



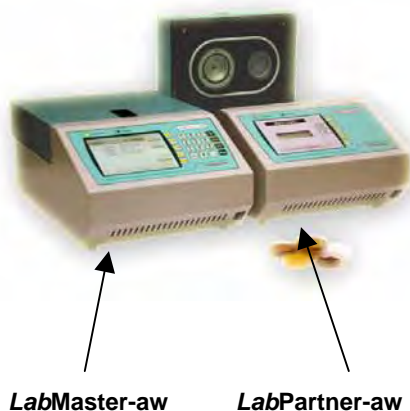
Multi Channel System

This professional laboratory instrument system allows 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:

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.

The "ADVANCED" instrument version completes ideally the LabMASTER-aw "BASIC" and "STANDARD". It allows an extension at any time and offer an outstanding cost efficiency.



LabMaster-aw

LabPartner-aw

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 Novalog MC for single channel monitoring

Multi Channel System

Highest flexibility and cost efficiency at any time

The LabMASTER-aw series is a new 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. This makes the system very flexible and versatile with the possibility of extension at any time.

LabMASTER/LabPARTNER-aw sensors are very robust, excel in long-term stability characteristics and have been specifically developed for continuous operation. The unique properties of the electrolytic resistive 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 LC-Display. Each channel can be configured individually and optimised using a menu-driven procedure. The LabMASTER-aw "ADVANCED" includes a RS-232 or USB interface for the communication with a PC. The single channel software Novalog MC is included in the delivery of this device.

Examples of aw measurement samples:

- All forms of pastry and baked goods
- Meat and sausages, cheese
- Dried foodstuff, fruit concentrates
- Cosmetics, natural healing products
- Pharmaceuticals (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
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



LabMASTER-aw



111 9971 LabMASTER-aw
"BASIC"

LabMASTER-aw "BASIC"

A robust laboratory instrument with highly-sensitive humidity and temperature sensors, temperature control of the measurement chamber in the range 0°C to 50°C. The instrument is ready to use as delivered, having been factory calibrated at 6 points. No password protection function! With USB/RS232.

No power supply cable is provided. The appropriate cable (for Switzerland, Europe, USA) should be ordered separately.

Instrument LabMASTER-aw "BASIC":

- Sensor CM-2
 - 5 humidity standards SAL-T: 11, 33, 75, 90, und 97% rh
 - 50 sample dishes ePW
 - Operating instructions
 - Record of the 6 point factory calibration 11-33-53-75-90-97%.
- Weight: 9.800 kgs



standard

111 9972 LabMASTER-aw
"STANDARD"

LabMASTER-aw "STANDARD"

A robust laboratory instrument with highly-sensitive humidity and temperature sensors, temperature control of the measurement chamber in the range 0°C to 50°C, USB port, RS232 interface and special Noalog MC PC software.

Passwords and administrator rights can be programmed.

The instrument is ready to use as delivered, having been factory calibrated at 6 points.

No power supply cable is provided. The appropriate cable (for Switzerland, Europe, USA) should be ordered separately.

Instrument LabMASTER-aw "STANDARD":

- Sensor CM-2
 - 5 humidity standards SAL-T: 11, 33, 75, 90, und 97% rh
 - 50 sample dishes ePW
 - RS232 interface, PC cable 1.8m D-Sub 9M/9F, USB port & cable
 - NoalogMC PC visual. software for Win9x/2000/NT/XP
 - Operating instructions
 - Record of the 6 point factory calibration 11-33-53-75-90-97%.
- Weight: 9.800 kgs

Multi Channel System



111 9973 LabMASTER-aw
"ADVANCED"

LabMASTER-aw "ADVANCED"

A robust laboratory instrument with highly-sensitive humidity and temperature sensors, temperature control of the measurement chamber in the range from 0°C to 50°C, USB port, RS232 interface and special NoalogMC PC software.

Passwords and administrator rights can be programmed.

Instrument offers all functions for controlling additional 1 to 9 LabPARTNER-aw units.

The instrument is ready to use as delivered, having been factory calibrated at 6 points.

No power supply cable is provided. The appropriate cable (for Switzerland, Europe, USA) should be ordered separately.

Instrument LabMASTER-aw "ADVANCED":

- Sensor CM-2
 - 5 humidity standards SAL-T: 11, 33, 75, 90, und 97% rh
 - 50 sample dishes ePW
 - RS232 interface, PC cable 1.8m D-Sub 9M/9F, USB port and cable
 - NoalogMC PC visual. software for Win9x/2000/NT/XP
 - Operating instructions
 - certificate of the 6 point factory calibration 11-33-53-75-90-97%.
- Weight: 9.800 kgs



111 9974 LabPARTNER-aw

Additional channels:

LabPARTNER-aw

A robust laboratory instrument with highly-sensitive humidity and temperature sensors, temperature control of the measurement chamber in the range from 0°C to 50°C.

The instrument is ready to use as delivered, having been factory calibrated at 6 points.

A power supply cable and a communication cable are provided to connect this instrument to the LabMASTER-aw or to another LabPARTNER-aw.

Instrument LabPARTNER-aw:

- Sensor CM-2
 - 50 sample dishes ePW
 - Operating instructions
 - Record of the 6 point factory calibration 11-33-53-75-90-97%.
- Weight: 9.800 kgs



Accessories for a *LabMASTER-aw*



- [110 8568](#) Power cable CH : 1
- [110 8304](#) EU/Schuko : 2
- [111 1748](#) Japan and USA : 3

Mains power cables

For connecting a *LabMASTER-aw*

Configured with the standard instrument connector at one end and the locally required power plug at the other.

Please order with the country code and plug type.

Power cable:

Cable length : 1.5 m

For local power systems with appropriate plugs.

Weight: 260 g

Accessories for *LabMASTER-aw* and *LabPARTNER-aw*



- [111 9979](#) SI Set Master

SI, sorption isotherm set

for the *LabMASTER-aw* and *LabPARTNER-aw*

This accessory, together with the Novasina humidity standards SAL-T, makes it possible to easily determine several points of a sorption isotherm. Incl. a plastic case for transportation.

In addition, a precision balance and an oven are required.

SI-Set MASTER/PARTNER complete with:

- 1 large cup insert
- 1 substance basket
- 1 weighing glass
- 1 pair of tongs



- [111 1001](#) -> eVC-21
- [111 1003](#) -> eVC-26
- [111 7212](#) -> Redox
- [111 0995](#) -> eVALC
- [111 0997](#) -> eVMT-2
- [111 0999](#) -> eVMS-2

Cell protection filters

for all *LabMASTER-aw* and *LabPARTNER-aw*.

A number of filters is available to protect the measurement cell from aggressive vapours or abrasion.

-> *Please consult the appropriate datasheets*

Filters for enBSK head:

- [111 1001](#) -> eVC-21 (10 pieces)
- [111 1003](#) -> eVC-26 (10 pieces)
- [111 7212](#) -> Redox (1 piece)
- [111 0995](#) -> eVALC (2 pieces)
- [111 0997](#) -> eVMT-2 (5 pieces)
- [111 0999](#) -> eVMS-2 (5 pieces)

Weight: 30 g



- [111 0601](#) ePW sample dishes

Sample dishes ePW

For all *LabMASTER-aw* and *LabPARTNER-aw*

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



- [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
- [111 0936](#) -> SAL-T 75% 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):

3.4 %	Colour	white
6.4 %	Colour	white
11.3 %	Colour	white
32.8 %	Colour	blue
52.9 %	Colour	green
75.3 %	Colour	purple
90.1 %	Colour	white
97.3 %	Colour	yellow

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

6.9	6.2% rh
11.3	11.3% rh
33.3	32.4% rh
55.9	51.4% rh
75.6	75.1% 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



- [111 9978](#) Case with 6 Stk SAL-T for *LabMaster* and *LabPartner-aw*

Set of 6 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
52.9 %	Colour	green
75.3 %	Colour	violet
90.1 %	Colour	white
97.3 %	Colour	yellow

Case with 6 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
55.9	51.4% rh
75.6	75.1% rh
90.9	89.9% rh
97.9	97.0% rF

The precision corresponds to the Greenspan Report 1977 typically +/- 0.3 % rh
Weight: 710 g



- [111 - - - -](#) -> SAL-T/C 4% rh
- [111 7000](#) -> SAL-T/C 6% rh
- [111 1056](#) -> SAL-T/C 11% rh
- [111 1057](#) -> SAL-T/C 33% rh
- [111 1060](#) -> SAL-T/C 53% rh
- [111 1063](#) -> SAL-T/C 75% 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):

3.4 %	Colour	white
6.4 %	Colour	white
11.3 %	Colour	white
32.8 %	Colour	blue
52.9 %	Colour	green
75.3 %	Colour	purple
90.1 %	Colour	white
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



[Prices see on the pricelist](#)

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 also be supplied.



Replacement parts for **LabMASTER-aw** and **LabPARTNER-aw**



111 9983 CM-2 measuring cell

CM-2 replacement cell

Humidity measurement cell without temperature sensor, with active saturation protection. The measurement cell can easily be exchanged by hand. The filter surface on the top of the cell should under no circumstances be touched with the hand or hard objects.

Advantage: *the instrument requires no recalibration after changing a cell: all relevant data are stored in the cell!*

Humidity cell CM-2:

Range : 0.03aw...1.00aw
(3...100% rh)
Op.temp.range : 0...50°C
Temperature : by a separate sensor
Repeatability : +/- 0.3 % rh
Accuracy : +/- 0.003aw when instrument fully calibrated
Weight: 1 g



112 0174 O-Ring : 1
112 0175 Metal mesh filter: 2
112 0176 Tension ring : 3

Replacement parts for measuring chamber

- 1 O-ring seal for the measurement chamber.
Recommendation: exchange the O-ring periodically.
- 2 Metal mesh filter.
- 3 Tension ring for clamping the filter.

Chamber replacement parts:

- O-ring seal Weight: 1 g
- Metal mesh filter Weight: 30 g
- Tension ring Weight: 10 g

Upgrade Kits for **LabMaster-aw**



111 9975 License

Upgrade License 1 "BASIC-STANDARD"

to upgrade a *LabMASTER-aw basic* to a *LabMASTER-aw standard*.
with functionality extension code, PC software NovalogMC, cable 1.8m D-Sub 9M/9F, and USB cable 1.8m.

License 1

Software code for activating the additional software function from
BASIC to STANDARD
- Single to multi user management system
- PC-Tool NovaLog MC Software



111 9976 License

Upgrade License 2 "STANDARD-ADVANCED"

to upgrade a *LabMASTER-aw standard* to a *LabMASTER-aw advanced*.
with functionality extension code to control up to 9 additional *LabPARTNER-aw* units.

License 2

Software code for activating the additional software function from
STANDARD to ADVANCED
- Single chamber to multi chamber system with *LabPartner-aw*.



112 0171 License

Upgrade License 3 "BASIC-ADVANCED"

to upgrade a *LabMASTER-aw basic* to a *LabMASTER-aw advanced*.
with PC software NovalogMC, cable 1.8m D-Sub 9M/9F, USB cable 1.8m, and with functionality extension code to control up to 9 additional *LabPARTNER-aw* units.

License 3

Software code for activating the additional software function from
BASIC to ADVANCED
- single to multi user management system
- PC-Tool NovaLog MC Software
- single to multi chamber system with *LabPartner-aw*.