KL-6500

MANAGEMENT COMPUTER





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1 General introduction

The manual is intended for the user of this device. It contains all the information necessary for operating and cleaning this product. Please read all information and instructions carefully before using the product.

Symbols mark warnings, important notes, tips, etc. in this manual.

Stienen has compiled this manual with all due care. If you find any errors, please let us know.

1.1 Symbols and definitions



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



Warning indicating danger to product, people and animals if procedures are not strictly complied with.



Warning indicating damage to products if procedures are not strictly complied with.



Pressure cleaning is not allowed.



Collect as separate flows



Important note



Additional information



Example of a concrete application of the functionality described.



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 data handy. You should also always write down the cause of a fault and the circumstances that occurred during the fault. This will enable you to avoid any ambiguities and it will enable your installer to deal with any faults quickly and effectively.

KL-6500-G-EN02000 1



2 Safety instructions and warnings

Read the general safety instructions in this chapter carefully before using the device. A certified installer must install the device and resolve any faults, in accordance with the applicable guidelines. If this product is installed and used in any other way, the warranty will not apply.

2.1 Sound, independent alarm system

Although we have designed and built our control equipment with the greatest care possible, technical faults can never be ruled out. Insurance requirements in many countries are becoming increasingly stringent. This requires the alarm contacts of the various control computers to be connected a central alarm unit.



We recommend also installing a sound independent alarm system, for example a min/max thermostat.



We advise you to manually test the alarm at least once a week.

2.2 During use

The people who operate the device have read the manual carefully. They are aware of potential hazards that may arise from improper use and maintenance of the product.



The device must only be opened by authorised personnel.



Do not switch off the control computer while the house is empty, but switch it to Off mode. This will prevent condensation caused by the equipment cooling down.



Check the device for any damage at regular intervals. A damaged device is unsafe. Always report any damage to your installer.



Electronic equipment is splash-proof and must not be cleaned using a pressure cleaner.



If any emergency has occurred, write down: the circumstances under which the emergency occurred, installation settings, software date, software version number and possible causes.

2.3 Disposal

The EU has set up systems for the separate collection of waste electrical and electronic equipment and batteries (Directive 20212/19/EU). If you do not dispose of the device properly, you risk a fine.



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

KLD-100-G-EN02000



3 Operation

3.1 Selecting the desired language

Available languages: ENG, NLD, DEU, FRA, RUS, POL, HUN, SPA, CES, TUR, ZHO, JAP

- \checkmark \checkmark \checkmark \triangle = to select next language
- √ √ √ ♥ = to select previous language

3.2 Logging in

- 1. Tap **1** to open login screen.
- 2. Tap to open numeric keypad.
- 3. Enter access code and confirm with ✓.

3.3 Overview of control keys



Return to overview screen (HOME)



0000

= select next/previous screen



= select position



= Select option





= to next/previous screen





= scroll up/down (the scrollbar is on the right side)

₩

If this symbol lights up, you can tap it. One of the following keyboards appears on the screen:

Numeric keyboard



The plus and minus keys can be used to enter positive and negative values.

Alphanumeric keyboard



- <> select previous or next character from character set
- switch between upper and lower case
- switch to numbers and alternative characters



001

Decrease/increase value of selected position

English Select an option from the drop down menu.



Cancel the selected option



Confirm the selected option



Add/remove a breakpoint to/from a list (curve, timer).



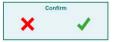
If a setting is followed by the symbol , tap it to jump to the next screen.

In the next screen you will see the symbol _ to return to the previous screen.

KLD-100-G-EN02000



3.4 Confirming a change



Some important settings have to be confirmed after changing. You will then see the left pop-up window.

3.5 LED bar



Blue, constantly on

Green, constantly on

Yellow, constantly on

Red, constantly on regularly flashing irregularly flashing ▲ Device out of operation

No alarm

Alarm, alarm delay time not yet expired

Alarm

Main alarm disabled Alarm temporarily disabled

3.6 Room bar



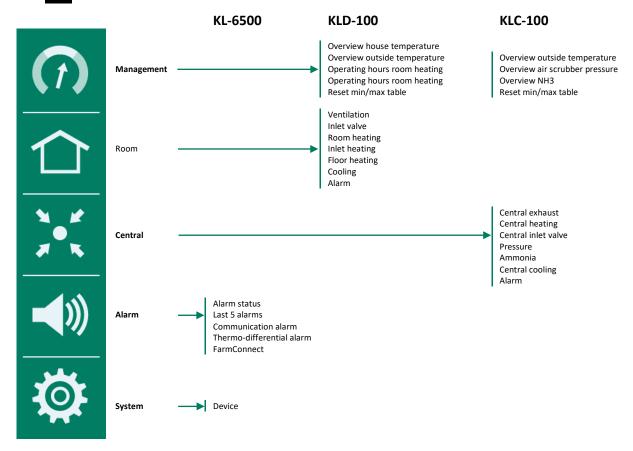
- Room is in operation, no alarm
- Alarm, alarm delay active
- Alarm, alarm relay active
- Room is out of operation
- General room status
- Room is out of operation
- Room is being cleaned
- Room is being warmed-up
- **|||** Heating in de room is on
- Room name
- Room address
- Room temperature
- Room ventilation
- Number of animals in the room
- Day number growth curve

3.7 Terminal numbering of inputs and outputs

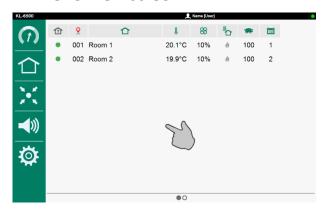
Letter	Input/output type	Description
Α	0-10V output	Analog output with a range of 0-10V or 10-0V
В	Relay output	Contact output of relay
K	Temperature sensor	Temperature sensors (N10B, BV10B etc.)
L	0-10V input	Analog input (0-10V)
М	Digital input	These include measuring fans, counter contacts etc.

KLD-100-G-EN02000





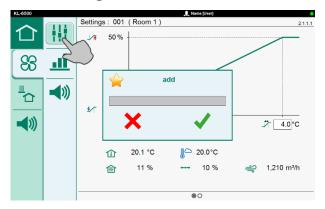
4.1 Overview screen



Tap anywhere on the grey part of the screen or (Home key, keyboard). The Main menu appears.



4.2 Adding menu item to favorites bar





- 1. Select the screen to be added to the favorites bar.
- 2. Touch the menu item icon until the Add screen appears.
- 3. Tap ✓ to add the menu item to the favorites bar.

4.3 Removing a menu item from the favorites bar





- 1. Touch the menu item option to be removed until the Delete window appears.
- 2. Tap ✓ to remove the menu item from the favorites bar.



5 Management

5.1 **CAN SELD-100** room computer



📷 Animal data



Day number curve



Current number of animals in the house



Min/Max table



Min/Max house temperature table



Min/Max outside temperature table



Room heating operating hours *



Inlet heating operating hours *



Floor heating operating hours *



Reset min/max value of today (of all room tables)

5.2 KLC-100 computer for central functions



Min/Max table



Min/Max outside temperature table



Central heating operating hours central *



Reset min/max value of today (of all pig house tables)

^{*} The operating hours can be deleted by setting the slider at *Delete operating hours* to 1.

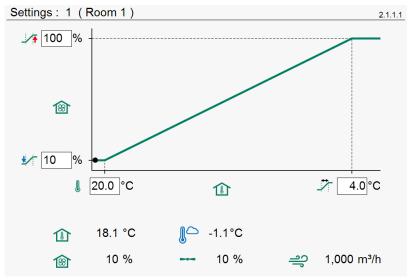
^{*} The operating hours can be deleted by setting the slider at *Delete operating hours* to 1.

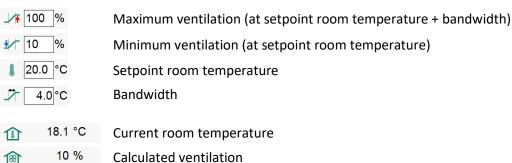


6 **KLD-100** room computer

6.1 S Room ventilation

Settings





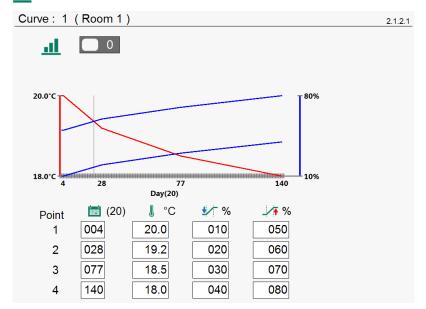
Current ventilation

Current outside temperature

1,000 m³/h Current ventilation capacity



Growth curve



Growth curve OFF
Growth curve ON

Point Breakpoint (max. 7 breakpoints

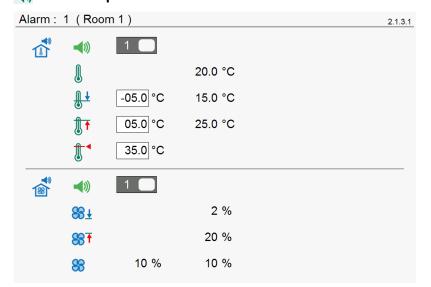
Day number of the breakpoints (the current day number is shown in brackets)

Room temperature

Minimum ventilation

Maximum ventilation

Room temperature and ventilation alarm



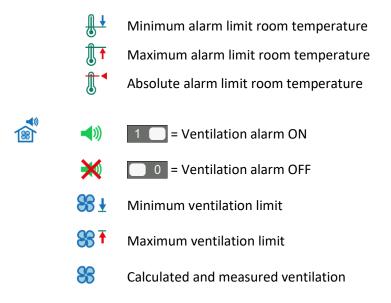


■ Room temperature alarm ON

= Room temperature alarm OFF

Current room temperature alarm

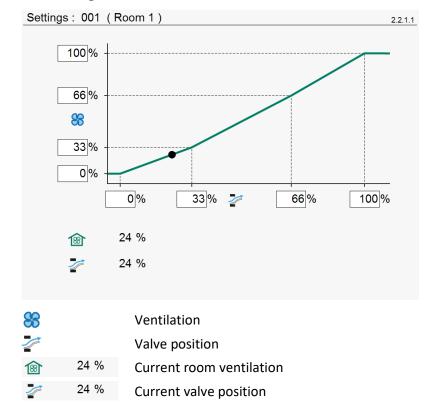




Alarm codes see section 8.6, page 34.

6.2 **Inlet valve**

Settings



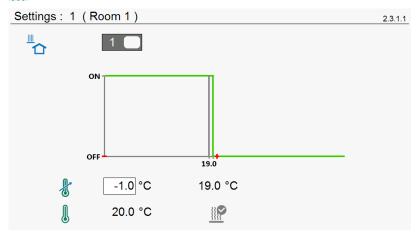
The valve regulates on the basis of ventilation. Under normal conditions, the air inlet opening is directly proportional to the valve position in %. The airflow through this valve is not directly proportional to the valve position. The characteristic curve allows a better relationship between valve position and air flow.

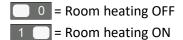


6.3 <u>M</u> Heating

Room heating

Settings





	-1.0 °C	19.0 °C
8	<u>li.</u>	19.0 °C
	18.5 °C	<u></u>
	20.0 °C	<u> </u>
	18.5 °C	25 %
	20.6 °C	<u></u> ₩ ? 0 %

Room heating temperature setpoint

(differential temperature relative to room temperature setpoint, see screen 2.1.1.x page 8)

Calculated room heating temperature

Calculated room heating temperature from curve

Current room temperature

Room heating status: ON (ON/OFF heating)

Current room temperature.

Room heating status: OFF (ON/OFF heating)

Current room temperature.

Room heating status: ON

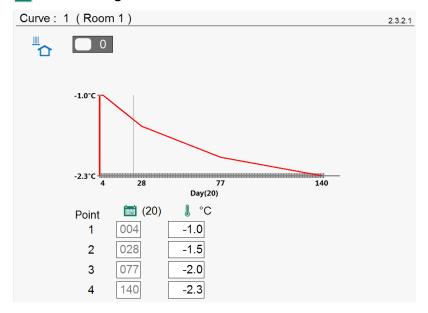
Current room heating position (%) (controlled heating)

Current room temperature. Room heating status: OFF

Current room heating position (%) (controlled heating)



In Room heating curve



= Growth curve OFF

= Growth curve ON

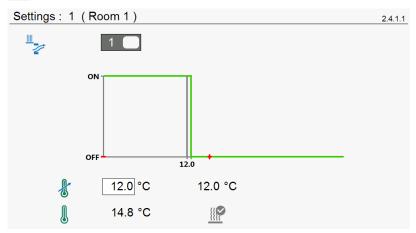
Point Breakpoint (maximum 7 breakpoints)

Day number of breakpoint (the current day number is shown in brackets)

Room temperature

Inlet heating

Settings



B	12.0 °C	12.0 °C	
	<u>lı.</u>	11.9 °C	
	11.0 °C	<u></u>	
	14.8 °C		
	11.0 °C	<u>₩</u> 50 9	%

Inlet heater temperature setpoint Calculated inlet heating temperature

Calculated inlet heating temperature from curve

Current inlet temperature

Inlet heating status: ON (ON/OFF heating)

Current inlet temperature

Inlet heating status: OFF (ON/OFF heating)

Current inlet temperature



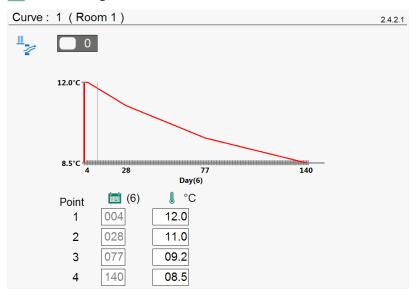
 Inlet heating status: ON

Current inlet heating position (%) (regulated heating)

Current inlet temperature Inlet heating status: OFF

Current inlet heating position (%) (regulated heating)

Inlet heating curve



= Growth curve OFF

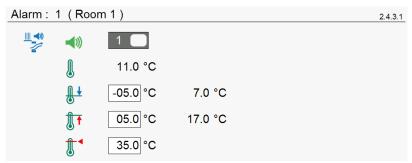
1 = Growth curve ON

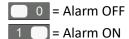
Point Breakpoint (maximum 7 breakpoints)

Day number of the kink point (the current day number is shown in brackets)

Inlet temperature

📢 Intake heater alarm







Actual temperature of inlet heating

Minimum alarm limit inlet heating

(Difference temperature compared to set room temperature, see screen 2.1.1.x page 8)

Maximum alarm limit inlet heating *

(Difference temperature compared to set room temperature, see screen 2.1.1.x page 8)

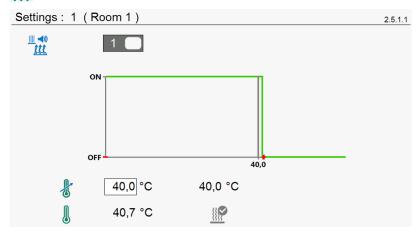
Absolute alarm limit inlet heating



* Due to outdoor temperature compensations, the calculated alarm limit may differ.

Floor heating

Settings



0 = Floor heating OFF

1 = Floor heating ON

8	40.0 °C		40.0 °C
	<u>li.</u>		40.0 °C
	38.7 °C	<u> </u>	
	40.7 °C	<u></u>	
	38.7 °C		26 %
	40.7 °C		0 %

Set temperature floor heating Calculated temperature floor heating

Calculated temperature floor heating off curve

Current floor temperature

Floor heating status: ON $(ON/OFF\ heating)$

Current floor temperature

Status floor heating: OFF (ON/OFF heating)

Current floor temperature Status floor heating: ON

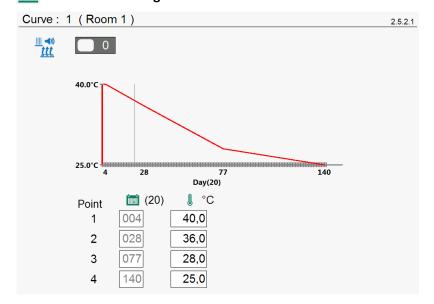
Actual fire strength of underfloor heating (regulated heating)

Current floor temperature Status floor heating: OFF

Actual fire strength of underfloor heating (regulated heating)



La Curve floor heating



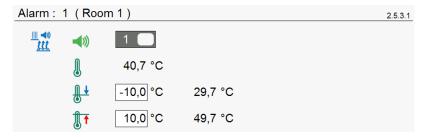
0 = Growth curve OFF 1 = Growth curve ON

Point Breakpoint (maximum 7 breakpoints)

Day number of breakpoint (the current day number is shown in brackets)

Inlet temperature

Floor heating alarm



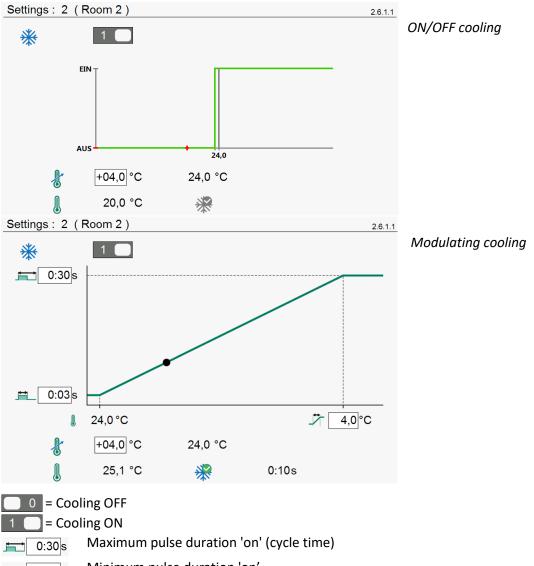
0 = Alarm OFF 1 = Alarm ON





6.4 * Cooling

Settings



0:30s Maximum pulse duration 'on' (cycle

0:03s Minimum pulse duration 'on'

4,0°C Bandwidth

+04.0°C 24.0°C Coo

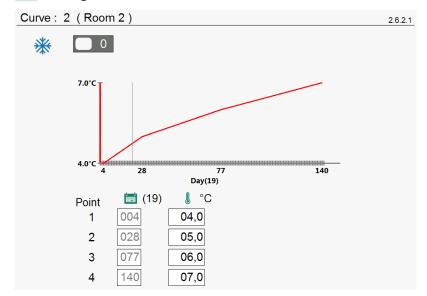
+04.0 °C	24.0 °C	
<u>.al</u>	24.0 °C	
25.1 °C	*	
23.5 °C	*	
25.1 °C	*	0:10s
23.5 °C	*	0:00s

Cooling temperature setpoint
Calculated cooling temperature
Calculated cooling temperature from curve
Current cooling temperature
Cooling status: ON (ON/OFF cooling)
Current cooling temperature
Cooling status: OFF (ON/OFF cooling)
Current cooling temperature
Cooling status: ON
Current cooling duty cycle (controlled cooling)
Current cooling temperature

Cooling status: OFF
Current cooling duty cycle (controlled cooling)



L Cooling curve



0 = Growth curve OFF 1 = Growth curve ON

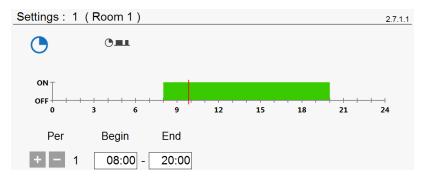
Item Breakpoint (maximum 7 breakpoints)

Day number of breakpoint (the current day number is shown in brackets)

Cooling temperature (differential temperature relative to the room temperature setpoint, see screen 2.1.1.x page 8)

6.5 • Timer

Settings



You can set up to 24 periods.

Timer is active based on the set periods

Timer manually enabled

0 Timer disabled

+ Add period

Delete period

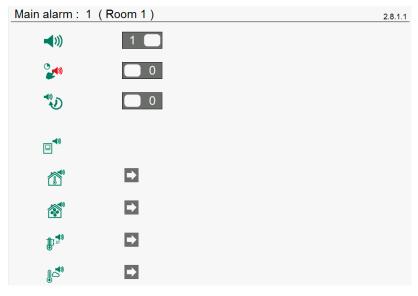
Start Start time period

End End time period



6.6 **4**) Alarm

Main alarm (settings)

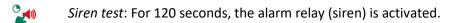




If you change the status of the main alarm, you have to confirm the change once again via a pop-up window.

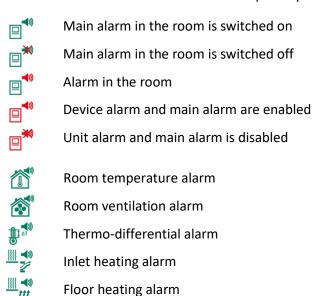


When the main alarm is disabled, the LED bar flashes red regularly. No more alarms will be issued.



Temporarily deactivate alarm (siren): The main alarm is switched off for 30 minutes. The LED bar flashes irregularly. After 30 minutes the main alarm will be switched on again automatically. If the cause of the alarm is not resolved, the alarm relay will activate again (alarm).

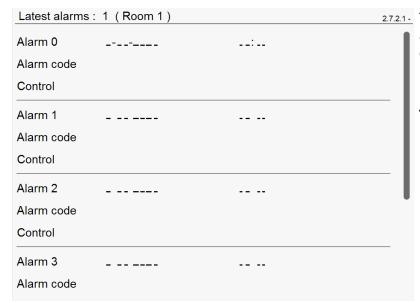
Hardware alarms cannot be temporarily disabled.



Outside temperature alarm



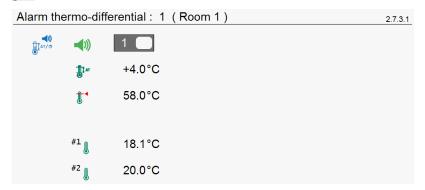
Latest alarmes



The alarm history shows the last five alarm situations (with corresponding date and time) that caused the alarm relay to energize.

Alarm 0 is the most recent alarm.

Thermo-differential alarm



Every minute the temperature is measured by the sensor concerned and compared to the previous measurement. An alarm is given when:

- the temperature rise is equal to or greater than the relative alarm limit setpoint;
- the temperature measured by a sensor is above the absolute limit.

If the measurement is within its limits, the previous measurement is made equal to the current one. The temperature monitoring alarm will only occur if there is a positive difference.

If you turn the temperature monitoring alarm OFF, the current temperature reading is cleared and the alarm is automatically turned on.

Outdoor temperature



2.7.4.1 If the climate controller has its own outside temperature sensor, you can turn the outside temperature alarm ON and OFF.

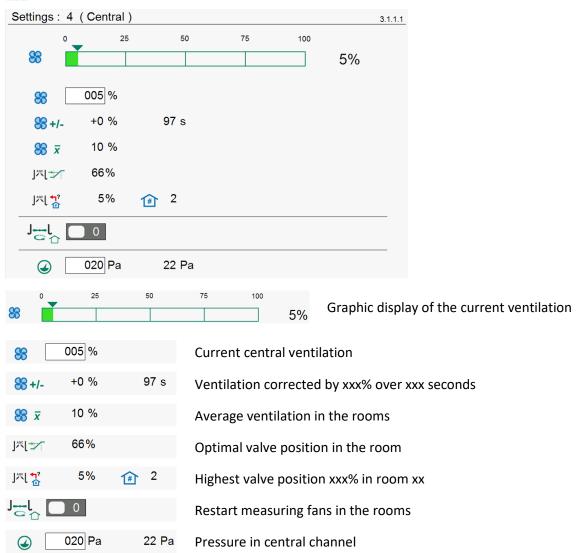
-99,9°C = Outside temperature sensor defective ???.?°C = Invalid outside temperature



7 KLC-100 computer for central functions

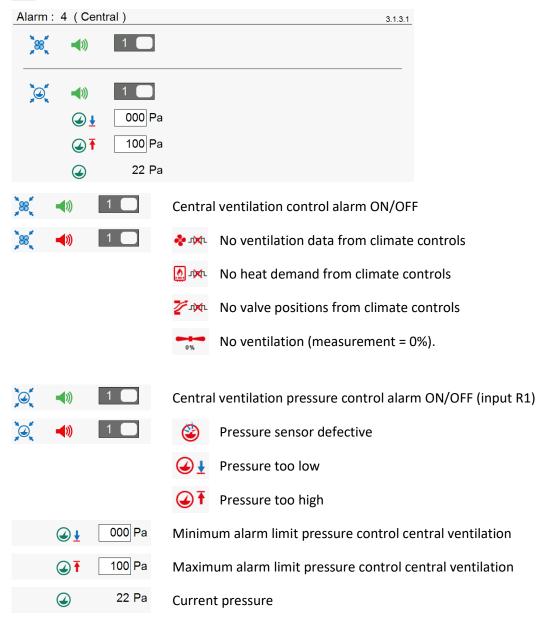
7.1 X Central ventilation







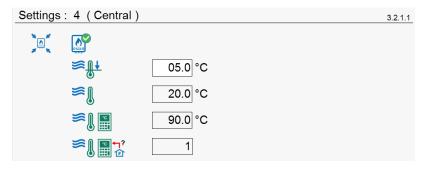


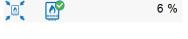




7.2 Central Heating







Central heating status: ON

Actual central heating position (%) (controlled heating)

◎ 05.0 °C

Minimum heat demand (frost protection). If the temperature in the rooms (which transmit the heat demand to this boiler) drops below the minimum heat demand setpoint, the central heating boiler switches on.

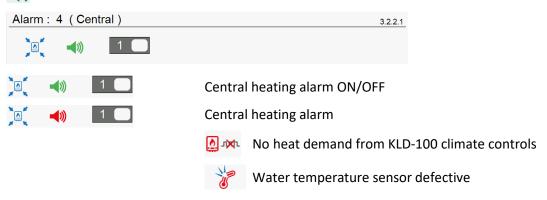


Current water temperature

Calculated water temperature

Room with the highest heat demand

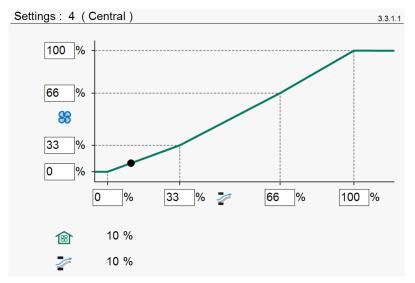




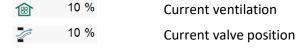


7.3 **Central inlet valve**

Settings



The valve control is based on ventilation. Under normal conditions, the air inlet is directly proportional to the valve position (%). However, the airflow through this valve is not directly proportional to the valve position. The characteristic curve allows a better relation between valve position and air flow.







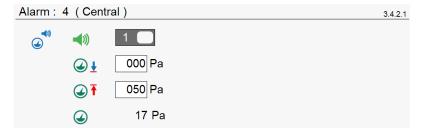


7.4 Pressure measurement



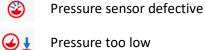


Alarm





Alarm pressure measurement turned OFF







Minimum alarm limit pressure control central ventilation

Maximum alarm limit pressure control central ventilation

Current pressure

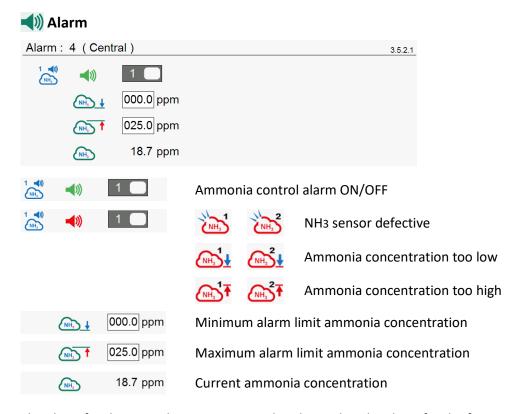


7.5 NH₃





The current value of the second ammonia sensor is displayed in the same way.

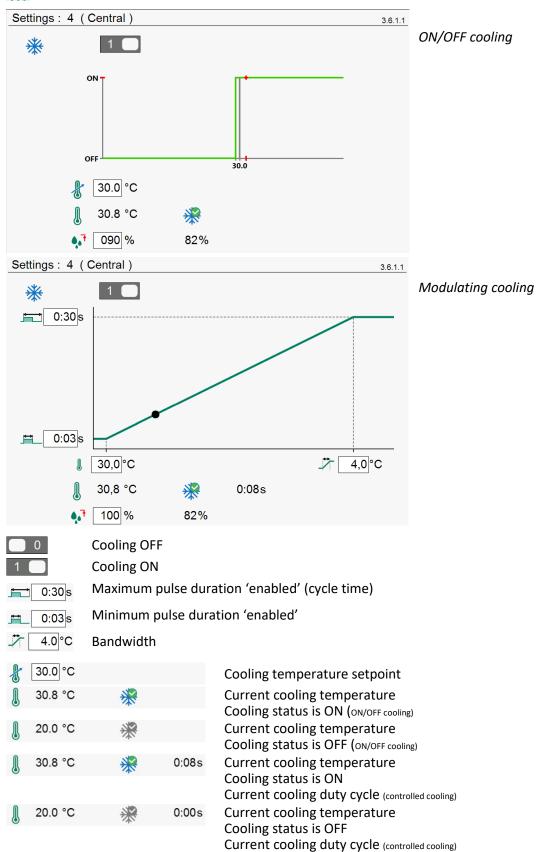


The alarm for the second ammonia control is identical to the alarm for the first ammonia control.

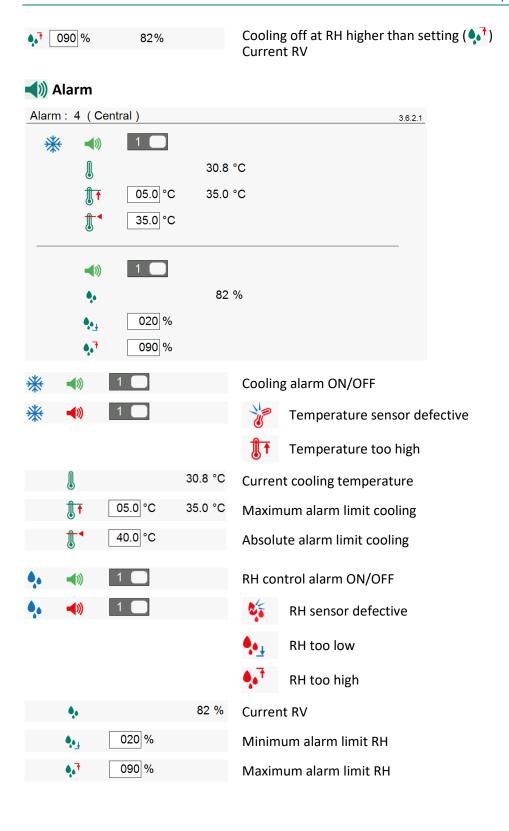


7.6 * Cooling

Settings

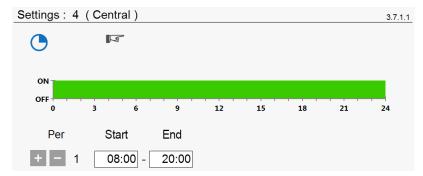








7.7 • Timer



You can set up to 24 periods.

Timer runs according to set periods
Timer is manually activated
Timer is turned OFF
Add period
Delete period
Start Start time period

End time period

7.8 **4**) Alarm

Settings

End



Main alarm enabledMain alarm disabled

If the main alarm is switched off, the LED bar flashes red regularly. No more alarms will be issued.

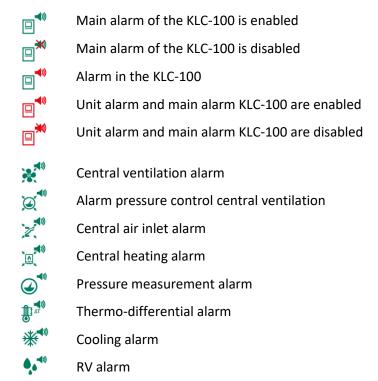


Siren test: The alarm relay (siren) is turned on for 120 seconds.

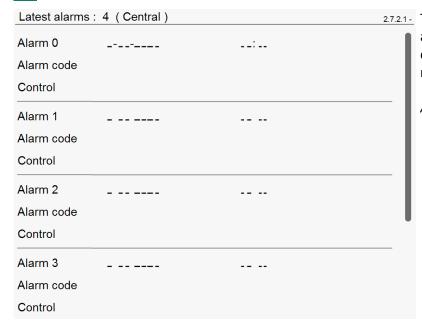


Temporarily deactivate alarm (siren): The main alarm is switched off for 30 minutes The LED bar flashes irregularly. After 30 minutes the main alarm will be switched on again automatically. If the cause of the alarm is not resolved, the alarm relay will energize again (alarm).





Latest alarmes

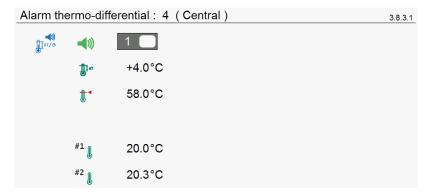


The alarm history shows the last five alarm situations (with corresponding date and time) that caused the alarm relay to energize.

Alarm 0 is the most recent alarm.



Thermo-differential alarm



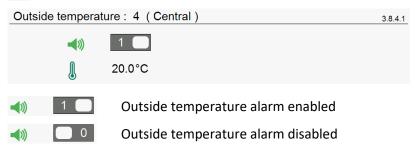
Every minute the temperature is measured by the sensor concerned and compared to the previous measurement. An alarm is given when:

- the temperature rise is equal to or greater than the relative alarm limit setpoint (**);
- the temperature measured by a sensor is above the absolute limit (1).

If the measurement is within its limits, the previous measurement is made equal to the current one. The temperature monitoring alarm will only occur if there is a positive difference.

If you turn the temperature monitoring alarm OFF, the current temperature reading is cleared and the alarm is automatically turned on.

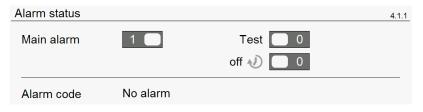
₿ Outside temperature alarm





8 (a) Alarm

8.1 His Settings



 $Main \ alarm \qquad \qquad 1 \quad \blacksquare \quad = \mathsf{ON} \quad \boxed{\quad } \quad \mathsf{0} \quad = \mathsf{OFF}$

Test Set the slider to 1 (ON) to activate the alarm relay (siren) for 120 seconds.

Set the slider to (OFF) to clear the alarm test time.

off 1 (ON) to temporarily disable the main alarm (siren) for 30

minutes. Hardware alarms cannot be disabled.

After 30 minutes, the main alarm is automatically reactivated. If the cause of the alarm situation is not eliminated, the alarm relay will energize again (alarm).

Set the slider to 0 (OFF) to clear the delay time.

Alarm code Display cause and control of the alarm. The terminal number or the address may

also appear here.

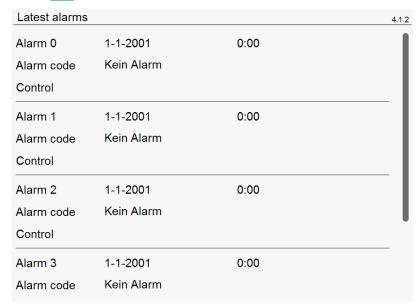
Alarm external device There is an alarm at an external device (KLD-100 or KLC-100). Behind this text you

see the address of the device concerned.



Remember to turn the alarm back ON after troubleshooting. Preferably use the function to clear a fault 0 .





The alarm history shows the last five alarm situations (with corresponding date and time) that caused the alarm relay to energize.

Alarm 0 is the most recent alarm.

8.3 Communication alarm



Here you can switch the communication alarm on and off.

Alarm Switching the communication alarm ON and OFF.

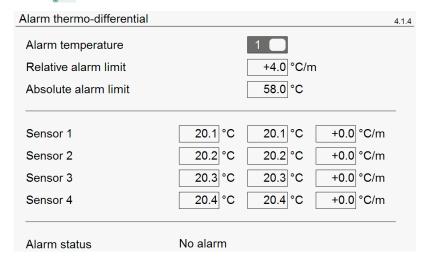
1 = ON 0 = OFF

Device address The address from which the main station did not receive data.

Alarm status The current alarm code.



8.4 Thermo-differential alarm



The thermo differential alarm can consist of up to 10 sensors.

Every minute the temperature is measured by the sensor concerned and compared to the previous measurement. An alarm is given when:

- the temperature rise is equal to or greater than the relative alarm limit setpoint (#);
- the temperature measured by a sensor is above the absolute limit (1).

If the measurement is within its limits, the previous measurement is made equal to the current one. The temperature monitoring alarm will only occur if there is a positive difference.

If you turn the thermo-differential alarm OFF, the current temperature reading is cleared and the thermo-differential alarm is automatically turned on.

The thermo differential alarm occurs only when there is a positive difference.



Alarm FarmConnect Switching the FarmConnect alarms ON and OFF

Time no data

If no data transfer between the KL-6500 and FarmConnect takes place during the

set time (default 75 minutes), an alarm is generated.



8.6 Alarm codes



Module 0 not found



Module not found



Jumper A on RTCPU is in the lower position. Move this jumper to the upper position. If you do not, the changes will not be saved.



Communication error between the devices



Communication error with WEB-485 (FarmConnect)



No ventilation data from the rooms (central ventilation)



No valve positions of the wards (central valve)



No heat demand from the rooms (central heating)



No outside temperature received via communication



No ventilation (measurement = 0%)



Unknown ventilation capacity



No communication with Danfoss controller



Ventilation too low



Ventilation too high



No outside temperature sensor



Temperature sensor defective



Temperature sensor 1 defective



Temperature sensor 2 defective



Temperature sensor 3 defective



Pressure sensor defective



NH₃ sensor 1 defective



NH₃ sensor 2 defective



Temperature too low



Temperature too high





Measured temperature difference sensor 1 too large within a minute



Measured temperature difference sensor 2 too large within a minute



Measured temperature difference sensor 3 too large within a minute



Pressure too low



Pressure too high



NH₃ sensor 1 too low



NH₃ sensor 1 too high



NH₃ sensor 2 too low



NH₃ sensor 2 too high



RH sensor defective



RH too low



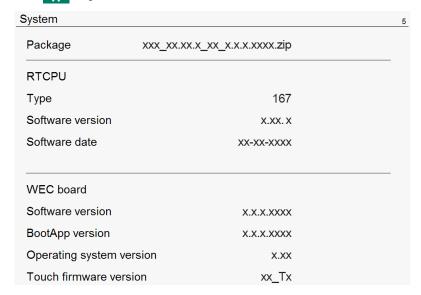
RH too high



If no icon is linked to the alarm code, the alarm code will appear in a red square. Report this alarm situation to your supplier to prevent it from appearing again in the future.



9 🔯 System



Package The package number of the compressed software files

RTCPU

Type Device type number (167 = KL-6500)

Software version Program version of the embedded software (RTCPU processor board)

Software date Program date of the embedded software

WEC board

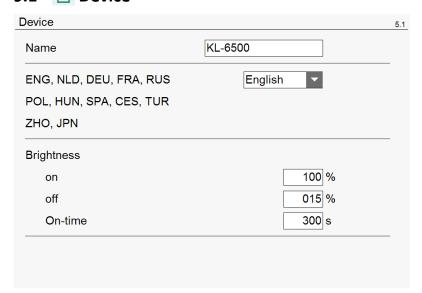
Software version Program version of the WEC board software (GuiApp)

BootApp version Program version of the BootApp software

Operating system version Program version of the GuiApp operating software

Touch firmware version Program version of the touch firmware software

9.1 Device



In this screen you can change the device name and the displayed language, among other things.



Brightness

on Brightness (%) of the backlight during the On-time.

off Brightness (%) of the backlight after the *On-time* has elapsed.

On-time Number of seconds that the backlight continues to illuminate after the last

button press in the brightness percentage of the ON position.

O seconds = the backlight does not switch off. The On-time for the remote

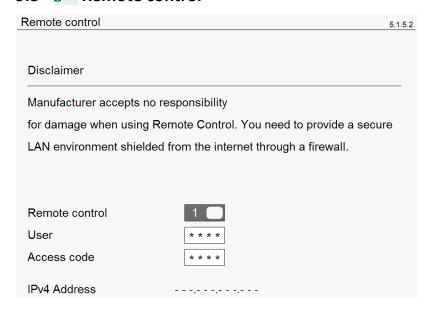
control is set to 300 seconds.

9.2 Date/Time



Setting the date and time.

9.3 Remote control

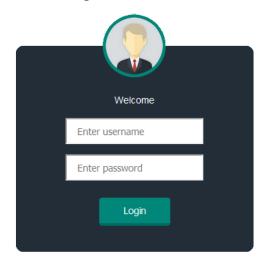


If the KL-6500 is connected to a network and you have entered the codes, an IP address (IPv4 Address) is automatically assigned to the controller. This IP address is needed to connect to the device via the browser.

- 1. Set the *Remote Control* slider to the position 1
- 2. Enter a user code (not 0000).
- 3. Enter an access code (not 0000).
- 4. Write down the IP address.



Remote login



- 1. Open the Internet browser.
- 2. Enter the IP address in the address bar and press ENTER.



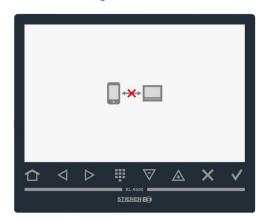
- 3. Press the TAB key.
- 4. Enter the user name and press the TAB key.
- 5. Enter the password and press the TAB key.
- 6. Press the ENTER key (Login).



- 7. The icon ————appears at the top of the status bar to indicate that the device is being remotely controlled.
- 8. If you operate the device locally, the remote connection is disabled and you can only see what is being changed remotely. The coloured icon (☐ ← → ☐) changes to grey: ☐ ← ☐.
- If the device is operated locally (grey icon ☐ ← ► ☐) and you click with the mouse on one of the fields (keys), the system will automatically log off. You must then log on again.

The input fields and icons are only accessible via the mouse (not via the keyboard).

Automatic logout



If no action is taken during the *ON-time* (default 5 minutes), the device will automatically log off after the *ON-time* has elapsed.

Each time an action occurs, the timer restarts the ON-time.



FarmConnect	5.1.7.1
Connected to Ethernet	yes
Connected to FarmConnect	yes
Connected to devices	yes
Data Transfer	yes
System up time	_ days::_
Connection up time	_ days _::_
Reconnections FarmConnect	-
FarmConnect messages received	
FarmConnect messages sent	

Connected to Ethernet Yes = KL-6500 is currently connected to Ethernet.

Connected with FarmConnect Yes = KL-6500 is currently connected to the FarmConnect server.

Connected to devices Yes = Data transfer is taking place between the KL-6500 management

computer and the KLD-100 room computer and/or KLC-100 computer

for central functions.

Data transfer Yes = Data transfer is taking place between the KL-6500 management

computer and FarmConnect.

System in operation The total time in days and hh:mm:ss that FarmConnect has been

active since the last reset (or power failure).

Connection time The duration of the current connection to FarmConnect in days and

hh:mm:ss since the last reset (or power failure).

Reconnections FarmConnect The total number of successful connections to FarmConnect since the

last reset (or power failure).

Receiving FarmConnect messages The number of messages received from the FarmConnect server.

9.5 Logging in and logging out

