Procon Grumbach

USER MANUAL
INCUBATORS CTD7

Procon Grumbach

INCUBATION SOLUTIONS

20. Mai 2026

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Welcome

Dear Customer,

Thank you for choosing a ProCon-Grumbach incubator. Please observe the following instructions to ensure a successful incubation process. Read this manual completely and carefully before using the incubator for the first time

Safety Instructions

We accept no liability for damage caused by failure to follow these instructions or by improper handling. In such cases, all warranty claims become void.
Read this manual completely before using the incubator for the first time.
For safety reasons, any unauthorized modifications to the device or to accessories intended for its operation are strictly prohibited.
Responsibility for the evaluation of measured values and for any actions resulting from them lies solely with the user.
No liability or warranty is accepted for the accuracy of the data provided. Under no circumstances shall liability be accepted for damages resulting from reliance on these results.

Important:
Always disconnect the incubator from the power supply by unplugging it before carrying out cleaning or maintenance work.

For models with filters:
Please inspect and clean the filters every eight days.
When raising young birds with developing feathers, dust accumulation is particularly high therefore, clean more frequently.

Incubation room

The operating environment plays a crucial role in incubation performance.
External factors such as ambient temperature, humidity, and electrical stability influence operation.
Install the incubator in a room free from vibrations, for example away from vehicles or machinery.
A basement room is ideal, as it generally provides stable temperature and humidity conditions.
The ambient temperature should be between 18–20 °C (60–65 °F) and must not exceed 25 °C.
Hygiene is essential. Bacteria, viruses, and fungi can easily enter the incubator via shoes or surfaces.

To prevent contamination:

- Disinfect the floor at least once per week.
- Always keep the exterior surfaces of the incubator and the surrounding area clean.

First Steps

Before commissioning the incubator, familiarize yourself thoroughly with all components and controls. The incubator is designed for operation with a properly grounded 230 V safety socket in accordance with applicable regulations.

Optionally, a separate 110 V version is available for operation in the USA and other countries with a 110 V power supply.

Checklist Before Commissioning

Before placing eggs into the incubator, ensure that all environmental and device conditions meet the necessary operating requirements. Upon delivery, carefully inspect your incubator for any visible damage or irregularities. Despite careful packaging, transport damage may occur. Before starting the incubation process, **perform a 2–3-day test** run without eggs to verify that all systems are functioning correctly and that temperature and humidity remain stable.

Environmental Conditions

Ensure that the following parameters remain within reliable operating limits:

- The temperature range is suitable for incubation
- The temperature remains stable and constant.
- The humidity level is within the recommended range.
- Noise levels are minimal to avoid stress or disturbances

Incubator Inspection

Before starting incubation, please check the following points

Alignment:
The incubator must stand level on a stable surface.

Measuring instruments:
Check whether thermometers and other sensors are correctly calibrated and functioning properly

Controls:
Ensure that all adjustment and operating controls function properly.

Test Run:
Carry out a test run to ensure correct operation

Water Qualität:
Only **boiled, sterilized water** may be used for humidity control.

System Performance:
Check that all mechanical and electrical components operate correctly and without unusual noises.

Changing Parameters

All values adjustable in the menu must be confirmed directly on the respective page.

Settings only become active after confirmation and may take effect with a short delay. Unless otherwise specified, all values within a menu item refer to **a 24-hour period.**

Important Notice!

Check the air filters at least every eight (8) days and clean or replace them as necessary.

When housing young animals with developing feathers, dust levels increase significantly; therefore, clean more frequently to ensure optimal air quality and performance.

The accuracy and validity of all measurement results, as well as any conclusions or actions derived from them, are solely the responsibility of the user.

No liability or warranty is accepted for the accuracy or completeness of the data provided.

The manufacturer accepts no liability for damages resulting from the use or misinterpretation of the measured results

Equipment Information

Safety Thermostat

Each incubator is equipped with a safety thermostat to prevent overheating. The thermostat can be adjusted using a small screwdriver. Since the thermostat is factory set, we recommend making changes only in the event of a malfunction.

Adjustment Ratio:

1/10 turn corresponds to approximately 1 °C.

Direction of Rotation:

- Turn clockwise → increases the shut-off temperature
- Turn counterclockwise → decreases the shut-off temperature

When the thermostat reaches the shut-off temperature, this is indicated by:

- an audible click, and
- the shutdown of the temperature and humidity control system

Attention:

Even a minimal adjustment causes a significant change in the shut-off point. Therefore, adjust very carefully.

To determine the correct shut-off value, slowly increase the incubator temperature using the thermostat control.

The safety thermostat should be set approximately 1 °C higher than the incubation temperature, since its sensor is located near the heating element and therefore measures a slightly higher temperature than inside the incubation chambe

Factory Settings:

39°C for incubators and brooding units.

35°C for reptile incubators.

Tank Flap

The tank flap is used to regulate humidity when the water tank is filled. A mechanism behind the control knob opens or closes the filling ducts

- Three o'clock position: open

Required when the automatic humidity control is active and humid air flows from the tank into the incubation chamber.

- Six o'clock position: closed

Seals the tank and prevents excess moisture from entering. In this position, humidity control should be deactivated.

Egg Turning

Each incubator is equipped **with trays featuring perforated**, coated metal bases.

The eggs should be placed on the **rollers with the pointed end facing the blunt end** — this prevents rolling in only one direction and helps stabilize their position

- Load the trays from the inside outward to allow proper air circulation.
- Store the eggs horizontally during incubation.
- A slightly angled position is acceptable and may increase capacity

Incubation Process

Placing the Eggs

After a **successful 2–3 days test run**, the eggs may be placed into the incubator.

The roller turning system can be adjusted to accommodate different egg sizes.

Each egg should rest horizontally on **two rollers**, with the blunt ends facing each other to prevent stacking

Incubation Temperature

The recommended incubation temperature varies depending on the species. Reference values can be found in the Incubation Recommendations section.

During the last 3 days before hatching, the temperature should be reduced by 0.5–1 °C.

Hatching Process

If incubation has proceeded successfully, prepare for hatching as follows:

- If using a separate hatcher → transfer the eggs.
- If hatching in the same incubator → adjust temperature and humidity accordingly.
- Remove the roller trays and place the eggs on the perforated hatching floor or in hatching trays

During the last 3 days before hatching, the temperature should be reduced by 0.5 to 1 °C. For some waterfowl species, the outer fat layer of the eggs may be carefully removed to improve oxygen exchange. Depending on breeding practices, this is done either by gentle brushing or by special treatment procedures using highly diluted solutions. Such procedures should only be carried out by experienced users.

Important: Do not open the incubator unnecessarily until all chicks have completely hatched.

Cleaning and Disinfection

Always disconnect the device from the power supply before cleaning the incubator.

- Thoroughly wipe the interior with a damp cloth.
- Clean wire floors and rollers or turning frames with mild soapy water; rinse thoroughly.
- For disinfection, we recommend a mild cleaning agent, e.g. F10.
- After cleaning, heat up and disinfect the incubator

Before placing the Eggs:

Clean the eggs using a recommended disinfectant and ensure adequate ventilation afterward.

At the End of the Season

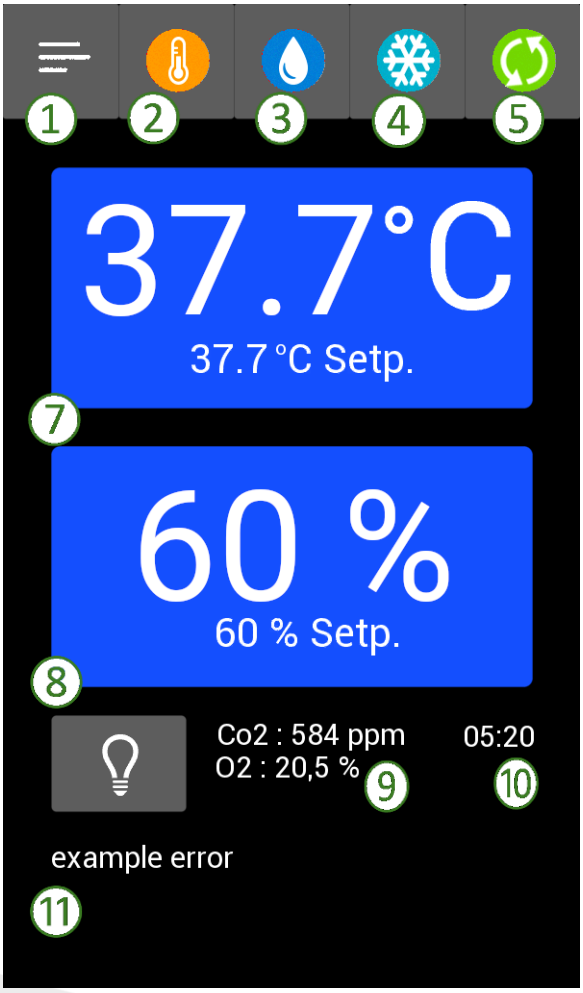
- Thoroughly clean the incubator.
- Empty the tank.
- Leave the door open so that residual moisture can escape.
- Replace the filters and filter paper.

Overview

1. Touchscreen
2. Main switch
3. Filler and drain ports
4. Tank Door
5. Fresh air damper
6. Inserts
7. Safetythermostat

User Manual

Home

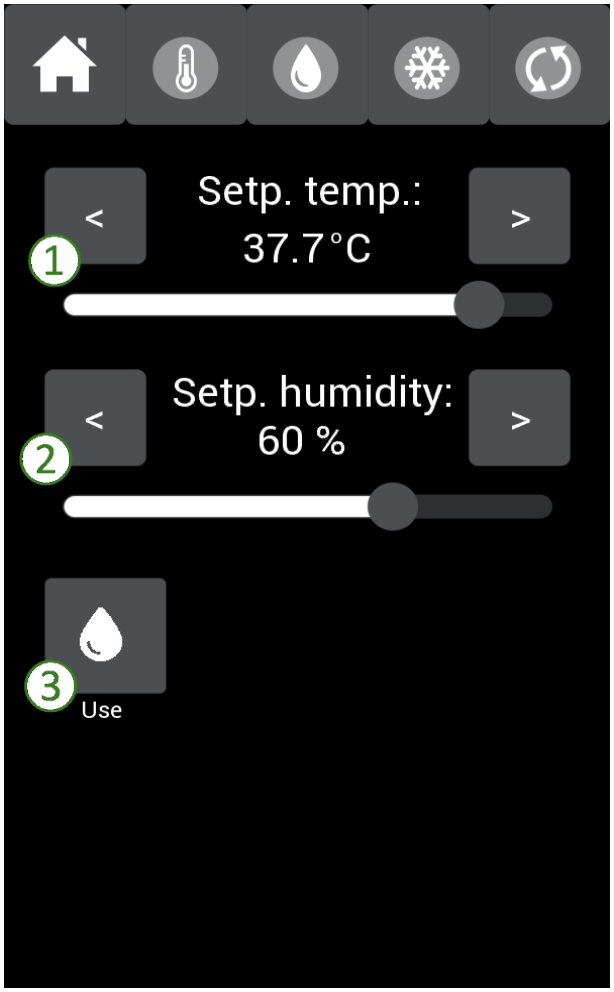


1. Home
2. Temperature control active
3. Humidity control active
4. Cooling function active
5. Rotation motor active
6. Temperature display
7. Humidity display
8. Light
9. CO_2/O_2-display (optional)
10. Current time
11. Error display (only in the event of an error)

Menu

1. Set temperature/humidity
2. Cooling phase / Turning
3. Calibration
4. Test page
5. System settings
6. Internet settings
7. Device information
8. Netzwork settings
9. Night phase
10. Error message
11. Incubation calendar

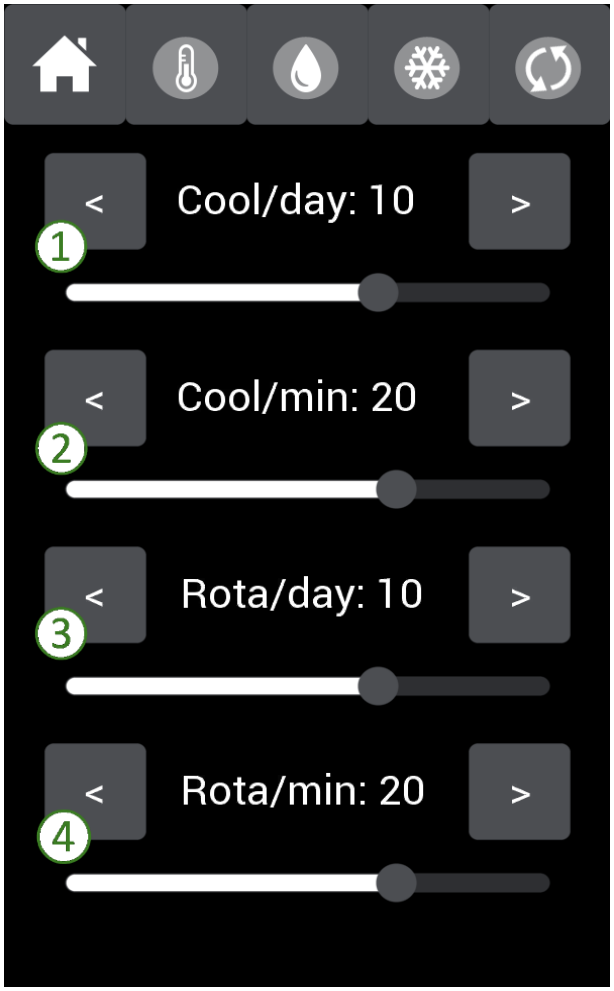
Set temperature/humidity



1. Setpoint temperature
2. Setpoint humidity
3. Humidity control
   on (blue) / off (grey)

Note: If the sliders and buttons are disabled (greyed out), the calendar is active (see menu item 11: Breeding calendar, data logger active)

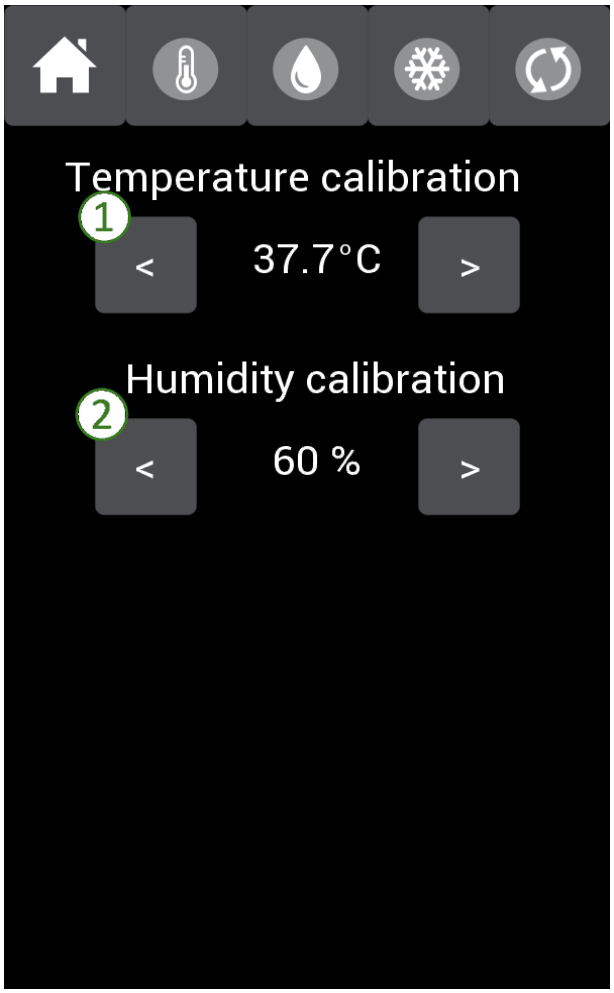
Cooling cycle / Reversal



1. Number of cooling cycles per day
2. Duration of cooling cycle
3. Number of turning cycles per day
4. Duration of turning cycle

Note: If the sliders and buttons are disabled (greyed out), the calendar is active (see menu **item 11: Breeding calendar**, data logger active

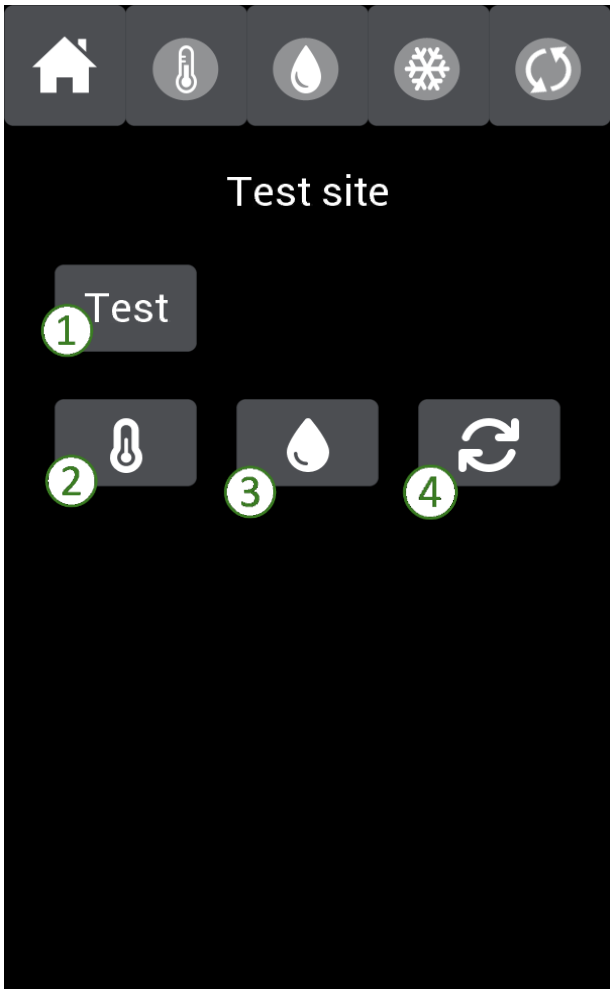
Calibration



1. Temperature calibration
2. Humidity calibration

This function should only be used if the humidity or temperature readings displayed on the incubator differ from the actual values. All new units are delivered fully calibrated. To achieve the highest measurement accuracy for temperature and relative humidity, use the supplied hydrometer. If deviations are detected, the actual measured value is set in this menu.

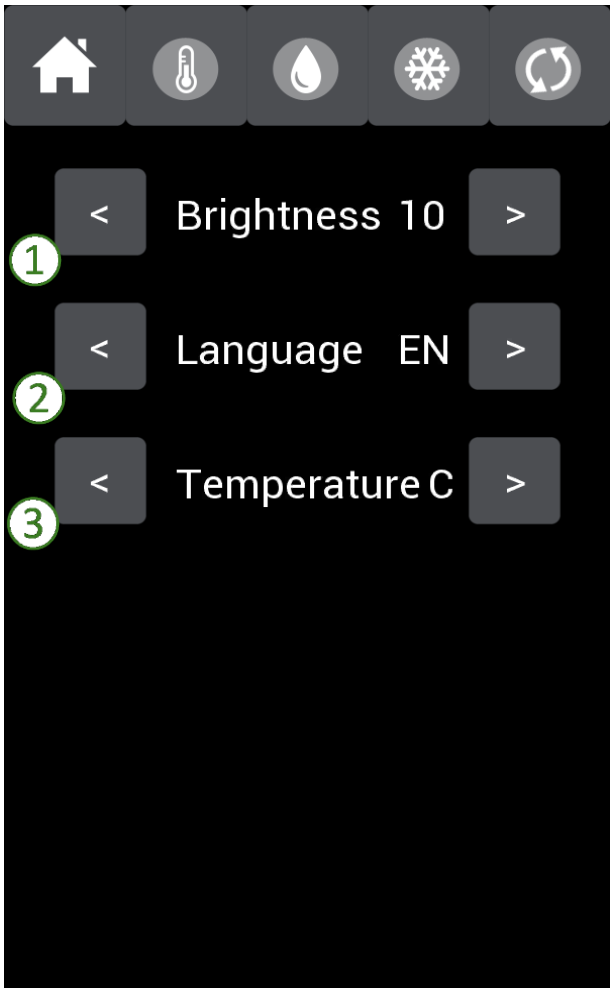
Test monitor



1. Testmode (on/off)
2. Fan heater: permanent (On/Off)
3. Water heater: permanent (On/Off)
4. Turning permanent (on/off)

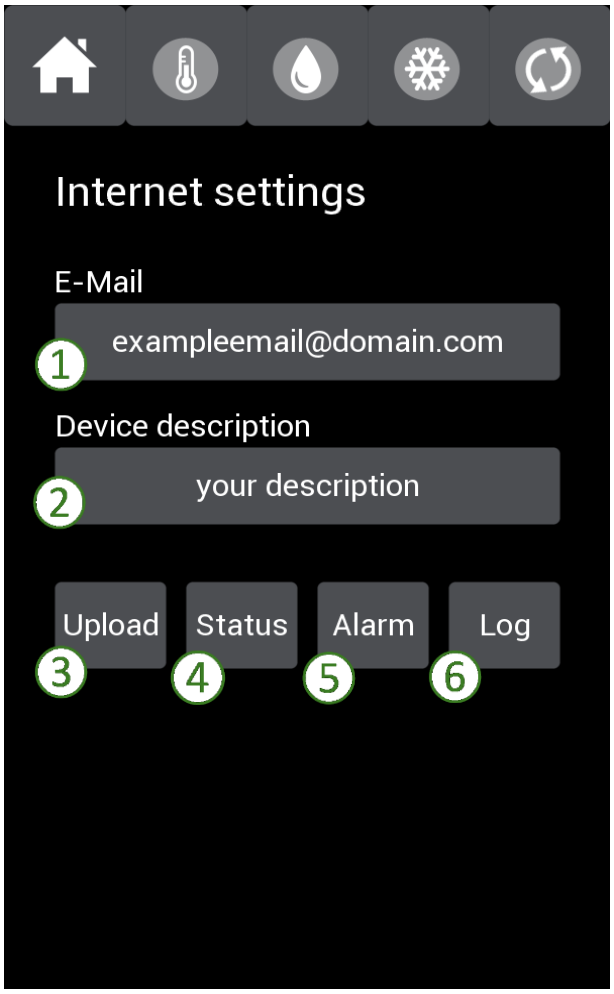
This menu is used to test the individual functions of your incubator.

System Settings



1. Brightness (+/-)
2. Language selection
3. Temperature (°C/°F/K)

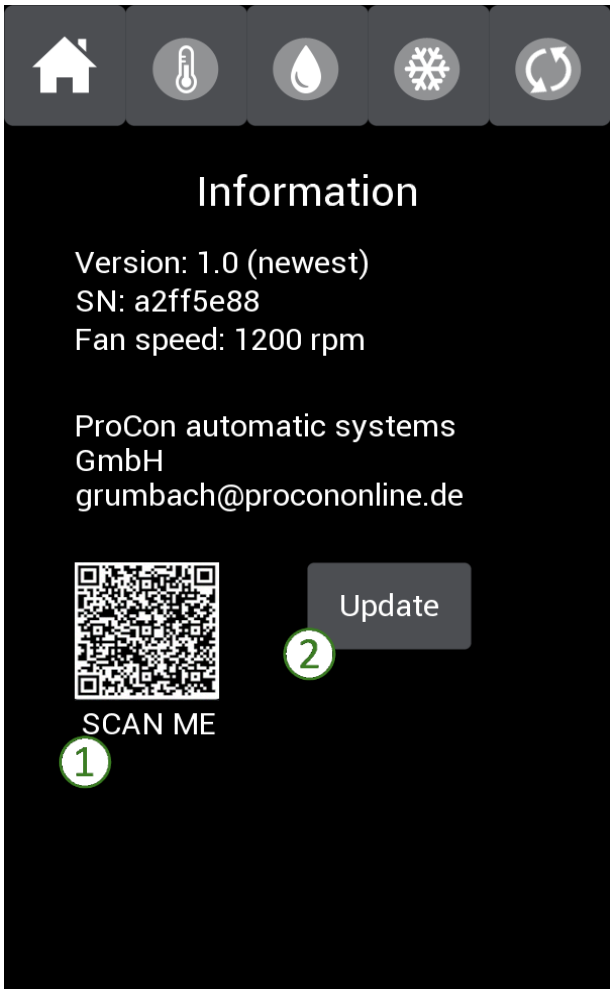
WiFi Settings



1. E-Mail-adress
2. Device name or ID (user-definable)
3. Upload (On/Off) activates the online function
4. Status (On/Off)
5. Alarm (On/Off) – sends alarm emails
6. Log (On/Off) – activates the logging of incubation parameters

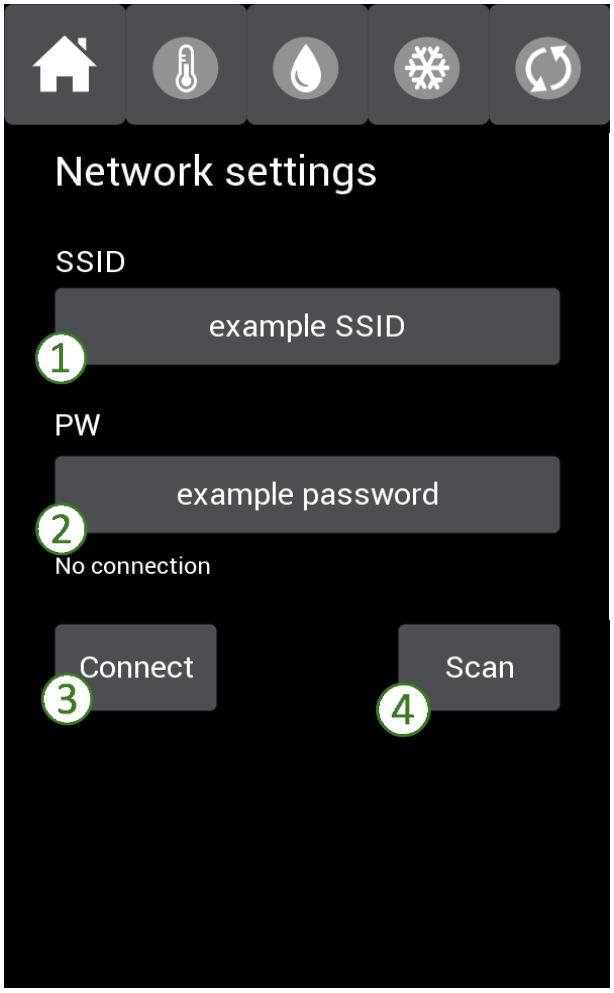
As soon as the device has an internet connection, Upload is switched on and an email address is entered, a user account for that email address will be created at: https://my-procon-grumbach.de/compact/index.php. You will receive an email with a password to log in online (check your spam folder if necessary).

Device Information



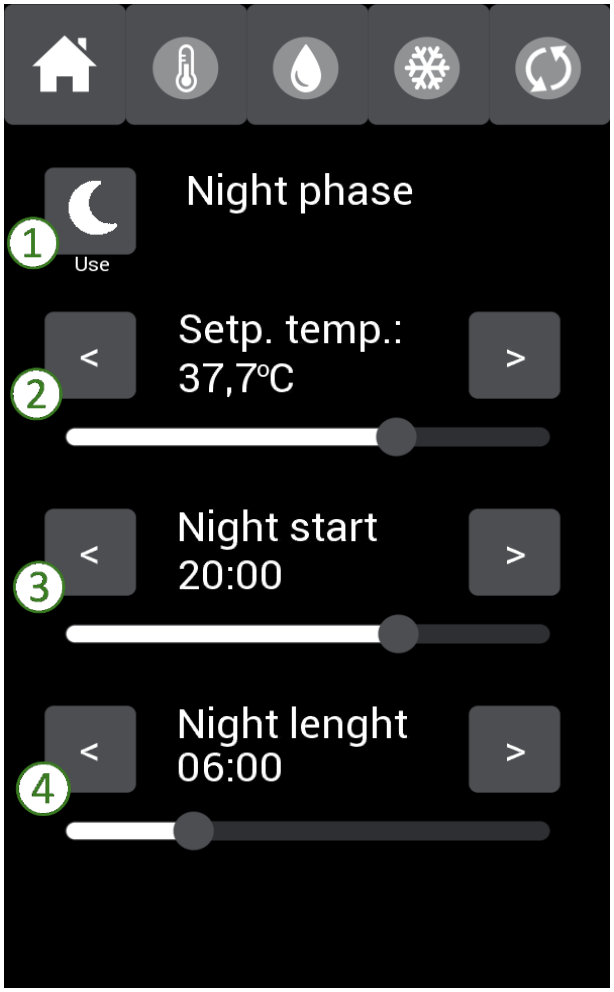
1. QR- Code for Website
2. Search for Update

Netzwork Settings



1. Wi-Fi network name
2. Password
3. Netzwerk connection
4. Scan for networks

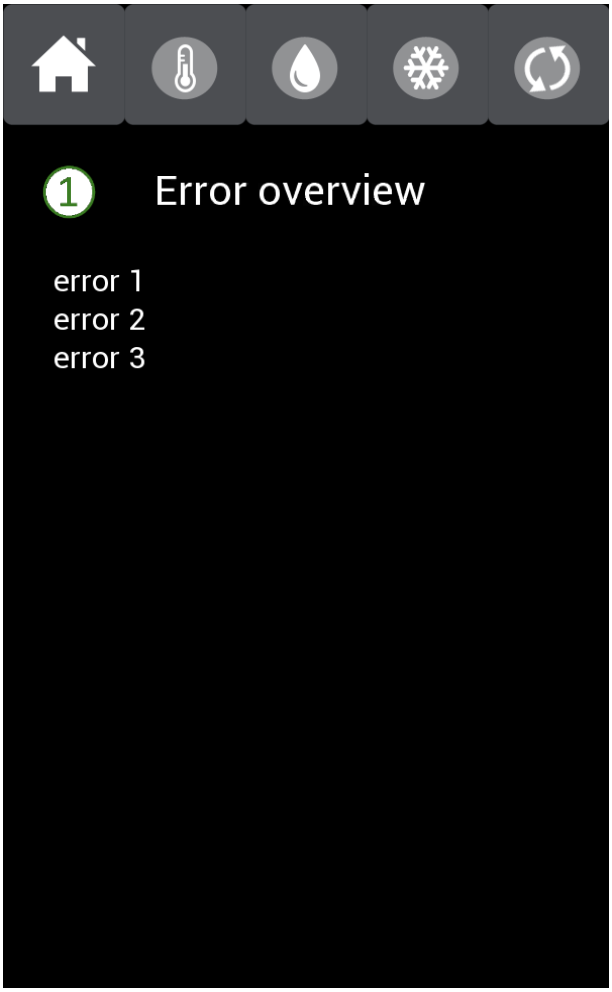
Night phase



1. Night Phase (On/Off)
2. Setpoint temperature
3. Start time
4. Duration

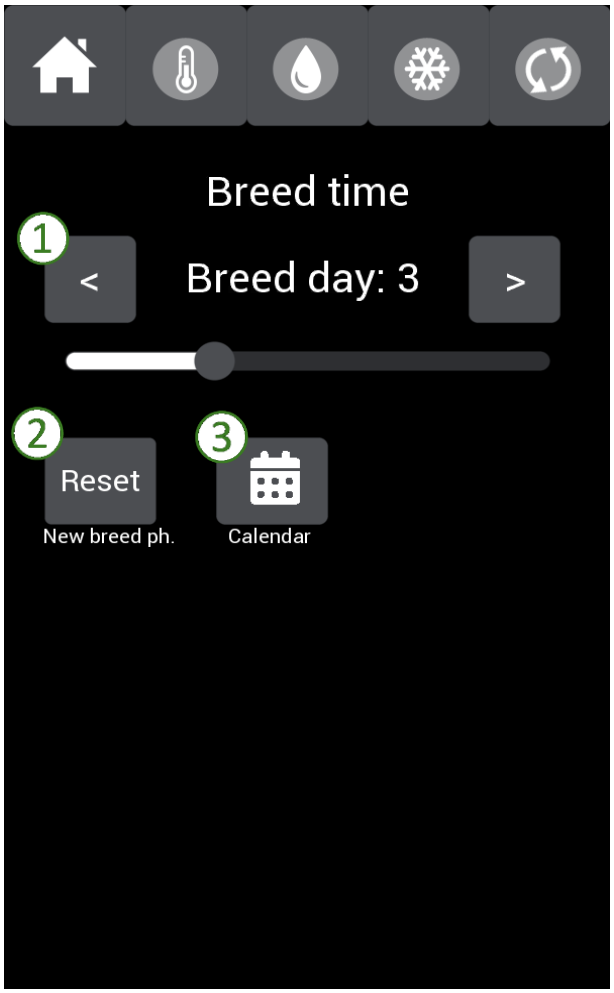
Note: If the sliders and buttons are disabled (greyed out), the calendar is active (see menu item 11: Brooding calendar, data logger active)

Error Display



1. Provides information on active error or fault conditions

Breeding Calendar



1. Selecting the start date for incubation
2. Restarting the incubation cycle, including turning and cooling
3. Calendar function (On/Off)

The incubation calendar is set using the online functions of your incubator (see the next section).

The incubation time display and day configuration are only valid if the calendar is activated! When the calendar function is active, only values entered via the web browser will be accepted.

Webbrowser- connection

Homepage in the browser

Once the network connection has been established, the incubator can be accessed via a PC or smartphone using a web browser.

You will find the required IP address on the display's Wi-Fi page under 'Current IP

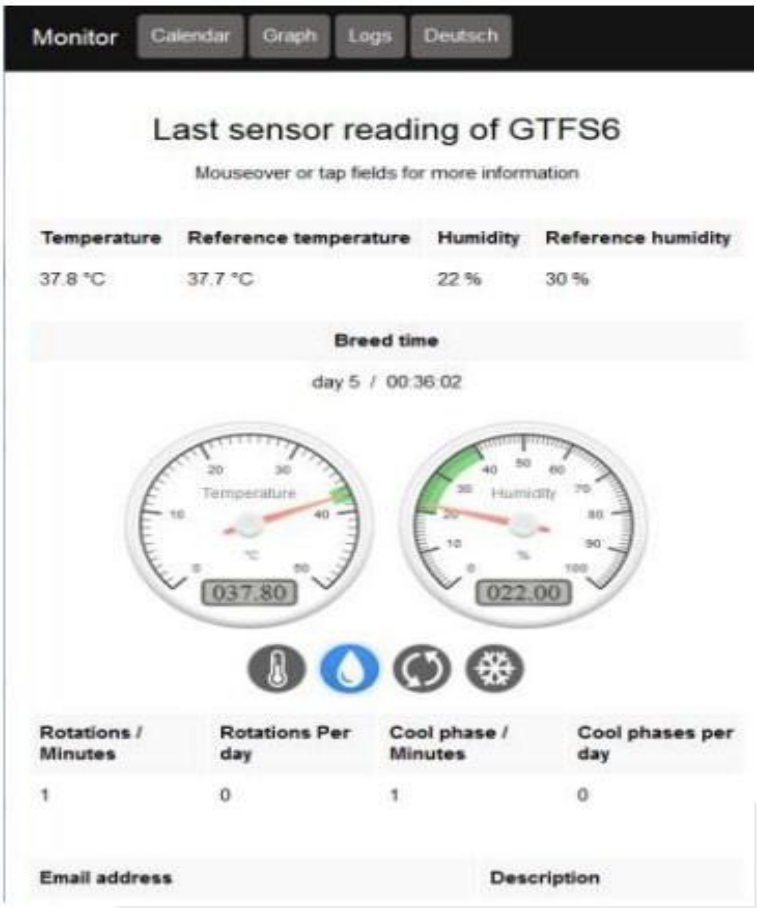
Example:

If the display shows 192.168.40.1 → enter the following in your browser: http://192.168.40.

Homepage will load and then:

- navigate to subpages via the top menu bar
- change the language to English, if desired

The home page displays an overview of key settings and real-time operating data.



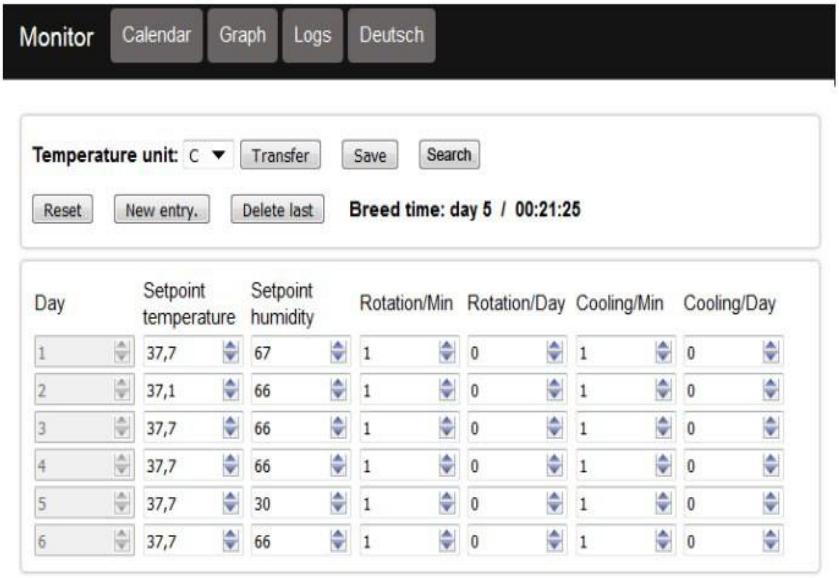
Configuration of the Incubation Calendar

Complete incubation cycle of up to 160 days can be predefined

- New Entry Button → add a day
- Delete Last button → remove the last day
- Save → download settings to the PC
- Settings can later be reloaded using Browse
- Transfer → sends settings to the incubator

For safety reasons, changes made on the incubator display must be confirmed before they become active

I in the display menu under: **Incubation Calendar → Calendar**



Enable the calendar and confirm the settings.

Data Visualization (Logger)

Uploaded and previously saved data can be displayed in the browser (menu item **Graph**).

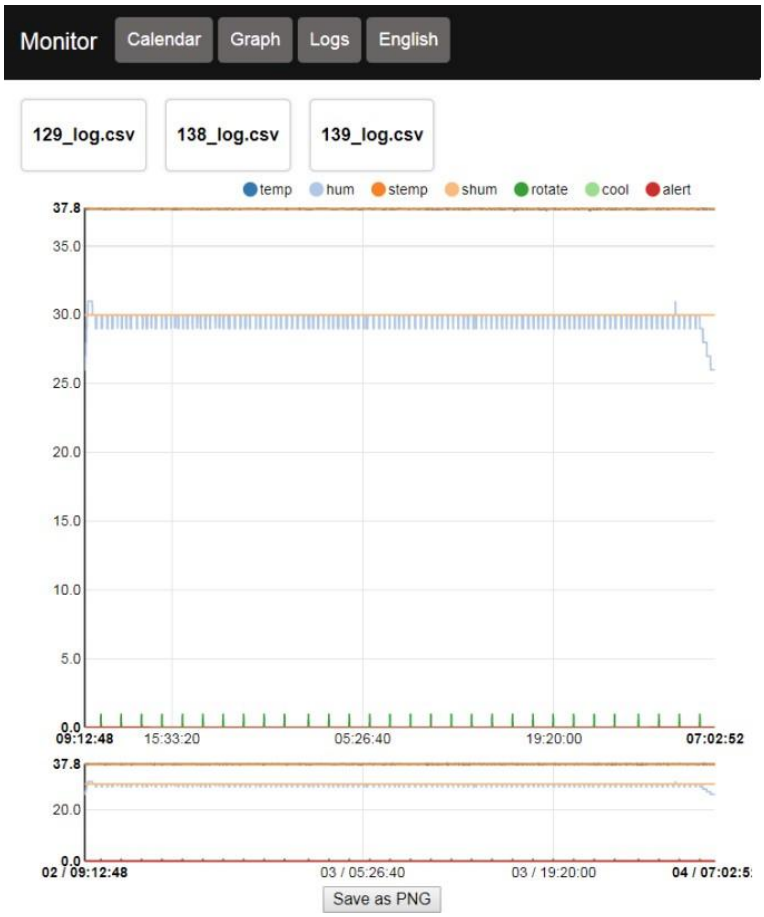
For this purpose, the **Log** function must be enabled in the menu → **Internet Settings**.

- Click on the desired log file
- Wait until the diagram is fully loaded

Zoom function:
Select a time range in the lower diagram window → zoom in.

Switch data lines on/off:
Individual values can be shown or hidden by clicking in the legend.

Browse logs:
Using the search function, logs stored on the PC or smartphone can be displayed.



Website ProCon Grumbach

Access is provided via the website:
https://my-procon-grumbach.de/

All devices linked to your email address are displayed here.

Note:
The device requires an internet connection via Wi-Fi. Upload must be enabled (see menu item **6. Internetsettings**, point ③ **"Upload on/off"**).

Incubation Recommendation

Chicken Incubation	Days: 21 Days	Device Settings
Temperature:	1.-17.	37,8°C
	18.-21.	37,0°C
Humidity:	1.-19.	55-60%
	20.21.	70%
Turning	3.-17.	5x daily
Candling:	4. + 17.	

Waterfowl incubation	Days: 28 Days	Device Settings
Temperature:	1.-22.	37,6-37,7°C
	23.-28.	37,0-37,5°C
Humidity	1.-22.	55-60%
Cooling:	From day 10	2× daily until pipping begins
Turning	2.-22.	3-6x daily
Candling	14./17./22/	

Falcon Incubation	Days: 32 Days	Device Settings
Temperature:	1.-30.	37,5°C
	pipping	37,0°C
Humidity	1.-30.	50-55%
	pipping	75-80%
Turning	1.-30.	6x daily

Parrot Incubation	Temperature	Humidity
Cockatoo	37,1-37.2°C	38-42%
Macaw	37,1-37.2°C	48%
Amazon Parrot	37,0-37,3°C	50-52%
Additional Species	37,0-37,3°C	45-47%
Recommendation	Incubate according to 15% weight loss	
Hatching Phase	36,58 °C	75%
Turning:	6x daily	

Technical Data

Parameter	Spezifikation
Operating Voltage	230 V AC
Frequency	50- 60 Hz
Power Consumption	500 W (PMax)
Power Consumption per Day*	Size S-L: 1,8kw Size XL-XXL: 2,4 kw

*Werte bei 20°C / 50% Umgebungsbedingungen. Sollwerte: 37°C / 60%.

Capacity

Capacity	Device Size (Chicken Eggs)
S	42
M	84
L	168
XL	294
XXL	420

Conformity and Safety Information

CE Marking
In accordance with European regulations, CE marking has been mandatory since January 1, 1996 – in compliance with the EMC Directive.

Standards Compliance
This product complies with DIN EN 55104 (December 1995) regarding the electromagnetic immunity of household and similar electrical appliances.

Operating Notice
In rare cases, high-frequency interference from the power supply may temporarily affect the performance of the incubator. Once the interference has ended, the device will automatically resume normal operation without any user intervention.

Service and Support

Manufacturer / Contact:
ProCon automatic Systems GmbH
Bettwiesenweg 18
D-35325 Mücke, Germany

Phone: +49 (0)6400 / 95691-15
Email: Grumbach@procongrumbach.de
Website: www.procon-grumbach.de

Owner: Nico Herth, Kevin Herth

Privacy Policy

We appreciate your interest in our company. Protecting your personal data is of the highest priority for the management of ProCon automatic Systems GmbH.

The use of our website is generally possible without providing personal data. However, if you wish to use certain services via our homepage, the processing of personal data may become necessary.

If there is no legal basis for such processing, we will obtain your consent.

The processing of personal data – such as name, address, email address, or telephone number – is always carried out in accordance with the General Data Protection Regulation (GDPR) and the applicable national data protection regulations.

This privacy policy provides information about the type, scope, and purpose of the personal data collected, as well as your rights as a data subject.

Although we implement extensive technical and organizational measures to protect personal data, internet-based data transmissions may still contain security gaps. Therefore, absolute protection cannot be guaranteed. You may transmit data to us by alternative means at any time, for example by telephone.

Definitions

To ensure clarity and comprehensibility, this privacy policy uses the terms defined in the GDPR.

Important Definitions

Personal Data
Any information relating to an identified or identifiable natural person, such as:

- Name
- Identification number
- Location data
- Online identifiers
- Characteristics of personal identity

Data Subject
Any identifiable natural person whose personal data is being processed.

Processing
Any operation performed in connection with personal data, such as:

- Collection
- Storage
- Organization
- Adaptation
- Retrieval
- Use
- Disclosure
- Deletion

Restriction of Processing

Marking stored data for the purpose of limiting its future processing.

Profiling
Automated processing of personal data to evaluate personal aspects, such as behavior or location.

Pseudonymization
Processing of data in such a way that personal information can no longer be assigned to a specific person without additional information.

Controller
A natural or legal person who determines the purposes and means of processing personal data.

Processor
A person or entity that processes personal data on behalf of the controller.

Recipient
A person or entity to whom personal data is disclosed.

Third Party
Any person or entity outside the groups mentioned above.

Consent
Freely given, informed, and unambiguous agreement to the processing of data.

Name and Address of the Controller

ProCon automatic Systems GmbH
Bettwiesenweg 18
D-35325 Mücke, Germany

Phone: +49 (0)6400 / 95691-15
Email: Grumbach@procongrumbach.de
Website: www. procon-grumbach.de

Owner : Nico Herth, Kevin Herth

The controller determines the purposes and means of data processing.

- Principles for the Processing of Personal Data
- We process your personal data according to the following principles:
- Lawfully, fairly, and transparently
- Collected only for specific, explicit, and legitimate purposes
- Data minimization: only data necessary for the purpose is collected
- Accuracy: data is kept up to date and corrected when necessary
- Storage limitation: data is stored only as long as required
- Integrity and confidentiality: protection against unauthorized access, loss, or damage

Categories of Processed Data

We process personal data through various channels.

Some data is required to provide services, while other information may be submitted voluntarily

Typical categories include:

- Contact information
  (name, address, telephone number, email address, job title)
- Data from online forms, emails, or telephone calls
- Profile data (username, password) – when creating an account
- Technical usage data such as IP address and web activity
- Transaction and payment data
- Smart metering data (e.g. water or energy consumption)

Operational and usage related device data, such as energy or water consumption values, where necessary for the provision of services

Purposes of Data Processing

Personal data is used only for legitimate purposes, including:

- Providing requested products and services
- Sending newsletters or marketing materials
- Maintaining business relationships
- Customer service and support
- Analyzing the use of our services for further development
- Communication regarding relevant matters
- Compliance with legal obligations

The legal bases for this processing may include:

- Your consent
- Performance of a contract
- Legal obligations
- Legitimate interests

Cookies

Our websites use cookies to operate and optimize websites

- improve user experiences
- analyze user data
- create statistical evaluation

Further details can be found in our separate **Cookie Policy**

Disclosure and Transfer of Data

Personal data may be disclosed:

- to comply with legal regulations and official requirements
- to enforce terms of use
- for fraud prevention or error protection
- to business partners or distributors when necessary for the provision of services

Consent

If the processing is based on your consent, you have the right to withdraw that consent at any time. Withdrawal of consent does not affect the lawfulness of data processing carried out before the withdrawal.

Data Security

We implement technical and organizational security measures to protect personal data against

- unauthorized access
- loss
- destruction
- alteration

to protect.

Your Rights

You have the right to:

- access information about stored data
- correct inaccurate data
- request restriction of processing
- request deletion of personal data (where legally permissible)
- object to the processing of your data

To exercise your rights, please contact us using the details provided above (Section 2). Please include your full name and email address for identification purposes. We will respond to requests within one month. If you have complaints, you may contact your local data protection authority.

Links to other Websites

Our website may contain links to third-party websites. We assume no responsibility for their content or privacy practices. Please review the respective privacy policies when visiting such websites.

Changes to the Privacy Policy

We may update this policy to reflect legal changes or modifications to our services and functions.

Any changes will be published on our website.