

SAL-F

MANUAL



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What is SAL-F

Two different set-ups are sold by supplier to verify or to calibrate a water activity meter:

- Re-usable, saturated salt slurries
- Unsaturated, non-reusable salt solutions

Novasina's SAL-T standards are based on salt slurries and aside of reusability, they offer a shelf-life of 3-5 years, depending on the handling.

Despite of many advantages, there is one draw-back of the SAL-T standards: Process time. It takes approx. 40-45 minutes to get one point verificated or calibrated. As this is normally not an issue while using the instrument in QC labs, it becomes a major issue while using the water activity meter in production (at-line). There, verification and calibration speed is essential.

To address the need for standards which perform verification or calibration faster, new SAL-F unsaturated salt standards where developed.

Advantage: an aw-instrument can be verified or calibrated within a few minutes. Disadvantage: It is a disposable and can only be used once.

Unlike other water activity meter manufacturer, Novasina is dedicated to offer utmost flexibility to its users. Novasina now offers a choice to work with the saturated salt tablets (SAL-T) and/or with the new unsaturated SAL-F tubes. Whatever fits best for the current application and measurement requirements.

SAL-F SPECIFICATIONS

New unsaturated salt solution water activity standards in laminated tubes.

- Calibration/Verification time: approx. 7 minutes per standard
- Accuracy: 0.3 rH% which is +/-0.003aw
- Scope of supply:
 - Starter Kit: Necessary to start with SAL-F. It contains two aluminum cups, fleece disk dispenser (10x20pcs), tweezers, metal holder.
 - SAL-F Set 50: 50 tubes and fleece disks in a dispenser, including RFID Batch for standard recognition on the LabMaster-aw neo
 - Fleece disk dispenser: 10x20 units of fleece disks
- Compatible Systems:
 - LabMaster-aw neo with automatic standard recognition by RFID
 - LabTouch-aw, LabSwift-aw: Stability setting to 3 min
 - Labstart- aw: not possible



Humidity values	Name	Calibration	Verification
11 % rH	SAL-F 11	👍	👍
33 % rH	SAL-F 33	👍	👍
58 % rH	SAL-F 58	👍	👍
75 % rH	SAL-F 75	👍	👍
84 % rH	SAL-F 84	👍	👍
90 % rH	SAL-F 90	👍	👍
97 % rH	SAL-F 97	👍	👍

PREREQUISITES

To make use of verification and calibration with SAL-F, make sure the following prerequisites are met:

- LabMaster-aw neo with firmware V2.03 (to check for firmware version, go to "Main Menu" > „System Settings" > „System Info) or higher or LabTouch/LabSwift with correct stability time settings
- Starter kit ready with fleece disks and tweezers. Note: Additional fleece disks can be purchased at local distributors
- SAL-F tubes according to your requirements. SAL F are available in packages with 50 tubes each.

HOW TO USE SAL-F



STEP 1:

Place one fleece disk on top of the aluminum cup.

(The use of a tweezers is recommended, as it is easier to grab one fleece out of the fleece disk dispenser.)

STEP 2:

Open the tube and use the reverse side of the cover of the lid to pierce the aluminum protection.



STEP 3:

Pour all the liquid from the tube into the center of the aluminum cup.



STEP 4:

Place the aluminium cup in the instrument.

In case a LabMaster-aw neo is used, proceed with steps 5-7.

If any other device is used make sure that stability time is set to 3 min and proceed with calibration/verification process.

STEP 5:

Use the RFID batch which is scope of the SAL-F supply. Verify if the imprinted SAL-F matches the SAL-F value marked on the tube. Place the RFID batch over the RFID reader until a pop-up window about calibration and verification appears.

If an error message appears on the screen, an update to the last firmware version is mandatory.



STEP 6:

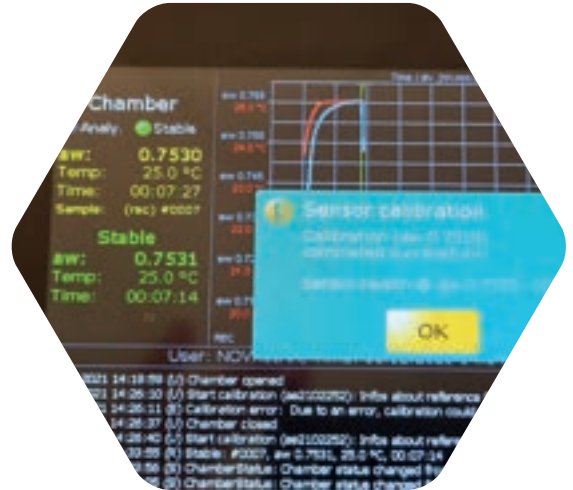
Close the lid of the LabMaster aw-neo and select if verification (verify) or calibration (calibrate) should be performed.

Note: verification button is only displayed if verification tolerance is set in calibration menu.

STEP 7:

Once verification and/or calibration is completed, remove the aluminum cup from the measurement chamber. Make sure you do not spill any liquid within the device chamber. Clean if spilled before you do any other testing.

Proceed with consecutive calibration points in the same way (start with STEP 1 again). Use second aluminum cup for the next to be measured salt standard and while the verification or calibration is performed, you can clean the previously used aluminum cup. Step 8 and following shows a correct and thorough aluminum cup cleaning



CLEANING



STEP 8:

Remove the fleece disk with a tweezers and dispose the fleece disk.

STEP 9:

Use a tissue to remove the remaining liquid from the aluminum cup.



STEP 10:

Use water to remove any salt solution which might be leftover. Dry the cup well before the next use.

For more information visit www.novasina.ch/sal-f