



A professional laboratory instrument for precision measurements of aw values (water activity) in food and pharmaceutical products. The temperature of the measurement chamber may be set in the range from 0°C to 50°C and is kept consistently within +/-0.2K .

This instrument offers the most used aw measuring technology throughout the world. The advantages are appreciated by research and food production companies, as well as an increasing number of manufacturers of drugs and cosmetics.



| | | |
|--|---|--|
| Measuring range aw | : | 0.03 ... 1.00aw |
| Measurement chamber temperature | : | selectable 0 ... 50°C, +/- 0.2K |
| Sensor type | : | electrolyte resistive measurement cell CM-2 |
| Accuracy | : | +/- 0.003aw / 0.2°C at 25°C when the system is calibrated at min. 6 points Repeatability +/- 0.002aw |
| Communication | : | RS-232 interface, PC software |

LabMASTER-aw

High-precision, fast, flexible and easy!

A well-proven laboratory precision instrument for reproducible, precise aw measurements under accurately controlled temperature conditions for all types of food product, 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 a precision of 0.2K.

The device and its sensor are very robust and have an excellent long-term stability. The Novasina electrolyte 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 LCDisplay gives a clear overview. The menu software is simple and intuitive.

For a connection to a printer or a PC, an RS-232 or USB interface is built into the device. A PC-Software for Win9x/2000/NT/XP is included in the instrument delivery. A recorder can be connected to the 0...10 volt analogue output.

Examples of aw measurement samples:

- All forms of pastry and baked goods
- Meat and sausages
- Cheese
- Fruit concentrates
- Dried foodstuffs
- Cosmetics
- Drugs

LabMASTER-aw instrument:

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.
Repeatability : +/- 0.002aw
Accuracy : +/- 0.003aw at 25°C
when fully calibrated
Resolution : 0.001aw / 0.1°C

Temperature sensor:

Precise NTC resistor
Range : -20...80°C
Repeatability : +/- 0.1°C
Accuracy : +/- 0.3°C
Resolution : 0.1°C

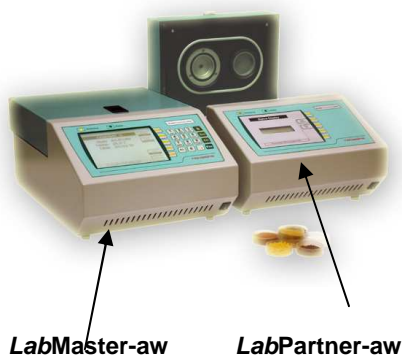
Humidity standards for calibration:

SAL-T salt tablets:
Saturated pure salt solutions, based on national standards. Novasina recommends the following calibration values:

6%, 11%, 33%, 53%, 75%, 90% and 97% rh

Multi Channel System

This professional laboratory instrument system allows you to run from **2** to a maximum of **10** aw (water activity) measurement devices simultaneously for measuring the aw values in foodstuff, drugs and cosmetics:



LabMaster-aw

LabPartner-aw

1 LabMASTER-aw advanced runs from **1 to 9 LabPARTNER-aw** units.

The temperature of each chamber can be set in the range from 0°C to 50°C.

This instrument version completes ideally the *LabMASTER-aw basic* and the *LabMASTER-aw standard* types. It allows an extension from a single channel up to a ten channel system, unit by unit, whenever there is a need for extend it.

| | |
|--|--|
| Measuring range aw | : 0.03 ... 1.00 aw |
| Measurement chamber temperature | : selectable 0 ... 50°C +/- 0.2K |
| Sensor type | : electrolyte resistive measurement cell CM-2 |
| Accuracy | : +/- 0.003aw, 0.2°C at 2°C when the system is calibrated at min. 6 points |
| Repeatability | : +/- 0.002aw |
| Communication per channel | : RS-232 or USB interface, PC-Software Novalog32 for single channel monitoring |

Multi Channel System

High-precision, fast, flexible and easy!

The *LabMASTER-aw* series is a laboratory instrument generation with the flexibility to add single channels, depending on your needs. Each channel provides reproducible and accurate aw value measurements in various types of samples such as food products, drugs, cosmetics etc.. A selectable, continuously controlled temperature between 0°C and 50°C (max. 25°C below room temperature) enables correct and reliable measurement results. The sample measuring chamber temperature is stabilized electronically within 0.2K.

This device and its sensors are very robust, excel in long-term stability characteristics and has been specifically developed for continuous operation. The unique properties of the Novasina electrolyte sensors with their lack of hysteresis through the complete system yield very exact and reproducible measurements.

All measured values on each channel are displayed on a large, clearly arranged illuminated LCDisplay. Each channel can be configured individually and optimised using a menu-driven procedure. The **LabMASTER-aw advanced** offers an RS-232 or USB interface for communication with a PC. The single channel software Novalog32 is included in the delivery.

Examples of aw measurement samples:

- All forms of pastry and baked goods
- Meat and sausages, cheeses
- Dried foodstuff, fruit concentrates
- Cosmetics, natural healing products
- Drugs (powders, tablets, ointments)

Multi Channel System:

LabMASTER-aw instrument:

Mains supply: 90V...260V, 50/60Hz,
wide range power supply
LabPartner is powered by
the *LabMaster*

LabMASTER / LabPARTNER-aw:

Surface area: width 26, depth 44 cm
Weight : 9.8 kg

Humidity sensor:

Electrolyte measurement cell CM-2
Range : 0.03...1.00aw
in the range of
0...50°C.
Repeatability : +/- 0.002aw
Accuracy : +/- 0.003aw at 25°C
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Resolution : 0.001aw / 0.1°C

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