



General Catalogue AW

2014

Water activity measurement instruments

for



Foodstuff

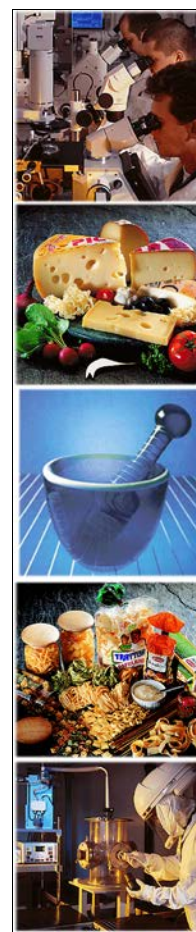
Food ingredients

Chemicals

Cosmetics

Pharmaceuticals

Materials



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LabStart-aw



Portable low cost precision instrument for water activity measurement (aW) in foodstuff and powder products

This compact low cost water activity measurement device is intended for a mobile measurement directly at-line and has been developed for standard applications and for users, who want to start with the water activity measurement.

Its accuracy can be checked at any time using re-usable saturated salt calibration standards.

The **LabStart-aw** is delivered including all necessary accessories.

Measurement range a_w	: 0.20 ... 0.80 _{a_w}
Measurement range temp.	: 15 ... 30°C
Sensor	: with resistive-electrolytic measurement cell CM-4
Accuracy	: +/- 0.03 a _w +/- 0.3K



LabStart-aw

Mobile, accurate, reliable and low cost

A good start is essential for every project and undertaking. That is why the LabStart-aw has been developed to introduce quality managers, production personnel and laboratory technicians to water activity measurement. This instrument is simple-to-operate, providing basic measurement functions, yet still having built-in automatic equilibrium detection and the well-proven resistive-electrolytic sensor technology as employed in all Novasina water activity meters. As standard, the LabStart-aw is supplied with one re-useable humidity calibration standard which provides a very economical solution to precision water activity measurements in one simple kit. Furthermore, the calibration standard is an easy method for verification of the instrument's high performance.

Optional chemical protection filters assist with high solvent – content samples, as well as accurate water activity detection with high repeatability.

Although the LabStart-aw is a starter instrument, it offers great value, is simple and easy-to-use.

Are you ready to begin your water activity measurements?

Typical samples:

- Pastries, bread and similar
- Cereals
- Spices
- Powders, dried samples
- Dried foodstuff in general

Measurement device

LabStart-aw:

Dimensions : 85x140x225 mm (HxWxL)
Weight : 1.2 kg
Power supply : External supply

Operation ranges:

Temperature : 15 ... 30 °C
a_w : 0.20 ... 0.80 a_w

Humidity sensor:

Electrolyte measurement cell

Type : **CM-4** incl. stored calibration values (33, 75%RH)

Temperature measurement:

Precision NTC temperature sensor

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.



LabSwift-aw



Portable, battery powered precision instrument for water activity measurement (aW) in foodstuff, pharmaceuticals, 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 quality parameter water activity (aW) directly at-line or in small laboratories.

Its accuracy can be checked at any time using re-usable saturated salt calibration standards.

The instrument is delivered incl. all accessories and carrying case.

Measurement range aW	: 0.11 ... 0.90a _w , (non condensing)
Measurement range temp.	: 5 ... 45°C
Sensor	: with resistive-electrolytic measurement cell CM-2
Accuracy	: +/- 0.01 a _w , +/- 0.15K
Communication	: SD card -> PC



LabSwift-aw

Mobile, 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..

Typical samples:

- Pastries, bread and similar
- Cereals
- Milk powder, spices
- Powders, dried samples
- Dried foodstuff in general

Measurement device LabSwift-aw:

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

Operation ranges:

Temperature	: 5 ... 45 °C
a _w	: 0.11 ... 0.90 a _w

Humidity sensor:

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

Temperature measurement:

Precision infrared surface sensor as well as NTC temperature sensor

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



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.



LabMaster - aw



A professional laboratory instrument for a very precise measurement of aw values (water activity) in foodstuff, drugs, cosmetics etc.. The temp. of the measurement chamber may be set in the range from 0°C to 50°C and kept consistently with an accuracy of +/-0.2K.

This instrument runs the most used aw measuring technology, the electrolytic resistive principle. The advantages are appreciated by all users around the world.

Measuring range aw	:	0.03 ... 1.00aw
Measurement chamber temperature	:	selectable 0 ... 50°C +/- 0.2K
Sensor type	:	electrolytic resistive measurement cell CM-2
Accuracy	:	+/- 0.003aw / +/- 0.2K at 25°C when the system is calibrated at 7 points
Communication	:	RS-232 interface, USB, PC Software " Novalog MC "



LabMASTER-aw

A synonym for high-precision, flexibility, versatility and measurement speed

Well-proven laboratory instrument for reproducible, precise aw measurements under accurately controlled temperature conditions for all types of foodstuffs, cosmetics as well as dry pharmaceutical materials. The **LabMASTER-aw** is the only instrument that enables measurements under precisely controlled chamber temperature conditions, selectable in the following range: 0°C to 50°C, with an accuracy of 0.2K.

The device and its sensor are very robust and have an excellent long-term stability. The Novasina electrolytic resistive sensor delivers essentially hysteresis-free measurements. The implemented user management systems allows a simple and intuitive operation. The system is available in 3 different versions "**BASIC**" (single user), "**STANDARD**" (multi user) and "**ADVANCED**" (multi user and multi channel). This improves considerably the cost efficiency.

The large, illuminated graphic LC display gives a clear overview. The menu software is simple and intuitive.

For a connection to a printer or a PC, a RS-232 or USB interface is build in the device. The visualisation PC-Software NOVALOG MC for Win9x/2000/NT/XP/Vista/Windows 7 is included in the delivery (except for the "BASIC" version). A recorder can be connected to the 0...10 volt analogue output.

Typical samples:

- All kind of bakery products
- Cheese, dairy products
- Chocolate
- Chemical substances
- Fresh meat and sausages
- Fruit concentrate (solid & liquid)
- Pet food
- Pharmaceutical products, cosmetics

Water activity instrument LabMASTER-aw :

Surface area: width 26, depth 44 cm
Weight : 9.8 kg
Mains supply : 90V...260V, 50/60Hz,
wide range power supply

Humidity sensor:

Electrolyte measurement cell CM-2
Range : 0.03...1.00aw
in the range of
0...50°C.
Accuracy : +/- 0.003aw at 25°C
Resolution : 0.001aw / 0.1°C

Temperature sensor:

Precise NTC resistor
Range : -20...80°C
Resolution : 0.1°C

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