



# 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 ( $a_w$ -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  $a_w$**  : 0.03 ... 1.00 $a_w$ , (non condensing)

**Measurement range temp.** : 5 ... 45°C

**Sensor** : with resistive-electrolytic measurement cell CM-2

**Accuracy** : +/- 0.005  $a_w$ , +/- 0.15°C

**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 ( $a_w$ -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  $a_w$ -value measurement.

### Examples of typical samples which can be measured :

- Bakery products of all kinds
- Processed meat (dried products)
- Dried food, fruit concentrates
- Pasta products
- Chemical products
- Cosmetics
- Dairy products (dried products, milk powder etc.)
- Pet food

### 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
- (SAL-T humidity standards)

#### LabTouch-aw includes:

Dimension s : 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 also extended by max. 2 additional external **LabClick-aw** chambers. This offers a higher measurement capacity running 2 or 3 chambers contemporaneously. The calibration and calibration procedure is made by the main unit **LabTouch-aw** "ADVANCED". The external chambers are just plug & play and once connected to the main unit ready for operation.



**260 0776** LabTouch-aw  
"ADVANCED"

#### LabTouch-aw "ADVANCED"

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

Further functions:

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- 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
- (SAL-T humidity standards)
- Option to connect max. 2 external chambers LabClick-aw

#### LabTouch-aw includes:

Dimension s : 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%



**260 0838** LabClick-aw

#### 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.

#### 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: suitable spare pre-filters, SAL-T and sample dishes are included with the LabTouch-aw*



**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 data stored on the SD-card.

**Software runs under operation system :**  
Windows 98/NT/2000/XP/Vista und 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**

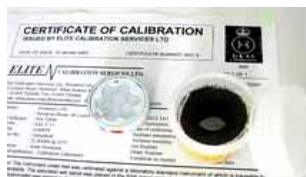
Humidity standards based on saturated salt solutions in plastic tablets with humidity-permeable membranes. Each salt is delivered in an airtight can. SAL-T are available with the following humidity values (at 25°C):

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 of the result.

Attention : Please change such filter regularly depends of the 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.

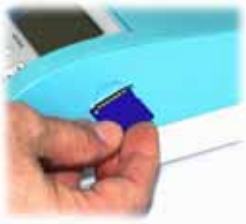
#### 2 Pre-filter white (only dustfilter), 5 pcs

#### 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...1.00 <sub>a<sub>w</sub></sub>
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 <sub>a<sub>w</sub></sub>
	+/- 1.0 % RH
(inside LabTouch at 25°C and fully calibrated)	
Reproducibility	: +/- 0.003 <sub>a<sub>w</sub></sub>
No internal temp. measurement	
Weight	: ca. 2 g