



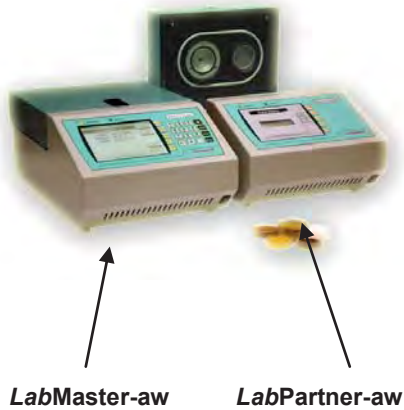
Multi-channel system with *LabPartner-aw*

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 25°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 (*LabPartner-aw*)

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.

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

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

Salt tablets SAL-T:

Saturated pure salt solutions based on national standards are recommended:

!! see catalogue accessories !!



Multi-Channel System



111 9973 LabMASTER-aw
“ADVANCED”

LabMASTER-aw “ADVANCED”

Robust laboratory precision measurement instrument with temperature controlled measurement chamber. With integrated pre-conditioning chamber.

Further functions:

- Stability parameter, time & date displayed on LCD screen
- Memory for the last 10 aW stable value for each data file
- Stability val time can be defined directly before measurement
- Setting of measurement alarm limits
- Calibration reminder function
- Graphic display of aW measurement curve on LCD screen

ADVANCED version: multi-measurement & multi-USER

Attention: no power cable included. Please order it separately.

Water activity instrument:

Ground surface: 26 x 44 cm (WxL)
Weight : 9.800 kgs

Include :

- Sensor CM-2
- 6 humidity standards SAL-T: 11, 33, 58, 75, 84 and 97% rh (incl. factory calibration certificate)
- 50 sample dishes ePW
- RS232 interface, PC cable 1.8m
- D-Sub 9M/9F, USB port & cable
- NovalogMC PC visual. software for Win9x/2000/NT/XP/Vista/Windows 7
- Operating instructions



111 9974 LabPARTNER-aw

Additional channels:

LabPARTNER-aw

A robust laboratory instrument with highly-sensitive humidity and temperature sensors, temperature controlled measurement chamber. With integrated pre-conditioning chamber.

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

Water activity instrument:

Ground surface: 26 x 44 cm (WxL)
Weight : 9.800 kgs

Include :

- Sensor CM-2
- 6 humidity standards SAL-T: 11, 33, 58, 75, 84 and 97% rh (incl. factory calibration certificate)
- 50 sample dishes ePW
- Operating instructions

Accessories for LabMASTER-aw & LabPartner-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 each



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 cell protection Against corrosive substances:

- eVC-21 (10 pieces)
- eVC-26 (10 pieces)
- Redox (1 piece)
- eVALC (2 pieces)
- eVMT-2 (5 pieces)
- eVMS-2 (5 pieces)

Weight : 30 g each filter



[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
- [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):

3.4 % colour	white	(DG see general terms of sales)
6.4 % colour	white	
11.3 % colour	white	
32.8 % colour	blue	
52.9 % colour	green	(DG see general terms of sales)
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:

4.3	3.0% rh
6.9	6.2% rh
11.3	11.3% rh
33.3	32.4% rh
55.9	51.4% 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



[252 5418](#) 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
57.6 % colour	white
75.3 % colour	purple
84.3 % colour	white
97.3 % colour	yellow

Case with 6 salt tablets

SAL-T for 11 ... 97%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
97.9	97.0% rh

The precision corresponds to the Greenspan Report 1977 typically +/- 0.3 % rh

Weight : 710 g case



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):

111 7000 -> SAL-T/C 6% rh	6.4 % colour	white	
111 1056 -> SAL-T/C 11% rh	11.3 % colour	white	
111 1057 -> SAL-T/C 33% rh	32.8 % colour	blue	
111 1060 -> SAL-T/C 53% rh	52.9 % colour	green	(DG see general terms of sales)
260 0190 -> SAL-T/C 58% rh	57.6 % colour	white	
111 1063 -> SAL-T/C 75% rh	75.3 % colour	purple	
260 0276 -> SAL-T/C 84% rh	84.3 % colour	white	
111 1065 -> SAL-T/C 90% rh	90.1 % colour	white	(DG see general terms of sales)
111 9981 -> SAL-T/C 97% rh	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



[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.

Spare parts for *LabMASTER-aw* & *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 data are stored in the cell memory.

Measurement cell CM-2:

Range	: 0.03aw...1.00aw (3...100% rh)
Op.temp.range	: 0...50°C
Storage temp.	: 0...50°C
Storage hum.	: 10...80% RH not condensing
Accuracy	: +/- 0.003aw
Accuracy	: +/- 0.3 % rh (in LabMaster when fully calibrated)
Reproducibility	: +/- 0.002a _w
Weight	: ca. 2 g



[112 0174](#) O-Ring : 1
[112 0175](#) Metal mesh filter: 2
[260 0210](#) 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 for *LabMaster* / *Partner-aw*:

- 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.

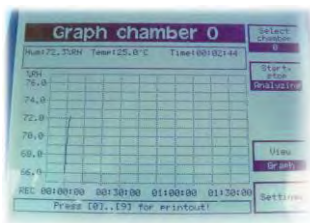
License 3

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*.

Software Update for *LabMaster-aw*



260 0275 Update package

Update software package for *LabMaster* only “STANDARD” & “ADVANCED” models

Software package including update code for
LabMaster-aw STANDARD & ADVANCED models.
Applicable for instruments sold before the year 2010
with serial no. : 05..... to 09.....

So the *LabMaster-aw* instrument can be updated to
the newest level and the user can benefit from the
following extended functions.

Additional functions:

- Stability parameter is displayed on instrument LCD screen flashing alternately
- Actual time and date is displayed on instrument LCD screen flashing alternately
- Memory of the last 10 aW stable values for each data file (provided that the data base is used actively)
- Stable value time can be set directly before performing the measurement (faster adaptation in case of sample change)
- Selectable upper and lower alarm limits for measurement
- Calibration reminder function
- Graphical display of aW measurement curve on LCD

Update software package: *LabMaster-aw* :

- Software package incl. update
activation code for extended
functions for

STANDARD

and

ADVANCED

models