novasina

OPERATING INSTRUCTIONS

SAL-F

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Version 04

Safety Instructions

SAL-F calibration solutions contain lithium salts and may be harmful if swallowed and may cause skin and eye irritation. Avoid contact with skin and eyes. Wash hands after use.

For further information regarding hazards, protective measures, storage, handling and disposal, refer to the current Material Safety Data Sheet (MSDS/SDS)

What is SAL-F?

SALF is designed for users for whom time is critical, especially when frequent verification or calibration is required. It is particularly suitable for weekly verification or calibration routines to ensure reliable aw readings, maintain compliance, and support high-throughput environments with daily measurements.

This single-use solution, with clearly defined expiry dates, provides maximum measurement certainty and traceability. Verification and calibration intervals are typically defined by the user's SOPs.

SAL-F Specification

New unsaturated salt solution water activity standards in laminated tubes.

- Calibration/Verification time: approx 5-12min depending on concentration
- Accuracy: 0.3 rH% which is +/-0.003aw

Scope of supply:

- Aluminum dish
- SAL-F Set 50: 50 tubes, including RFID Batch for standard recognition on the LabMaster-aw neo

Compatible Sytems:

- 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
- Aluminum dish ready
- SAL-F tubes according to your requirements. SAL F are available in packages with 50 tubes each.

How To Use SAL-F?

Step 1:

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

Step 2:

Pour all the liquid from the tube into the alu dish. Make sure not to spill the liquid and that the surface area is as large as possible. To speed up the process, add a second tube.

Step 3:

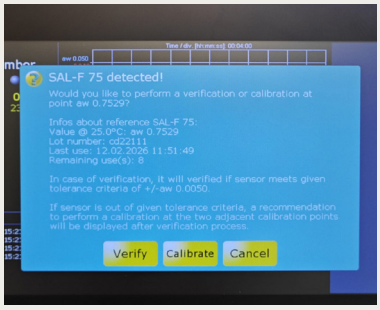
Place the alu dish in the instrument.

In case a LabMaster-aw neo is used, proceed with steps 4-6.
If any other device is used make sure that stability time is set to 3 min and proceed with calibration/verification process.

Step 4:

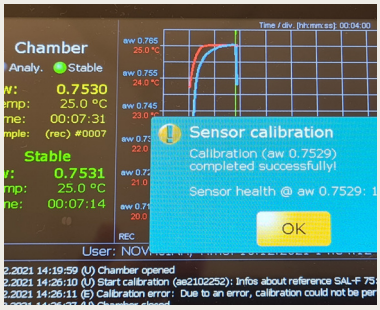
Use the RFID batch which is scope of the SAL-F supply. Verify if the imprinted SAL-F matches the SAL-F value marked on the tube. Place the RFID batch over the RFID reader until a pop-up window about calibration and verification appears. If an error message appears on the screen, an update to the last firmware version is mandatory.

Step 5:



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 6:



Once verification and/or calibration is completed, remove the alu dish from the measurement chamber. Make sure you don‘t 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 again the cleaned alu dish for the next to be measured salt standard and while the verification or calibration is performed.

For more information visit: www.novasina.ch/novasina-universe/

Get in touch and learn more about your specific application and its possibilities!

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