Instructions for use

HumidityControl eco

Item nr. 10896

GB

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1. Introduction

1.1 Display

88.88	= Numeric display
Hr	= Time in hours
Min	= The time in minutes
☾	= Night function
◀▶	= Humidity alarm
ON OFF	= Activation or deactivation of functions
%RH	= Relative humidity
ELOE	= CLOCK (displayed, when starting the real time programming)
HU	= Humidity (displayed, when starting the humidity programming)
n I9H	= Night (displayed, when starting the night off function programming)

1.2 Safety instructions
The HOBBY HumidityControl eco is designed exclusivly for use in enclosed rooms. All electronic components of the device must only be operated whilst they are free from defects. Should product be damaged, please return to your dealer for repair. Continued operation of the device may cause fatal injury from an electric shock. Ensure that the HOBBY HumidityControl eco can not come into contact with water. This technical products must only be operated as supplied. Electronic components must not be modified in any way. Housing must not be opened. If the product is damaged cease useage or shut down immediatly by pulling from mains.

1.3 Assembly advice
Position the sensors at a sufficient distance away from any sources of heat or humidity to avoid incorrect measurement and control values. The humidity sensor must not get wet or be immersed in water. Faults cause incorrect measurements or the sensor to fail.

2. Description of the Basic Functions

2.1 Function monitoring of external devices
The housing is fitted with LED. In operating mode this indicates the active control of the external device.

2.2 Safety shutdown during programming
When entering into programming mode, the slot is deactivated for safety reasons.

2.3 Safeguard function
To protect electronic components, a delay of 60 seconds is set between 2 switching states before the slot becomes active again.

2.4 Return function
The HOBBY HumidityControl eco automatically returns to operating mode when no button is pressed for a period of 90 seconds while in programming mode.

2.5 Malfunction displaying
If a sensor fault or short circuit is detected in humidity sensor, this is indicated by $E01$ on the display. For safety reasons, external devices (such as fogger or rain system) are deactivated in such an event.

3. Description of the Programmable Functions

In programming mode, the functions can be configured in the following sequence.

3.1 Clock programming
The factory presets the time at 1200. The time setting is not cleared during a reset however.

3.2 Humidity programming
The relative humidity is regulated with a precision of 1%. The humidity can be set within the range 10% – 95%.

3.3 Nocturnal humidity programming
It is possible to program a second time to simulate the humidity drop at night.

3.4 Humidity alarm programming
A visual alarm is triggered when the relative humidity exceeds or drops below the programmed desired value. An alarm window between +/- 1% and 20% can be set. The factory setting is the value 00 (no alarm).

> **ℹ Example:** Humidity 70%, alarm window +/- 5% means that an alarm is triggered below 65% and above 75%.

4. Quick Start Guide to Programming

Single mode (manufacturer presetting): Optionally either humidity or current time are displayed continuously.

Toggle mode: Humidity and current time are displayed alternately in a 3 second rhythm.

Changing between toggle and single mode: Press the ▼ button while in operation mode.

Switching to programming mode: A) Pressing the **MENU** button enters the main programming menu.

Moving within the menu structure: B) With the ▲ or ▼ buttons you can scroll through the menu items.

Modifying programming: C) Pressing **MENU** enables the modification of programmed values, the changeable value flashes. D) Increase or decrease

required values with the ▲ or ▼ button. E) Acknowledge by activating the **MENU** button.

Quitting the programming mode: F) After 90 seconds of inactivity you automatically access the operational mode. From the main level you can access the operational mode as well by holding down the **MENU** button for 3 seconds. All changed values will be saved.

Cancelation of programming: By pressing the ▲ and ▼ button simultaneously it is possible to quit the programming mode at any time without saving.

Manual activation / deactivation: The slot can be turned on and off manually. To activate hold ▲, then press **MENU**. Press these buttons a second time to deactivate. If you press a third time, program mode is reactivated.

> ℹ️ **Please note:** You will find a graphical quick start guide here: www.dohse-aquaristik.de/pdf/gebrauchs-anweisungen/10896_HumidityControl_eco_Kurzan-leitung_GB.pdf

5. Programming Instructions

To start the programming mode press **MENU** button

5.1 Clock programming

Entering the programming mode, **CLOC** flashes.
Press the **MENU** button, the hours digits **12** flashes
Use the ▲ and ▼ buttons to set the hours between 0 and 23.
Press the **MENU** button, the minutes digits **00** flashes.

Use the ▲ and ▼ buttons to set the minutes between 0 and 59. Acknowledge with the **MENU** button.

When finished, **CLOC** will flash again. Scroll to the next main menu item with the ▼ button, then press the **MENU** button.

ℹ️ **Please note:** Once the clock has been set, you can use ▲ or ▼ to directly access the other settings.

⚠️ **Attention:** The HOBBY HumidityControl eco does not automatically switch between summer time and winter time. This change must be entered manually.

5.2 Humidity programming

When flashing **HU**%RH was acknowledged with **MENU**, **70**%RH or your last set value flashes.

Use the ▲ and ▼ buttons to set the desired temperature value between 10 % and 95 %. Acknowledge with **MENU** button.

When finished, **HU**%RH will flash again. Scroll to the next main menu item with the ▼ button, then press the **MENU** button.

ℹ️ **Please note:** When no night time is programmed the humidity is maintained over 24 hours.

5.3 Nocturnal humidity programming

When $\textit{niqH}$ and **OFF** is flashing and you want to keep having the same temperature at day and night press ▼ button to go to the next setting.

When you wish to have a different night temperature, press **MENU**. $\textit{niqH}$ is displayed and **OFF** flashes. Use the ▲ and ▼ buttons switch the night function from **OFF** to **ON**

If **ON** was set and acknowledged with **MENU**, the presetting value 21: or your last programmed value flashes in the display (☾ is displayed on the left, **ON** at the right below site). Set the desired start of night time in hours with the ▲ or ▼ button, then acknowledge with **MENU**.

Presetting value 00 or your last programmed value flashes in the display (☾ is displayed on the left, **ON** at the right below site). Set the desired start of night time in minutes with the ▲ or ▼ button, then acknowledge with **MENU**.

Presetting value 09: or your last programmed value flashes in the display (☾ is displayed on the left, **OFF** at the right below site). Set the desired end of night time in hours with the ▲ or ▼ button, then acknowledge with **MENU**.

Presetting value 00 or your last programmed value flashes in the display. (☾ is displayed on the left, **OFF** at the right below site). Set the desired end of night time in minutes with the ▲ or ▼ button, then acknowledge with **MENU**.

Presetting humidity 85%RH or your last programmed value flashes in the display. Set the desired night humidity with the ▲ or ▼ button, then acknowledge with **MENU**.

🛈 **Please note:** When the night beginning time is reached the display shows the measured humdity and ☾ left below.

When finished, 𝘯 𝘪9𝘩 ON will flash. Scroll to the next main menu item with the ▼ button, then press the MENU button.

ℹ️ **Please note:** In the same manner you can change from ON to OFF as well.

5.4 Humidity alarm setting

When flashing 𝘏𝘜 and ◀▶ was acknowledged with MENU, ◀▶ 00 flashes.

Use the ▲ and ▼ buttons to set the +/- alarm between 1 % and 20 %. Acknowledge with MENU button.

ℹ️ **Advice:** 00 means that no alarm is set.

When finished, 𝘏𝘜 and ◀▶ will flash again. To finish programming, press and hold MENU for 3 seconds until the display returns to operating mode.

6. Reset

Should your HOBBY HumidityControl eco not function correctly, please perform a reset:

1. Unplug from mains
2. Plug the mains plug back in while keeping the **MENU** button pressed
3. Release the **MENU** button

⚠️ **Attention:** All programmed settings, except those for the clock, are lost. The HOBBY HumidityControl eco will regulate with factory's presettings.

7. Factory Presetting

After the event of a power failure, the HOBBY HumidityControl eco starts with the factory presetting again.

Clock setting:	12:00
Single / toggle mode:	Single mode
Humidity:	70 %
Night humidity:	85 %
Humdity Alarm:	Off

8. Source of Fault

In the case of a problem, first reset to the factory settings. If this does not solve the problem, please search for the fault in the following table:

Error	Possible cause	Solution
E01 is displayed	sensor fault or short circuit in the humidity sensor	repair required

In the event of a warranty or repair issue, please please return to where purchased.

9. Technical Specifications

Operating voltage:	230 V, 50 Hz
Load capacity:	Max. 2,000 W (ohmic load)
Humidity display range:	10 % – 95 %
Humidity control range:	10 % – 95 %
Humidity alarm range:	1 % – 20 %
	(00 means 'no alarm')
Humidity display and control accuracy:	1 %
Sensor cable length:	3 m

10. EC Declaration of Conformity

The manufacturer declares that the devices comply with the requirements of the relevant EMC and LVD standards and are therefore in conformity with EC directives 2004/108/EC and 2006/95/EC.

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