STIENEN
AGRI AUTOMATION

# PEC-9400 / PEC-9400-i

## Egg conveyor controller with egg counting




User manual

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# Disclaimer

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# 1 About this manual

## 1.1 General

This manual is intended for users of this device. It contains all the information required to operate and clean the product. Please read all information and instructions carefully before using the product. Warnings, important notes, tips and other information are indicated by symbols throughout this manual.

This manual has been compiled with the utmost care. If you find any errors or omissions, please inform us.

## 1.2 List of symbol definitions


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


Warning indicating a risk to the product, people and animals if the instructions are not followed carefully.


Warning indicating a risk of damage to the product if the instructions are not followed carefully.


Cleaning with a high-pressure washer is not permitted.


Separate collection


Important note


Additional information


Example of a specific application of the described functionality.


Calculation example


Manual operation


Tips and advice


Screenshot


Application note

## 1.3 Customer service

If you have any questions, please contact your installer. Make sure you have all the necessary information to hand. Always note the cause of the fault and the circumstances under which it occurred. This will help prevent confusion and enable your installer to resolve the fault quickly and effectively.

# 2 Safety instructions and warnings

## 2.1 General

Please read the general safety instructions in this chapter carefully before using the device. The installation of the device and the rectification of any faults must be carried out by a qualified installer in accordance with the applicable regulations. If this product is installed or used in any other way, the warranty will be void.

## 2.2 A sound, independent alarm system



Although the system has been carefully designed, a technical fault may still occur. It is therefore often necessary to connect alarm contacts or to use the RS-485 connection to a central alarm unit. Install an independent alarm device, for example one fitted with a minimum/maximum thermostat, and test the alarm at least once a week.

## 2.3 During use

Users of the device must have read the manual carefully. They must be aware of the potential hazards that may arise from incorrect use or maintenance of the product.



The unit must only be opened by authorised personnel.



When the unit is not in use, it is preferable not to switch off the control unit, but to set it to *Out of Service'* mode. This prevents unnecessary alarms, communication faults and condensation caused by cooling.



Check the unit regularly for any damage. A damaged unit is unsafe. Always report any damage to your installer.



Electronic equipment is splash-resistant and must not be cleaned with running water.



In the event of any incidents, note the following: the circumstances under which the incident occurred, system settings, software date, software version, and any possible causes.

## 2.4 Disposal

The EU has established systems for the separate collection of end-of-life electrical and electronic equipment and batteries (Directive 2012/19/EU). If you do not dispose of the device correctly, you risk a fine.



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

# 3 Introduction

## 3.1 Intended use

A constant supply of eggs is important for making optimum use of the egg packing machine's capacity. The egg collection system plays a key role in this. The PEC-9400 egg conveyor controller regulates and monitors the flow of eggs and ensures that they are carefully transported to the egg packing machine at the highest possible speed.

Where necessary, the PEC-9400 adjusts the speed of the egg conveyor to match the egg supply to the available packing capacity. It can use the collection data from the previous day for this purpose. This minimises packing times without damaging the eggs.

The PEC-9400 is suitable for installations with up to 10 tiers and 24 rows per tier, and thus supports up to 240 egg counters.

The PEC-9400 itself has no inputs or outputs. If inputs and outputs are required, the egg conveyor controller can be expanded with the necessary I/O modules.

In addition, the PEC-9400 features a vacuum cleaner control system and an egg protection control system (Egg Saver). These functions support efficient, gentle egg collection.

! Occasionally, the software version of a module may not meet the requirements of the control software. In that case, you must update the module software.

## 3.2 Egg counting function

The PEC-9400 also features an egg counting function. This accurately records the total number of eggs collected from each row and tier, giving you a complete overview of egg production.

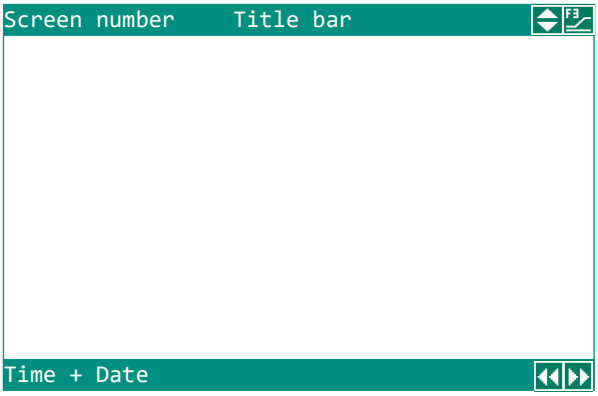
The optional reverse detection function prevents a reversing egg belt from causing counting inaccuracies. This allows you to monitor the entire process and track egg production accurately.

## 3.3 PEC-Master

The PEC-Master controls the individual PEC-9400 units, ensuring that eggs from multiple houses are transported sequentially and efficiently to the packing machine. The PEC-Master takes into account the packing machine's available capacity and ensures that the packing machine operates as efficiently as possible and continuously at maximum capacity.

# 4 Operation

## 4.1 Display and keypad



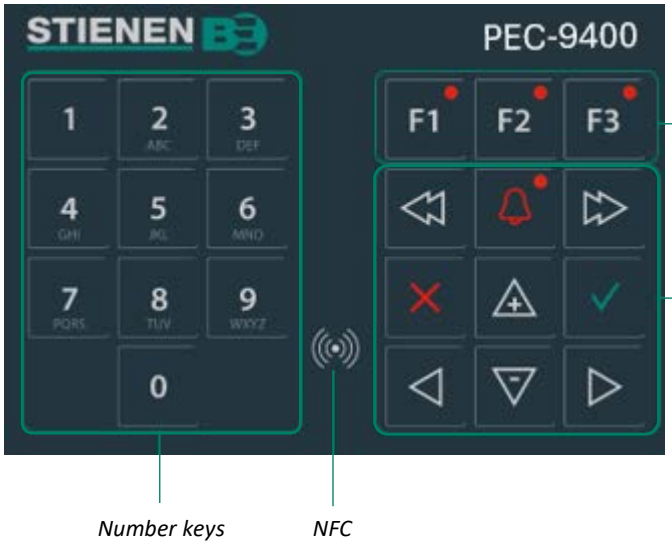

Indicates that the remaining settings and measurements can be accessed via .

Indicates that the remaining settings and measurements can be accessed via .

Indicates that you can view the settings graphically using the F3 function key. The dot (•) in the graph represents the calculated value. Press F3 again to close the graphical display.

Indicates that you can use to select the next or previous screen.

## 4.2 Keyboard




Do not use sharp objects, such as a pen or a screwdriver, to operate the keys.

### 4.2.1 Function keys F1, F2 and F3

Select the next language.

Select the previous language.

Press and hold F1 while pressing the right or left arrow key to select the next or previous language.

F2 Check the status of the egg conveyor control system.

F3 If the symbol appears in the title bar and you press function key F3, the settings are displayed graphically (the LED on function key F3 lights up). Press F3 again to close the graphical display (the LED on function key F3 goes out).

The graph values are linked to the screen from which the graph was generated. When you change the data on the screen, the graph is automatically updated.

### 4.2.2 Numeric keys (0–9)

Use these keys to enter menu numbers, values and text. Press 0 to select menu item 10.

| Key | Character |
|---|---|
| 0 | _0 |
| 1 | .,1'-:+ |
| 2 | abcäáàâç2ABCÄÁÀÂÇ |
| 3 | defëéèê3DEFËÉÈÊ |
| 4 | ghiïíîì4GHIÏÍÎÌ |
| 5 | jkl5JKL |
| 6 | mnoöóòô6MNOÖÓÒÔ |
| 7 | pqrs7PQRS |
| 8 | tuvüúùû8TUVÜÚÙÛ |
| 9 | wxyz9WXYZ |

**Text entry**

Use the keys 2 - 9 to change the name (max. 15 characters, including spaces) of a component, timer, counter, external alarm, etc. The character appears in a small box. Press the number key repeatedly until the desired character appears.

0 = Insert a space.

1 = Press repeatedly to insert punctuation marks.

2 = Insert letters: press once for a, twice for b, etc.

◁ / ▷ = Move the text cursor to the left or right

### 4.2.3 Navigation keys

◁ ▷ Press and hold in control and edit mode to move the cursor left or right.

△ ▽ In control mode, move the cursor up or down.
In edit mode, increase or decrease the value.

⏩ ⏪ In control mode, select the next or previous screen.

### 4.2.4 Other keys

✓ Confirm the menu selection, enter edit mode, and confirm changes.

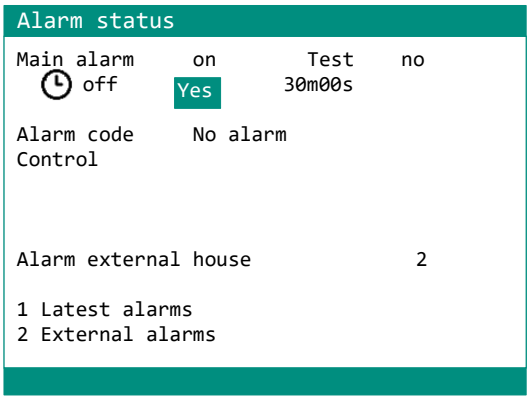
✗ Cancel a menu selection or change. Press and hold to return to the main menu.

Shortcut key to the alarm screen.

## 4.3 Alarm button



Shortcut key for the alarm screen. The LED in the alarm button lights up when an alarm situation occurs in one of the control systems.




Here you can switch the main alarm on or off. If the main alarm is off, the LED in the alarm button flashes continuously. No further alarms will be triggered. If an alarm situation occurs in one of the control systems, the LED in the alarm button will light up.

You cannot disable installation errors.

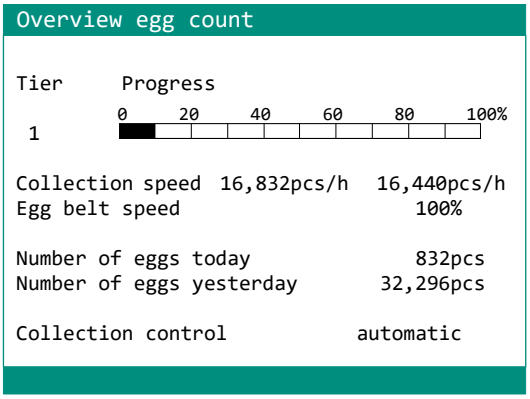
| | |
|---|---|
| *Test* | Option for testing the operation of the alarm relay (siren). If you set Test to Yes, the alarm relay (siren) will be activated for 10 seconds.<br>You can reset the alarm test timer by setting *Test* to No. |
| *Off* | Option to temporarily disable the alarm (siren). This does not apply to hardware alarms. The main alarm is disabled for 30 minutes, and the LED flashes intermittently. After 30 minutes, the main alarm is automatically reactivated. If the cause of the alarm has not been rectified, the alarm relay will be activated again.<br>You can cancel the alarm delay time by setting to *No*. |
| *Alarm code* | Code indicating the cause of the alarm. |
| *Control* | The fault relates to this control. |
| *'Terminal + control'* | Terminal number plus, where applicable, the number of a second control to which the alarm relates. |
| *Alarm external house* | If a message is received via the communication loop indicating that the alarm relay of a connected controller has been activated, the relevant house number will be displayed under Alarm *external house*. |

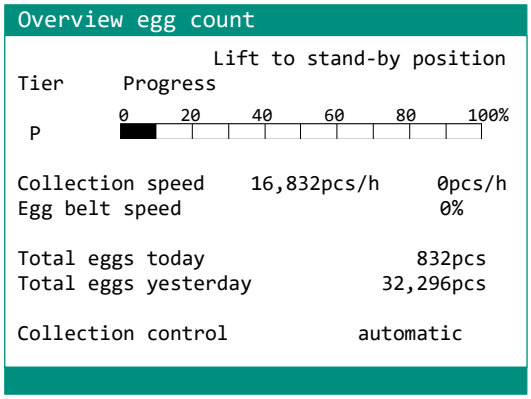
You can only deactivate the main alarm if no access code has been set or after you have entered the correct access code.

Once the fault has been rectified, remember to switch the alarm back on. Preferably, use the function to rectify the fault.

Always rectify installation errors, such as *Output already assigned, Incorrect output type, Input already assigned* and similar errors before putting the system into operation.

# 5 Overview screen

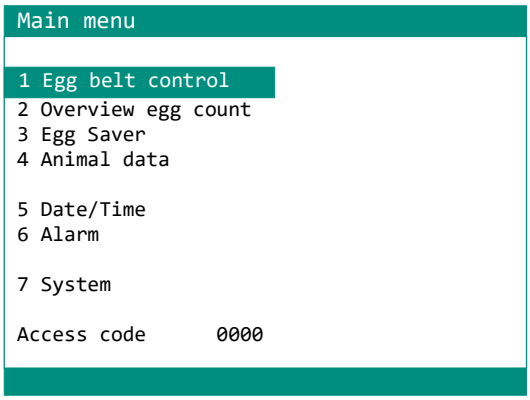


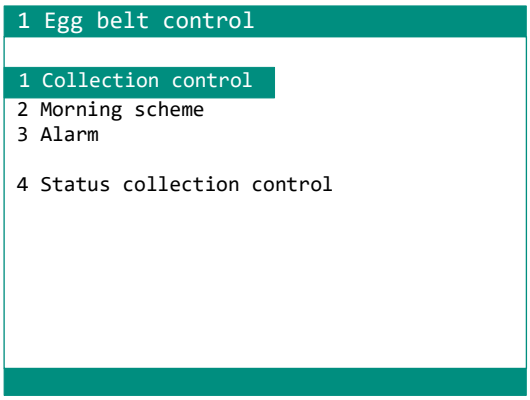

| | |
|---|---|
| *Lift to stand-by position* | Displays the current process status. In the example above: *Lift to stand-by position*. Possible actions:<br>▪ Waiting for farmpacker<br>▪ Waiting for tier<br>▪ Delay counters<br>▪ Morning scheme<br>▪ Lift to stand-by position<br>▪ Lift in stand-by position |
| *Tier* | Displays the lift's current tier. The letter P indicates that the lift is moving to the stand-by position or is currently in the stand-by position. |
| *Progress* | Displays the collection progress (%) for this tier. |
| *Collection speed* | Displays the target collection speed (left) and current collection speed (right) on this level. |
| *Egg belt speed* | Displays the current egg belt speed as a percentage. |
| *Total eggs today* | Displays the number of eggs collected so far today. |
| *Total eggs yesterday* | Displays the total number of eggs collected yesterday. |
| *Collection control* | Displays the current status of the collection control: *off, automatic, manual* or *external.* See section 6.2.1. |

# 6 Controls

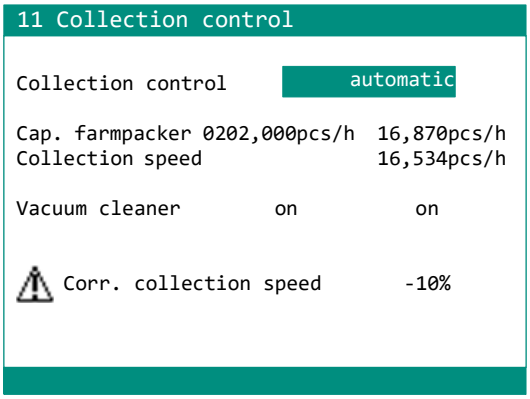
## 6.1 Main menu




## 6.2 Egg belt control




### 6.2.1 Collection control



*Collection control* — Possible options:

| | |
|---|---|
| *Off* | The 'off' setting prevents the PEC-9400 from operating unintentionally during installation. In this setting, the collection control does not start. After installation, you must change the setting to one of the other three options. |
| *Automatic* | The egg belt speed is automatically controlled based on the stored collection data (history) from previous collection days and the desired feed capacity to the packer.<br>If a collection day is skipped, the egg belt speed is automatically halved, as it is assumed that there are twice as many eggs on the egg belt. The message *Day skipped* appears on the screen.<br>If there is a gap in the history, *First collection* is temporarily displayed. The egg belt speed is then set to the speed indicated by the potentiometer. The missing historical data is subsequently updated. |
| *Manual control* | Use the potentiometer to set the egg belt speed. The feed capacity to the packer is also determined by the potentiometer setting. |
| *External* | An external switch allows you to choose between *automatic* (0) and *manual control* (1). These modes operate in the same way as the *automatic* and *manual control* modes described above. |

*Cap. farmpacker* — You can set the maximum feed capacity of the packer. However, this can never exceed the maximum conveyor capacity of the cross belt as set by the installer. Regardless of the *Picking control* setting (*automatic, manual* or *external*), you can use the potentiometer to set the desired feed capacity to the packer.

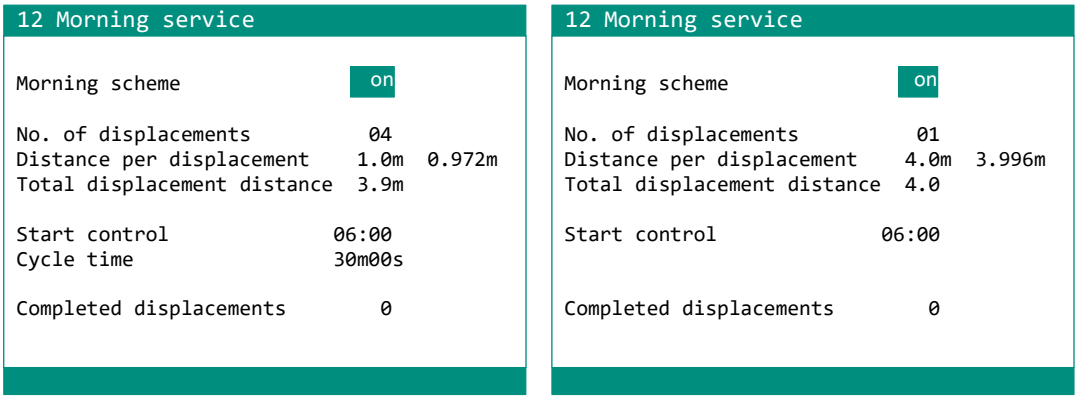
*Collection speed* — The current collection speed is displayed in pieces per hour (pcs/h). The value shown is an average and therefore gradually decreases to 0 pcs/h after the egg conveyor has stopped.

*Vacuum cleaner* — This control allows you to switch the vacuum cleaner on or off. The current status of the vacuum cleaner is also displayed. As soon as one of the egg belts is running, the status changes from off to on. Once the set run-on time has elapsed, the vacuum cleaner switches off again.

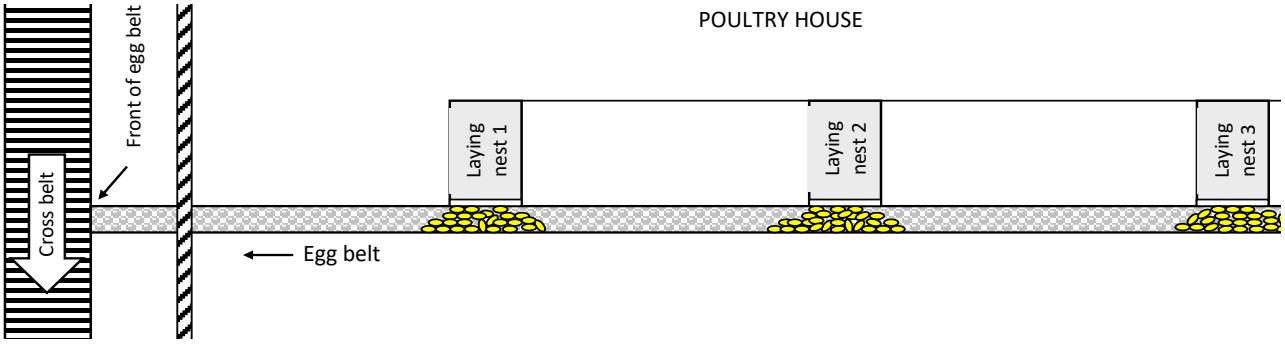
If the vacuum cleaner is installed in the correct position, it cleans the egg belt thoroughly without touching it. As there is no mechanical contact with the egg belt, a vacuum cleaner is particularly suitable for perforated polypropylene egg belts.

*Corr. collection speed* — The calculated egg belt speed is limited when the actual collection capacity exceeds the set capacity of the cross belt. The message *Corr. Collection speed* then appears on the screen, followed by a negative value indicating the correction applied.

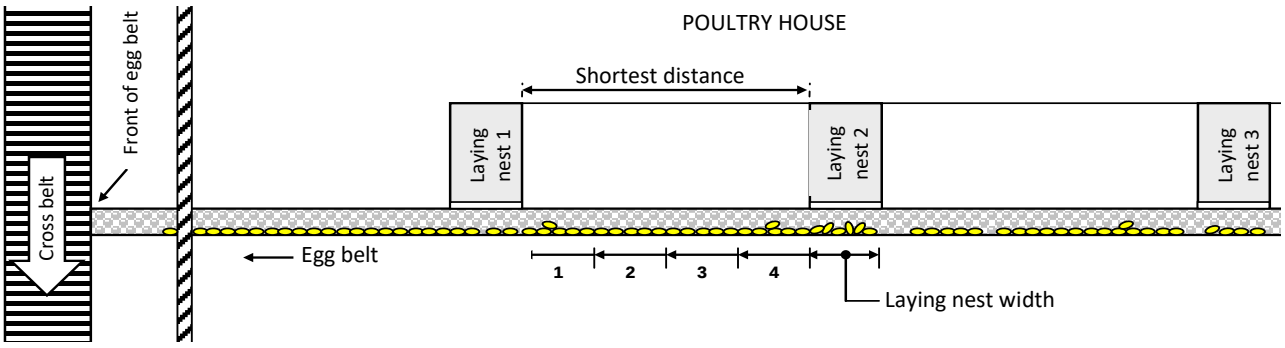
### 6.2.2 Morning scheme

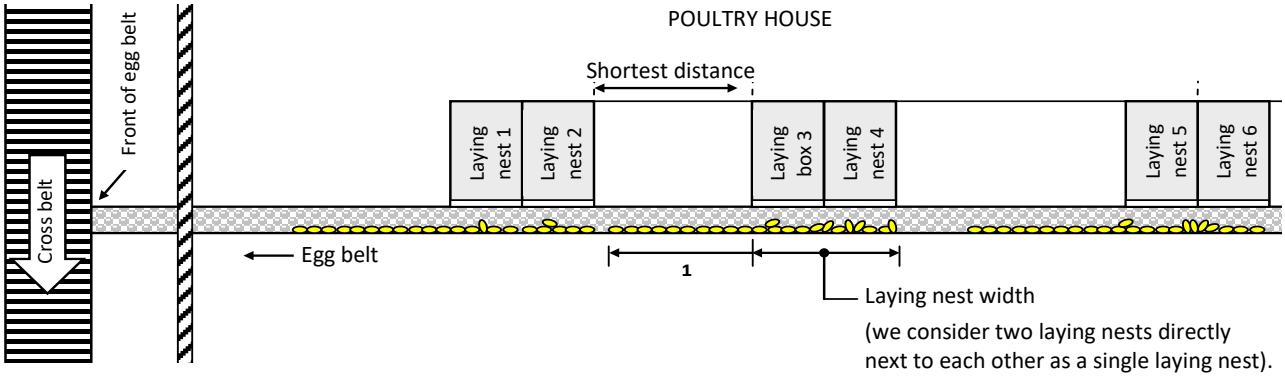



#### 6.2.2.1 Egg distribution along the egg belt without morning control




#### 6.2.2.2 Egg distribution along the egg belt with morning control



*Morning scheme* Here you can enable or disable the morning control.
The morning control ensures a better distribution of eggs along the egg belt. This allows the system to operate more smoothly and creates a more even flow of eggs to the cross conveyor. In addition, better distribution reduces the risk of eggs damaging one another in the laying nest.

*Number of displacements* To ensure that the morning control system functions correctly, measure the shortest distance between two laying nests and the width of the laying nest. Then divide the distance between the laying nests by the width of the laying nest to determine the number of displacements.



| Distance per displacement (laying nest width (m)) | Corrected distance per displacement (m) | Shortest distance = *Distance between two laying nests* divided by *Laying nest width* | | Number of displacements |
|---|---|---|---|---|
| 1.0 | 0.972 | 4.0 | 4.12 | 4 |
| 4.0 | 3.996 | 4.0 | 1.00 | 1 |

In this example, the distance between two pulses is 108 mm.

*Distance per displacement* Here you set the desired displacement distance. The egg conveyor controller then adjusts this distance. The distance is measured using pulses and is therefore rounded to a multiple of the distance between two pulses.

*Total displacement distance* This is the *number of displacements × the distance per displacement*. Ensure that the total displacement distance is less than the shortest distance between the laying nests and/or the front of the egg belt.

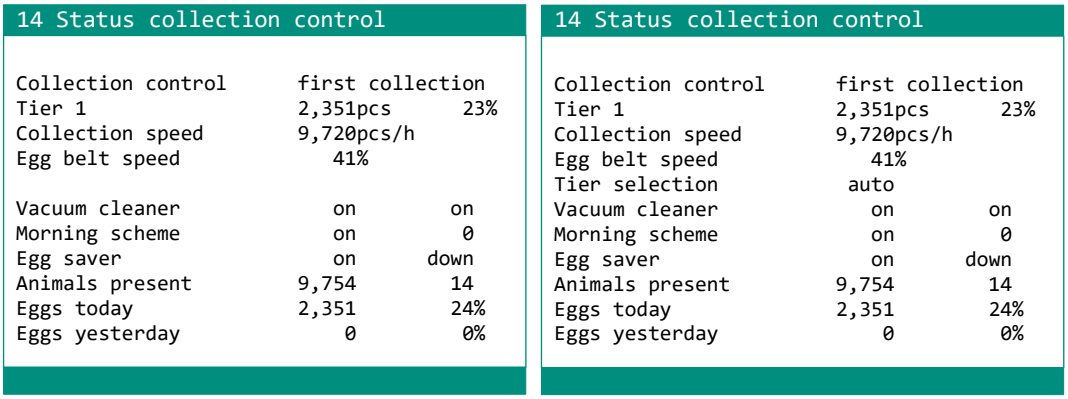
*Start control* Here you set the start time for the morning cycle. If you are also using an Egg Saver, you can choose to have it raise first before the morning cycle starts. For example, you can set the *Egg Saver* to start at 7:29 am and the morning cycle at 7:30 am. Ensure that both cycle times are the same.

*Cycle time* The cycle time is the time between two consecutive displacements. You only need to set this if there are two or more displacements. The cycle time must be long enough to complete the displacement across all tiers.

*Completed displacements* Shows the number of displacements already completed. The last displacement may still be in progress. This depends, among other things, on the displacement distance, the belt speed during the displacement and the number of tiers.

! The *Morning control* menu option is not available for lift systems.

### 6.2.3 Collection control status



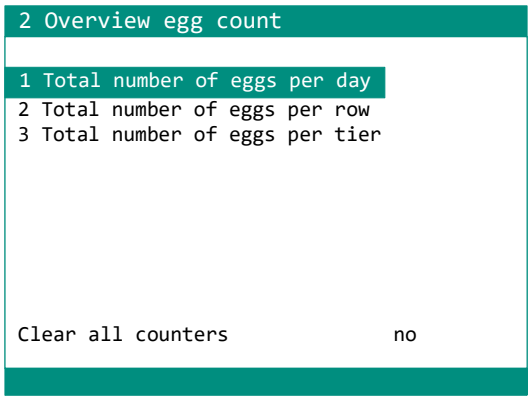

*PEC-R installed*

The message *Collection control at rest* is displayed when no tier is active.

| | | |
|---|---|---|
| *Collection control* | Possible statuses: | |
| | *Switched off (disabled)* | The status only changes when the packer is ready to pack and a tier input is active. |
| | *Automatic* | The egg belt speed is controlled based on the stored collection data (history) from the previous collection day and the desired feed rate to the packer. |
| | *Day skipped* | If, for any reason, a collection day has been skipped, the egg belt speed is automatically halved. This is based on the assumption that twice as many eggs are present on the egg belt. The message *Day skipped* is displayed on the screen. |
| | *First collection* | The collection speed is determined by the set collection speed (potentiometer setting). The collection data (history) is updated. |
| | *Manual control* | Use the potentiometer to set the egg belt speed. The feed rate to the packer is also determined by the potentiometer setting. The history is updated. |
| | *Second collection* | The collection speed is determined by the set collection speed (potentiometer setting). The collection data (history) is not updated. |
| *Tier* | The tier currently being collected is displayed, followed by the current number of eggs collected. The collection progress for that tier is then displayed. 100% means that collection is complete. | |
| *Collection speed* | Displays the current collection speed in pieces per hour (pcs/h). | |
| *Egg belt speed* | Displays the current egg belt speed. If the belt speed is corrected, the negative correction is shown after the current speed, followed by the symbol ⚠. | |
| *Tier selection* | If a PEC-R is installed, the status of the PEC-R's AUTO button is displayed here:<br>*Auto* The green LED in the AUTO button is on.<br>*Manual* The green LED in the AUTO button is off. In this mode, you can manually select a tier using the plus and minus buttons. | |
| *Vacuum cleaner* | The first status indicator shows whether the control is switched on. The second status indicator shows the current status of the vacuum cleaner. | |
| *Morning scheme* | The first status indicator shows whether the function is switched on. The second status indicator shows the current status of the morning function. | |

| | |
|---|---|
| *Egg Saver* | The first status indicator shows whether the function is enabled. The second status indicator shows the current status of the *Egg Saver*. |
| *Animals present* | The first number shows the current number of animals in the house. The second number shows the number of animals that have died today. |
| *Eggs today* | Shows the total number of eggs collected in the house today and the corresponding laying rate. |
| *Eggs yesterday* | Shows the total number of eggs collected in the house yesterday and the corresponding laying rate. |

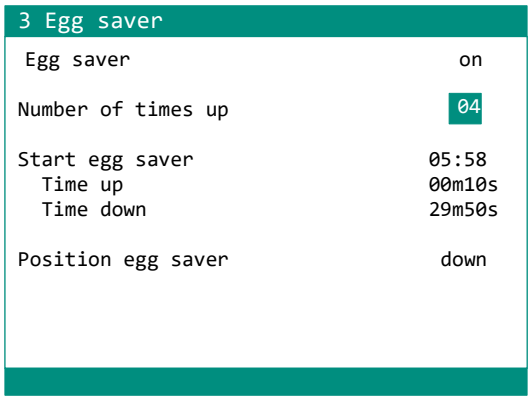
## 6.3 Overview of egg count




Displays an overview of the number of eggs collected. In addition to the total number of eggs, the laying percentage is also shown, provided animal data is available.
Due to rounding, the displayed laying percentage may differ from the actual laying percentage. If the laying percentage is higher than 100%, this may indicate that a collection day has been missed or that eggs were collected at a different time yesterday than today. As a result, yesterday's laying percentage may be considerably lower than today's.
You can view the number of eggs collected over the past 7 days, both as a daily total and broken down by row or by tier.

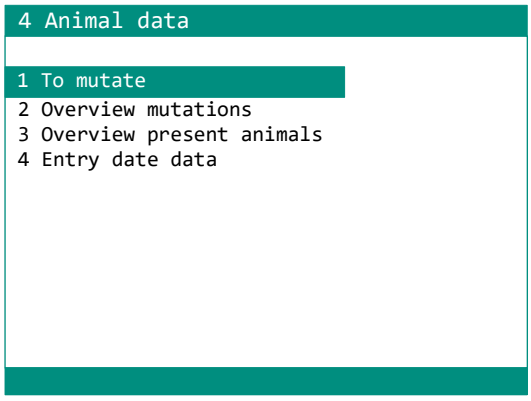
| | |
|---|---|
| *Clear all counters* | If you set *Clear all counters* to *yes,* all counter readings for all rows, tiers and days will be cleared, with the exception of the stored collection data (history). |

## 6.4 Egg saver



| | |
|---|---|
| *Egg saver* | Here you can switch the egg saver function on and off.<br>The egg saver ensures that the eggs do not hit the egg belt at high speed. Excessive speed can cause small cracks to form in the eggshells. The speed of the eggs is reduced by allowing them to roll against a taut wire. When the wire is lifted, the eggs roll gently onto the egg belt. An additional benefit is that the eggs have the chance to dry while rolling against the wire. This reduces the risk of dust rings forming on the eggs. |
| *Number of times up* | Enter the number of times the egg saver should be raised. |
| *Start egg saver* | Enter the start time at which the egg saver control should become active. If you are also using a *Morning scheme*, you can choose to have the egg saver raise first before the morning scheme starts. |
| *Time up* | Specify how long the egg saver should remain in the raised position. |
| *Time down* | Specify how long the egg saver should remain in the lowered position before it returns to the raised position. |
| *Position egg saver* | Shows the current position of the egg saver. |

## 6.5 Animal details




### 6.5.1 Flock changes (*To mutate*)

| | |
|---|---|
| *Lost* | Enter the number of animals that have died. *Lost Today* is automatically reduced by the value entered. The entry is then cleared. If you have entered an incorrect value, you can correct the error by entering a positive value. |
| *Lost Today* | Today's total mortality. |
| *Lost Total* | The total mortality, calculated based on the mortality figures for previous days and today's mortality. |
| *Out* | animals are removed from the house during the production period, you can enter the number of animals removed under *Out*. |
| *Out Total* | The total number of animals removed from the house. |
| *In* | If animals are added to the house during the production period, you can enter the number of animals added under *In*. |
| *In Total* | The total number of animals added. |
| *Animals present* | The number of animals present. This number is calculated as follows:<br>*Animals present = Number at entry – Lost Total – Out Total + In Total* |
| *Number at entry* | The number of animals present at the start of the production period. |

### 6.5.2 Overview of flock changes (*mutations*)

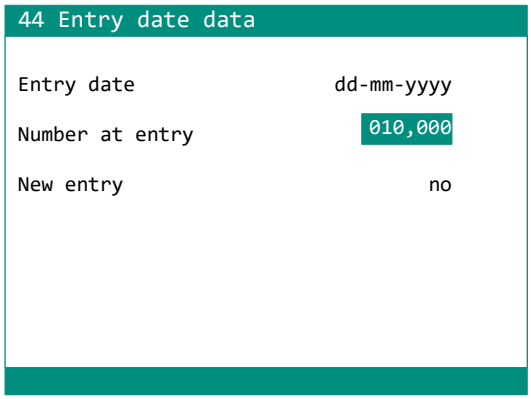
Overview of losses, the number of animals removed (*Out*) and the number of animals added (*In*) per day.

### 6.5.3 Overview of animals present

Overview of the number of animals remaining in the house per day.

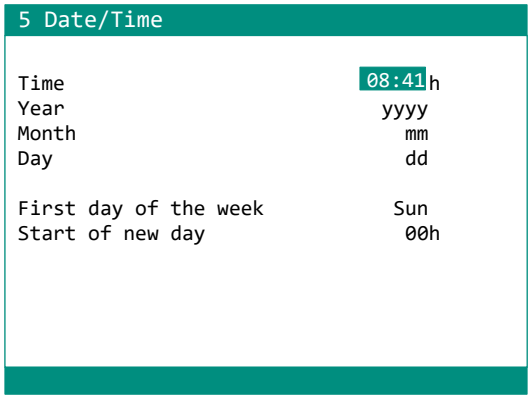
### 6.5.4 Set-up data (*Entry date data*)

This data must be entered at the start of a new production cycle (new flock). The egg belt controller with an egg counting function uses this data to calculate the number of birds remaining and the laying rate.




| | |
|---|---|
| *Entry date* | The entry date is automatically entered when you set *New entry* to *yes*.<br>This date is used to determine the age of the birds and to populate the mortality table. This table is linked to the age of the birds.<br>The egg belt controller with an egg counting function stores the data from the past seven days. |
| *Number at start-up* | This is the number of birds at the start of the production cycle. |
| *New entry* | If you set *New entry* (new flock) to y*es*, the following happens:<br>▪ The *collection data* (history) is deleted. The next status is *First collection*. See also section 6.2.3.<br>▪ The mortality table is cleared.<br>▪ The *Entry date* is filled in automatically.<br>▪ All counter readings and laying percentages are cleared. |

## 6.6 Date and time




*First day of the week*

The *'First day of the week'* setting is used to determine the weekly totals. For example, if you set *'First day of the week'* to *Sun* (*Sunday*), the weekly totals will be calculated for the period from Sunday to Saturday. A weekly total is the sum of the data from Sunday to Saturday inclusive.

*Start of new day*

Under *Start of new day,* specify the time at which the new day should begin.

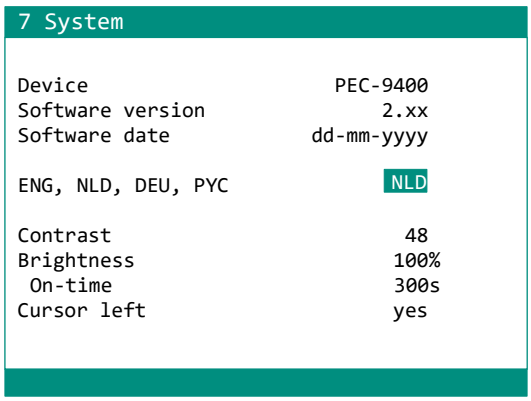
At the start of a new day, all day-dependent data is shifted forward by one day. The data for the new day is then cleared.

When a week ends, the weekly total is recalculated.

! If the *Start of new day* setting falls within a collection period, the error message *Beginning new day in period* appears on the display. You must then change either the *Start of new day* time or the collection period.

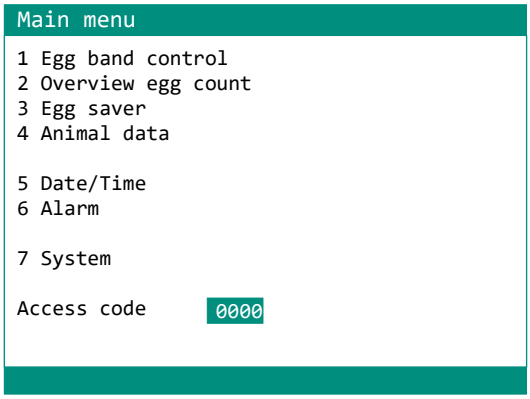
## 6.7 System

### 6.7.1 General




| | |
|---|---|
| *Device* | The name of this controller. |
| *Software version* | Displays the software version installed on this device. |
| *Software date* | Displays the date associated with this software version. |
| *(Language) ENG, NLD, ..* | Here you can set the language for the text displayed on the screen. You can also change the language using the F1 key. See section 4.2.1. |
| *Contrast* | Indicates the contrast between the white and black colours. |
| *Brightness* | Set the brightness (%) of the backlight. |
| *On-time* | Enter the number of seconds for which the screen backlight should remain on after the last key press. |
| *Cursor left* | *Yes* When editing, the cursor is positioned on the leftmost digit.<br>*no* When editing, the cursor is positioned on the rightmost digit. |

### 6.7.2 Access code




*Access code*

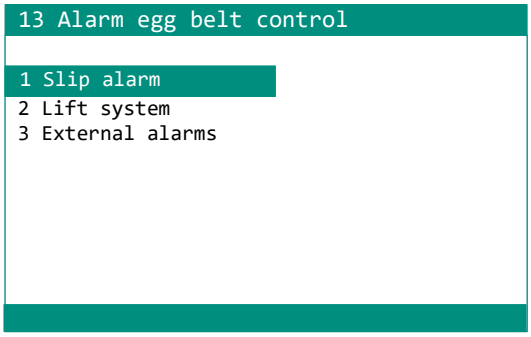
An access code prevents unauthorised persons from changing the settings of the egg belt controller with an egg counting function. An access code consists of four digits. Your installer can configure up to two access codes.



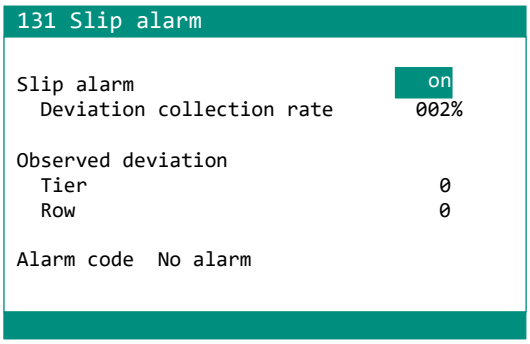
Make a note of the access code and keep it in a safe place. If you forget the code, you will no longer be able to change the settings. With an active access code, you can only change settings after entering the correct code. The code remains active until you select the Overview screen. You will then need to re-enter the code.

# 7 Alarm

## 7.1 Alarm for egg belt control

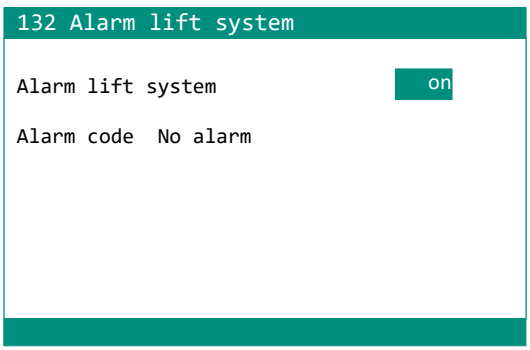



### 7.1.1 Slip alarm



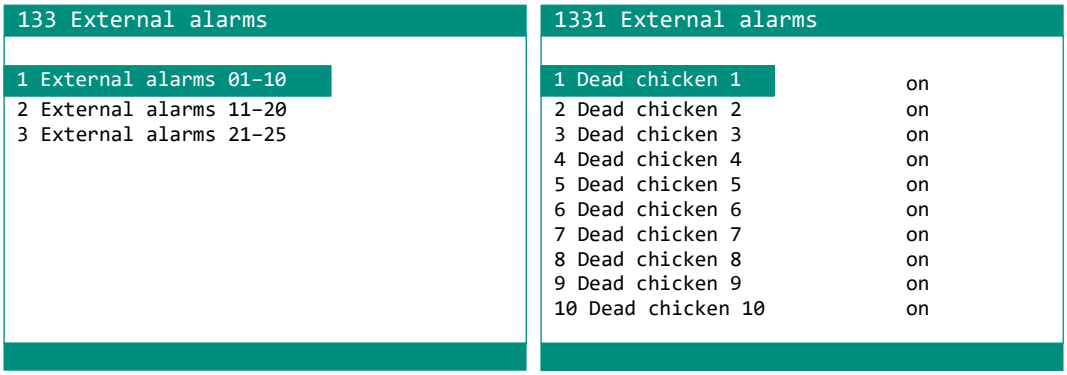

| | |
|---|---|
| *Deviation collection rate* | The slip alarm checks whether the egg flow from an egg belt deviates from the expected egg flow. The expected egg flow is determined based on historical data or a manually set value. If the egg flow deviates by more than the set percentage, a slip alarm is triggered. The slip alarm only becomes active after the longest *Egg counter delay* set for the tier has elapsed. Ask your installer whether this setting is applicable to your system. |
| *Observed deviation* | If the slip alarm is active, the *tier* and *row* where the deviation was detected are displayed. |
| *Alarm code* | Displays the current alarm code. |

### 7.1.2 Lift system




| | |
|---|---|
| *Alarm lift system* | On this screen, you can enable or disable the lift system alarm. |
| *Alarm code* | Displays the current lift system alarm code. |

### 7.1.3 External alarms



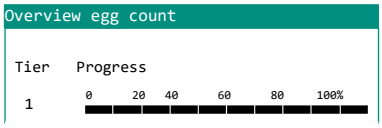
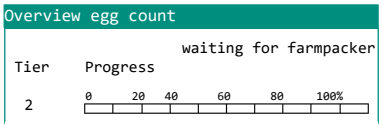
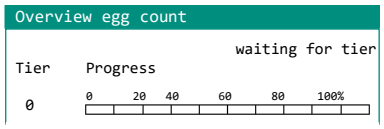
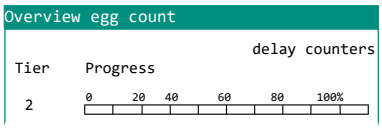
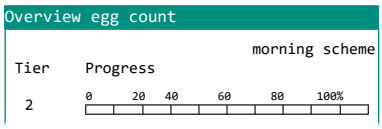

The PEC-9400 has 25 external alarm inputs. You can use these, for example, to detect a dead hen on the egg belt. Your installer can customise the names of the external alarms as required (up to 15 characters).

! When an external alarm is triggered, the egg belts are stopped.

### 7.1.4 Alarm codes

| Alarm code | Description |
|---|---|
| *Alarm unknown (xxxx)* | This alarm code cannot be translated into text. Make a note of the displayed number and contact your supplier. |
| *Beginning new day in period* | The status of the collection control (*Release collection control*) is still active:<br>▪ The status was not set to *off* after collection. Set the status to *off* now. Set the status back to *on* when you start collecting again.<br>▪ The previous collection process has not yet been completed. Change the *Start of new day* time in the *Date/Time* menu. |
| *Configuration changed* | The module configuration (inputs/outputs, etc.) has been changed. Re-read the module number. |
| *Tier xx not reached* | The lift has not reached the displayed tier (xx) within the set alarm period. Check the lift's operation. |
| *External alarm x* | An external alarm has been triggered. See displays 132 and 133. |
| *Wrong input type* | The set input type is not suitable for the control system. |
| *Wrong output type* | The set output type is not suitable for the control system. |
| *Wrong terminal setting* | The assigned function is not supported by the module. |
| *No communication address* | The device address of the PEC-9400 is not set. |
| *No input assigned* | No input terminal number has been entered. |
| *No output assigned* | No output terminal number has been entered. |
| *Input already assigned* | The input has been assigned to two or more control systems. |
| *Module not installed* | ▪ The module number set at the terminal does not exist.<br>▪ There is no connection, or the connection is faulty, between the PEC-9400 and the module. |
| *Module not responding* | The module address could not be found. Check the settings on the module. |
| *Module reset alarm* | The module keeps resetting due to a fault. Check the module. |
| *Unknown terminal type* | The selected terminal type does not exist. |
| *Not a valid input* | The set input number does not exist on the module. |
| *Not a valid output* | The output number set does not exist on the module. |
| *Conflicting cycles* | This error message occurs when the morning schedule is still carrying out the current displacements while a new displacement cycle has already started. To remain synchronised with the history, all displacements are still carried out.<br>▪ Change the cycle time.<br>▪ Change the distance per displacement. |
| *Parking position not reached* | The lift has not reached the parking position within the set alarm period. Check the limit switch and the lift's operation. |
| *Slip alarm* | The current egg flow is lagging behind the calculated or set egg flow.<br>▪ There is a dead hen on the egg belt.<br>▪ The frequency converter has been switched off.<br>▪ The set minimum for the frequency converter is too low, preventing the egg belt from starting.<br>▪ The load on the egg belt is too heavy. Egg collection has been skipped on some days.<br>▪ There is too much debris on the egg belt. The scraper or vacuum cleaner is not working properly or is faulty. |
| *Output already assigned* | The output has been assigned to two or more control systems. |

# 8 Problem analysis

| Report + Progress | Cause + Action |
|---|---|
| *At the start of collecting, the progress is at 100%*<br> | At the start of collection, the progress is 100%.<br><br>At the time marked *Start of new day,* the egg lift was <u>not</u> in the parking position or the packing machine was still running. As a result, the previous day's data has not yet been processed by the PEC-9400.<br><br>Actions required:<br>▪ Move the egg lift to the parking position and disable the packer release signal.<br>▪ Go to *Date/Time* and set the time to one minute before *Start of new day*.<br>▪ Wait until *Start of new day* has passed.<br>▪ Change the *Day* if necessary.<br>▪ Restart the packing process. |
| *Waiting for farmpacker*<br> | A tier has been selected, but the release signal from the packer is not active. |
| *Waiting for tier*<br> | The release signal from the packer is active, but no tier has yet been selected. |
| *Counter delay*<br> | A delay time has been set for the egg counters. The egg counters are not located directly at the start of the egg belt, but, for example, on the cross conveyor belt or behind the lift.<br>The delay time has not yet elapsed. The message will disappear once the delay time has elapsed. |
| *Morning scheme*<br> | The morning cycle is active. During the morning cycle, the egg belts on each tier are briefly switched on to distribute the eggs more evenly along the egg belt. |