



Entry Level Water Activity Meter

## LabStart-aW



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### LabStart-aW

- Low cost entry level instrument
- Water activity and ERH% precision instrument

# Selecting the correct product

				
Benefits	LabStart-aW	LabSwift-aW	LabTouch-aW	LabMaster-aW neo
Data storage	✗	✓	✓	✓
Chem. Protection filter	✓	✓	✓	✓
Heating control (required for samples above 0.9 aW)	✗	✗	✓	✓
Cooling	✗	✗	✗	✓
Price	£	££	£££	££££
Re-usable standards	✓	✓	✓	✓
Stability observation time (humidity)	✓	✓	✓	✓
Cfr 21 part 11 compliance	✗	✗	✗	✓
Application Suitability				
0.1 aW		✗	✓	✓
0.6 aW		✓	✓	✓
0.75 aW		✓	✓	✓
0.8 aW		✗	✓	✓
0.85 aW		✗	✓	✓
0.93 aW		✗	✗	✓
0.98 aW		✗	✗	✓

# The LabStart-aW

The LabStart-aW is an economical solution to precise, yet accurate water activity testing over the mid range only of 0.3 to 0.75 aW units.

The LabStart-aW excels with speed, high measurement accuracy, reproducibility and robustness.

Consequently this system sets new standards for the portable aW-value measurement and by far surpasses the precision and reliability of results provided by other portable aW / ERH% meters in the portable entry level meter market.

Supplied complete with calibration standard SAL-T 75% and sample cups.



## Benefits

- Fast and precise aW-measurement thanks to the worldwide unique "Novalyte" measurement technology CM4 sensor ✓
- High reliability and long term stability of CM4 sensor ✓
- Easy handling and user-friendly menu structure ✓
- Ergonomic housing design ✓
- Portable and long life battery powered option ✓
- Large LCD - Display ✓
- Factory calibration at 5 aW-value points : 11, 33, 58, 75, 84 % humidity ✓
- Checking, testing and adjusting capability (SAL-T humidity standard) ✓
- Widely maintenance-free / simple cleaning ✓
- Outstanding cost-performance ratio ✓
- Standardised sample volume ePW sample cup ✓



Ideal for bakery industry or chocolatiers for water activity / ERH% testing of long self-life products within the range 0.3 – 0.75 aW.

# Specifications

Measurements	aW value	Sample temperature
<b>Measuring principle</b>	Resistive - electrolytic	Surface Infrared- measurement + NTC
<b>Accuracy</b>	+/- 0.010 aW	+/- 0.3 °C
<b>Range</b>	0.30 ..... 0.75 aW (30 ...75% rh)	5....45 °C ( 41.....113°F )
<b>Resolution</b>	+/- 0.01 aW	+/- 0.1°C
<b>Accuracy of control</b>	No temperature control available	

Specifications	
<b>Mains supply</b>	5 VDC +/- 6% max power requirement: 4 W Lithium ion battery 1700 mAh with protection control & "auto load"
<b>Power supply:</b>	90....264 VAC, 50 / 60 Hz, output -> 5 VDC
<b>Display</b>	Reflective, high contrast LCD - display, dimension: 35x69 mm
<b>Operating</b>	3 multi-function keys including On / Off
<b>Housing</b>	Two-part PVC design housing, measurement chamber aluminium
<b>Weight</b>	1.2 kg
<b>Dimensions approx</b>	225 x 140 x 85 mm
<b>Protection class</b>	IP 30
<b>Measuring chamber</b>	Volume 21.1 ml standardised sample dishes Spring-loaded measurement head (diameter 40 x 12 mm)
<b>Special feature:</b>	Intelligent "Novalyte" measurement sensor CM-2 with cal point memory

## Affordable, portable, precision water activity / ERH% meter

- ✓ Portable, light-weight design supplied with sample cups and calibration standards
- ✓ Fast equilibrium times as low as 5 mins, powders, solids or liquids
- ✓ Self-adjusting calibration against re-usable salts 33 & 75%with UKAS certification
- ✓ No sample temperature control
- ✓ For use 0.3aW up to 0.75 aW (+/- 1% accuracy ) or 0-1.0 aW (+/- 3% accuracy)
- ✓ Calibration points at 33 & 75 % humidity standards
- ✓ UKAS certified calibration standard SAL-T 33 & 75 % included
- ✓ Fast stability quick setting 2 mins observation time
- ✓ Sensor protective filters EVC21 included for samples with non-aqueous volatiles