

Breeding Control

Aviary breeding controller — progressive dawn/dusk lighting, temperature, humidity and seasonal cycles. This guide covers both the V1 (standalone) and V2 (WiFi) versions.

1

The unit

Three elements on the front panel: the screen, the control knob, and the alarm indicator.



- **LCD screen** — shows the time, temperature/humidity, output states, and scrolls through scheduled information.
- **Knob (rotary encoder)** — turn it to navigate/adjust a value, and press it like a button to confirm or open the menu.
- **Alarm LED** — blinks red when there is a prolonged issue (see the [dedicated section](#)).

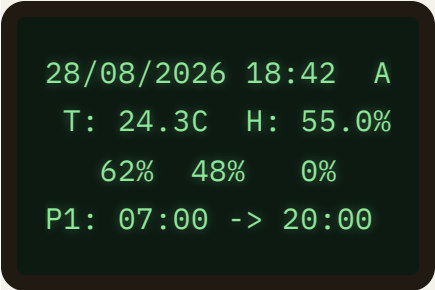
First startup

Plug in the power supply. The screen turns on and briefly shows the device name, then switches to the home screen.

 On first startup, the outputs are set to default schedules. Take a few minutes to adjust them from the [menu](#) before leaving the unit running unattended.

Reading the home screen

Four lines, always in the same order:



```
28/08/2026 18:42  A
T: 24.3C  H: 55.0%
62%  48%  0%
P1: 07:00 -> 20:00
```

Example: Automatic mode, output 1 at 62%, output 2 at 48%, output 3 off.

- **Line 1** — date, time, and the active mode letter: **A** Automatic, **M** Manual, **C** Seasonal cycles.
- **Line 2** — real-time temperature and humidity readings.
- **Line 3** — power percentage of each lighting output (S1, S2, S3).
- **Line 4** — automatically scrolls through: scheduled times (P1/P2/P3), heating/dehumidification relay status, current season (if seasonal cycles are active), and the IP address (V2, WiFi).

 After a period of inactivity, the backlight turns off to save the screen — the display itself stays active. Press the knob to turn it back on.

Controls

Everything is operated with the knob: turn it, or hold it down for a shorter or longer time.

Rotation

Navigates a menu, or adjusts a value (time, threshold, percentage) depending on the screen shown.

Press duration

< 1 s

Short: confirm / select

1 – 2 s

Medium: switch output (Manual mode)

2 – 5 s

Long: open the settings menu

A press of **5 seconds or more** switches to the next mode (Auto → Manual → Cycles → Auto).



Inside a settings screen, a long press cancels without saving — useful for backing out without accidentally changing a value.

The 3 modes

A 5-second press on the knob cycles through the three modes.

A

Automatic

Each output follows its own dawn/dusk schedule set in the menu. Heating and humidity regulate themselves according to the thresholds.

M

Manual

You control an output's power directly with the knob. Medium press (1-2s) to switch output, then turn to adjust.

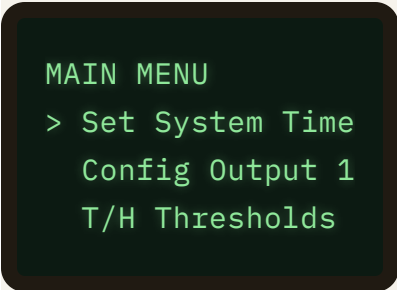
C

Seasonal cycles

Lighting duration automatically evolves through the year (preparation, breeding, rest...).

Settings menu

Press for 2 to 5 seconds to open it. Turn to navigate, short press to enter an option.



```
MAIN MENU
> Set System Time
  Config Output 1
  T/H Thresholds
```

- | | |
|---|---|
| 1 | Set system time
Date and time of the internal clock |
| 2 | Config Output 1 / 2 / 3
Start time, end time, transition duration (dawn/dusk) |
| 3 | T/H Thresholds
Min/max temperature and humidity that trigger heating and dehumidification |
| 4 | Transition config
Duration, smooth or linear curve, progress display |
| 5 | Seasonal cycles
Enable/disable and adjust the 4 breeding seasons |
| 6 | Back
Exits the menu and saves |

In each settings screen: turn to change the displayed value, short press to move to the next step. On the last step, the configuration is saved automatically.

WiFi connection (V2 only)

The V1 has no WiFi — skip ahead to the [next section](#) if you have a V1.

1. On first startup (or if no network is saved), the unit creates its own access point:

StationAviaire-Setup , password aviaire2026 .

2. Connect your phone or computer to this WiFi network.

3. Open a browser at 192.168.4.1 .

4. In the WiFi tab of the page, enter the name and password of your usual network, then confirm.

5. The unit reconnects to your network. Line 4 of the home screen then shows WiFi IP:192.168.x.x — this is the address to use in the Nidus app.



If the WiFi connection is lost, the unit automatically retries, then after 3 failures recreates its backup access point — start again at step 2 to reconfigure if needed.

Pairing with the Nidus app

From the Controller tab of the app, enter the IP address shown on the unit's screen.

1. Make sure your phone is on the **same WiFi network** as the unit.
2. Open Nidus → Controller tab.
3. Enter the IP address (e.g. 192.168.1.42) shown on line 4 of the unit's screen.
4. Tap Connect — mode, temperature, humidity and outputs are displayed live.

Alarm LED

The red indicator blinks when something needs your attention.

- **Temperature or humidity out of range for more than 15 minutes** — despite heating/dehumidification running, the reading isn't returning to the set range.
- **Repeated temperature/humidity sensor failure** — check the sensor wiring.

The indicator turns off automatically once the situation returns to normal. On the V2, an alert is also sent to the Nidus app if the unit is connected to WiFi.

Quick troubleshooting

SYMPTOM	WHAT TO CHECK
Screen is off	Backlight in standby: press the knob. If still nothing, check the power supply.
Temperature/humidity shows - - . -	Sensor unplugged or poorly connected — check the wiring.
The Nidus app won't connect	Phone and unit must be on the same WiFi network. Double-check the IP shown on screen (it can change).
The unit recreated "StationAviaire-Setup"	It lost the connection to your network — reconfigure WiFi (section 7).
Alarm LED is blinking	See the Alarm LED section above.
An output stays off in Automatic mode	Check its schedule in Menu → Config Output.

