



LabSwift-aw

Portable precision instrument for measurement of the a_w -value (water activity) of foodstuff, pharmaceutical and chemical products and cosmetics

This compact and handy water activity measurement device with optional rechargeable batteries can be easily used for mobile measurement of the important a_w -value product quality parameter directly at-line. Its accuracy can be checked at any time using saturated salt standards. The **LabSwift-aw** is delivered including the accessories in a handy carrying case..

Measurement range a_w	: 0.03 ... 1.00 a_w , (not condensing)
Measurement range temp.	: 5 ... 45°C
Sensor	: with resistive-electrolytic measurement cell CM-2
Accuracy	: +/- 0.01 a_w , +/- 0.3°K
Communication	: SD card



LabSwift-aw

Fast, accurate, reliable

The **LabSwift-aw** instrument combines modern technology with measurement speed and high accuracy. Thanks to the Novasina electrolyte sensor the device is able to determine the a_w -value very accurately in products of all kinds. Furthermore it is robust, stable and maintenance-free.

The integrated large LC-Display eases the value reading. The ergonomic design and the optional Lithium-Ions long life battery allows a mobile measurement. For stationary use an external power supply is available. The air-tight measurement chamber (not temperature controlled) disposes of a spring-loaded measurement head. The temperature can be read at any time on the display. The new developed stability value settings enable an easy handling for optimal a_w measurements. The stability status is appears on the instrument's display. A data logging function by SD card permits a storage of all measurement data, including the protocols, which can be easily transferred to a PC or printer. A special software is available for a detailed analysis of these data.

The instrument is delivered with a robust plastic carrying case including accessories such as humidity standards, filters, ePW sample dishes etc..

Examples of samples, which can be measured with the **LabSwift-aw**:

- Bakery products of all kinds
- Meat and sausages, cheese
- dried food, fruit concentrates
- Pharmaceutical products
- Chemical products
- Cosmetics
- Drugs, natural remedies

Measurement device LabSwift-aw:

Dimensions	: 85x140x225 mm
Weight	: 1.2 kg
Power supply	: External supply and/or Lithium-Ions battery (optional) 1700 mAh

Operation ranges:

Temperature	: 5 ... 45 °C
a_w	: 0.03 ... 0.95 a_w

Humidity sensor:

Electrolyte measurement cell	
Type	: CM-2 incl. stored calibration values (11, 33, 58, 75, 90%RH)
Measurement range:	: 0.03... 1.00 a_w
Reproducibility	: +/- 0.003 a_w
Accuracy	: +/- 0.01 a_w (0.10...0.95 a_w at 25°C, all 5 points calibrated)

Temperature measurement:

Precision infrared surface sensor as well as NTC temperature sensor	
Measurement range:	: 5 ...45°C
Reproducibility	: +/- 0.1° K
Accuracy	: +/- 0.15° K

Humidity standards

Salt tablets SAL-T:

Saturated, pure salt solutions, traceable to National Standards at following recommended humidity values:

11%, 33%, 58%, 75% and 90% RH