

USER MANUAL

FOR THE

PFA-9200(-i) FEED COMPUTER





Shut down power before opening the feed computer!

This feed computer contains exposed live parts!

Only to be opened by authorized personnel!

WARNING

Although utmost care has been given to the quality of this equipment during the design and manufacturing stages, technical malfunctions can never be ruled out. The user should provide for an adequate alarm system and/or emergency provisions to prevent a technical failure of the equipment and peripheral facilities leading to danger to persons, animals or property.

NOTE DOWN THE FOLLOWING IN CASE OF AN EMERGENCY

- ☐ **Possible causes**
- ☐ **Circumstances in which the emergency occurred**
- ☐ **Date and software version number**
- ☐ **Installer settings**

Please contact our Customer Service Department, if you have any questions. Be sure to have all necessary data at hand. To ensure a speedy solution to the malfunction and to avoid any misunderstandings, it is advisable to note down the cause and the circumstances in which the malfunction occurred before contacting us (www.stienenbe.com).

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Stienen B.E. cannot be held liable for any damage, loss or injury resulting from improper use or from use not in accordance with the instructions in this manual.

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If the software version in your controller does not comply with the requirements of the operating software, you have to run a software update.

INTRODUCTION

When combined with the feed weigher, the PFA-9200 feed computer forms a highly accurate feed weighing system. A maximum of 16 supply augers can be controlled, enabling several ingredients to be mixed and dosed for different groups of animal. Depending on the set-up and the type of discharge auger, different bases and receptacles with various auger connections are available for the feed weigher.

Since every situation is different, in practice only the control functions applicable to your specific situation will be activated. This makes the operation of the feed computer very easy and transparent.

The feed computer has a memory chip where all settings are saved into, to ensure that the settings are retained even when the voltage is lost. Counter values, current day number in the curve etc. are not stored in the memory chip. These values may be lost if the power supply to the feed computer has been down for a couple of days. You may then have to set the day number etc. again.

The PFA-9200 can be expanded with I/O modules if the standard number of inputs and output is not sufficient. In addition, the PFA-9200 feed computer can be driven by one or several PL-9200 poultry computers via the communication loop.

Instead of a PFB-35/70 feed weigher, a PSW-1 silo weigher or a PFS-16 silo weighing computer can also be connected.

FEEDING PERIODS

The amount of feed to be dosed per 24-hour period can be distributed over a maximum of 24 feed cycles.

FEEDING CURVES

The amount of feed per animal can be set using a maximum of 24 reference points for the entire production period.

FEED MIXTURE CURVE¹

You can vary the feed composition during the production period using a maximum of 15 reference points.

MIXING COMPONENTS¹

The PFA-9200 can mix a maximum of 8 types of component from 16 silos.

SILO STORAGE REGISTRATION

If the correct amounts have been entered in the silos, their current content can be called up.

MISCELLANEOUS FUNCTIONS

Feed intake registration.

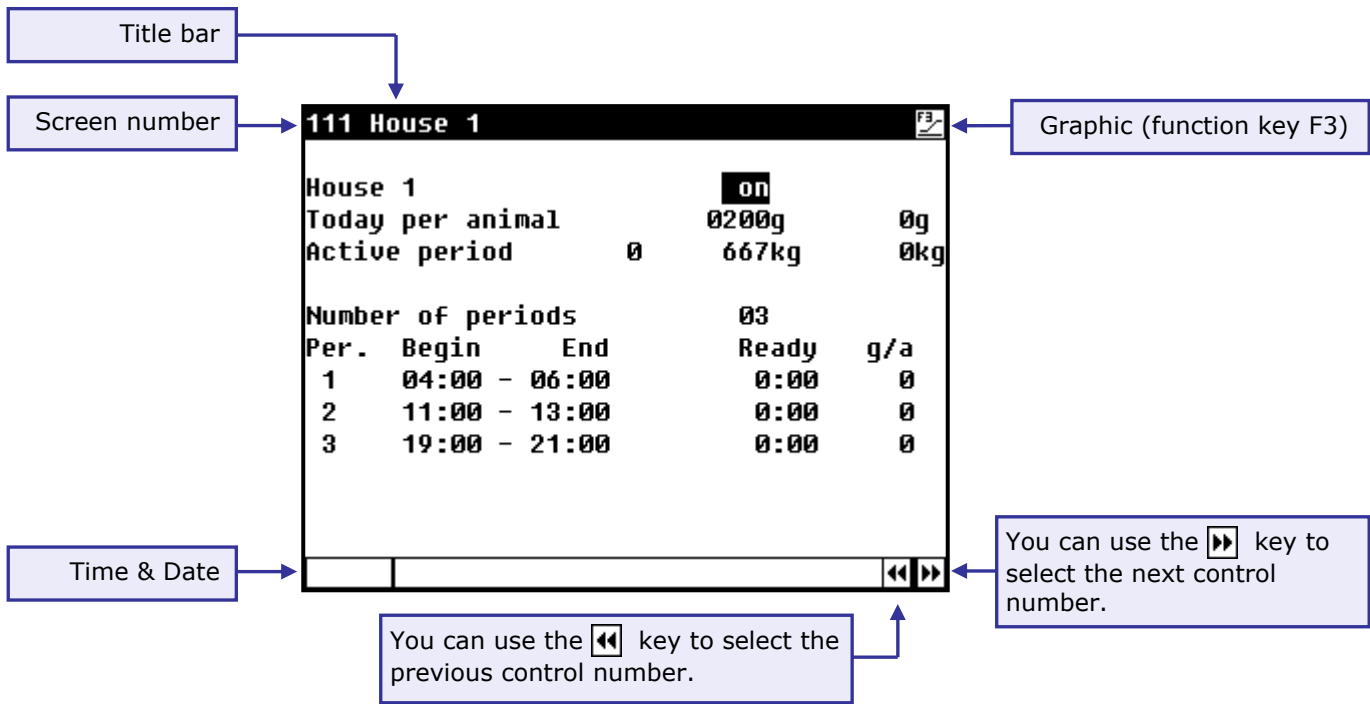
Switching feeding equipment, water valves and lighting on or off.

COMMUNICATION WITH PERSONAL COMPUTER

Both the control computer and a Windows PC software package can be used to make settings and read out the amounts weighed.

¹ Does not apply to a PSW-1 silo weigher. If the feed system consists of a PSW-1 silo weigher, *feeding will be directly from the silos*. A maximum of two silo weighers can be connected to the PFA-9200 feed computer.

SCREEN



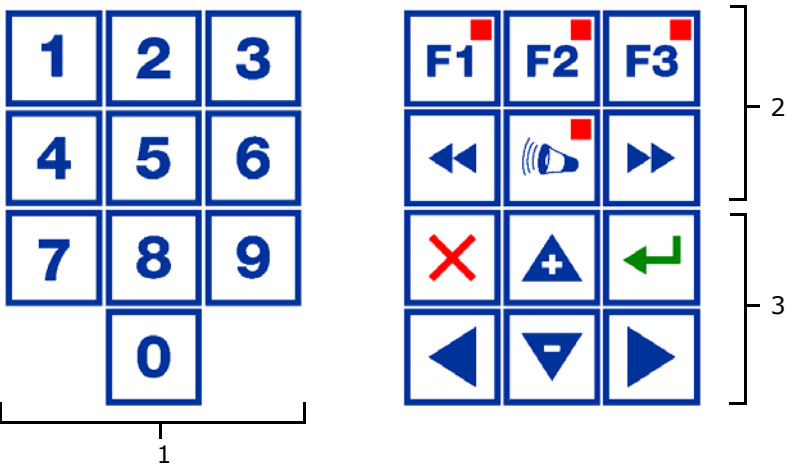
Whenever a key is pressed, the display will be lit for a couple of seconds so that you can also see the settings and measurements in a dark animal house.

SCROLL WINDOW

If a window contains more lines than the screen can display, the title bar will show the symbol. This symbol indicates that you can call up the remaining settings and/or measurements using the up and down cursor keys ().

If a window contains more columns than the screen can display, the title bar will show the symbol. This symbol indicates that you can call up the remaining settings and/or measurements using the left and right cursor keys ().

KEYBOARD

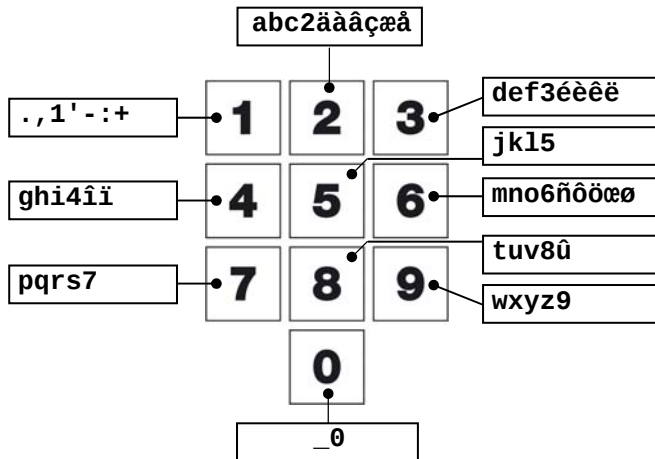


Caution:
Only press the keys with the tip of your finger. Sharp objects such as a pen, pencil or screwdriver may damage the keys!

The keyboard can be divided into three basic groups:

1. Numerical keys
2. Function keys
3. Navigation keys

1 NUMERICAL KEYS (0..9)



The numerical keys can be used to enter a screen number, a value or text.

Entering text

Numerical keys 2..9 can be used to change the name of a control group (left, right, front, rear etc.), a timer or a counter. The maximum text length is 15 characters (including spaces). The character you enter is shown in a little box. Press the numerical key repeatedly until the required character is shown. You can enter a punctuation mark by repeatedly pressing numerical key 1 until the required punctuation mark is shown. You can enter a space using the 0 key.

Press once for **a**, twice for **b** etc. You can move the cursor with the and keys.

Where relevant, e.g. for menu options etc., the text will automatically start with an initial capital.

Add/remove breakpoint or period

Press the [Enter] key (edit mode)

Press and hold the [F1] function key and then press the:

[+] key to add a breakpoint/period (provided that the maximum value for periods/breakpoints has not been reached)

[-] key to remove a breakpoint/period (provided that there is at least one period/breakpoint)

The number of breakpoints/periods is adjusted automatically.

2 FUNCTION KEYS (GRAPHIC, ALARM, PREVIOUS / NEXT HOUSE ETC.)

Function key F1 (change language)



You can also **change the language** by pressing and holding functional key F1 while simultaneously pressing the cursor key pointing to the right.

Function key F2 (status screen)



Use this function key to call up the house (auger) status.

Function key F3 (graphic)



When the symbol is shown in the title bar and you press function key F3, the settings are displayed graphically (the dot • showing the calculated value). Press F3 again to switch off the graphic display. The "graph" function is active when the LED in the function key lights. You can switch off the "graph" function by pressing the function key again (the LED in the key is off then).

The values in a graph are linked to the window on the basis of which the graph was drawn up. The graph is updated automatically when you change the details in the window.

If the details in the window are displayed in graph form, the symbol will be displayed in the top right corner of the menu line.

Select previous / next auger



Select previous / next auger.

If several augers are available, you can use these keys to select the previous or next auger.

Alarm key



Short key for alarm screen

Here you can switch the main alarm on and off. When the main alarm is off, the LED in the alarm key will flash to indicate that the main alarm is off. No alarm is generated anymore. The LED in the alarm key lights if there is an alarm on one of the controls.

Alarm status	
Main alarm	on
⌚ Off	yes
Alarm code	Dosage too high
Control	Valve 1
Control	Animals 1
Alarm external house	0
1 Latest alarms	
2 External alarms	

Test (alarm test): This enables you to test the operation of the alarm relay (siren). If you enter "yes" in the line **Test**, the alarm relay (siren) will be switched on for 10 seconds.

You can clear the alarm test time by setting "no" in the line **Test**.

⌚ Off (alarm temporary off): This enables you to temporarily switch off the alarm (siren). This does not apply to the hardware alarms which cannot be switched off temporarily. The main alarm is switched off for 30 minutes (the lamp will blink irregularly). The main alarm is switched on automatically again after 30 minutes. The alarm relay will then de-energize again, causing an alarm if the cause of the alarm has not been removed.

You can clear the temporary alarm deactivation time by setting "no" in the line **⌚ Off**.

If no access code has been installed or if you have already entered the correct access code, you can switch off the main alarm.

Attention: **NEVER FORGET TO SWITCH THE ALARM BACK "ON"** when you have switched this feature off 'temporarily', e.g. to solve a problem. Failing to switch it back on may have adverse effects for humans, animals, equipment or property.
Preferably use the ⌚ Off (alarm retard) function to solve a problem.

3 NAVIGATION KEYS (MENU, CURSOR, MODE)



This key cancels changes or menu option selections.

Press and hold this key to select the main menu.



Move cursor

Holding down: move cursor to first/last setting on the screen.



Move cursor or change value

↵ (confirm)



Menu option selection
Start change
Confirm change

- ☐ The cursor is displayed as a black rectangle, e.g. **00.000kg**.
- ☐ While a change is being made, the cursor is displayed as a black border, e.g. **00.000kg**.



MAIN MENU

Main menu	
1	Feed system
2	Silos
3	Status feed weighing
4	Status feeding system
5	Date/Time
6	System
7	Alarm
Access code 0000	

Feeding system = PFB-35/70

Main menu	
1	Feed system
2	Silos
3	Status feed weighing
4	-----
5	Date/Time
6	System
7	Alarm
Access code 0000	

Feeding system = PSW-1

ACCESS CODE

You can use an access code to protect your computer against unauthorized access. If you want to prevent non-authorized users from changing settings on your feed computer, you can have an access code set. An access code consists of a combination of 4 figures. You can have an maximum of 2 access codes set by your installer.

If you use access codes, it is advisable to write the code down and store it somewhere safe. If you forget the access code, you can no longer change any settings. As soon as one access code is active, you can only change the setting by entering the correct access code. The access code remains active until you select the "Overview" window. After selecting this window you will have to enter the access code again to be able to change a setting.

TIMERS

A maximum of 24 periods can be set on a timer. All times have to be consecutive. The difference between two times must be at least 1 minute.

Overlapping feeding times are not allowed if the augers are not driven by "release contacts", nor are overlaps of the feeding times with other timers allowed in that case (the difference between the times must be at least 1 minute).

The number of animals at the start of the first actual feeding cycle started by the dosing timer determines the calculated amount to be dosed for that day. If the number of animals changes in the meantime (due to animals dying, being removed or added) this does not affect the calculation.

In addition to the number of animals, the amount of feed per animal is also decisive for the amount to be dosed. If the dosage curve is active, the current amount per animal is calculated from the dosage curve, using the current amount of feed per animal. If the curve is not active, you can set the current amount of feed per animal at "Today per animal".

111 House 1

House 1
Curve setting
Active period

Number of periods 04

Per.	Begin	End	Part	Ready	g/a
1	04:00	05:00	040%	4:56	530
2	09:01	10:00	030%	0:00	0
3	14:00	15:00	020%	0:00	0
4	19:00	20:00	100%	0:00	0

Annotations:

- Active period
- Already dosed today per animal
- Already dosed in active period
- Yet to dose in active period
- If "Auto. partition period" has been switched off by your installer, you can manually distribute the total daily amount of the feed etc. over the preset number of periods.

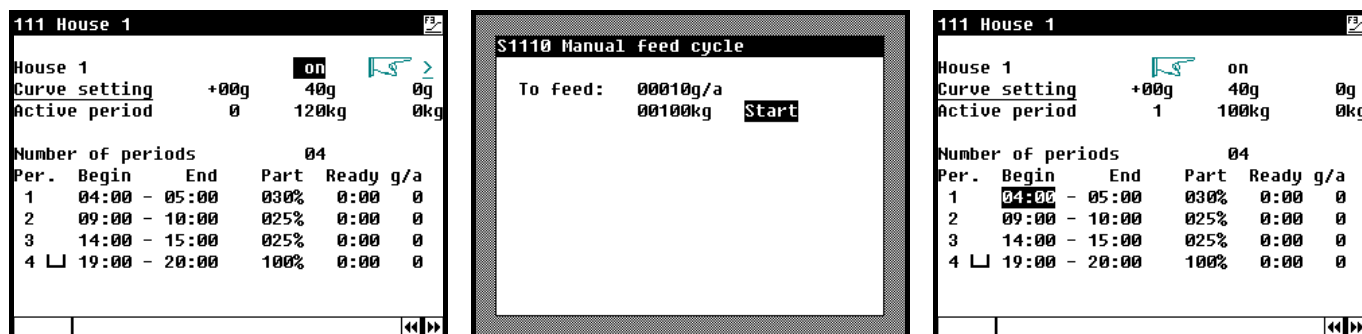
- ☐ The amount to be dosed is calculated between two periods.
- ☐ **WITH "Auto.partition period"**
 - The total daily amount is divided over the preset number of periods.
- ☐ **WITHOUT "Auto.partition period"**
 - If the sum of the percentages set under "Part" is less than 100%, the shortage of the prior periods **will be corrected in the last dosing period to 100 %**.
- ☐ The dosed amount per period is listed under the last column (ml/d or g/d). If the amount to be dosed is reached within the period, the time when the cycle has ended is shown under "Ready".
- ☐ If something has gone wrong in previous cycles, this will be corrected in the last cycle.

If the cursor is on **Curve setting** and you press the confirmation key, the dosage curve for the house in question will be displayed. You may now change the curve settings or switch off the curve. Press the cancel key to return to the previous screen. If you have switched off the curve, the text "Curve setting" will be replaced by the text "Today per animal" and you can no longer access the dosage curve from this screen (the dosage curve is off).

The settings and measurements of the other houses can be set up and/or called up in a similar manner.

Manual feed cycle

Manual operation is only possible with a **dosing timer that is "on"**.



□ Place the cursor on the link behind the hand  and push the  key,

The "Manual feed cycle" screen appears. Enter the amount of feed (per animal or total) that you want to feed manually in this screen. If you set a greater amount than the maximum daily dosage, no more feeding will take place in the remaining feed cycles.

Select the link **Start** and push the  key

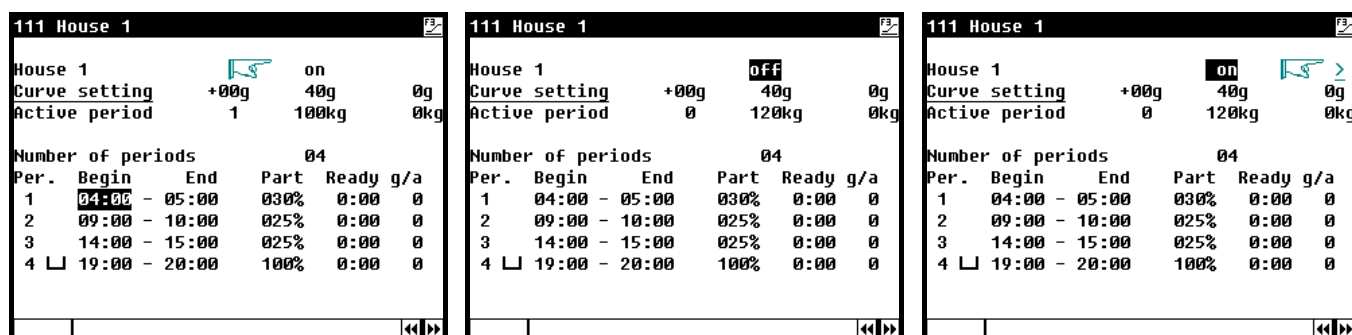
The hand  is placed in front of the clock status to show that the manual feed cycle has started.

There are two possible situations:

1. Not all feeding periods have elapsed: the amount of feed you feed manually is deducted from the remaining dosage for this day.
2. All feeding periods have taken place. *This means that you are feeding extra*, the amount of the manual feed cycle is added to the total daily dosage.

Note! If you start a manual feed cycle, you will have to pay attention that, during the time required for the feed system to dose the amount set, no other house is or becomes active (only one feed system can be active at any one time, otherwise a "Dosing alarm" will occur).

Abort manual feed cycle



Manual feed cycle

Switch timer "off"

Switch timer "on"

- Go to the "Timers" screen, select the required house e.g. "House 1" and switch off the timer; the manual feed cycle will be aborted now.
- Then set the "Timer" for the selected house (House 1) to "on" again (**DO NOT FORGET this, or else no more feeding will take place**).
- The manual operation hand is behind "House x" again to indicate that the manual feed cycle was aborted and that you can start a new manual feed cycle.

Create stock

Your installer can set the following:

- that stock is created only **in the last period**, the feed chain will not run then. You will get a dosing alarm if the stock has not been created before the end of the period.
- that the stock is created immediately **after every period**. If the dose as set has not been achieved, a dosing alarm will be generated at the end of the day.

The stock (amount) *created in the last feed cycle* is not added to the amount already dosed until *the next day*.

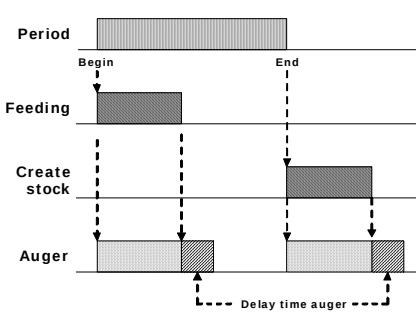
In last period

111 House 1					
House 1					
<u>Curve setting</u>		+00g	733g	600g	 >
Active period		2	202kg	70kg	
Number of periods			04		
Per.	Begin	End	Part	Ready	g/a
1	04:00	05:00	030%	4:51	530
2	09:00	10:00	025%	0:00	0
3	14:00	15:00	025%	0:00	0
4	19:00	20:00	100%	0:00	0
					
					 

- ☐ Create stock
- ☒ Stock created

After every period

2 Status feeding system			
Active house			
Feed weigher			
	Timer	Weigher	standby
House 1	on	Auger 0m26	Release yes
House 2	off	off	no
House 3	off	off	no
House 4	off	off	no
House 5	off	off	no
House 6	off	off	no
Sensor minimum		no feed	



OVERVIEW TIMERS

A graphic overview of the timers is displayed on the screen. Only the on/off times of the timers which have been activated are shown.

ALARM (DOSAGE ALARM)

1181 Alarm house 1	
Alarm	
Minimum dosage	100%
Present dosage	90%
Dosage calculated	
Present dosage	210g/a
Present dosage	189g/a
Alarm status No alarm	

A dosing timer (feed or water) lets you set the minimum amount to be dosed here (as a percentage of the amount to be dosed).

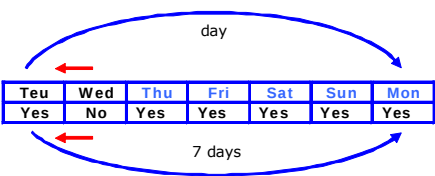
The amount to be dosed is calculated for every feeding cycle. If the amount dosed is less than the minimum dose at the end of the feeding cycle, a dosing alarm will be generated.

You can clear the dosing alarm by switching the alarm off and then on again in this screen.

The settings and measurements of the other houses can be set up and/or called up in a similar manner.

WEEK PROGRAMME

121 Week programme house 1	
Week programme	
Days in cycle	7 days
Active on	
Tue	Wed
no	yes
Thu	Fri
yes	yes
Sat	Sun
yes	yes
Mon	
yes	



You can use "Week programme" to set feeding such that it does not take place every day, but, for example, that feeding takes place on 6 days and no feeding takes place on the seventh day.

You can change or call up the week programme for the other houses in the same way.

FEED MIXTURE (n/a with a silo weigher)

Depending on whether the feed mixture curve of the house is active, you can call up or set the mixture per house. If the feed mixture curve of the house is active, the current mixture is calculated on the basis of the curve settings. You can then change the calculated mixture by entering a correction for the units calculated in the "Corr." column.

WITH FEED MIXTURE CURVE

131 Feed mixture house 1			
Day	1		
Component	Curve	Corr.	Perc.
Component 1	30.0	+00	30.0%
Component 2	25.0	+00	25.0%
Component 3	18.0	+00	18.0%
Component 4	12.0	+00	12.0%
Component 5	10.0	+00	10.0%
Component 6	5.0	+00	5.0%

131 Feed mixture house 1			
Day	1		
Component	Curve	Corr.	Perc.
Component 1	30.0	+05	33.3%
Component 2	25.0	+00	23.8%
Component 3	18.0	+00	17.1%
Component 4	12.0	+00	11.4%
Component 5	10.0	+00	9.5%
Component 6	5.0	+00	4.8%

Since the percentages shown in the "Perc." column are rounded values, the percentages shown can differ approx. 0.1% from the actual calculated percentages.

Note! The values shown in the columns "Curve", "Corr." and "Units" show the mutual dosing ratios of the different components and not their percentage of the total mixture. The percentage in the mixture is calculated automatically for every component on the basis of the ratios set.

WITHOUT FEED MIXTURE CURVE

131 Feed mixture house 1		
Component	Units	Perc.
Component 1	045	45.0%
Component 2	015	15.0%
Component 3	010	10.0%
Component 4	005	5.0%
Component 5	016	16.0%
Component 6	009	9.0%

You can set the mutual dosing ratios of the different components in this screen. The percentage is calculated automatically on the basis of the ratios set

You can change or call up the mixture for the other houses in the same way.

CURVES

14 Curves	
1 Dosage	
2 Feed mixture	
3 -----	
4 Overview curves	

Several curves are available to gradually and automatically change the feed amounts and mixing ratios of the various types of feed. A curve can consist of a maximum of 15 breakpoints.

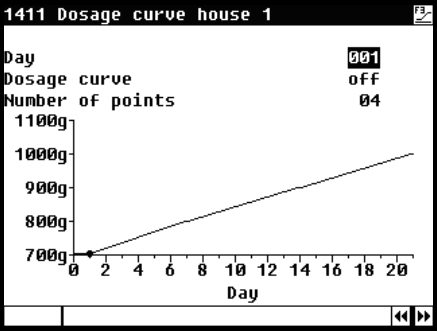
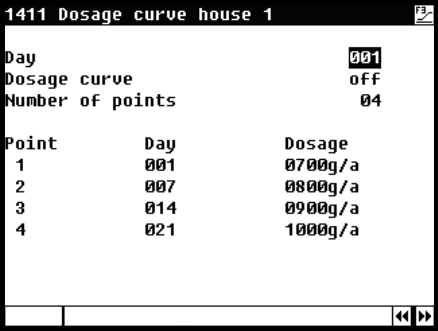
The current setting is determined from the curve, depending on the current day number. The feed computer uses this calculated setting to control the amount of feed dosed (provided that the curves are *on*)

- Remark!**
- ☐ The day numbers in the curve have to be consecutive numbers (see example).
 - ☐ If the day number of the first breakpoint is greater than 1, the setting for the first breakpoint will be maintained until the preset day number.

Number of points			04
Point	Day	Dosage	
1	001	0700g/d	
2	007	0800g/d	
3	021	0900g/d	
4	014	1000g/d	

Not allowed

DOSAGE



A curve can consist of a maximum of 15 breakpoints; the day number must be between 1 and 999. The current day number is increased automatically at "Beginning new day".

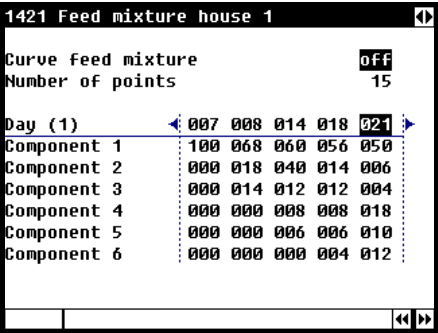
In addition to a day number when the settings of the breakpoint have to become active, you also set the daily amount per animal in the dosage curve.

You can set a separate dosage curve for every house. If the installer has activated the dosage curves, you can use **programmable curves** to have the amount per animal increase automatically as the animals grow older.

The total amount to be dosed is calculated again every day using:

- ☐ the curve settings
- ☐ the current day number
- ☐ the current number of animals in the house.

FEED MIXTURE (n/a with a silo weigher)



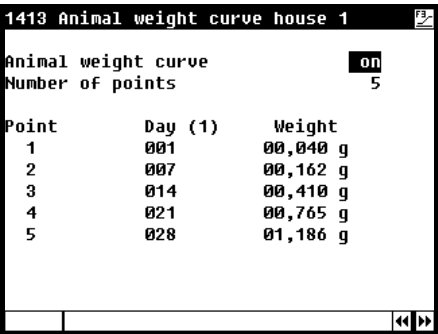
You can vary the mixture, depending on the age of the animals.

Note!

- ☐ You set a mixing ratio here instead of percentages of the total dose.
- ☐ If you change the number of components in screen 22 (Component name), **the feed mixture (mixing ratio) will also change.**
- ☐ If the Dosage curve is off, you can set the day number of the curve in this screen.

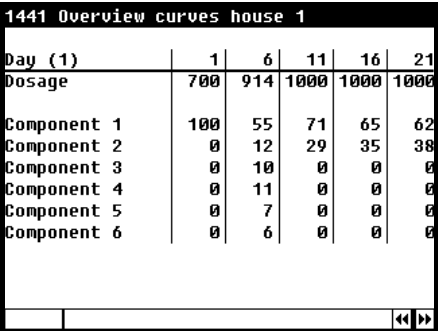
Day (1) : The current curve day number is displayed between brackets behind "Day". The arrow keys ◀▶ in the screen indicate that there are more columns with settings.

ANIMAL WEIGHT



At present, the growth curve of the animal weight is only used for the overview.

OVERVIEW CURVES



Overview of the feed curve showing the mixing ratios next to the amounts dosed per animal.

The curves of the other houses can be called up in a similar manner.

OVERVIEW

OVERVIEW FEED REGISTRATION

151 Overview house 1			15110 Overview house 1		
Today	1,285kg	129g/a	Today		
Sunday	1,240kg	124g/a	Component 1	901kg	90g/a
Saturday	1,193kg	119g/a	Component 2	193kg	19g/a
Friday	1,151kg	115g/a	Component 3	157kg	16g/a
Thursday	1,100kg	110g/a	Component 4	34kg	3g/a
Wednesday	1,072kg	107g/a	Component 5	0kg	0g/a
Tuesday	1,034kg	103g/a	Component 6	0kg	0g/a
Monday	1,157kg	116g/a			
Week total	7,947kg				
Total	363,437kg				
Clear overview	no				

Overview of the amount fed in which the total amount is shown, as well as the amount per animal (if animal data is available). As the numbers displayed are rounded, they can differ from the actual value.

The overviews of the other houses can be called up in a similar manner.

Clear overview

If you enter Yes next to **“Clear overview”**, all counter readings, including today's, will be deleted. All corresponding feed cycles will also be deleted.



Attention!

When the overview is cleared the data for today is also deleted. The corresponding counter on the PL-9200 is also cleared.

OVERVIEW FEED TIMES

1512 Feed times house 1			15120 Feed times house 1		
Today			Today		
Thursday			Per.	Begin	End g/a
Wednesday			1	6:00 -	6:47 42
Tuesday			2	11:00 -	11:51 40
Monday			3	17:00 -	17:57 47
Sunday					
Saturday					
Friday					

If a dosing timer is used, you can request the amount fed per animal per feeding period.

The feed times of the other houses can be called up in a similar manner.

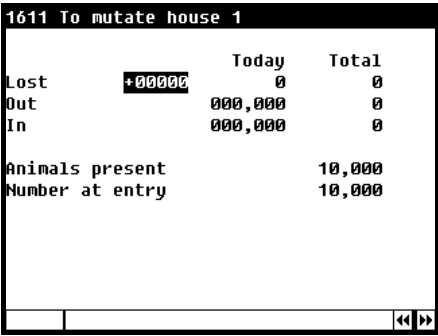
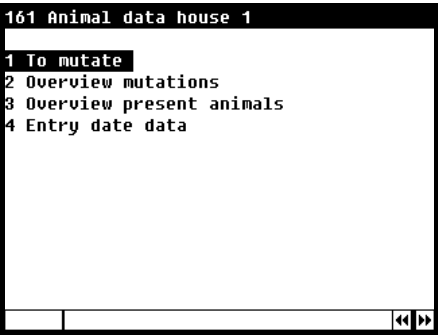
OVERVIEW STOCK

1513 Stock house 1		
Created stock	1,285kg	
Component 1	901kg	90g/a
Component 2	193kg	19g/a
Component 3	157kg	16g/a
Component 4	34kg	3g/a
Component 5	0kg	0g/a
Component 6	0kg	0g/a

Besides the total amount of stock created, the share per component is shown as well. This screen also shows the calculated amount per animal.

The created stock of the other houses can be called up in a similar manner.

ANIMAL DATA



Use the ◀◀ or ▶▶ key to select the next/previous house.

To mutate

- Lost** Indicate the number of animals that have died here. "Today's" mortality (or death rate) is lowered automatically by the value entered after which the entry is erased. If you have entered an incorrect value you can correct this by entering this as a positive value.
- Lost "Today"** Today's total mortality
- Lost "Total"** "Total" shows the total mortality calculated using the mortality of the previous days and of "Today"
- Out** If animals are removed from the house in the mean time, you can enter the number of animals removed at 'Out'.
- Out "Total"** The "Total" number of animals unloaded.
- In** If more animals are put in the house in the meantime, you can enter the number of animals added at 'In'.
- In "Total"** The "Total" number of animals added.
- Animals present** This is the sum of the number of animals at the time of entry – the total mortality - total out + total in.
- Number at entry** This is the number of animals at the time of entry.

OVERVIEW MUTATIONS

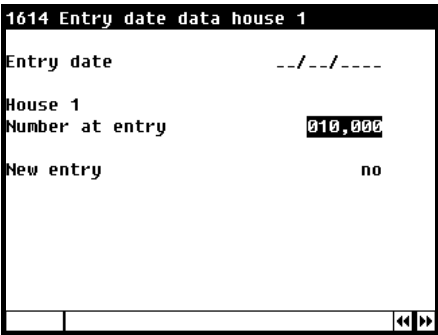
An overview of the mortality, the number of animals unloaded (out) and the number of animals added (in) per day is shown.

OVERVIEW PRESENT ANIMALS

An overview of the daily remaining number of animals in the house (per group) is shown.

ENTRY DATE

This data in this screen has to be entered at the start of new entry (a new round). The poultry computer uses this data to calculate the remaining number of animals, the feed dosage etc.



- Entry date:** The entry date is entered automatically if you enter "yes" at "New entry".
- Number at entry:** This is the number of animals at the time of entry.
- New entry:** If you enter "yes" at "New entry":
 - ☐ The "Lost" table is erased.
 - ☐ The entry date is fill-in.
 - ☐ The fill ratio is re-calculated (if the fill ratio depends on the entry details)
 - ☐ Feed dosing is started (if a feeding cycle is active)

The entry date is used to determine the age of the animals. This setting is also used to fill the mortality table that is related to the animals' age. The feed computer can store the details of the past 7 days.

ALARM FEED SYSTEM

PFB-35/70

```
17 Alarm feed system
1 Feed weigher
2 Seperation valve
3 Counters
4 -----
5 Supply speed
```

PFS-16

```
17 Alarm feed system
1 -----
2 Seperation valve
3 Counters
4 -----
5 Supply speed
```

PSW-1

```
17 Alarm feed system
1 -----
2 -----
3 Counters
4 Silo weighing
5 Supply speed
```

Provided that a counter has been linked to a silo weigher, menu item 5 will be displayed.

FEED WEIGHER

```
171 Alarm feed weigher
Alarm on
Discharge alarm on
Delay time 10m00s 10m00s
Alarm status No alarm
```

This screen enables you to switch the alarm of the feed weigher off/on, also see screen 4 "Status feed weigher", page 26.

In addition, this screen enables you to switch the "Discharge alarm" on/off and set the delay time for the "Discharge alarm".

The "Discharge alarm" serves to detect whether the feed under the feed weigher is actually discharged. If the discharge auger is driven and the sensor under the feed weigher detects feed during the "delay time", a "Discharge alarm" will be generated after the "Delay time" has expired.

SEPARATION VALVE

```
172 Alarm separation valve
Alarm on
Alarm status No alarm
```

This screen enables you to switch the alarm of the "Separation valve" on or off.

COUNTERS

```
1571 Alarm Feed counter 1
Alarm on
Maximum 1000kg
in 60 minutes
Alarm status No alarm
```

To be able to detect possible broken pipes or leaks in time, this screen enables you to set the maximum amount of feed/water that can flow through the auger/pipes during the preset period before an alarm is generated.

If the counter is linked to a dosing timer, the dosing timer output is also switched off.

You can change or call up the alarms of the other houses in the same way.

```
1731 Alarm Feed counter 1
Communication
Alarm on
```

If the counter of the PFA-9200 is linked to a counter of the PL-9200, the screen that is shown will be a copy of the screen of the PL-9200. You cannot switch the "Counter" alarm on or off on the PFA-9200; this is only possible on the PL-9200.

SILO WEIGHING (PSW-1)



This screen enables you to switch the alarm of the “Silo weigher” on or off.

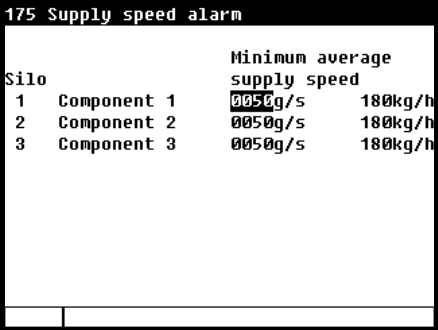
Use the keys to select the next/previous silo weigher.

You can change or call up the data of silo weigher 2 in the same way.

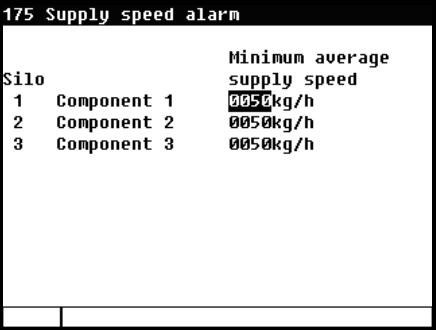
SUPPLY SPEED

You can set the minimum average supply speed in this screen; if the average supply speed is below the preset speed for 60 seconds, the “supply speed” alarm will be generated.

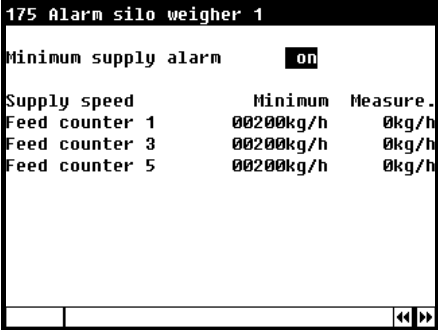
PFB-35/70



PFS-16



PSW-1



The setting is automatically converted into kg/hour.

The settings and measurements of silo 2 to silo 16 can be set up and/or called up in a similar manner.

Use the or key to select the next/previous silo weigher.

The settings and measurements of silo weigher 2 can be set up and/or called up in a similar manner.

STATUS HOUSE

181 Status house 1

Status house 1	on
Position separation valve	2
Current position	1
Entry date	--/--/----
New entry	no
Dosage curve	on
Mixture curve	on
Day	---

«»

You can use the status to switch the feed timer of the house on/off (see also screens 111 to 116, timers for houses 1 to 6).

To create a new entry change the setting "no" next to "New entry" to "yes".

- ☐ The entry date is made equal to the current (today's) date.
- ☐ The number of animals is set to "Number at entry".
- ☐ The mortality table is deleted (Note! The day number is **NOT adjusted automatically**, you will have to do this yourself).

Furthermore you can change the dosing curve, the curve of the composition (n/a for a silo weigher) and the day number of the curves in this screen.

STATUS SILO WEIGHER

187 Status silo weigher 1

Silo contents	4,067kg
Auger active	yes
Filling silo active	yes 4m43s
Minimum silo contents	0500 kg
Message active	yes

«»

Filling silo is active (time counts down)

You can change or call up the data of silo weigher 2 in the same way.

- ☐ **Silo contents:** This line displays the current silo contents.
- ☐ **Auger active:** The current auger status is shown in this line. Yes: silo auger running, No: silo auger not running.
- ☐ **Filling silo active:** The filled weight is determined automatically. If the silo contents increase by more than 50 kg per 30 seconds, the PFA-9200 assumes that filling is taking place (silo filling is active). You cannot zero the silo contents while filling is active. If the weight has not increased anymore for 5 minutes, the filling status is cancelled.
- ☐ **Minimum silo contents (option):** As soon as the silo contents drop to below the "Minimum silo contents" setting and the message is active, the corresponding relay (message) is switched on. You can switch off the message by entering 'No' for "Message active". **Note!** If you would like to receive a new message if the contents drop to below the minimum again, reactivate the message after filling.

The PFA-9200 feed computer can be linked to the PL-9200 poultry computer to enable the controllers to exchange data to control the feed system. In fact, the PFA-9200 feed computer can be controlled by several PL-9200 poultry computers. This is the reason why some settings such as filling, component names etc. can only be changed or entered on the PFA-9200 feed computer.

	Setting changeable on	
	PL-9200 (screen nmb.)	PFA-9200 (screen nmb.)
Silo contents	No, copy of PFA-9200 (211)	YES ¹ (31)
Component names	No, copy of PFA-9200 (212)	YES (32)
Silo assignment	No, copy of PFA-9200 (213)	YES ¹ (33)
Silo mix remainder	No, copy of PFA-9200 (214)	YES ¹ (34)
Status silo	No, copy of PFA-9200 (215)	YES ¹ (35)
Filled	No, copy of PFA-9200 (216)	YES (36)
Status feed weighing	Menu choice disabled (25)	YES ¹ (4)
Dosage timer	YES (511..516)	No, copy of PL-9200 (111..116)
Week programme	YES (5181..5186)	No, copy of PL-9200 (121..126)
Feed mixture	YES (221..226)	No, copy of PL-9200 ¹ (131..136)
Dosage curves	YES (531..536)	No, copy of PL-9200 (1411..1461)
Curve feed mixture	YES (231..236)	No, copy of PL-9200 ¹ (1412..1462)
Overview curves	YES (241..246)	YES (1414..1464)
Clear counter (dosage)	No, copy of PFA-9200 (41..46)	YES (1511..1561)
Growth curve animal weight	YES (166)	No ²
Animal data	YES (641)	No ³
Alarm counters	YES (491..496)	No, copy of PL-9200 (171..176)
First day of the week	No, copy of PFA-9200 (5)	YES (5)
Beginning new day	No, copy of PFA-9200 (5)	YES (5)

All data that concerns the menu option "Feed system" is copied from the relevant PL-9200 poultry computer, except for the menu option "Overviews". This means that you can only change the data on the corresponding PL-9200 poultry computer.

¹ Does not apply if only one silo weigher is present (e.g. PSW-1).

² The "Animal weight" option is not available in the "Curves" submenu.

³ The animal data submenu only lets you call up an overview of the animals present. All other options are not available.

Communication

When copying a setting or several settings from another controller via the communication loop, the text "Communication" is shown in the top right-hand corner of the screen.

OVERVIEW

OVERVIEW FEED REGISTRATION

151 Overview house 1			15110 Overview house 1		
Today	1,285kg	129g/a	Today		
Sunday	1,240kg	124g/a	Component 1	901kg	90g/a
Saturday	1,193kg	119g/a	Component 2	193kg	19g/a
Friday	1,151kg	115g/a	Component 3	157kg	16g/a
Thursday	1,100kg	110g/a	Component 4	34kg	3g/a
Wednesday	1,072kg	107g/a	Component 5	0kg	0g/a
Tuesday	1,034kg	103g/a	Component 6	0kg	0g/a
Monday	1,157kg	116g/a			
Week total	7,947kg				
Total	363,437kg				
Clear overview	no				

Overview of the amount fed in which the total amount is shown, as well as the amount per animal (if animal data is available). As the numbers displayed are rounded, they can differ from the actual value.

The overviews of the other houses can be called up in a similar manner.

Clear overview

If you enter Yes next to **“Clear overview”**, all counter readings, including today's, will be deleted. All corresponding feed cycles will also be deleted.



Attention!

When the overview is cleared the data for today is also deleted. The corresponding counter on the PL-9200 is also cleared.

OVERVIEW FEED TIMES

1512 Feed times house 1			15120 Feed times house 1		
Today			Today		
Thursday			Per.	Begin	End g/a
Wednesday			1	6:00 -	6:47 42
Tuesday			2	11:00 -	11:51 40
Monday			3	17:00 -	17:57 47
Sunday					
Saturday					
Friday					

If a dosing timer is used, you can request the amount fed per animal per feeding period.

The feed times of the other houses can be called up in a similar manner.

OVERVIEW STOCK

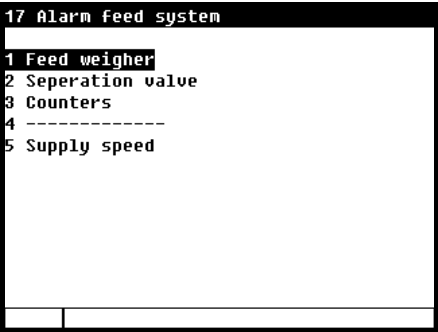
1513 Stock house 1		
Created stock	1,285kg	
Component 1	901kg	90g/a
Component 2	193kg	19g/a
Component 3	157kg	16g/a
Component 4	34kg	3g/a
Component 5	0kg	0g/a
Component 6	0kg	0g/a

Besides the total amount of stock created, the share per component is shown as well. This screen also shows the calculated amount per animal.

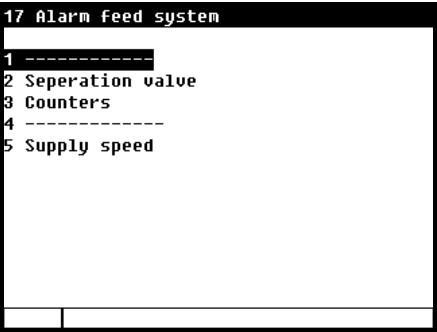
The created stock of the other houses can be called up in a similar manner.

ALARM FEED SYSTEM

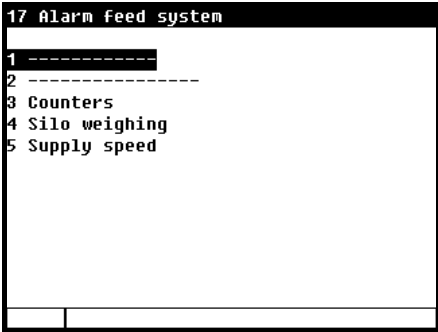
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PFS-16

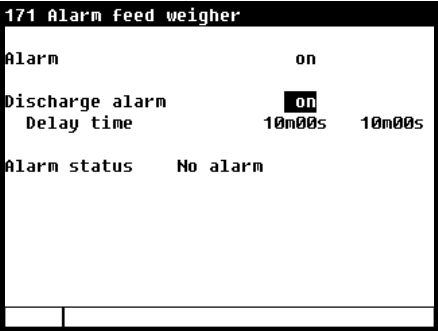


PSW-1



Provided that a counter has been linked to a silo weigher, menu item 5 will be displayed.

FEED WEIGHER

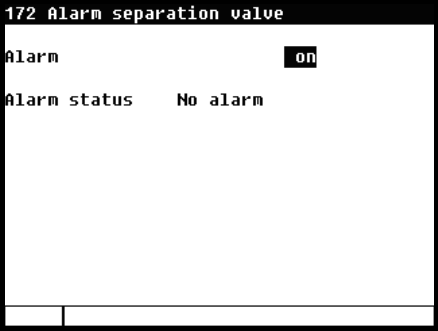


This screen enables you to switch the alarm of the feed weigher off/on, also see screen 4 "Status feed weigher", page 26.

In addition, this screen enables you to switch the "Discharge alarm" on/off and set the delay time for the "Discharge alarm".

The "Discharge alarm" serves to detect whether the feed under the feed weigher is actually discharged. If the discharge auger is driven and the sensor under the feed weigher detects feed during the "delay time", a "Discharge alarm" will be generated after the "Delay time" has expired.

SEPARATION VALVE



This screen enables you to switch the alarm of the "Separation valve" on or off.

COUNTERS

1731 Alarm feed counter 1		Communication
Alarm	off	
Maximum in	1000kg	60 minutes
Alarm status	No alarm	
		◀◀ ▶▶

If the counter of the PFA-9200 is linked to a counter of the PL-9200, the screen that is shown will be a copy of the screen of the PL-9200. You cannot switch the "Counter" alarm on or off on the PFA-9200; this is only possible on the PL-9200.

You can change or call up the alarms of the other houses in the same way.

SUPPLY SPEED

You can set the minimum average supply speed in this screen; if the average supply speed is below the preset speed for 60 seconds, the "supply speed" alarm will be generated.

PFB-35/70

175 Supply speed alarm			
Silo		Minimum average supply speed	
1	Component 1	0050g/s	180kg/h
2	Component 2	0050g/s	180kg/h
3	Component 3	0050g/s	180kg/h

PFS-16

175 Supply speed alarm			
Silo		Minimum average supply speed	
1	Component 1	0050kg/h	
2	Component 2	0050kg/h	
3	Component 3	0050kg/h	

PSW-1

175 Alarm silo weigher 1			
Minimum supply alarm			on
Supply speed	Minimum	Measure.	
Feed counter 1	00200kg/h	0kg/h	
Feed counter 3	00200kg/h	0kg/h	
Feed counter 5	00200kg/h	0kg/h	
		◀▶	

The setting is automatically converted into kg/hour.

The settings and measurements of silo 2 to silo 16 can be set up and/or called up in a similar manner.

Use the  or  key to select the next/previous silo weigher.

The settings and measurements of silo weigher 2 can be set up and/or called up in a similar manner.



STATUS HOUSE

All data in this screen is copied from the PL-9200 poultry computer.

181 Status house 1

Communication

Status house 1on

Position separation valve1

Current position1

Dosage curveon

Mixture curveon

Day003

- ➡ See PL-9200 screen 511 and/or 512 ("Dosage timer house 1" on/off)
- ➡ See PL-9200 screen 531 and/or 532
- ➡ See PL-9200 screen 231 and/or 232
- ➡ See PL-9200 screen 16 (or press F2 on the PL-9200)

You can only enter a new entry on the PL-9200, see screen 644.

You can call up the status of the other houses in the same way.

STATUS SILO WEIGHER

187 Status silo weigher 1

Silo contents4,067kg

Auger activeyes

Filling silo activeyes 4m43s

Minimum silo contents0500kg

Message activeyes

Filling silo is active (time counts down)

You can change or call up the data of silo weigher 2 in the same way.

- ❑ **Silo contents:** This line displays the current silo contents.
- ❑ **Auger active:** The current auger status is shown in this line. Yes: silo auger running, No: silo auger not running.
- ❑ **Filling silo active:** The filled weight is determined automatically. If the silo contents increase by more than 50 kg per 30 seconds, the PFA-9200 assumes that filling is taking place (silo filling is active). You cannot zero the silo contents while filling is active. If the weight has not increased anymore for 5 minutes, the filling status is cancelled.
- ❑ **Minimum silo contents (option):** As soon as the silo contents drop to below the "Minimum silo contents" setting and the message is active, the corresponding relay (message) is switched on. You can switch off the message by entering 'No' for "Message active". **Note!** If you would like to receive a new message if the contents drop to below the minimum again, reactivate the message after filling.

2

STATUS FEEDING SYSTEM

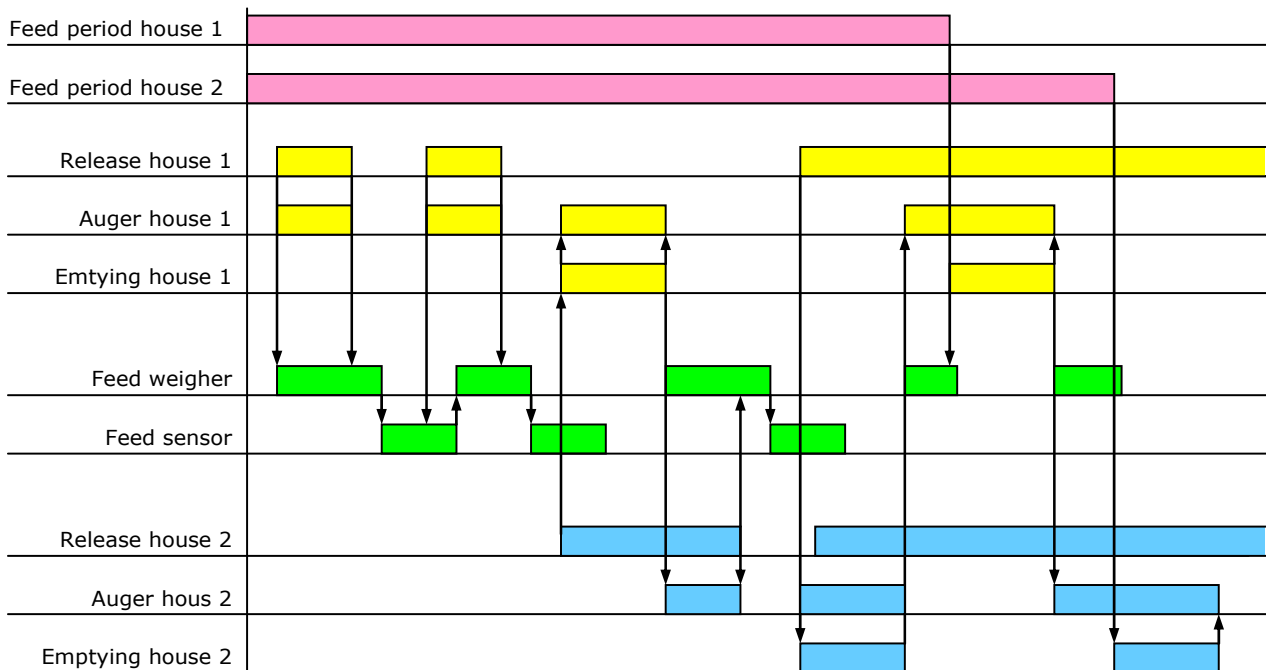
2 Status feeding system				
Active house	Feed weigher	Timer	Weigher Auger	standby Release
House 1	on	on	0m26	yes
House 2	off	off	off	no
House 3	off	off	off	no
House 4	off	off	off	no
House 5	off	off	off	no
House 6	off	off	off	no
Sensor minimum			no feed	

yes = feed demand from house.
No = **no** feed demand from house.
2 or higher = time delay release auger started.

off = auger not active.
on = auger active.
2 or higher = time emptying auger started.

off = dosage timer is off or feeding period has ended.
off blinking = filling after feeding period has started.
on = dosage timer is on or feeding period is active.

Example of feed using release contacts



After the release contact has been broken again, the current portion is finished first, and then the feed weigher receptacle is filled until the feed sensor detects feed, so that the next feed request can be dealt with faster.

E.g. after the release contact of house 1 is broken again and the release contact in house 2 is made, the emptying time of house 1 starts in order to empty the receptacle. The feed in the receptacle will still end up in house 1. However, this means that after the release contact in the house has been broken (receptacle in house is "full") the receptacle in the house must still have sufficient capacity to store at least the contents of the feed weigher receptacle.

When the end of a feeding period is reached, the last portion is finished first before the receptacle emptying time starts. At the end of the dosing cycle, the feed will always end up in the correct house.

The time delay "**on the release contact**" must prevent the auger switching continuously on and off, this is bad for the life time of the auger motor (default delay time = 0 seconds).

SILO CONTENTS

21 Silo contents			
Silo	Contains	Filled	Contents
1	Component 1	00,000kg	09,865kg
2	Component 2	00,000kg	05,630kg
3	Component 3	00,000kg	04,593kg
4	Component 4	00,000kg	02,584kg
5	Component 5	00,000kg	04,621kg
6	Component 6	00,000kg	03,129kg

For every silo it is indicated which component is in the silo and what the current silo contents are (stock or shortage). You can also enter the filled volume per silo; this is then added directly to the silo contents and the filled counter is reset to 0 automatically.

If there are 9 or more silos the title bar will be expanded with the symbol . This symbol indicates that you can call up the other silos using the "up" and "down" cursor keys ( ).

COMPONENT NAMES

22 Component names	
Number of components	6
Component	
1 component 1	
2 component 2	
3 component 3	
4 component 4	
5 component 5	
6 component 6	

22 Component names	
Number of components	6
Component	
1 wheat	
2 corn	
3 barley	
4 sorghum	
5 soy bean flour	
6 fish-flour	

You can change the names of the components with the 0..9 keys. See page 3 for further information on editing text.

We recommend not setting more types of component than required. If you have more types of component than silos and you change the component type in a silo, you also have to change the mixture, the curve settings, the silo contents and the silo assignment. If you fail to do this, the "Component not in silo" error message will be displayed in the Alarms screen.

Example: you have 3 silos and 4 types of component. Component 3 is in silo 3 and then you change the type of component in silo 3 from component 3 to component 4. Proceed as follows then:

- ☐ Change mixture, see page 9.
- ☐ Change mixture if there is a feed curve, see page 10.
- ☐ Change silo contents, see page 22.
- ☐ Change silo assignment, see page 22.

SILO ASSIGNMENT

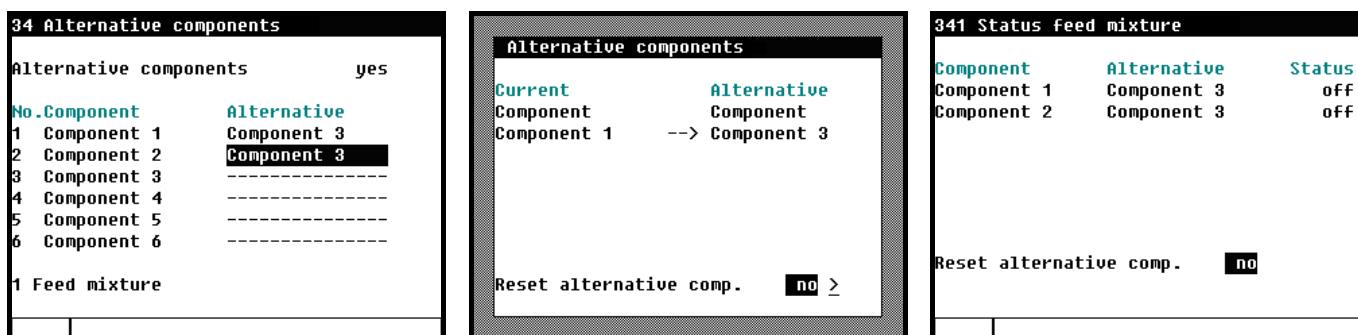
33 Silo assignment		
Component	Silo	Search sequence
Component 1	01	00 00 00 00
Component 2	02	00 00 00 00
Component 3	03	00 00 00 00
Component 4	04	00 00 00 00
Component 5	05	00 00 00 00
Component 6	06	00 00 00 00

The silo column shows the active silo from which the component is dosed.

If more components of the same type are present, you can enter the numbers of the silos containing the same type of component in the search sequence. Should a silo get "blocked" for any reason (e.g. due to a silo alarm or if the current silo number from which the component is to be dosed is set as 0), the program will automatically look for a silo containing the same type of component. If you do not enter a sequence and a silo gets "blocked" the "invalid silo" alarm will be displayed.

ALTERNATIVE COMPONENTS

If you have set an alternative component for a component and there is a supply alarm for the component in question, the computer will automatically switch over to the alternative component.



The "Status feed mixture" screen only shows the components that form a part of the current feed mixture.

You can use the "Reset alternative comp." setting to clear all alternative components (all statuses will be set to "off"). After a reset, it may take some minutes for feeding to start again (the new feed mixture must be determined).

If "Alternative components" is set to "yes", the left-hand screen will be displayed to show that the feed computer has selected an alternative component. Press the link behind "Reset alternative comp." $\geq$ to bring up the previous screen on the display.

SILO MIX REMAINDER

If the silo is nearly empty, the remainder in the silo will be mainly made up of salts, minerals and finely ground feed. If the silo weight drops to below the preset value, the controller will try to mix the remainder with feed from another silo. However, "Silo mix remainder" must be active then and there must be a similar type of feed (component) in another silo.

- ☐ If this condition is complied with, the remainder will be mixed on the basis of 50% remainder + 50% feed from another silo.
- ☐ If this condition is NOT complied with, the remainder will be mixed on the basis of 50% remainder + stop (find similar feed type) + 50% remainder.

35 Silo mix remainder			
Silo mix remainder			
			no
Silo	Contains	Contents	Start
1	Component 1	1,005kg	00550kg
2	Component 2	2,601kg	00550kg
3	Component 3	20,000kg	00550kg
4	Component 4	16,600kg	00550kg
5	Component 5	15,990kg	00550kg
6	Component 6	16,995kg	00550kg

If there are 9 or more silos, the title bar will be expanded with the symbol $\updownarrow$. This symbol indicates that you can call up the other silos using the "up" and "down" cursor keys ($\blacktriangle$ $\blacktriangledown$).

SILO STATUS

36 Silo status		
Silo	Current status	Today
1	blocked	200kg
2	free	462kg
3	free	236kg
4	free	523kg
5	free	0kg
6	free	0kg

In addition to the current silo status, this screen also shows how much feed has been dosed from the silo today. You can change the status shown (e.g. from “free” to “blocked” or vice versa). It may take tens of seconds before the status is transferred to the feed weigher.

If there are 9 or more silos the title bar will be expanded with the symbol . This symbol indicates that you can call up the other silos using the “up” and “down” cursor keys ( ).

The silo status can be blocked by:

- ☐ a manual change of status
- ☐ no supply of feed from the selected silo
- ☐ the feed supply speed being too low

A silo is unblocked:

- ☐ after restarting the feed weigher (see page 15)
- ☐ by briefly pressing the [RESET] key on the feed weigher
- ☐ at “Beginning new day”

FILLED

37 Silo weigher 1 Filled		
Date	Time	Filled
--/--/----	14:25	4,900kg
--/--/----	14:49	4,950kg
--/--/----	14:28	4,850kg
--/--/----	14:42	4,900kg
--/--/----	14:20	4,950kg

An overview of the last 5 times that you have entered the filling details in screen 21 “Silo contents” is shown for every individual silo. In addition to the amount, the date and time of filling are also shown. It is important that you enter these details immediately after filling (before the next feeding period).

The settings and measurements of silo 2 to silo 16 can be set up and/or called up in a similar manner.

3

SILO'S (PSW-1) (only applicable on a PSW-1 silo weigher)

3 Silos
1 Silo contents
2 -----
3 -----
4 -----
5 -----
6 Silo status
7 Filled

Note! If you use silo weighing you cannot mix different feeds. In the event of silo weighing, your installer assigns the silo directly to a house. E.g. if you have two silo weighers, you can use the first silo weigher to feed hens and the second silo weigher to feed cocks.

SILO CONTENTS

31 Silo contents		
Silo	Filled	Contents
Silo weigher 1	00,000kg	09,865kg
Silo weigher 2	00,000kg	05,630kg

You can enter the amount filled per silo; the filling data (see screen 37) is updated automatically.

Note! Only enter the filling data if the PFA-9200 could not automatically update the fill data itself, e.g. because the PFA-9200 of PSW-1 was off.

The current silo contents are shown for every individual silo weigher.

STATUS SILO WEIGHER

36 Silo status	
Silo	Fed
Silo weigher 1	462kg
Silo weigher 2	236kg

This screen shows how much feed has been dosed from the silo weigher today.

FILLET

37 Silo weigher 1 filled		
Date	Time	Filled
--/--/----	14:25	4,900kg
--/--/----	14:49	4,950kg
--/--/----	14:28	4,850kg
--/--/----	14:42	4,900kg
--/--/----	14:20	4,950kg

An overview of the last 5 times that you have entered the filling details in screen 21 "Silo contents" is shown for every individual silo. In addition to the amount, the date and time of filling are also shown. It is important that you enter these details immediately after filling (before the next feeding period).

The settings and measurements of silo weigher 2 can be set up and/or called up in a similar manner.

4

STATUS FEED WEIGHING

You can also switch the alarm generated by the PFB-35/70 feed weigher on or off in this screen (except the communication alarm).

4 Status feed weigher	
Current status	Weigher standby
Alarm	No alarm
Contents feed hopper	15,448g
Active auger	House 1
Active silo	1
Current component	Component 1
Position separation valve	1 1
Present dosage	35kg
To feed	979kg
Alarm	on
Restart weigher	no
1 Overview components	

- ← See status table below
- ← See alarm codes page 30
- ← Active auger
- ← Current silo number (0=Error in search sequence)
- ← Current component, the component is only shown during the fill process of the feed weigher.
- ← The total amount of feed that still must be fed by the current auger valve today ¹.
- ← During dosing, you can call up an overview of the amount dosed so far.

¹ If no dosage timer is installed, the capacity of the feed hopper in kilogram per weighing (portion) is shown.

If there is an alarm and you enter "Restart" or "Abort" at "Restart weigher":

- ☐ the active alarm will be switched off (reset)
- ☐ Restart: the system will try to finish the active portion.
- ☐ Abort: the active weighing cycle will be aborted (reset) and a new weighing cycle will be started.

Current status	Description
Weigher standby	The weigher is waiting for a start command before starting a new weighing cycle
Wait for release	Because there is feed in front of the feed sensor the feed weigher cannot start a new weighing cycle. NOTE! This has nothing to do with whether or not you work with release contacts.
Closing discharge hatch	The weighing cycle starts again after the discharge hatch has been closed. This is repeated until the feeding cycle has been completed.
Calculating dosage	The amount to be dosed per component is determined on the basis of the feed mixture.
Taring feed hopper	The empty feed weighing hopper is tared.
Filling feed hopper	After taring the weighing hopper, the silo auger is started and the weighing hopper is filled with the components indicated.
Discharging feed hopper	The discharge hatch is opened after filling the weighing hopper with the right amount of every component.
End of weighing cycle	The feeding cycle has been completed.
Restart weighing cycle	You may have to restart the feeding cycle after a fault. Change "no" to "yes" to restart the weigher.

Alarm feed weigher

Cancelling an alarm feed weigher:

- ☐ Briefly press the reset key of the PFB-35/70 feed weigher (the active alarm is switched off and the system tries to finish the active dose).
- ☐ Press the reset key of the PFB-35/70 feed weigher for 5 seconds or more (the active portion is aborted)
- ☐ If the alarm continues to occur, then switch it off in the above screen, interrupt the active feeding cycle, go to the PFB-35/70 feed weigher and remedy the alarm situation on site. Then switch on the alarm again in the above screen and switch on the active feeding cycle again*.

See manual "PFB-35/70" for more information about the causes of the alarm.

* The active feeding cycle can be interrupted by setting the corresponding dosing timer on the PFA-9200 to "off". Switch the relevant dosing timer "on" again after remedying the problem.

OVERVIEW COMPONENTS

31 Overview components	
To feed	2,139kg
Wheat	962kg
Corn	299kg
Barley	213kg
Sorghum	149kg
Soy bean flour	342kg
Fish-flour	171kg

If the feed weigher is active, you can call up the “Overview components” screen.

In addition to the total amount still to be fed, this screen also shows the amounts still to be dosed for the individual components.

5

DATE/TIME

5 Date/Time	
Time	--:--h
Year	----
Month	--
Day	--
First day of the week	---
Beginning new day	--h

In addition to date and time you can set the "First day of the week". The "First day of the week" is used to determine the weekly totals.

If, for example, you set "First day of the week" to **Su** (Sunday) the week totals will be calculated on Sunday (a week total is the sum of Sunday, Saturday, Friday etc. to Monday)

In addition, you can also set the beginning of a new day here by entering the hour when the new day must start behind "Beginning new day".

Be careful when changing the "Beginning new day" setting; if this time is in a dosing period the error message "Beginning new day in period" will be generated.

"Beginning new day":

- ☐ All day-dependent data is moved 1 day further and today's details are deleted.
- ☐ If a week has passed, the week total will be determined again.
- ☐ The day number is increased
- ☐ All data that comes from a curve is determined again.
- ☐ The weekly programme is determined.
- ☐ Send to the PL-9200 poultry computer

Note! If the PFA-9200 is linked to a PL-9200 poultry computer via the communication loop, the "First day of the week" and "Beginning new day" settings are copied to the PL-9200 poultry computer (this means that you will not be able to change these settings on the PL-9200 poultry computer).

6

SYSTEM

6 System	
Device	PFA-9200
Software version	----
Software date	--/--/----
Language / Taal	
Sprache / Langue	
Язык	ENG
Contrast	--
Brightness	---%
on-time	---s
Cursor left	yes

This screen shows the device type as well as the software program version.

Language: You can set the language of the screen texts here. The language in this example is set to ENG (English)

You can also change the language by pressing and holding functional key F1 while simultaneously pressing the cursor key pointing to the right.

Contrast Indicates the ratio between the "colours" white and black.

Brightness You can set the light intensity of the background lighting here.

on-time Number of seconds that the background lighting stays on after the last time a key was pressed. If you set the on-time to 0 seconds the background lighting stays on for ever.

Cursor left "Yes" when you are going to change a setting, the cursor is placed on the digit which is the furthest to the left.

"No" when you are going to change a setting the cursor is placed on the digit which is the furthest to the right.



You can switch off the main alarm in this screen. In addition, the alarm cause and control are displayed (and possibly the terminal number or address). See also "Alarm key" page 4

LATEST ALARMS

The last 5 alarm causes which caused the alarm relay to de-energize will be stored. The date and time of the alarm are displayed in addition to its cause.

1 Latest alarms house			
Alarm 0	-- January	----	--:--
Alarm code	No alarm		
Control			
Alarm 1	-- January	----	--:--
Alarm code	No alarm		
Control			
Alarm 2	-- January	----	--:--
Alarm code	No alarm		
Control			

Alarm 0 The cause of the *alarm that occurred the last* is shown behind "Alarm 0". In addition, the time until which the alarm is/was active is shown.

You can call up the data of the previous alarms by pressing the Arrow down key.

EXTERNAL ALARMS

2 External alarms		
	Alarm	Alarm status
Extern. alarm 1	on	No alarm
Extern. alarm 2	on	No alarm
Extern. alarm 3	on	No alarm
Extern. alarm 4	on	No alarm
Extern. alarm 5	on	No alarm
Extern. alarm 6	on	No alarm

Your installer can change the names of the "External alarms" in to any name of your choice (max. 15 characters per name).

RECEIVING NO ALARMS FROM FEED WEIGHER

4 Status feed weigher		
Current status	Discharging	feed hopper
Alarm		No alarm
Contents feed hopper		15,448g
Active auger		House 1
Active silo		1
Current component		Component 1
Position separation valve		1 1
Present dosage		35kg
To feed		979kg
Alarm		off
Restart weigher		no

You do not get an **alarm** on the PFA-9200 feed computer although the **alarm relay** of the PFB-35/70 feed weigher or PFS-16 feed weighing computer has been **energized**. You have therefore probably switched off the alarm in the "Status feed weighing" screen. As a result, the alarms that come from the feed weigher or PFS-16 are **not passed on** to the PFA-9200 feed computer. Switch the alarm "on" again.



Installation errors such as "Output already assigned", "Incorrect output type", "Input already assigned" etc. have to be solved first before putting the system into operation.

Attention: NEVER FORGET TO SWITCH THE ALARM BACK "ON" when you have switched this feature off 'temporarily', e.g. to solve a problem. Failing to switch it back on may have adverse effects for humans, animals, equipment or property.

Preferably use the  **OFF (alarm retard)** function to solve a problem.

ALARM CODES

Alarm code	Description
Supply speed	The supply speed has been lower than the minimum supply speed setting for the last 60 seconds. The silo status is set to "blocked".
Discharge alarm	The contents of the mixing silo have not decreased or increased in the past 60 seconds, although a drive command has been sent to the feeding system.
Alarm external house	Alarm in another house, only if a communication loop is present. This alarm does not trigger the alarm contact of the feed computer.
Alarm unknown (xxxx)	A non-documented alarm code has occurred. Note down the number that is displayed and contact your supplier.
Alarm silo x	Silo number x is blocked. Supply speed too low, check that there is still feed in the silo, check the silo auger.
Beginning new day in period	The "Beginning new day" time is in a period; this is not allowed. The "Beginning new day" time MUST BE BEFORE the first period.
Load cell x faulty	☐ Load cell x: not connected. ☐ Load cell x: The voltage between E- and S+ and/or between E- and S- is not between 2.0 V and 3.0 V. Check the voltage. Check the wiring. ☐ Load cell 0 faulty, this message comes from the PFS-16, check the functioning of the load cells on the PFS-16.
Capacity silo too low	The dose that has been calculated is greater than the maximum amount of feed that fits in the mixer. Adjust the dosing amount on the PFS-16.
Communication error	☐ No communication with feed weigher. ☐ Faulty communication address ☐ No communication PCB in the feed weigher ☐ Poor connection with the feed weigher.
Component not in silo	☐ The mixture shows a value unequal to 000 for the components which are not used. ☐ The silo contents show the silo with the component as blocked, see also page 24. ☐ The component assigned to the silo according to the silo contents displayed is not what should be in the silo according to the silo assignment.
Configuration changed	Module configuration (inputs/outputs etc.) changed. Read in the module number again
Dosage too low	The amount of feed or water dosed is less than the preset minimum amount to be dosed.
External alarm x	An external alarm occurred.
Not a valid input	The input number does not exist on the module.
Not a valid output	The output number does not exist on the module.
Wrong terminal setting	Faulty assignment. The function you have assigned to the terminal is not supported by the module.
No communication address	Device address PFA-9200 feed computer missing or device address feed weigher missing.
No weight reduction	Unloading is active and the pre-set weight reduction is not reached within the time set (this is only displayed if "Alarm discharging active" is set to "on" at the PFS-16).
No input assigned	No input terminal number entered.
No maximum sensor	If you use the "Create stock" setting, you have to install a maximum sensor in the "hopper" of the house.
No release sensor	If you use the "Empty auger" setting, you have to install a release sensor in the "hopper" of the feed weigher.
No PFB-35/70	An input/output refers to the PFB-35/70 but no PFB-35/70 has been installed.
No PFS-16	An input/output refers to the PFS-16 but no PFS-16 has been installed.
No output assigned	No output terminal number entered.
No feed weigher	An input/output refers to the feed weigher but no feed weigher has been installed.

No information from houses	A central control installed on the PFA-9200 feed computer has not received any data from the external controller to control the central control (e.g. an incorrectly set feed weighing computer or an incorrect central control number, communication broken etc.). If the PFA-9200 is connected to a PL-9200 poultry computer: ☐ Timer at the PL-9200 has not been set to communication. ☐ The communication number on the PFA-9200 does not match the communication number on the PL-9200. ☐ The feed system on the PL-9200 has not been set to PFA-9200. ☐ The feed counter on the PL-9200 has not been set to PFA-9200. ☐ You use dosing timers and the "Counter in group" setting of one of the relevant counters has been set to "Both groups". This is not allowed; choose "Animals 1" or "Animals 2". ☐ Three or more timers on the PL-9200 are set to communication. This is not allowed. ☐ Software version PL-9200 is too old, update software. ☐ Status PL-9200 poultry computer is set to "not in use".
Input already assigned	The input has been assigned to two or more controls.
Propagation time expired Invalid position valve	☐ The "Separation valve" has been sent to a new position, but the position of the valve has not changed for the past 60 seconds (the default setting for the max. running time is 60 seconds). ☐ The current position of the separation valve is different from the valve position required (you have not entered a separation valve position at the auger yet). ☐ Check the functioning of the "separation valve". The "Separation valve" has been set to manual operation; switch it to automatic operation.
Discharge hatch closed Discharge hatch opened	Valve has not opened/closed after 10 seconds although it was sent a drive signal to open/close it.
Maximum supply alarm	The counter exceeds the maximum setting within the time set, see also page 13.
Mixer not empty	There is too much remaining feed in the mixer when filling the mixer. Check the cause (feed encrustation etc.), and manually drain the mixer. Then restart the feed system.
Module not installed	The module number set for the terminal does not exist.
Module not responding	Module address not found, check the settings on the module.
Module reset alarm	Module continues to reset due to a fault, check the module.
Unknown terminal type	This type of terminal does not exist.
Not a valid input	The input number does not exist on the module.
Invalid mix percentages	The preset mixing percentages, where the mixer is active for a short time, must be ascending (i.e. must go up). Check the mixing percentages on the PFS-16.
Invalid poultry computer	Software version PL-9200 is too old, update software PL-9200.
Invalid mixture	The mixture is on -0.0% for all components, although a certain amount of feed has to be dosed.
Not a valid period	☐ The times set for a timer must be ascending and the difference between "Begin" and "End" must be at least 1 minute, see also page 6. ☐ Date and/or time on the PFA-9200 feed computer are different from the date and/or time on the PL-9200 poultry computer. ☐ The PL-9200 poultry computer is connected to a PFA-9200 feed computer which makes use of filling and lag times. For further details see timers page 6.
Invalid silo	☐ The component is not in the silo selected, see page 22. ☐ This error message may also occur if a component has not been assigned to a silo but a value has been entered next to the component in the mixture, see also page 9 to page 10.
Not a valid counter	The type of counter is different from the type of timer (e.g. no feed counter selected for feed dosing).
Not a valid output	The output number does not exist on the module.
Invalid silo output	The silo output number does not occur on the feed weigher module(s) or no module has been installed.

Invalid search sequence	❑ The silo number does not exist. ❑ Silo assignment changed. ❑ The silo number has been set to 0; the component must always be followed by a valid silo number ❑ A non-existent silo number has been entered for the component.
Conflicting periods	The 'Conflicting periods' error message occurs if 1 or more feed dosing timers have to be active at the same time.
Sensor faulty	The values measured by the sensor (feed sensor, load cell etc.) are outside the preset limits.
Feed detected by sensor	The feed sensor is covered by feed at the moment when the unloading valve opens.
Silo already assigned	The same number has been entered a number of times in the silo assignment search sequence, see page 22.
Silo xx empty	Silonumber xx is empty, see page 15 " <i>Minimum silo contents</i> "
Silo already assigned	The same number has been entered a number of times in the silo assignment search sequence, see page 22.
Invalid silo weigher	Incompatible software version on the PSW-1 silo weigher. Update software PSW-1.
Tare: value too high	The measured value after taring is too high.
Tare: fluctuating value	The measured value is not stable during taring. The measured weight is unstable (due to a 'rocking' weighing hopper, for example). Environment vibrations influence measurements.
Tare: value too low	The measured value after taring is too low.
Counter already assigned	The counter has been assigned to two or more controls.
Output already assigned	The output has been assigned to two or more controls.
Feed weigher (xx)	xx = alarm code received from the feed weigher feed weigher or from the PFS-16 feed weighing and mixing computer. See page 26 for more information about the causes of the alarm on the feed weigher . See manual "PFS" for more information about the causes of the alarm on the PFS computer.
Invalid feed weigher	Incompatible software version on the PFB-35/70 feed weigher. Update software PFB-35/70.

Installation errors such as "Output already assigned", "Incorrect output type", "Input already assigned" etc. have to be solved first before putting the system into operation.

Attention: **NEVER FORGET TO SWITCH THE ALARM BACK "ON"** when you have switched this feature off 'temporarily', e.g. to solve a problem. Failing to switch it back on may have adverse effects for humans, animals, equipment or property.
Preferably use the *alarm retard* function to solve a problem.

