropriate datasheets

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 regularly and should be lubricated with silicone.

2 Pre-filter white (only dustfilter), 5 pcs

3 Tension ring for filter fixation

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 a condensation on the humidity sensing element.

Remark : *also suitable for LabTouch-aw*

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

AW humidity measurement cell/ 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 LabTouch at 25°C and fully calibrated)	
Reproducibility	: +/- 0.003a _w
No internal temp. measurement	
Weight	: ca. 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-Channel 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.