Laboratory device for water activity measurements

HygroLab

Benefits

- The reliable AW Quick mode for quick results (typical 4 - 5 min)
- 4 probe inputs for simultaneous or asynchrony measurements
- Standalone laboratory measuring device with 7” touch screen
- Remote access with PC or Tablet
- Firmware updates over the internet

Applications

- Food Industry
- Pharmaceutical Industry
- Chemical Industry
- Cosmetics Industry

DESCRIPTION

Measurement
- AW Quick functions for quick results within 4 to 5 minutes
- Normal AW measurements, which takes from 30 to 60 minutes
- Automatic generation and saving of a report after each measurement

Internet access
- Easy updates of the HygroLab over the Internet
- Remote access by a normal browser with the PC or Tablet
- Sharing protocols via E-Mail or downloading it with the PC
- Optional possibility for additional WiFi stick

Connections
- 4 x HC2-connectors for HC2-AW and HC2A-S probes, which can measure simultaneity or asynchrony
- 2 x USB 2.0 and 2x 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

HygroLab

HC2-AW

WP-14-S

AC adapter

Pen

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PROBES

Water activity probe (HC2-AW)

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

Humidity probe (HC2A-S)

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

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
Type	Sample holder		
Use with	PS-14	PS-14 / PS-40	
Height	14 mm	40 mm	
Material	V2A steel		Brass, nickel-plated
Weight	350 g	1250 g	1550 g

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

Order code	AW-KHS
Use with	WP-40 WP-40TH
Weight	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.

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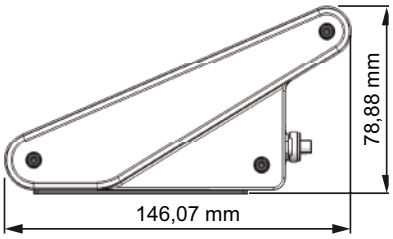
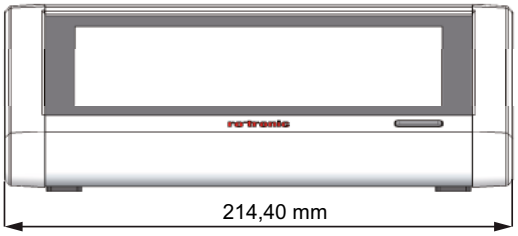
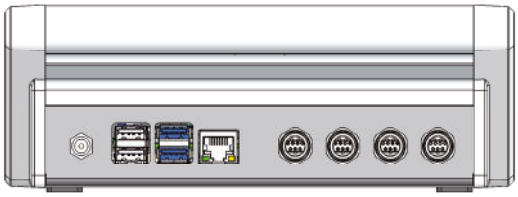
TECHNICAL INFORMATION

Dimensions







General specifications	
Order code	HygroLab
Operating range	0...40 °C (32...104 °F) / 0...80 %RH
Parameters shown	AW, %RH, °C, °F
Dimensions	215 ×146 ×79 mm
Accuracy @ 23 °C ± 5 % (HC2-AW)	± 0.008 aw / 0.8 %rh / ±0.1 K
Long-term stability (HC2-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	12VDC 2.0A 24W Max (AC adapter)
Power supply plugs	CH (EU & UK) / US
Probe connections	4 x HC2 station probe (HC2A-S or HC2-AW)
USB (A) types	2x 2.0 and 2x 3.0
USB power supply	5V / 500 mA
Measurement interval	15 s
Start-up time	30 s
Software update	Direct with the HygroLab over the internet
Protocols (values)	Date, time, AW / RH, °C / °F, AW Setpoint, Serial No., etc.
HW4 compatible	No
Acoustic alarm	No
Calculations	No psychrometric calculations available
Delivery package	• HygroLab • Power adapter • Pen • Short instruction manual • USB WiFi stick (optional)
Housing / Mechanics	
Housing material	Aluminum, ABS, stainless steel
Weight	1.02 kg (2.25 lbs)
Conformity with standards	
CE conform	CE 2014/30/EU
IP protection rating	IP30

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