



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



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. | |

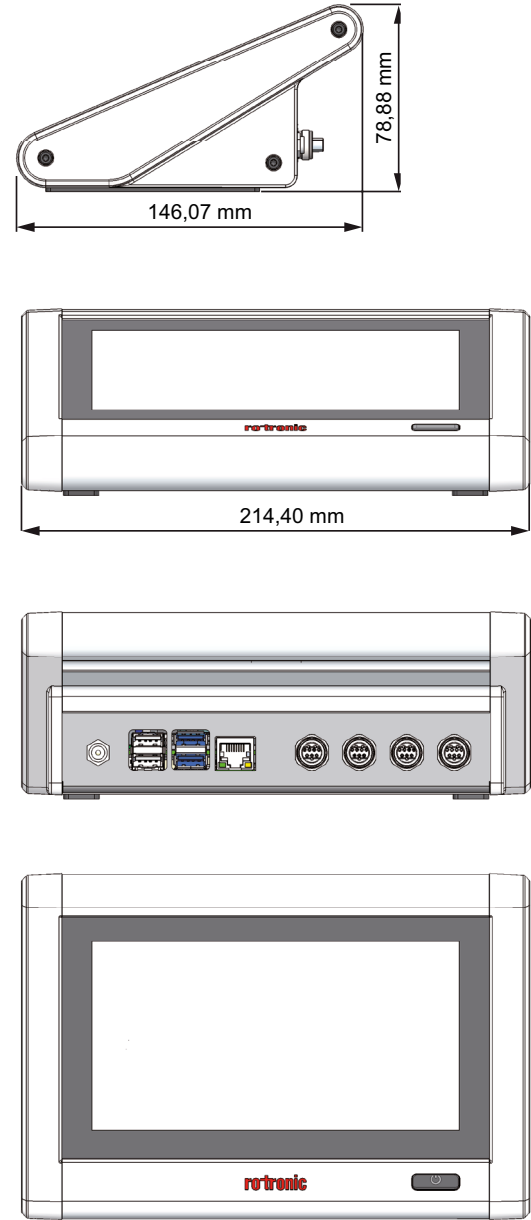
Clamp sealing mechanism

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.

| Order code | AW-KHS |
|------------|---|
| |  |
| Use with | WP-40 WP-40TH |
| Weight | 1100 g |

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 | <ul style="list-style-type: none">HygroLabPower adapterPenShort instruction manualUSB 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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