

# HYGROLAB



## Benefits

- The reliable AW Quick mode for quick results (typical 4 – 5 min)
- 4 probe inputs for simultaneous or asynchrony measurements
- Standalone laboratory and data logging device
- Auto. data sharing function and remote access
- FDA 21 CFR Part 11 compliant with optional validation document

## Applications

- Food industry
- Pharmaceutical industry
- Chemical industry
- Cosmetics industry



## DESCRIPTION

### Measurement

- AW Quick functions for quick results within 4 to 5 minutes
- High-precision AW measurement with an accuracy of  $\pm 0.008$  AW
- Data logging with alarm function
- Automatic generation and saving of a report after each measurement

### Connectivity

- Easy updates of the HygroLab over the internet
- Remote access by a normal browser with the PC or tablet
- Auto. data sharing function as PDF, CSV or XML
- Creation of external backup data

### Connections

- 4 x HC2-connectors for HC2A-AW and HC2A-S probes, which can measure simultaneity or asynchrony
- 2 x USB 2.0 and 2 x USB 3.0 (Type A) for connecting a mouse or an additional keyboard
- Ethernet (LAN) port for internet access
- Power supply port for the included AC adapter with 2 plugs for North America and Europa (incl. UK)

### Stable housing

- Use of robust materials such as aluminum, ABS and stainless steel
- Magnetic attachment in the back for the included pen



# PROBES

## Water activity probe (HC2A-AW)

- **Operating range:** -40...85 °C (-40...185 °F) / 0...100 %RH
- **Probe type:** Standard water activity probe



HC2A-AW

## Humidity probe (HC2A-S)

- **Operating range:** -50...100 °C (-50...212 °F) / 0...100 %RH
- **Probe type:** Standard probe for humidity & temperature



HC2A-S



# ACCESSORIES



## Sample holders and sample containers

The sample holders provide excellent sample containment and optimum temperature stability. The WP-40TH can be attached to a water bath for additional temperature control.

The disposable sample containers ensure the optimum sample volume is introduced into the sample holders. They prevent the sample holders from coming into direct contact with the product being tested, thereby preventing soiling or cross contamination. The sample containers also provide a convenient means of collecting and storing samples.

## Sample Holders

Order code	WP-14-S	WP-40	WP-40TH
			
<b>Type</b>	Sample holder		
<b>Use with</b>	PS-14	PS-14 / PS-40	
<b>Height</b>	14 mm	40 mm	
<b>Material</b>	V2A steel		Brass, nickel-plated
<b>Weight</b>	350 g	1250 g	1550 g

Order code	PS-14	PS-40
		
<b>Type</b>	Sample container	
<b>Use with</b>	WP-14-S / WP-40 / WP-40TH	WP-40 / WP-40TH
<b>Height</b>	14 mm	40 mm
<b>Packaging unit</b>	100 pc.	

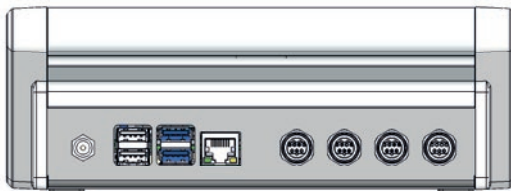
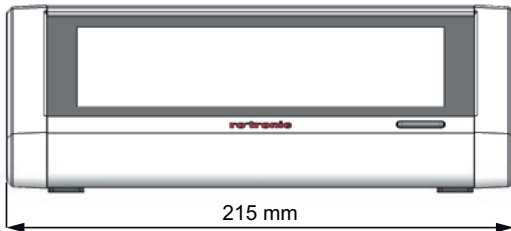
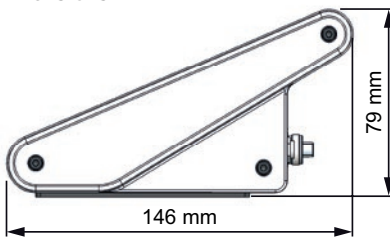
Order code	AW-KHS
	
<b>Use with</b>	WP-40 WP-40TH HC2A-AW
<b>Weight</b>	1100 g

## Clamp sealing mechanism

In the case of very dry or very moist samples additional mechanical sealing of the AW measurement probe and sample holder may be necessary to prevent external conditions influencing the sample.

# TECHNICAL INFORMATION

## Dimensions



General specifications	
Order code	HygroLab
Operating range	0...40 °C (32...104 °F) / 0...80 %RH
Parameters shown	AW, %RH, °C, °F, Dp
Dimensions	215×146×79 mm
Accuracy @ 23 °C ± 5 % (HC2A-AW)	± 0.008 AW / 0.8 %rh / ±0.1 K
Long-term stability (HC2A-AW)	< 1 %rh / year (Normal conditions)
AW Quick Mode	Yes
Display	7" LCD capacitive touch screen
Power button	Push button (with RGB light indicator)
Trend display	Yes
Clock	Real time clock provides a time stamp for every measurement
Storage capacity	16 GB
Power supply	12 VDC 2.0 A 24 W Max (AC adapter)
Power supply plugs	CH (EU & UK) / US
Probe connections	4 x HC2 station probe (HC2A-S or HC2A-AW)
USB (A) types	2 x 2.0 and 2 x 3.0
USB power supply	5 V / 500 mA
Measurement interval	15 s for AW measurement or 5 s for data logging
Start-up time	30 s
Software update	Over internet or USB
Protocols (values)	Date, time, AW / RH, °C / °F, Dp, AW setpoint, Serial No., etc.
HygroSoft compatible	No
Acoustic alarm	No
Calculations	Dew Point
Delivery package	<ul style="list-style-type: none"> <li>HygroLab</li> <li>Power adapter</li> <li>Pen</li> <li>Short instruction manual</li> </ul>
Housing / Mechanics	
Housing material	Aluminum, ABS, stainless steel
Weight	1.02 kg (2.25 lbs)
Conformity with standards	
CE conform	CE 2014/30/EU
FDA compliant	FDA 21 CFR Part 11 compliant with optional validation document (IQ/OQ)
Conformity Declaration	CE and UKCA
IP protection rating	IP30

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