

PLD-100

Poultry computer



User Manual

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Disclaimer

We accept no liability for the contents of this manual and expressly disclaim any implied warranties of merchantability or fitness for a particular purpose.

We reserve the right to revise or modify this manual without prior notice.

Stienen BE shall not be liable for any damage or injury resulting from improper or negligent use of the product, or from use that is not in accordance with the instructions in this manual, except in cases of intent or gross negligence on our part.

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1 About this manual

This manual is intended for the user of this device. It contains all the information necessary for operating and maintaining this product. Please read all the information and instructions carefully before using the product. Symbols in this manual highlight warnings, important notes, tips, and other relevant information.

This manual has been compiled with the greatest care. If you discover any errors, please inform us.

1.1 Symbols and definitions



Risk of injury from dangerous electric shock. Danger to people and animals.



Warning: danger to product, people, and animals if procedures are not strictly followed.



Warning: risk of damage to products if procedures are not strictly followed.



Pressure cleaning is not permitted.



Collect as separate waste streams.



Important note.



Additional information



Example of a practical application of the described functionality



Example calculation



Manual control



Tips and advice



Screenshot



Application note

1.2 Customer service

If you have any questions, please contact your installer. Be sure to have all the necessary product information at hand. Always record the cause of a fault (if known) and the circumstances under which it occurred. This will help avoid ambiguities and enable us to resolve issues quickly and effectively.

2 Safety instructions and warnings

Read this chapter carefully before using the device. Installation and troubleshooting may only be performed by certified installers in accordance with applicable guidelines. Improper installation or operation will void the warranty.

2.1 Independent alarm system



Although the device has been carefully designed, technical failures may still occur. Connecting alarm contacts to a central alarm unit is often required. Install an independent alarm device, such as a min/max thermostat, and test the alarm at least once per week.

2.2 During use

All persons operating the device must read this manual carefully and be aware of the potential hazards that may result from incorrect use or improper maintenance.



The device may only be opened by authorised personnel.



Preferably do not switch off the control computer when the device is not *in use*. Instead, set it to *Off* mode. This prevents unnecessary alarms, communication failures, and condensation caused by cooling.



Regularly inspect the device for possible damage. A damaged device is unsafe. Always report any damage to your installer.



The device, which contains electronic components, is splash-proof and must not be cleaned with running water.



In the event of an emergency, record the following: the circumstances under which the emergency occurred, installation settings, software date, software version number, and any possible causes.

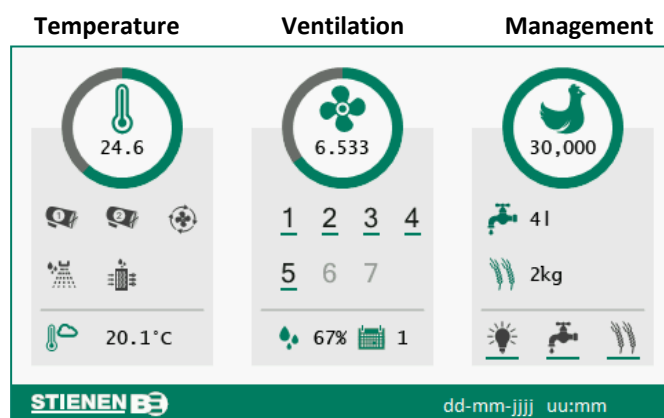
2.3 Disposal

The EU has established systems for the separate collection of discarded electrical and electronic equipment and batteries (Directive 2012/19/EU). Incorrect disposal may result in a fine.

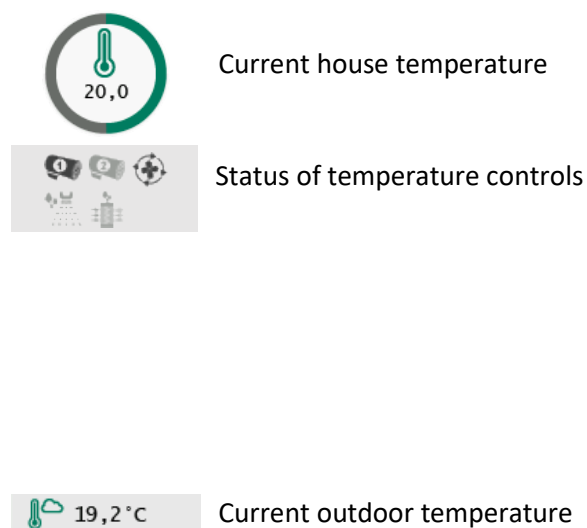


Electrical and electronic equipment must be collected separately at the end of its service life.

3 Overview screen

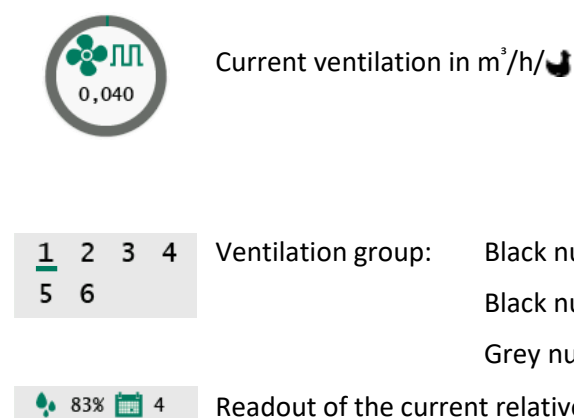


3.1 Temperature



On	Off	Active	
			Heating 1
			Heating 2
			Recirculation fan

3.2 Ventilation



	Duty cycle ^{plus} ventilation
	Step ventilation
	Tunnel ventilation

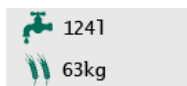
<u>1</u>	2	3	4	Ventilation group:	Black number	Becomes active
5	6				Black number, underlined in green	On
					Grey number	Not active

83% 4 Readout of the current relative humidity (RH) and day number

3.3 Management/timer switches



Current number of animals present



Today's total: water, feed



Timer status

On	Off	Active	
			Light timer
			Water timer
			Feeding timer

3.4 Status bar



No alarm



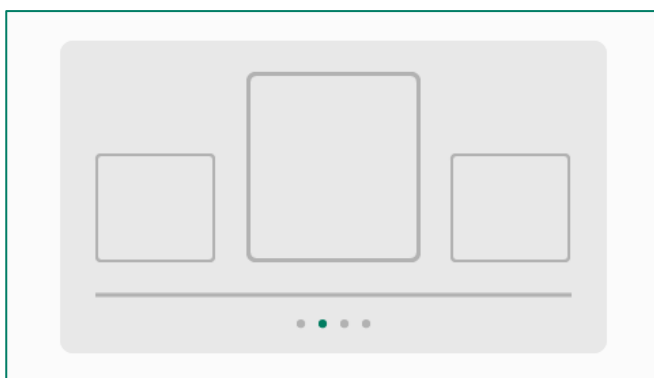
Alarm



Animal house taken out of service

The status bar also displays the date and time.

3.5 Change settings / pop-up window



- The green dot (●) next to a value or icon indicates that you can change it.
- Tap the grey area on the screen where the value or icon is displayed.
- The pop-up window shown above will appear. You can change the value or icon in the central box.
- The number of dots indicates the number of values/icons that can be changed (● = current value/icon).

3.6 Control buttons



Edit mode not active



In edit mode. Select setting:

Use the left/right cursor keys to select the desired setting.



In edit mode. Select setting:

Use the up/down cursor keys to change the value or icon.

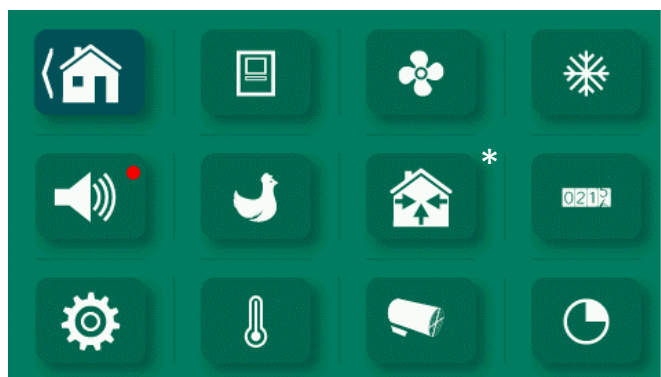
 = cancel change
 = apply change

3.7 Screen number

Tap '' three times. A box showing the screen number will appear on the screen.

The screen number will disappear as soon as you select a different screen or tap '' three times again.

4 Main menu



When you tap anywhere on the overview screen, the main menu appears.

The red dot (●) in the alarm button indicates that an alarm situation has occurred in one of the control systems.

* The button that appears here depends on the selected ventilation type:  or  or 



Home

Back to overview screen



Alarm

Code, on/off, test, delay, set temperature alarm, set RH alarm



System

Info, date & time, unit number, software version, activate controls, access code for system settings.



Control unit

Switching the control unit on and off and curves



Management

Number of animals, new setup, unloading



House temperature



Ventilation

Min./Max., bandwidth, curve, interval, tunnel, mode



Air intake and tunnel ventilation

Ventilation based on side wall air inlets and tunnel air inlets



Air intake ventilation

Ventilation based on side wall air inlets



Tunnel ventilation

Ventilation based on tunnel air inlets



Heating

Heating 1, heating 2, circulation fan



Cooling

Mist cooling, pad cooling



Meters

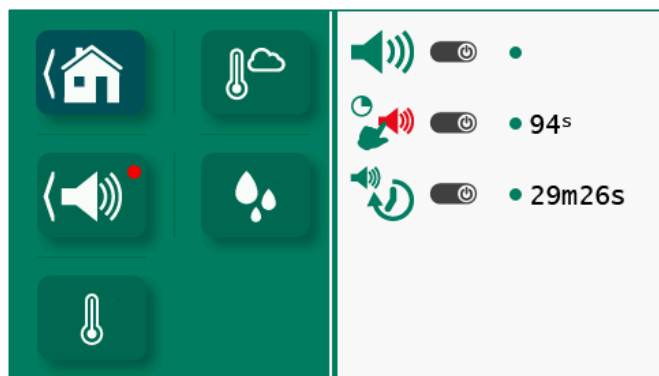
Water meter, feed meter



Timers

Light timer, water timer, feed timer

5 Alarm



Main alarm on/off

Test siren

Alarm temporarily disabled



Back to overview screen



Back to previous screen



Temperature



Outdoor temperature



Relative humidity (RH)

Main alarm ON/OFF



If you switch off the main alarm, the controls will remain active. If something goes wrong, you will no longer receive alarm notifications. Your animals' lives will then be at risk.

5.1 Alarm codes



Temperature sensor fault



No outdoor temperature



RH sensor faulty



Overlapping clock periods



Base board not found



Temperature too high



Ventilation too high



RH too high



Communication error



Jumper A on the LCCPU board not in the top position



Temperature too low

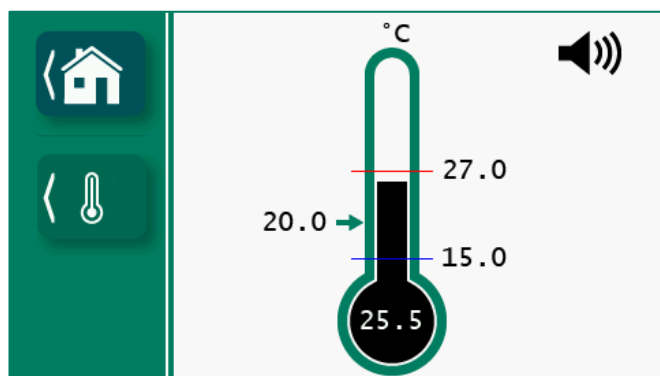


Ventilation too low



RH too low

5.2 House temperature alarm



   Alarm / Main alarm on/off.

Main alarm ON/OFF



If you switch off the main alarm, the controls will remain active. If something goes wrong, you will no longer receive alarm notifications. Your animals' lives will then be at risk.

Tap the grey area on the screen. A pop-up window with settings will appear.

Settings pop-up



Main alarm on/off



Minimum alarm limit¹



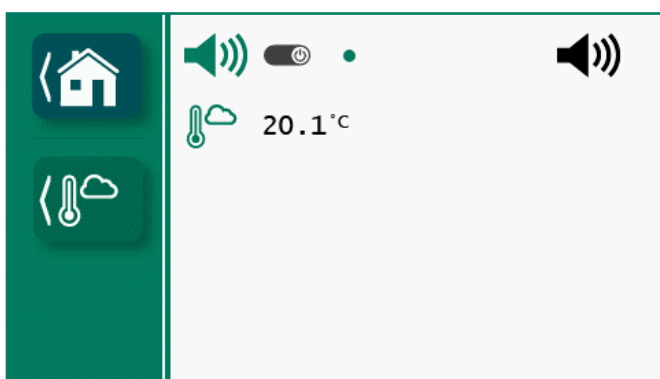
Maximum alarm limit¹



Absolute alarm limit

¹ Setting relative to the house temperature (see page 19).

5.3 Outdoor temperature alarm



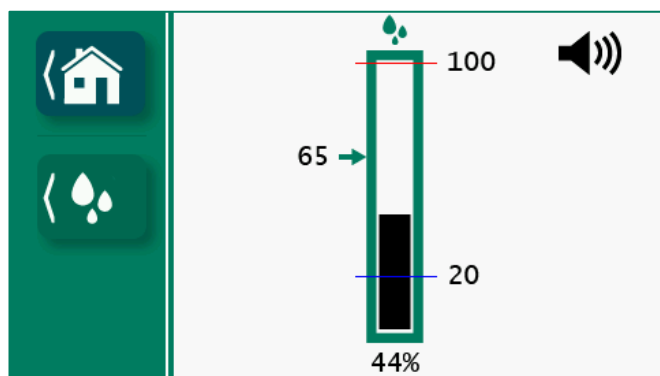
Tap the grey area on the screen.
A pop-up window with settings will appear.

Settings pop-up



Outdoor temperature alarm on/off

5.4 Relative Humidity (RH) Alarm



Tap the grey area on the screen.
A pop-up window with settings appears.

Settings pop-up



RH alarm on/off

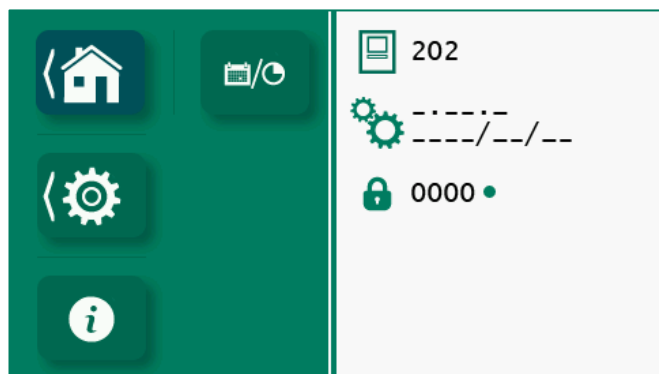


RH alarm lower limit



RH alarm upper limit

6 System



Device number



Software version number and software date



Installation access code and service codes

Tap the grey area on the screen.

A pop-up window with settings will appear.

6.1 Info



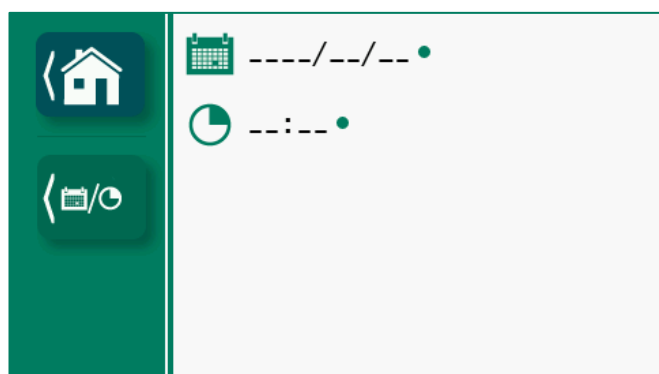
If you do not have a QR code scanner, you can, for example, download Google Lens from the App Store.

You can use your smartphone to access documentation via the website.

Scanning a QR code

- Open the QR code app.
- Hold your device so that the QR code appears in the app's viewfinder.
- Tap the notification to open the link associated with the QR code. Then follow the instructions on your smartphone.

6.2 Date and time



Date

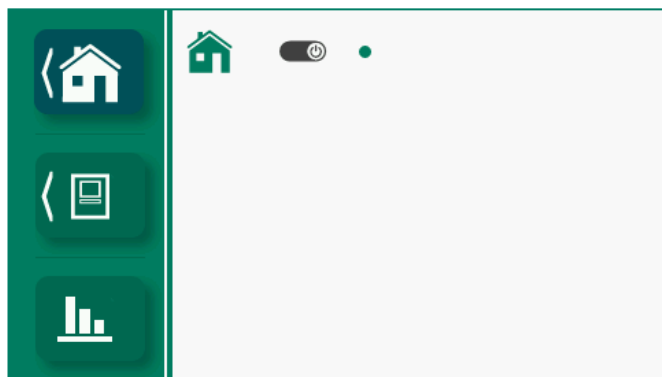


Time

Tap the grey area on the screen.

A pop-up window with settings will appear.

7 Controller



Tap the grey area on the screen. A pop-up window with settings will appear.

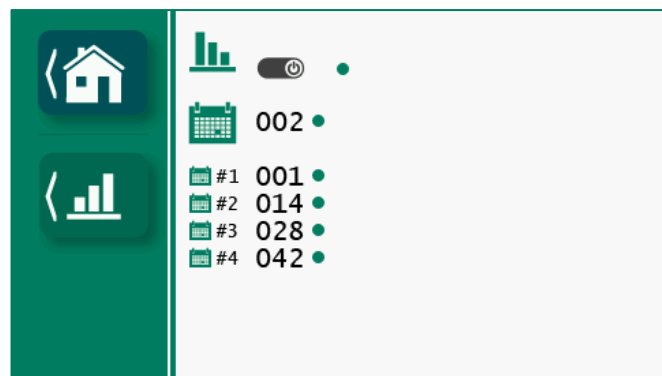


Switching the house on and off.
When the house is empty, switch off all controls for that animal house.



Caution! The house is out of operation.

7.1 Growth curves



Tap the grey area on the screen. A pop-up window with settings will appear.

All growth curves on/off



You can subsequently switch the individual growth curves on or off separately.

#1



...

#4

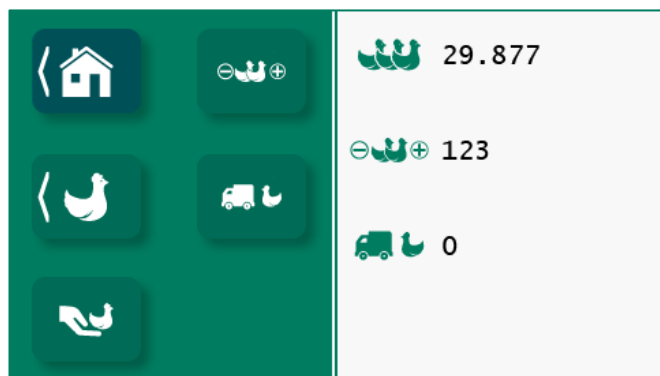


Day number
Breakpoints 1 to 4



Current day number

8 Management



-  Animals present
-  Changes to livestock (dead/sick animals)
-  Animals unloaded



Back to previous screen



Number of animals placed in the house

Tap the grey area on the screen. A pop-up window with settings will appear.



Placement date



New flock



Total changes today



Enter change



Total changes

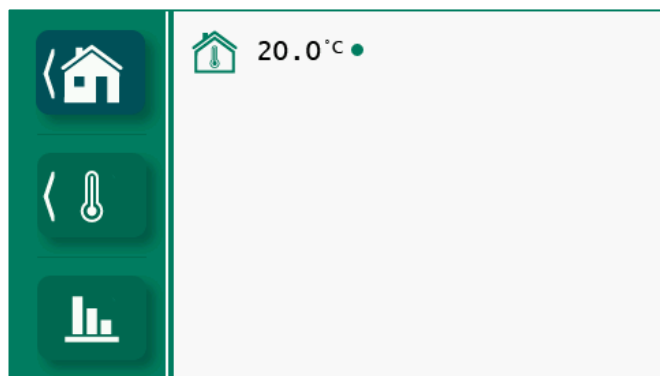


Unloaded today



Total unloaded

9 House temperature



Tap the grey area on the screen.
A pop-up window with settings will appear
(provided the curve is switched off).

The green dot (●) next to the setting disappears
when the house temperature graph is 'on'.



Back to overview screen



Back to previous screen



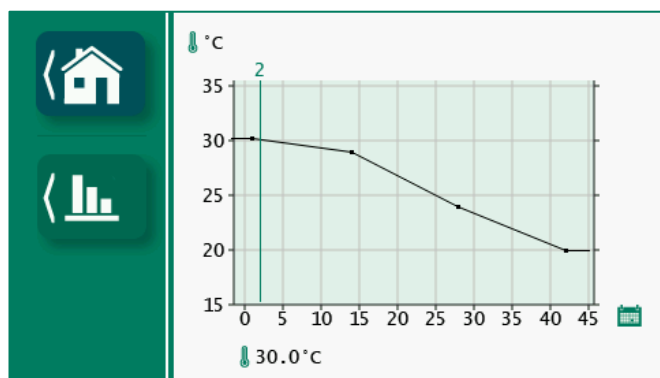
House temperature curve

Settings pop-up



House temperature

9.1 House temperature curve



Tap the graph to set the curve. A pop-up window
with settings will appear.

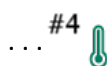
The graph is greyed out if the house temperature
curve is switched off or if all curves are switched off
(see page 12).

The graph shows the current day number and the
temperature calculated from the curve.

Settings pop-up



Growth curve on/off

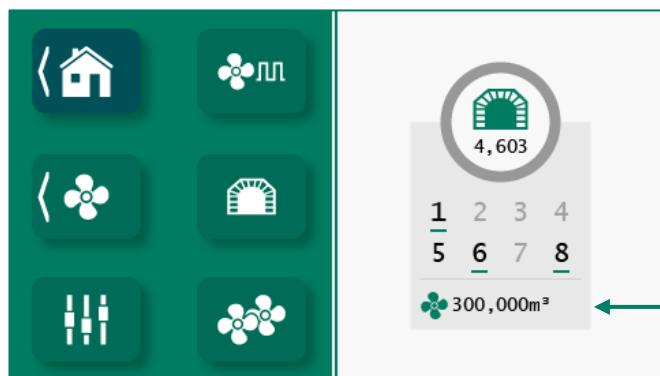


Temperature
breakpoints 1 to 4



Always check the set house temperature alarm limits. This will prevent an unexpected alarm from being triggered if the house temperature calculated from the curve falls outside the set limits.

10 Ventilation



Total ventilation capacity



Back to overview screen



Back to previous screen



Settings



Interval ventilation

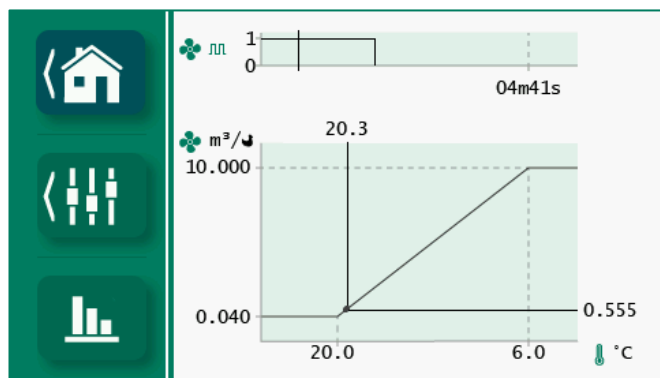


Tunnel ventilation



Ventilation groups

10.1 Settings



When interval ventilation is active, only the top graph is displayed.

Tap the image. A pop-up window with settings will appear.

Settings pop-up



Control temperature¹



Bandwidth



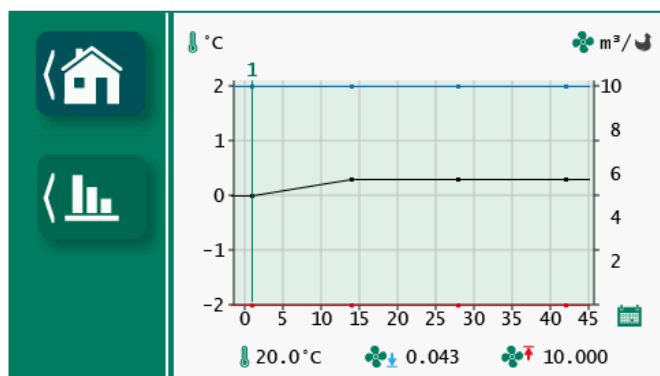
Minimum ventilation



Maximum ventilation

¹ Setting relative to the house temperature (see page 19).

10.2 Ventilation curve



Tap the graph to set the curve. A pop-up window with settings will appear.

The graph is greyed out if the house temperature curve is switched off or if all curves are switched off (see page 12).

The graph shows the current day number, the calculated temperature, and the minimum and maximum ventilation values from the curve.

Settings pop-up

  Growth curve on/off

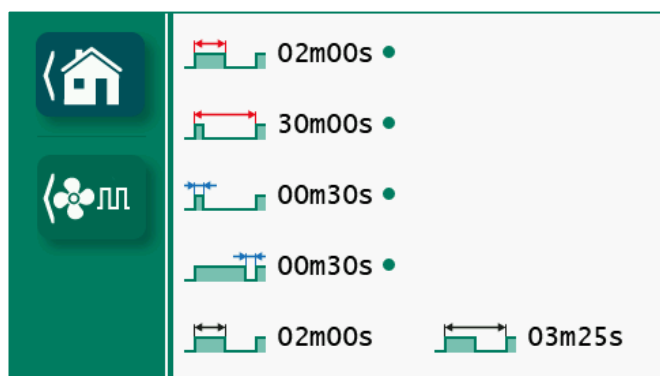
#1  .. #4  Temperature¹ breakpoints 1 to 4

#1  ... #4  Minimum ventilation breakpoints 1 to 4

#1  ... #4  Maximum ventilation breakpoints 1 to 4

¹ Setting relative to the house temperature (see page 19)

10.3 Duty-cycle^{plus} ventilation



Tap the grey area on the screen. A pop-up window with settings will appear.

Settings pop-up

 Default pulse duration "enabled"

 Minimum pulse duration "enabled"

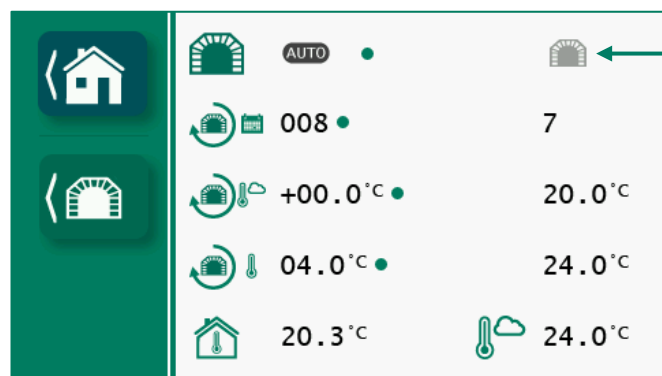
 Current cycle time

 Maximum pulse duration (cycle time)

 Minimum pulse duration "off"

 Current pulse duration (cycle time)

10.4 Tunnel ventilation



Current tunnel mode ( : on /  : off).

In this example, the current day number (7) is lower than the set day number (8). Tunnel mode is not yet active.

Tap the grey area on the screen. A pop-up window with settings will appear.

Settings pop-up



AUTO

The tunnel regulates according to set values



Tunnel continuously *enabled*.



Tunnel continuously *disabled*



Tunnel mode active from day number. The current day number is shown after the setting.



Tunnel mode is active because the current outside temperature is above the set temperature (difference compared to the set house temperature, see page 19).



Tunnel mode is active because the current house temperature is above the set temperature (difference compared to the set house temperature, see page 19).

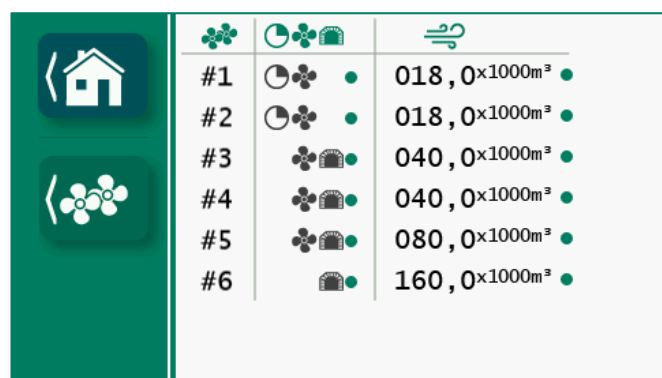


Current house temperature



Current outside temperature

10.5 Ventilation groups



Tap the grey area on the screen. A pop-up window with settings will appear.

Settings pop-up



Ventilation group

Up to 8 ventilation groups can be installed.



A ventilation group can be active during Duty-cycle^{plus} ventilation



Ventilation group mode



A ventilation group can be active during step ventilation



A ventilation group can be active during tunnel ventilation

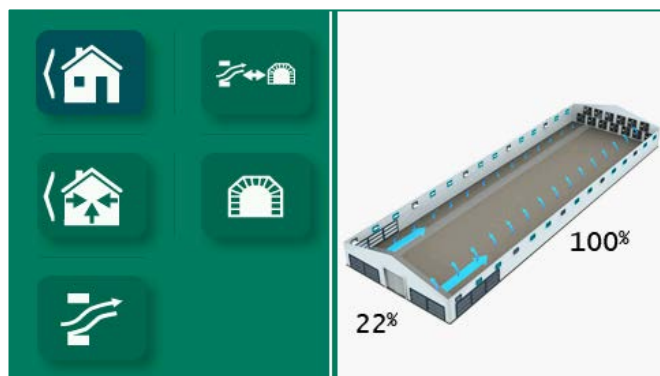


Ventilation group disabled



Ventilation capacity

11 Air inlets



This menu only appears if the ventilation type is set to: air inlets and tunnel ventilation.



Back to overview screen



Back to previous screen



Side wall air inlets

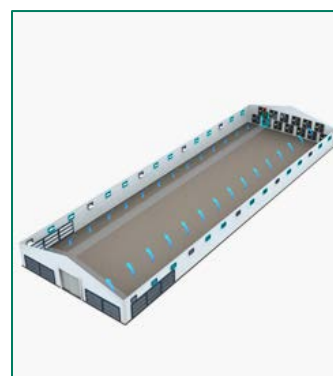
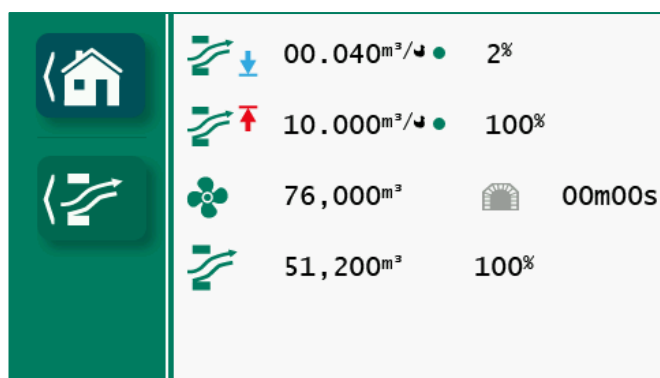


Tunnel air inlets in transition mode



Tunnel air inlets

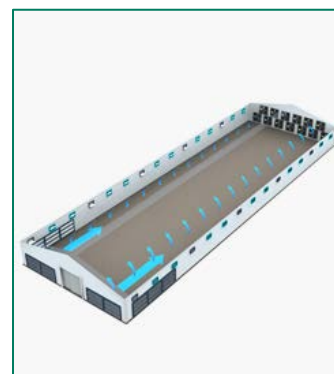
11.1 Step ventilation



Tap the grey area on the screen. A pop-up window with settings will appear.

11.2 Tunnel air inlets in transition mode

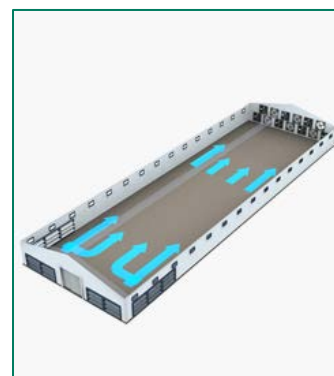
		00.040m³/h		1%
		10.000m³/h		100%
		76,000m³		00m00s
		24,800m³		22%



Tap the grey area on the screen. A pop-up window with settings will appear.

11.3 Tunnel air inlets

		00.040m³/h	1%
	10.000m³/h	100%	
		76,000m³	 00m00s
	24,800m³	22%	



Tap the grey area on the screen. A pop-up window with settings will appear.

Settings pop-up



Minimum air inlet position



Maximum air inlet position



Current ventilation

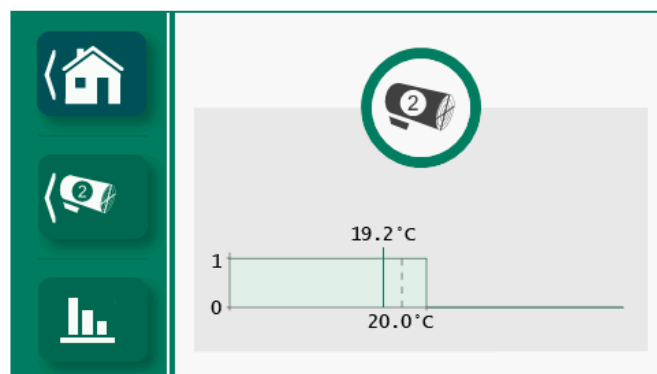
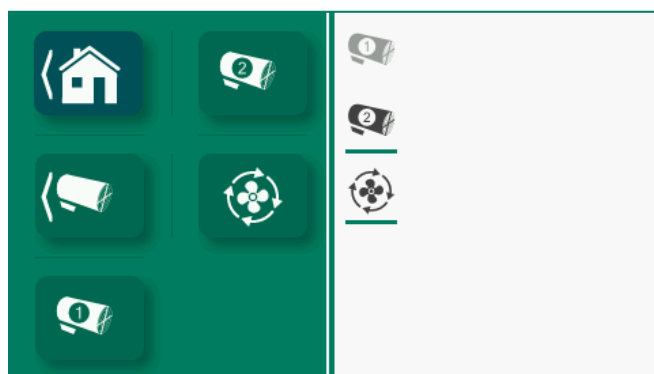


Tunnel mode on/off



Current air inlet position

12 Heating



Tap the grey area on the screen. A pop-up window with settings will appear.



Back to overview screen



Heating 1



Recirculation fan



Heating 1 on/off/active



Recirculation fan on/off/active



Back to previous screen



Heating 2



Curve



Heating 2 on/off/active

Settings pop-up



Growth curve on/off



Temperature breakpoints 1 to 4

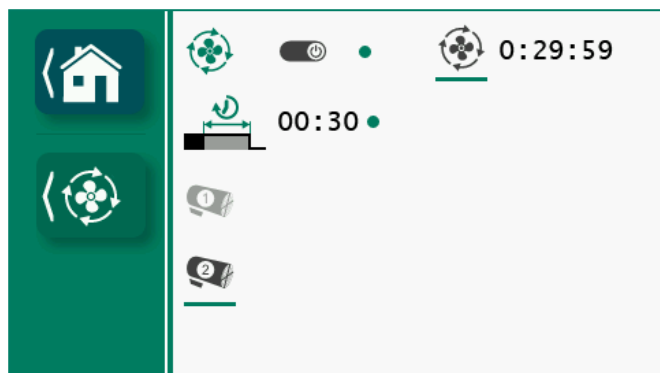
Heating 2 is set in the same way as heating 1.

Visual display of heating status



Heating on/off/active

12.1 Circulation fan



Tap the grey area on the screen. A pop-up window with settings will appear.

When either of the two heaters switches on, the recirculation fan also switches on. If all heaters switch off, the switch-off delay time begins.



Recirculation fan on/off



hh:mm:ss

Recirculation fan status +
switch-off delay time.

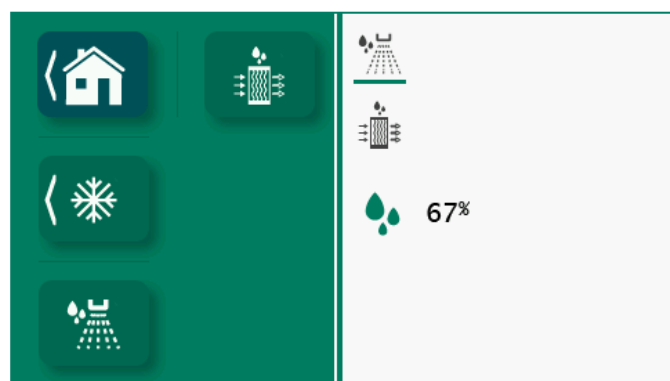


Set switch-off delay time for recirculation fan



Heater status on/off

13 Cooling



Mist cooling status ( on /  off)

Pad cooling status ( on /  off)

Current relative humidity (RH)
Only visible if an RH sensor is installed.



Back to overview screen



Back to previous screen

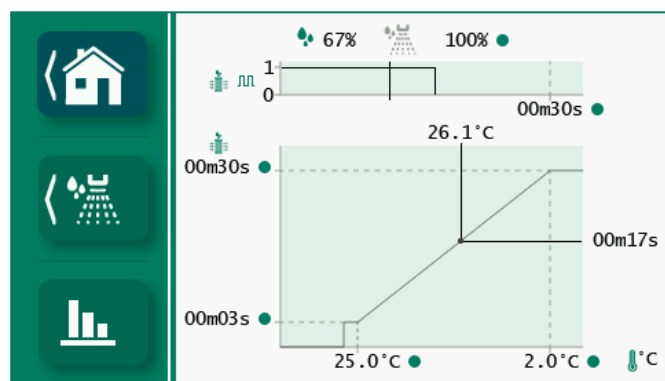


Mist cooling



Pad cooling

13.1 Mist cooling



-  Current relative humidity (RH)
Only visible if an RH sensor is installed.
-  Cooling off when RH > setting – only visible if this option is installed.
-  Duty cycle ^(plus) ventilation on
-  Duty cycle ^(plus) ventilation off
-  Tunnel ventilation on
-  Tunnel ventilation off

Tap the grey area on the screen. A pop-up window with settings will appear.

Settings pop-up



 On  Off



Setting relative to the house temperature
(see page 19)



Bandwidth



Minimum 'on' pulse duration

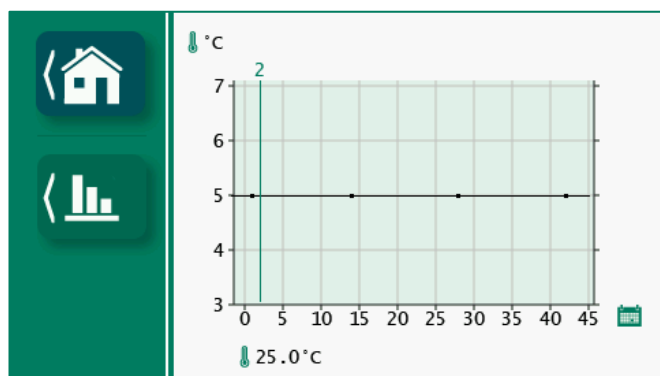


Maximum 'on' pulse duration (cycle time)



Cooling off above the set
relative humidity (RH)

Curve



Tap the graph to set the curve; a pop-up window with the settings will appear.

The graph is greyed out if the spray cooling curve is off or if all curves are off (see page 9)

The graph displays the current day number and the calculated temperature from the curve.

Settings pop-up



Growth curve on/off

#1



...

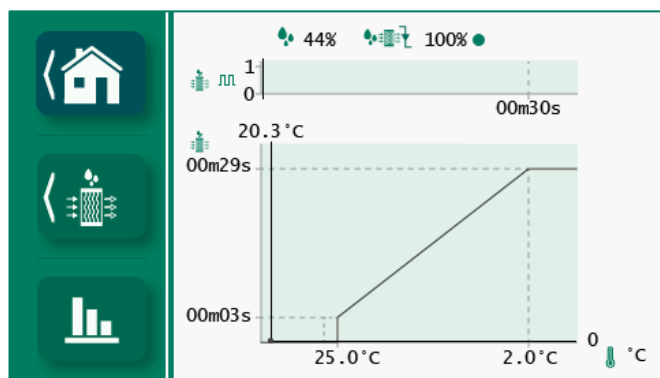
#4



Temperature¹
breakpoints 1 to 4

¹ Setting relative to the house temperature (see page 19).

13.2 Pad cooling



Current relative humidity (RH)



Cooling off when RH > setting



Duty-cycle ^(plus) ventilation on



Duty cycle ^(plus) ventilation off



Tunnel ventilation on



Tunnel ventilation off

Tap the grey area on the screen. A pop-up window with settings will appear.

Settings pop-up



On



Off



Setting relative to the house temperature
(see page 19)



Bandwidth



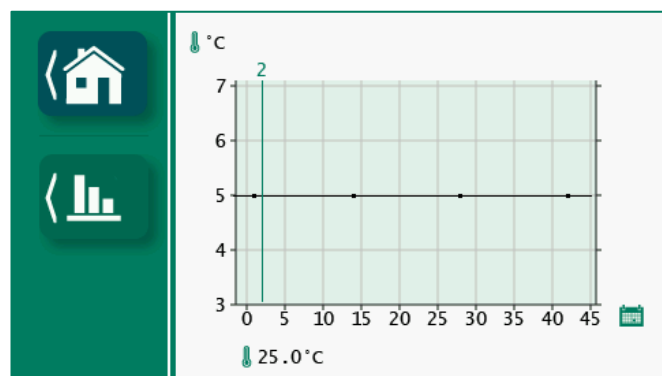
Minimum 'on' pulse duration



Maximum 'on' pulse duration (cycle time)

Cooling off above the set relative humidity
(RH)

Curve



Tap the graph to set the curve. A pop-up window with settings will appear.

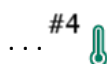
The graph is greyed out if the cooling curve is off or all curves are off (see page 12).

The graph shows the current day number and the temperature calculated from the curve

Settings pop-up



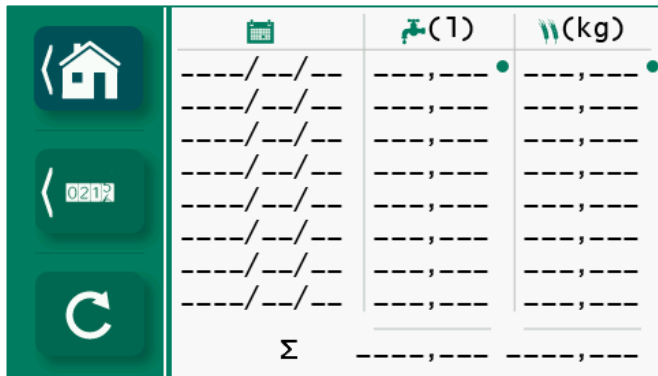
Growth curve on/off



Temperature¹
breakpoints 1 to 4

¹ Setting relative to the house temperature (see page 19).

14 Counters



Tap the grey area on the screen. A pop-up window with settings will appear.

Overview of today's counter readings and those from the past 7 days. You can change today's counter readings.



Back to overview screen



Back to previous screen



Reset all meter readings



Date



Water meter



Feed counter

Settings pop-up

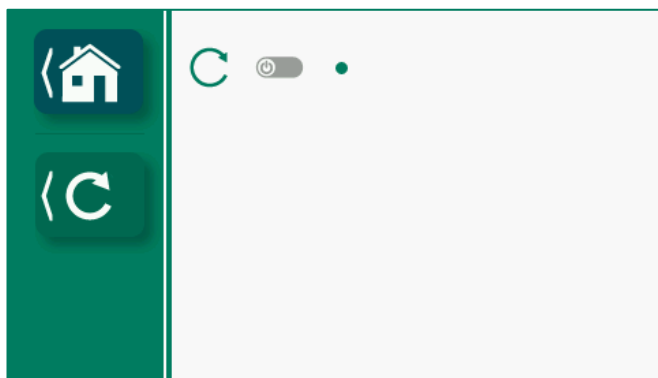


Today's water meter reading



Today's feed counter reading

14.1 Reset all meter readings



Tap the grey area on the screen. A pop-up window with settings will appear.

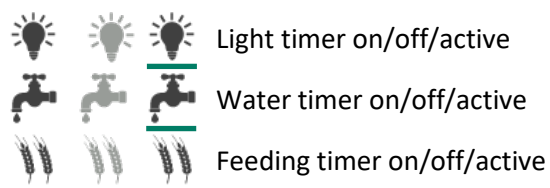
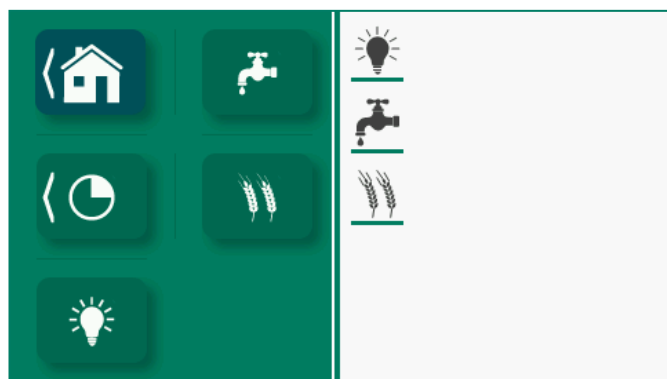
Settings pop-up



Reset all meter readings.

Once complete, the slider will be returned to the '⏻' position.

15 Timers



Back to overview screen



Back to previous screen



Light timer

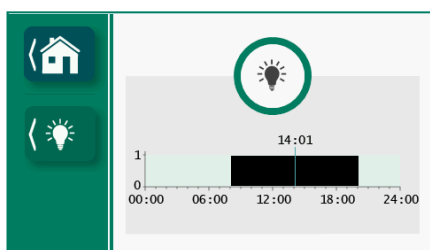


Water timer

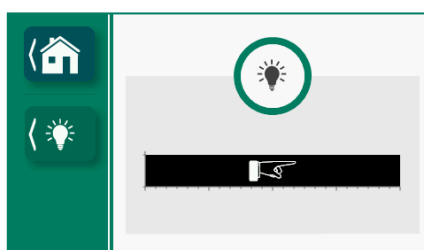


Feeding timer

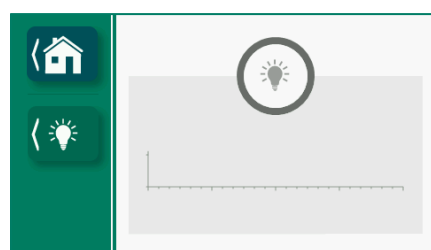
15.1 Setting the timer



This timer switch switches on automatically at the set times.



The timer switch is set to manual mode



The timer switch in question is switched off.

Settings pop-up



According to schedule/manual on/off



xx Number of periods (max. 24)



Period 1 on



Period 1 off

...



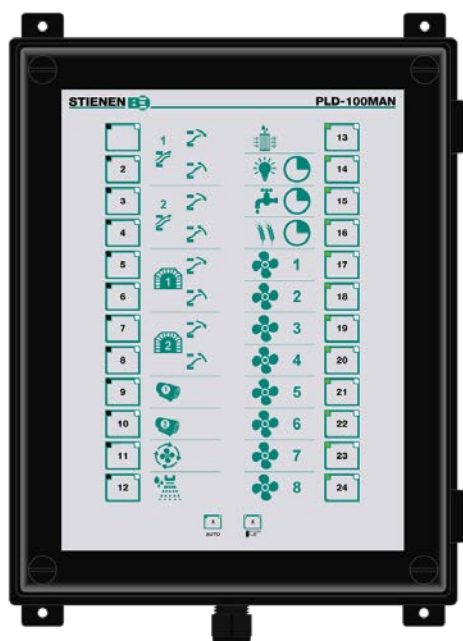
Period 24 on



Period 24 off

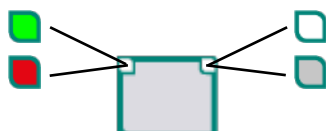
The water timer () and the feeding timer () are set in the same way as the light timer ()

16 Manual control PLD-100MAN



		Open		Air inlets, group 1		Pad cooling
		Closed		Air inlets, group 2		Light timer
		Open		Tunnel inlets, group 1		Water timer
		Closed		Tunnel inlets, group 2		Feed timer
		Open				Ventilation group 1
		Closed				Ventilation group 2
		Open				Ventilation Group 3
		Closed				Ventilation group 4
		Heating 1				Ventilation group 5
		Heating 2				Ventilation group 6
		Recirculation fan				Ventilation group 7
		Mist cooling				Ventilation group 8

Automatic
Manual



On (relay activated)
Off (relay deactivated)