

EasySlider

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v 3.2

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1 System description

EasySlider is computer-controlled dry feeding system used for sows that are kept individually, e.g. in farrowing pens or stalls. Electronic animal identification via antenna and transponder is not required.

Each sow is assigned her own EasySlider unit. Each sow chooses for herself when and how much she wants to eat. To receive feed, the sow actuates a pendulum inside the feed pipe. During active feeding times, if the sow is also entitled to receive feed, a ration is dispensed. The sow can only demand the next ration once a defined eating time has elapsed.

EasySlider is controlled by the BigFarmNet Manager. The program defines individual feed curves per sow and the user can assign individual EasySlider pens to each sow. Moreover, up to five feeding times can be programmed.

The application allows the user to monitor and control the eating behaviour of each sow. This information provides important knowledge on each sow's state of health.

1.1 Requirements to install the EasySlider application

The EasySlider application uses the 510*pro*, which replaces the MC700, as control computer. Each 510*pro* control computer can control a maximum of 16 CAN bus junction boxes. Up to 25 EasySlider units can be set up per CAN bus junction box. This means that one 510*pro* can control a maximum of 400 EasySlider feeding spaces.

The following software licenses are **required** to run the EasySlider application:

Code no.	BigFarmNet Manager license	Use
91-02-6605	License 510 – BigFarmNet EasySlider	1 per 510 <i>pro</i>
91-02-6500	BigFarmNet Manager – Basic installation	1 per BigFarmNet network
	software	
91-02-6555	License BigFarmNet Manager – Sow	1 per BigFarmNet network
	manager	
91-02-6558	License BigFarmNet Manager – Sow	
	management < 1000 sows	
91-02-6566	License BigFarmNet Manager – Sow	1 per BigEarmNet network
	management 1000 - 3000 sows	
91-02-6567	License BigFarmNet Manager – Sow	
	management > 3000 sows	





The following software licenses are **optional**:

Code no.	BigFarmNet Manager license	Use		
91-02-6564	License BigFarmNet – Web Access Pig	App Pig / Access via the		
		user's smartphone or tablet		
91-02-6551	License BigFarmNet Manager per	In case animal and system		
	additional PC/MC700	data in the BigFarmNet		
		Manager is to be available on		
		additional computers		

1.2 System limits

30,000	Sows
400	EasySlider units
25	CAN bus junction boxes per control computer
50	Feed curves
1,000	Ingredients
50	Recipes
5	Feeding periods



2 Installation and configuration of the control computer





Figure 2-1: Control computer 510pro

Carry out the following steps to install and configure the control computer:

- 1. Wiring, see the enclosed wiring diagram
- 2. Assigning a static IP address to the control computer, see chapter 2.1
- 3. Assigning a static IP address to the Manager PC, see chapter 2.2
- 4. Assigning a network card to the control computer, see chapter 2.3
- 5. Testing the connection to the control computer, see chapter 2.4
- 6. Installing the software on the control computer, see chapter 2.5
- 7. Configuring a group node, see chapter 2.6



Please contact the customer's IT administrator to determine the IP addresses in the network.

2.1 Control computer: assigning a static IP address

- 1. Start the control computer.
- 2. Tap on the configuration button on the start screen.





3. Tap on "Network".

BD 510 Setup	06/20/2017 - 14:39:	56
System Menu		
Network	>	
Date	>	
Time	>	
Timezone	>	
System Diagnosis	>	
System Information	>	
Data Backup	>	

4. Enter the IP address, the subnet mask and the gateway.



The screenshot are examples only! Do not copy their data!

5. Make sure that you have selected "STATIC" for a static IP address under "Select scheme".





6. Save your inputs by tapping on \square

2.2 Manager PC: assigning a static IP address

2.2.1 Windows 7

Assign a static IP address to the PC on which BigFarmNet Manager is installed or will be installed. The following steps correspond to the Windows 7 operating system.

- Click on "Control Panel" in the start menu 1.
- 2. Click on "Network and Sharing Center".
- 3. Click on "Change adapter settings".



4. Double-click on "Local Area Connection".



5. Click on "Properties".





6. Select "Internet Protocol Version 4 (TCP/IPv4)" and click on "Properties".



7. Enter a static IP address.



The screenshot are examples only! **Do not** copy their data!

eneral	
You can get IP settings assigne this capability. Otherwise, you for the appropriate IP settings.	ed automatically if your network supports need to ask your network administrator
💮 Obtain an IP address auto	omatically
Use the following IP addre	ess:
IP add	192 . 168 . 128 . 100
Subnet mask:	255 . 255 . 255 . 0
Default gateway:	192.168.128.1
Obtain DNS server addres	ss automatically
Use the following DNS ser	ver addresses:
Preferred DNS server:	192 . 168 . 128 . 1
Alternate DNS server:	x x x
Validate settings upon ex	dt Advanced

8. Accept these inputs by clicking on "OK".



2.2.2 Windows 10

Assign a static IP address to the PC on which BigFarmNet Manager is installed or will be installed. The following steps correspond to the Windows 10 operating system.

1. Open the Control Panel using the search field in the task bar.



2. Click on "View network status and tasks" under "Network and Internet".





3. Click on "Change adapter settings".



4. Double-click on "Wi-Fi".



5. Click on "Properties".





6. Select "Internet Protocol Version 4 (TCP/IPv4)" and click on "Properties".



7. Enter a static IP address.



	Internet Protocol Version 4 (TCP/IPv4)	Properties	×								
	General										
	You can get IP settings assigned automatically if your network supports this capability. Otherwise, you need to ask your network administrator for the appropriate IP settings.										
	Obtain an IP address automatically										
	 Use the following IP address: 										
É	IP address:	192 . 168 . 128 . 15									
~5	Subnet mask:	255.255.255.0									
	Default gateway:	192 . 168 . 128 . 1									
	Obtain DNS server address auton	natically									
	Ose the following DNS server add	resses:									
	Preferred DNS server:	192 . 168 . 128 . 1									
	Alternate DNS server:										
	Validate settings upon exit	Advanced									
		OK Cancel									

8. Accept these inputs by clicking on "OK".



2.3 Assigning a network card

Assign the network card in BigFarmNet Manager. Check the "BigFarmNet Manager – Installation/Configuration" manual for how to install BigFarmNet Manager.

BigFarmNet Manager										_ O X
Manager Activity Configuration	Setup	Help								
🔹 🌐 🐴	1	[#] O								3 alarms ᆀ 🛥 💦
•										Stop Equipment
ං ආ Farm Bergstrop		<mark>۵</mark>	My system Fore	eign systems						
🗢 🌰 Sow house		- 11				1		Cara and a second		
O Service area	44	- 11	Name:	Farm Bergstrop		Nodes:		1/1 (online/total)	
	44	- 11		Remove controller from	list v	Groups:		1		
C db Group pen	44	- 11								
Calimatic right			Name	IP	MAC	Version	Start time	Controller time	Application	Services
-i¢ Callmatic left			 User group: Sys DECEMBED 	temNode (Nodes: 1)	ocalhost) 18:03:73	4B 82 00 3 0 0 390	6/29/2015 8 22 55	6/29/2015 11:40:3	30 Applications	64 service(s) are not r
db Pen 2		- 11								
db Pen 3		- 11								
· 놀 MC 235 pro		- 11								
O ☆ Farrowing area 1	44	- 11								
O C Farrowing area 2	14	- 18								
- CF EcomaticPro		- 11	()							- [2]
🗢 🏛 New house		- 11	General	Local natwork con	nonication anablad					
O 🛆 Quarantine Section	44	- 11	History configura	tion	information enabled					
🗄 🚔 Piglet rearing house		- ii	Communication	Detect foreign sys	tems in network enal	bled				
o △ Piglet rearing area 1	4		Commencedor	A Out	4914	9		Node type		SystemNode
o 白 Piglet rearing area 2	14		Logging	E~(2)						
o 白 Piglet rearing area 3	4		Applications	Broadcast IP:	255.2	55.255.255		Group ID:		
O	4			Listen:	0.0.0	0:49150				
O	4									
-¢ DryExactPro										
🗢 🏛 Rearing house		- <u>+</u>		Ø Com	munication settings	A		ø	Network group s	ettings
						e (3)		User: adm	in Currency: \$ L	anguage: EN-US 6/29/2015 11:41 AM

- 1. Click on the network icon.
- 2. Click on "Communication".
- 3. Click on "Communication settings".
- 4. Select the correct network interface. The first three octets of the IP address must match those you have entered for the Manager PC beforehand, see chapter 2.2.

_AN-Verbindung 2	
AN-Verbindung 2	<u>_</u>
IP address:	192.168.128. <mark>1</mark> 5
Subnet Mask:	255.255.255.0
xternal communication	nication enabled
Detection of foreign sy	stems in network enabled



2.4 Checking the connection to the control computer



Use the "ping" command to check the connection to the control computer.

Enter the command into the console as follows: ping <IP address>

Example in the screenshot: ping 192.168.128.236

If the control computer replies, four lines with the following information will appear:

- IP address;
- packet size;
- required time;
- TTL (time to live).



If the control computer replies, the software can be installed.

If the "ping" command fails and the control computer does not reply, contact the customer's IT administrator.



2.5 Installing the software on the control computer

Upon delivery, the control computer has an operating system pre-installed. The corresponding BigFarmNet software must be installed additionally.

1. Click on "Software installer" in the "Setup" menu.



2. Enter the IP address of the control computer on which you want to install the software.

Software installer									
Co	Controller								
	Hostname	SDK	BigFarmNet	Туре	Progress		Status		Action type
î	192.168.128.236	5.1.4	3.2	BD510	100%	•••	Analyse Controller successful		Analyse Controller 👻
	8	7							
	2	~							

3. If necessary, add the desired number of control computers by clicking on "Add".

This feature allows you to install the software simultaneously on multiple control computers. Each click on "Add" adds another control computer and the IP address increases by 1. However, you may change the IP address according to your wishes.

Soft	ware installer												
Cor	Controller												
	Hostname	SDK	BigFarmNet	Туре	Progress		Status		Action type				
$\widehat{\widehat{1}}$	192.168.128.236	5.1.4	3.2	BD510	100%	•••	Analyse Controller successful	Ø	Analyse Controller 🗸				
× 1	192.168.128.237	?	?	?	0%			3	×				
	8	7											
		~											
	Add	Dalata					Chan	~	Class				
		Delete		34C OF	sungs Su	an	Stop	^	Close				

- 4. Click on a control computer to select it.
- 5. Click into the respective input field under "Action type" and select "New Installation".



So	ftware installer								
C	ontroller								
	Hostname	SDK	BigFarmNet	Туре	Progress		Status		Action type
Î	192.168.128.236	5.1.4	3.2	BD510	100%		Analyse Controller successful		Analyse Controller 🗸
									No action
									Analyse Controller
									Set time of Controller
									Backup BigFarmNet data
									Reboot Controller
									Update current Installation
									New Installation
									Restore backup to Controll
									Reset BigFarmNet data
									Diagnostics
								.	
	+ Add –	Delete		¢ S	ettings 🖸 St	art	Stop	×	Close

- 6. Click on "Settings" in the lower command bar of the dialog window.
- 7. Under "Software package", check whether the setup for the 510*pro* control computer is stored under the indicated path.

New Installation settings for 510						
Package for installation						
Software package:	rmNet 3.2\resources\SoftwareInstaller\3.2.0\Controller-510\setup510_3.2.0.54385_ED_Pig.raucb					
Time configuration						
Set local system time and ti	ne zone of controller					
Time to set	2018-01-03 14:54:02 🗸					
Select time zone	Europe/Amsterdam 🗸					
Set time server for controller						
Server IP address						
Network configuration						
Set hostname of Controller						
Hostname for Controller	Controller_192.168.128.236					
	Ok Cancel					

- 8. Confirm the dialog by clicking on "OK".
- 9. Click on "Start".



S	Software installer								
С	ontroller								
	Hostname	SDK	BigFarmNet	Туре	Progress		Status		Action type
Î	192.168.128.236	5.1.4	3.2.	BD510	0%			3	New Installation 🛛 🗸
	+ Add –	Delete		¢ S	ettings 🚺 🖸 S	tart (Stop	×	Close
							87		

10. Confirm the prompt for confirmation.

mission	Permission					
One or more selected actions will removes all data and programs of their Controllers. Do you really want to continue?						
Yes No						
87						

The installation process may take a few minutes. Click on _____ to receive more information on the progress.

Successful installation is indicated by a checkmark 💟 in the "Status" column.

Soft	Software installer								
Cor	ntroller								
	Hostname	SDK	BigFarmNet	Туре	Progress		Status		Action type
Î	192.168.128.236	5.1.4	3.2.	BD510	100%		New Installation successful	e	New Installation 🗸
									No.
									8)
									~
+	Add –	Delete		S S	ettings)	Start O Sto	p X	Close
						-			



2.6 Configuring a group node

As the EasySlider application is created on the farm level, you need to configure a group node with an assigned location in the network to allow for data exchange with the control computer in the network.

1. Click on the network icon.

0	BigFa	armNet Manager									-	⊸ ×	
M	anage	er Activity Configura	tion Setup	Help									
	•	₩ 4 3	a 👔	[#] ©							4 alarms 📢)	Î	E.
E											Stop equipment	-	a
•	i Fi	arm Bergstrop	▲	My system Fo	reign systems								
	ò 🌰	Sow house											
	•	New house		Name:	Farm Bergstro	op		Nodes:		2/2 (online/total)			
	•	Piglet rearing hou	se		Remove of	controller from list v		Groups:		2			
	•	Rearing house											
	☆	SiloCheckPro	Ξ	Name		IP	MAC	Version	Start time	Controller time	Application		
	*	EasySlider		Group: System	Node (Nodes: 1)								
	**	Lasyonder		🗸 DE-011-102	2356	192.168.128.230 (loca	9C:EB:E8:4C:87:	. 3.2.2.543	2/2/2018 7:16:15 AM	2/2/2018 8:13:15 AM	19 Applications		
	×	TroughCheckPro	Ξ	Group: Farm Be	ergstrop (Nodes:	1)							
	⇒	WaterCheckPro	Ξ	Controller_	192_168_12	192.168.128.29	00:0E:CD:00:E4:	3.2.2.543	2/2/2018 8:01:28 AM	2/2/2018 8:13:09 AM	EasySlider: EasySlider		
	¢	EasySlider 2											
	×	EasySlider 3											
		-											

2. Click on the node of the farm level on which the EasySlider application was created.

My system Foreign syst	ems						
Name: Farm E	Bergstrop		Nodes:		2/2 (online/total)		
Re	move controller from list v]	Groups:		2		
Name ● Group: SystemNode (Nod ✓ DE-011-102356 ● Group: Farm Bergstrop (N ✓ Controller_192_168_1	IP es: 1) 192.168.128.230 (loca lodes: 1) 12 192.168.128.29	MAC 9C:EB:E8:4C:87: 00:0E:CD:00:E4:	Version 3.2.2.543 3.2.2.543	Start time 2/2/2018 7:16:15 AM 2/2/2018 8:01:28 AM	Controller time 2/2/2018 8:14:15 AM 2/2/2018 8:14:09 AM	Application 19 Applications EasySlider: Easy	Slider
Ceneral History configuration	MainUnit:	Controller_192	_168_128_29		Data path:		/home/bd/data
Communication Logging	Metadata version:				Last connec	tion:	2/2/2018 8:14:
Applications	Application name EasySlider EasySlider 				Location Farm Bergstrop		
						_	>



3. Click on "Network group settings" in the "Communication" category.

This opens the settings assistant.

My sy	stem Fore	ign systems							
Name: Farm		Farm Bergst	rop		Nodes:		2/2 (online/total)		
		Remove	controller from list v		Groups:		2		
	Name		IP	MAC	Version	Start time	Controller time	Application	
Grou	up: SystemNo DE-011-1023	ode (Nodes: 1) 356	192.168.128.230 (loca	9C:EB:E8:4C:87:	. 3.2.2.543	2/2/2018 7:16:15 AM	2/2/2018 8:18:15 AM	19 Applications	
Grou	p: Farm Berg	gstrop (Nodes:	1)	00-05-00-54-	2 2 2 5 4 2	2/2/2010 0-01-20 AM	2/2/2010 0-10-00 AM	Ecovelider: Ecove	lider
<									
Gene Histo	ral ry configurati	on Lo	cal network communication	n enabled					
Comr	nunication	De	tect foreign systems in net	twork disabled					
Logg	ing	Bro	oadcast Port:	49149			Node type:		GroupNode
Appli	cations	Bro	adcast IP:	255.255.255.25	55		Group ID:		00001001-000
		Lis	ten:	0.0.0.0:49150					
Communication settings					Ø	Network group set	tings		

4. Make sure that the node type is "GroupNode" and click on "Next".

Group settings	Group se	ettings
	With this wizard of a controller i Current setting	d you can change the settings for the communication n a BigFarmNet network. is of Controller_192_168_128_29 (192.168.128.29):
BigFarmNet	Node type: Group ID:	GroupNode 00001001-0000-a000-0000-000000000000
		< Back Next > Cancel



5. Select "Group node" and click on "Next".

	Group settings Node type Choose a node type for the controller
	 System node Communicates with all Controllers in the current BigFarmNet system System node with group Communicates with all system nodes in the current BigFarmNet system and also with controllers that are belonging the same group as this controller
B	Group node Communicates with all controllers belonging to the same group and system nodes not assigned to a group or part of the same group
	< Back Next> Cancel

6. Select "Use new group" and click on "Next".

	Group settings Group You can choose, if you want to use an existing group or create a new group
(III)	 Use exsisting group Select a group from the already existing groups of the current BigFarmNet system Use new group Creates a new group for the current BigFarmNet system
	< Back Next > Cancel

7. Select "Use location as group" and select the correct location (house!) from the drop-down menu.

Grou Nev	p settings v group Create a new group for the controller	
) ®	Use location as group Choose a location of the farm as group for this c Use individual group	Farm Bergstrop - Sow house
	Use an individual identifier as group for this cont (Will be shown as "No Name" in table)	Finish Cancel

8. Click on "Finish".

The application is now configured as group node on the house level.



3 Configuration of the system

3.1 Adding the control computer and the application

Before the system can be configured in accordance with the mechanical situation, the respective control computer and the application must be added to your farm system.

Do **not** use the Configurator to create the farm structure with houses, sections and pens for this system. Circuits and feed valves must be assigned to their corresponding location (house, section and pen) in the Composer, see chapter 3.2 "Configuring settings in the Composer", page 23, point 7. The farm structure is generated automatically as soon as the locations have been assigned in the Composer. This approach can save much time.

Proceed as follows:

(1)

1. Click on "Configurator" in the "Setup" menu.

This opens the "'Configurator" window.



2. Click on the "Control computer and applications" tab.



3. Select the correct control computer in the upper part of the window under "Control computer" and click on the plus button.

The control computer is now added on the left under "Control computer overview".

Configurator		
Locations and network controller Control c	computer and	applications
Control computer overview	Control com	puter
Controller 510	+	Control computer type name
		Controller 510
		IPC-B 700.4
		IPC-B 700.6
	Name:	Controller 510
	IP address:	Select controller in network

4. Enter a name for the control computer.

Configurator		
Locations and network controller	Control computer and	applications
Control computer overview	Control com	puter
EasySlider	+	Control computer type name
		Controller 510
		IPC-B 700.4
		IPC-B 700.6
	Name:	EasySlider
	IP address:	Select controller Sork

5. From the lower part of the window under "Application for...", select the location where the system is to be used.

The applications available for selection depend on the selected location.

The EasySlider application can only be added on the farm level.

	Select a Location.	Select an Application type to add.			
	Farm overview	Application type name	 Location type 		
	🗢 🕋 Farm Bergstrop 🥿	EasySlider	Farm		
	🗢 📤 Sow house 🕃 🖒	FarmFeedingPro	Farm		
	• 🛆 Service area	SiloCheckPro	Farm		
-	dh Boar pen 1	TroughCheckPro	Farm		
	🚹 Boar pen 2	WaterCheckPro	Farm		
	db Crate stand 1	CulinaMixPro	House		
_	1 Crate stand 2	DryExactPro	House		
	d Crate stand 3	EcomaticPro	House		
	- dh Crate stand 4	HydroMixPro	House		
	Crate stand 5	HydroMixCallmatic	House / Section		
	Crate stand 6	CallInn	Pen		
	Crate stand 7	Ň	-		
Name:		Configure	Reset Copy		



6. Select the correct application in the table on the right and click on the plus button to the left.

Configurator				
Locations and network controller Con	trol computer and	applications		
Control computer overview	Control com	nuter		
EasySlider		Control computer type name		
EasySlider	-	Controller 510		^
		IPC-B 700.4		1
		IPC-B 700.6		· · · · · · · · · · · · · · · · · · ·
	Name:	EasySlider		
	IP address:	Select controller in network		Delete assignment
	Applications	for EasySlider		
		Select a Location.	Select an Application type	to add.
		Farm overview	Application type name	 Location type
		🗢 🕋 Farm Bergstrop 🔶	EasySlider	Farm 🔶
		🗢 🌰 Sow house	FarmFeedingPro	Farm
		🖕 🛆 Service area	SiloCheckPro	Farm
	+	db Boarpen 1	TroughCheckPro	Farm
		1 Boar pen 2	WaterCheckPro	Farm
	<u> </u>	Crate stand 1	CulinaMixPro	House
		db Crate stand 2	DryExactPro	House
		db Crate stand 3	EcomaticPro	House
		db Crate stand 4	HydroMixPro	House
		- dh Crate stand 5	HydroMixCallmatic	House / Section
		Crate stand 6	CallInn	Pen
	Name:	EasySlider	Configure	Copy
			✓	Save X Cancel

The selected application is assigned to the control computer on the left under "Control computer overview". In the structure, the control computer is displayed on the upper level and the respective application on the lower level.

7. Enter a name for the application.

🗢 🖳 EasySlider	Applications for EasySlider	
EasySlider	Select a Location.	Select an Application type to add.
	Farm overview	Application type name Location type
	🗢 🕋 Farm Bergstrop	EasySlider Farm
	🗢 🛕 Sow house	FarmFeedingPro Farm
	🗢 🛆 Service area	SiloCheckPro Farm
	🚹 Boar pen 1	TroughCheckPro Farm
	db Boar pen 2	WaterCheckPro Farm
	db Crate stand 1	CulinaMixPro House
		DryExactPro House
	db Crate stand 3	EcomaticPro House
	- db Crate stand 4	HydroMixPro House
	- db Crate stand 5	HydroMixCallmatic House / Section
	- db Crate stand 6	CallInn Pen
	Crate stand 7	· · · · · · · · · · · · · · · · · · ·
	Name: EasySlider	Configure Reset Copy
	E)	Save X Cancel



- 8. Click on the level of the control computer in the left-hand part of the window under "Control computer overview".
- 9. Assign the corresponding IP address to the control computer, if known.

If the IP address has not been set up yet, you will need to add it later on.

Configurator							
Locations and network controller	Control computer a	nd applications					
Control computer overview	Control co	omputer					
e 🕞 EasySlider	+	Control computer t	ype name				
🖩 🏠 EasySlider		Controller 505					
		Controller 510	Controller 510				
		IPC-B 700.4	IPC-B 700.4				
	Name:	EasySlider					
	IP addres	s: Select controller in	network v	•			
	Applicatio	ons imx6-cpu	192.168.128.236				
		DE-011-102356	localhost	lect an Application			
				Application type name			
				EasySlider			
				FarmFeedingPro			

- 10. Click on "Save" in the bottom command bar of the "Configurator" window after having configured all settings.
- 11. Confirm these settings by clicking on "OK".



12. Confirm these settings again by clicking on "OK" in the next window.





3.2 Configuring settings in the Composer

The Composer is used to configure the system according to the mechanical situation. All functions of the installed system must usually be defined once here. Proceed as follows:



1. In the farm structure, click on the controller icon of the system you want to edit.



2. In the "Setup" tab, click on the "Start Composer" button.





3. Click on the plus icon to see the different parameters.

Composer		
Tools		
Parameters Details		
Name	Value	Unit
© ☆ EasySlider		

- 4. Define the following settings according to the installed EasySlider system:
 - The number of groups is identical with the number of sections.
 - The number of stations is identical with the number of feeding spaces per section.
 - External feed delivery: Usually, a dry feeding system supplies the EasySlider hoppers with feed. With the new function "External feed delivery", the dry feeding system can receive a signal via the valve card's output and from a full sensor regarding when filling is completed. The inputs and outputs for starting and monitoring the external dry feeding system are selected in the IO Manager. For the start settings and monitoring of the dry feeding system, see chapter 4.1.6.

ompos	ser				
ools					
aram	eters Details				
ame		Value	Unit	Comment	Interval
🔅 Ea	sySlider				
\sqrt{x}	Configured stations	32		Total number of configured stations	
√ <i>x</i>	Required valve cards	2		Minimum number of required valve cards (calculated from the total number of configured stations)	
- 0	Valve cards	1		Set the number of valve cards	min: 1, max: 25
- 0	Groups	2		Set the number of groups (equivalent to the number of sections)	min: 1
¢☆	EasySlider group [1] (H1.3)				
-	A Stations	16		Number of stations for this group (section)	min: 1
l L	External feed delivery	Enabled 🗸		Enable or disable the external feed delivery	
o☆	EasySlider group [2] (H1.4)	Enabled			
		Disabled			

5. Click on the "Details" tab and open the different stations of the EasySlider groups by clicking on the plus icon.



Composer						
Tools						
Parameters Details						
Name 8	Choice	Article	Location			м
● 🌣 EasySlider				•	^	
🗢 🔅 EasySlider group [1]			H1.3			_
Feed request button			H1.3	A		
Or 🌣 Station [1]			H1.3.1	A		
O 🔅 Station [2]			H1.3.2	A		
o 🌣 Station [3]			H1.3.3	A		

- 6. Assign the exact installation location to each EasySlider station.
 - a) If you want to define the location of the entire group (section), click on the house icon in the line "EasySlider group".

Composer				
Parameters Details				
Name	Choice	Article	Location	M
🗢 🔅 EasySlider			1	n 🔶 –
🗢 🔅 EasySlider group [1]			H1.3	
- 🔆 Feed request button			H1.3	No.
O 🔅 Station [1]			H1.3.1	ر ک ر ۱
O 🌣 Station [2]			H1.3.2	e
🗴 🌣 Station [3]			H1.3.3	n

Or:

If you want to define the location of single stations, click on the house icon in the line "Station".

b) Enter the correct location (in this example: for the group) in the next dialog window.

If the box "Recalculate below" is checked, all subordinate stations of the selected group are adjusted automatically.

Edit location	_ ×
Location for EasySlider group	
Location type	
Section 🗸	
House (Section	
1 8	
Sow house/Farrowing area)
Previous	Recalculate below
Next	OK Cancel



- c) Click on "Next" to move to the next group.
- d) After you have assigned a location to all groups and stations, confirm your inputs by clicking on "OK".
- 7. Click on "Save" to accept all settings for the Composer.



The locations intended for the system are automatically added to the farm structure after the settings have been configured in the Composer.

3.3 Setting up the IO Manager

The control is set up in the IO Manager. Assign the functions of the system that were defined in the Composer in the previous step to the IO cards.

1. In the farm structure, click on the controller icon of the system you want to edit.



2. Click on "IO Manager" in the "Setup" menu.





The IO Manager opens in the application window. The left-hand part of the window shows the individual devices of the system under "Device". The right-hand part of the window displays the channels of the IO cards under "Channel".

🛃 BigFarmNet Manager	11-1-						×
Manager Activity Configuration Setup	нер						
🔹 🖽 🐴 🖬	[#] O						2 alarms ┥) î
•		_					Stop equipment
© 🚔 Farm Bergstrop	A	Location / Device F	arm Bergstrop / EasySlider		Link view	Device to chann	el v
🗅 🌰 Sow house		Device connection	¥		Channel connection	ı 🦳	~
🗅 🌰 New house			_		Channel type		~
🗅 🌰 Piglet rearing house		Device			Channel		
🗅 🌰 Rearing house		 EasySlider 			🔄 😑 💬 Control / Contro	I box / BDPVentilBoardS	ensorSlave [1] (ID: 0x60/96)
SiloCheckPro	Ξ	🖕 EasySlider group [1]		digital input (2/2)	available) / (0x60/96) Bl	DPVentilBoardSensorSlave [1]
🔅 EasySlider		- Feed request b	utton	-→ лл			1
🔅 TroughCheckPro		Station [1]			.nr. ↔		2
🔅 🍄 WaterCheckPro		- Feed reques	sthandle	-+ лл	O digital output (16	i/16 available) / (0x60/96	6) BDPVentilBoardSensorSlave
		- Feed disper	nser	€ лп	+		1
		Station [2]			4 лл		2
		- Feed reques	sthandle	- > лл	+ nn		3
		- Feed disper	iser	. лл	+ nn		4
		Station [3]			+- лп		5
		- Feed reques	sthandle	- → лл	+ лл		6
		- Feed disper	nser	<⊢ лл.	н		7
		 Station [4] 			+ лл		8
		- Feed reques	sthandle	-) лл	н лл		9
		- Feed disper	nser	← лл	+ nn		10
		 Station [5] 			+ .n.		11
		Feed reques	sthandle	-⇒ лл	+ nn		12
		- Feed disper	nser	← лл.	+ m		13
		Station [6]			+ m		14
		- Feed reques	sthandle	→ лл			15
		Eeed disner	iser		<u>∽</u> + .n.)		16
		Collapse all	Expand all Default m	apping ~	Apply	Reset	Testmode
			Application Service not running	g	Rer	nove links	Display Device Path
		<			·		×
						Currency: \$ Language	: EN-US 3/20/2017 8:38 AM

The interfaces of the devices and the IO cards are indicated by the following icons:

- Digital output
- Digital input + m
- Analog output + 🔨
- Analog input +
- Counter input + 123
- Serial interface + Ioloi

Connected devices and channels are indicated by dark gray icons and a green arrow. Example: + ...

Devices and channels that are not connected are grayed out. Example:



3.3.1 Creating links

Link the different devices with the corresponding IO card. The system supports the "Default mapping" function (button at the bottom of the window). You can thus create links either manually or by using the default mapping.

Default mapping

If wiring has been carried out according to the wiring diagram, click on "Default mapping" in the lower command bar.

The system now loads the default mapping saved according to the wiring diagram. The functions of the system are automatically assigned to the IO cards.

Application Service not running	8)	Remove lir	iks	Uspray Device Path
Collapse all Expand all Default mag	oping ~	Apply	Reset	Testmode
Feed disnenser	4 nn V	4 л		16
- Feed request handle	- > лл.			15
🜩 Station [6]		+ лл		14
Feed dispenser		4 - лл		13
- Feed request handle	- -	. пл. →		12
Station [5]		. пл.		11
- Feed dispenser	4- JUL	4- 101		10

Make sure to check the established links by referring to the supplied wiring diagram.

Manual assignment

ø

1. In the "Device" part of the window, click on the linking icon of the correct system component and hold the mouse button.

ice			Channel				
EasySlider group [1]			= 😁 Control / Control box	/ BDPVentilBoardS	ensorSlave [1] (II	D: 0x60/96)	
Feed request button	- > лл.		digital input (2/2 avail	able) / (0x60/96) Bl	DPVentilBoardSe	nsorSlave [1]	
 Station [1] 			-+ .nr.		1		
- Feed request handle	- > лл.		-+ nn		2		
Feed dispenser	.лл.		G digital output (16/16 available) / (0x60/96) BDPVentilBoardSensorSlave				
 Station [2] 			+ л л		1		
- Feed request handle	-→ лл		+ nn		2		
- Feed dispenser	+- лл		+ <u></u>		3		
 Station [3] 		â	+ лл		4		
- Feed request handle	-→ .nn.	ہے	+ nn		5		
Feed dispenser	. пл				6		



2. Drag the mouse to the linking icon of the desired channel in the "Channel" part of the window on the right.

ice		Channel				
EasySlider group [1]		- 😔 Control / Control box / BDPVentilBoardSensorSlave [1] (ID: 0x60/9				
Feed request button	-→ лл	digital input (2/2 available) / (0x60/96) BDPVentilBoardSensorSlav				
 Station [1] 		+ <u>+</u> m. □ 1				
Feed request handle	- > лл	+ лл 2				
Feed dispenser	ң лл	C digital output (16/16 available) / (0x60/96) BDPVentilBoardSensorSla				
 Station [2] 		< <u>-</u>				
Feed request handle	- > лл	2				
Feed dispenser	4- л л	······································				
 Station [3] 		- <u>-</u> 4				
Feed request handle	- > лл					
Feed dispenser	<⊢ лл					

3. Release the mouse button.

The system component and the channel are now linked.

rice		Channel					
EasySlider group [1]	-	Control	/ Control box / I	BDPVentilBoardS	ensorSlave [1] (II	D: 0x60/96)	
Feed request button	-> лл	digital input (2/2 available) / (0x60/96) BDPVentilBoardSensorSlave [1]					
 Station [1] 		÷	лл		1		
Feed request handle	-> лл	÷	лл		2		
- Feed dispenser	+- лл>	digital o	utput (15/16 ava	ilable) / (0x60/96	6) BDPVentilBoar	dSensorSlave [1]	
 Station [2] 			лл		1		
Feed request handle	-→ лл	+	лл.		2 EasyS	Slider / EasySlider group [1] / Statior	[2] / Feed
Feed dispenser	+- лл		лл		3		
 Station [3] 		*	лл		4		
Feed request handle	- > лл	÷ •	лл		5		
Feed dispenser	< <u>− nn</u>	i e	лл		6		

4. If you have created an incorrect link, right-click on the corresponding linking icon. Click on "Delete connection" in the context menu.



Checking links:

Double-click on the respective device to mark the linked channel.

- 5. Click on "Save" in the bottom command bar after having established all links.
- 6. Click on "Restart application" in the bottom command bar to start the control.

3.3.2 Using the test mode

In the test mode of the IO Manager, all devices can be turned on and off to check the correct setup of the control before starting to operate the system.

Proceed as follows:





Only service technicians may use the test mode. Devices may start in case the system is connected. Make sure that no persons or animals are located in or around the station while using the test mode.

Deactivate the test mode when finished.

1. Check the "Test mode" box in the bottom command bar.

Application Service n	ot running		Remov	e links		is the Path
Collapse all Expand all D	efault mapp	ing v	Apply	Reset		estmode
 Station [7] 			, +		16	EasySlider / EasySliderGrou
FeedDispenser		← лл	+_ лл.]		15	EasySlider / EasySliderGrou
FeedRequestHandle		- - лл	+]		14	EasySlider / EasySliderGrou
G. Station [6]			+		13	EasySlider / EasySliderGrou
FeedDispenser		€ ЛΩ	+		12	EasySlider / EasySliderGrou
		1 1 1 1				Lasyonder / Lasyonderoro

2. In the "Device" part of the window, double-click on the linking icon of the device you want to turn on.

This marks the linked channel in the "Channel" part of the window on the right.

3. Click on the check boxes of the selected device and respective channel to activate them.

The actual device is now turned on.

If the actual device does not turn on or if another actual device is running instead, correct the links in the IO Manager or reconnect the outputs of the IO card. Always refer to the overview drawing of the IO card attached to the wiring diagram.

evice		Channel						
 EasySlider group [1] 	<u>^</u>	Control / Control box	/ BDPVentilBoardSe	ensorSlave [1] (ID: 0x60/96)				
Feed request button	_ •	digital input (1/2 available) / (0x60/96) BDPVentilBoardSensorSlave [1]						
 Station [1] 		- - лл		1 EasySlider / EasySlider group [1] / Feed request button				
- Feed request handle	_ - 	- > лл		2				
Feed dispenser	_ (digital output (0/16 available) / (0x60/96) BDPVentilBoardSensorSlave [1]						
 Station [2] 		+ лл		1 EasySlider / EasySlider group [1] / Station [1] / Feed dispenser				
Feed request handle	- •	• - .n.		2 EasySlider / EasySlider group [1] / Station [2] / Feed dispenser				
Feed dispenser	<mark> ← .</mark>	к лл		3 EasySlider / EasySlider group [1] / Station [3] / Feed dispenser				
 Station [3] 	8	+ лл		4 EasySlider / EasySlider group [1] / Station [4] / Feed dispenser				
Feed request handle		+ nn		5 EasySlider / EasySlider group [1] / Station [5] / Feed dispenser				
Feed dispenser	_ ← лл	+ лл		6 EasySlider / EasySlider group [1] / Station [6] / Feed dispenser				

- 4. Turn off the device by deactivating the check box.
- 5. Exit the test mode by deactivating the check box "Test mode" in the bottom command bar.


4 Configuration of the application

4.1 Configuring settings

Settings regarding the application are configured under the "Equipment" tab. Parameters in the settings include the eating speed based on the parity or the amount of dispensed feed. The values in the settings can be changed as required at any time. Proceed as follows:

1. In the farm structure, click on the controller icon of the system you want to edit.



2. In the tab "Equipment", click on "Settings...".

Equipment Setup					
▶ In operation				Settings	O Stop
🛆 Ф 🗘 🗌					% kg
Location 🔺	Fed > 85 %	Yesterday	Today	Period 1	Period 2
Sow house - Farrowing area 1	14 / 14	99.0 %	99.8 %	30.0 / 30.0 %	39.9 / 40.0 % 30
Sow house - Farrowing area 2	14 / 14	98.6 %	99.9 %	30.0 / 30.0 %	39.9 / 40.0 % 30

The dialog window "Settings" with its multiple categories shows all parameters of the system component you created beforehand in the Composer. These parameters are described in the following chapters. Define the corresponding values for the parameters. Change pre-set values, if required.





Tooltips available! Move the mouse pointer over input fields or parameters in tables to see detailed descriptions for this parameter.

4.1.1 Copying the settings of a system

If multiple systems (applications) of the same type are to be configured with the same settings, you can define the settings for one system and copy them to other systems. The copy function is permanently available in the settings dialog.

Proceed as follows:

en la

- 1. Configure the settings for one system.
- 2. Click on the button "Copy Settings..." in the top part of the window.

Settings: C	urrent appli	cation: EasyS	lider			
<u>G</u> eneral	Alarms	<u>F</u> eeding	Sections			
Filtor	and aatting	•	_			
T III.eT a	and setting	5				
					Q	Copy Settings
Motor s	tartup dela	У		Maximum feed takeover from previous periods		Filling time for dosing screw
Easy	/Slider 2: F	arm Bergstro	op			
			10	10 ms	0.0 kg	g 20.0 s
Easy	/Slider 3: F	arm Bergstro	op			
			10	10 ms	0.0 kg	g 20.0 s
Easy	/Slider: Fai	rm Bergstrop	F			
(10	10 ms	0.0 kg	g 20.0 s

3. In the next dialog window, select the system whose settings you want to copy.

Choose source EasySlider					
Choose an item where settings sh	ould be copied from	m.			
EasySlider	~				
- EasySlider 2: Farm Bergstrop EasySlider 2 EasySlider 3: Farm Bergstrop EasySlider 3 EasySlider 3 EasySlider Farm Bergstrop	Farm Bergstrop Farm Bergstrop Farm Bergstrop				
		>	Next	×	Cancel

- 4. Click on "Next".
- 5. Select all systems to which you want to transfer these settings in the next dialog window.



Name	 Location 	
🗣 🗹 EasySlider 2: Farm Bergstrop		
EasySlider 2	Farm Bergstrop	
🖕 🔽 EasySlider 3: Farm Bergstrop		
EasySlider 3	Farm Bergstrop	
E.		

6. Click on "Copy". The settings are now transferred to all selected systems.



Only click on the "Save" button after having set all necessary parameters in the available tabs. Clicking on the "Save" button closes the entire settings dialog, which must be reopened to make further edits.

Saved changes are immediately applied to the respective system(s)!

4.1.2 General

Settings: Current application: EasySlider			
General Alarms Eeeding Sections			
Filter and Settings			
		Copy Settings	
Motor startup delay	Maximum feed takeover from previous periods	Filling time for dosing	j screw
EasySlider 2: Farm Bergstrop			
100	ms	0.0 kg	20.0 s
EasySlider 3: Farm Bergstrop			
100	me	0.0 kg	20.0 s

- Motor startup delay: Never set the startup delay of the motor for the group switch to less than 100 ms.
- Use **Maximum feed takeover from previous periods** to define how much feed from previous periods should be dispensed additionally to the amount per period defined in the feed curve and the feeding time pattern.

Example: The sow is allowed 4 kg per period. The "Maximum feed takeover from previous periods" is set to 2 kg.

 If the sow only eats 1 kg of these 4 kg in the first period, a total of 3 kg can be dispensed additionally in the following periods, but only a maximum of 2 kg per period.



- In the second period, 4 kg of feed to which the sow is entitled + 2 kg "Maximum feed amount per period" = 6 kg of feed in total are approved for this sow and dispensed. The sow eats these 6 kg of feed.
- The remaining 1 kg of feed to which the sow was entitled from the first period is transferred to the third period. In the third period, 4 kg of feed to which the sow is entitled + 1 kg "Maximum feed amount per period" = 5 kg of feed in total are approved for this sow and dispensed.
- Filling time for dosing screw:



Dispensing of the feed ration – the maximum amount of feed per period may not be higher than the volume of the dispenser. It is otherwise not possible to guarantee that all sows receive their feed ration.

4.1.3 Alarm

Settings: 0	Current applic	cation: EasySI	ider					
<u>G</u> eneral	Alarms	Eeeding	Sections					
Filter	and setting	a.						
							ф.	Copy Settings
	Alarm S	ow Feedlimit		Call without so	w		Application not op	erational
Feed li	imit	State mess	age	Number of contacts for message	State message	Maximum pause time	Action after maximum pause time	Repeat action
• Eas	ySlider: Far	m Bergstrop						
	85 %	Warning			1 Warning	0 min	Alarm	

• Alarm sow feed limit: Define a feed limit and select the alarm type (status message).

The status message is issued when the dispensed amount of feed is below the set feed limit at the end of the day. This setting applies to every animal of the same EasySlider unit.

 Request without sow means a situation in which an animal not registered by the system is in the pen. Define under Number of contacts for message how many request pulses for feed are necessary before an alarm (state message) is generated.



Application not operational

Maximum pause time: If the application does not run for a time longer than set here (pause or error), an alarm or a warning (depending on what is set for "Action after maximum pause time") is issued. If the time is set to 0 minutes, there is no maximum pause time.

Action after maximum pause time can be set to be either an alarm, a warning or no action at all ("No").

Repeat action: When this box is checked, the action (alarm, warning or no action) is repeated every time the maximum pause time expires.

4.1.4 Feeding

Settings: Ci	urrent applica	ation: EasySI	ider							<u> </u>
<u>G</u> eneral	Alarms	<u>F</u> eeding	Sections							
Filter	and pottings	Y								
Fliter a	and settings		~							
							[4	Copy Settings	
Eating	speed parity	< 2		Eating speed parity 2		Eating speed parity 3		Ea	ating speed parity > 3	
 Easy 	Slider: Farm	n Bergstrop								
			26 s/100g		24 s/100g			22 s/100g		20 s/100g

• Define the eating speed according to parity (number of times a sow has farrowed).

4.1.5 Sections – Animal feeding

eneral <u>A</u> larms <u>F</u> eeding <u>S</u> ecti	ons					
imal feeding Feed bin loading	E)					
Filter and settings						
				Ð	Copy Se	ettings
Section	Location	Amount per dose	Time per dose	Request pulses	Request time span	Welcome portion
Section EasySlider: Farm Bergstrop	▲ Location	Amount per dose	Time per dose	Request pulses	Request time span	Welcome portion
Section EasySlider: Farm Bergstrop Farrowing area 1 	Location Location Southouse	Amount per dose	Time per dose 5.0 s	Request pulses	Request time span 3.0 s	Welcome portion

Amount per dosing is the calibrated amount dispensed within the Time per dosing.

The amount per dosing is calibrated as follows:

- a) Carry out e.g. 10 dosing processes with the desired dosing duration at three different dosing units.
- b) Weigh each dispensed amount.



c) Determine the mean value by adding the dispensed amounts and then dividing them by the total number of dosing processes (in this example: 30).

The mean value is identical with the amount per dosing.

- Request pulses for feed dosing within a defined time period (Request time span).
- Welcome portion: A percentage of the sow's feed amount that is automatically dispensed at the beginning of the period. Such smaller amounts may be a trigger for the sow to realize that she can request feed again. If the welcome portion is set to a larger amount, this means that a minimum amount of feed is always dispensed into the trough. Any additional amounts of feed must be requested by the sow. The welcome portion can also be defined individually for each sow, see chapter 5.2 "Entering an individual welcome portion".

4.1.6 Sections – Feed hopper loading



As soon as the control receives a signal from the full sensor of the external dry feeding system, it will consider the hoppers to be filled with a **volume** of 4 kg of feed (default value). The sows start requesting their feed. As soon as a sow has reached its defined **minimum amount** of 1 kg (default value), the control emits the **motor pulse** so that the output is activated for 3 seconds (default value). The control then assumes that the dry feeding system has started filling the hopper and waits until the value **Refill timeout** is reached. Within this period, the control must receive a sensor signal indicating that the dry feeding system has filled all hoppers. If this is not the case, the control issues an alarm (**Alarm level**). The **Sensor delay** defines a delay time. The system waits for this delay time after starting the external filling system before checking the overflow sensor. This delayed request is necessary because the overflow sensor may still be active at the start and may only stop working with a delay. This is because feed may still remain on the chain.



4.2 Determining feeding times

The feeding time is a specific period of the day in which the sow is entitled to a specific amount of feed. With these feeding times, the feeding day can be divided into smaller and uniform periods per section. Identical feeding times prevent that the sows become agitated because they keep eating at the same time, even if the dispensed amount of feed differs.

Up to five feeding times can be defined in each feeding time pattern. The daily ration set in the feed curve is divided into smaller portions for each feeding time. The days in the feeding time pattern refer to the feed curve days in the lactation phase. During this phase, the sow is in the "Lactating" state. Based on the number of days in the state, the EasySlider application determines one feeding day so that all sows in one section have the same feeding time, see chapter 5.4 "How does the EasySlider application determine the feeding day?", page 46.

When the sow is not in the "Lactating" state, the feeding time pattern always uses the day "0".

If you do not create any patterns with feeding times, the pre-set pattern "Default" is used automatically.

1. In the farm structure, click on the controller icon of the system you want to edit.





2. Double-click on the lower command bar "Feeding times of sections" in the "Equipment" tab.

The different periods are now displayed.

Equipment Setup							
🕒 In operation						Settings	Stop
۵۵ 🔼	Grouped						% kg
Location	•	Fed > 85 %	Yesterday	Today	Period 1	Period 2	Period 3
Sow house							
Farrowing area 1		14 / 14	100.0 %	100.2 %	30.1 / 30.0 %	39.6 / 40.0 %	30.5 / 30.0 %
Farrowing area 2		14 / 14	99.9 %	100.4 %	30.1 / 30.0 %	40.0 / 40.0 %	30.3 / 30.0 %
<							>
			Feeding times o	of sections	3		^

3. Click on "Edit" to add a pattern.

In operation						Settings	Stop
۵۵ 🗅	Grouped						% kg
Location	•	Fed > 85 %	Yesterday	Today	Period 1	Period 2	Period 3
 Sow house 							
Farrowing area 1		14 / 14	100.0 %	100.2 %	30.1 / 30.0 %	39.6 / 40.0 9	% 30.5 / 30.0 %
Farrowing area 2		14 / 14	99.9 %	100.4 %	30.1 / 30.0 %	40.0 / 40.0 9	% 30.3 / 30.0 %
<							
			Feeding times o	feactions			
Location		Pattern	Feeding times o	f sections	Perior	12	> V
Location	*	Pattern	Feeding times o Feeding day	f sections Period 1	Period	12	> Period 3
Location Sow house Farrowing area 1 	•	Pattern	Feeding times o Feeding day 0	f sections Period 1 12:00 AM - 11:59	Perioc AM 12:00 PM -	1 2 5:59 PM 6:0	> Period 3 0 PM - 11:59 PM
Location Sow house Farrowing area 1 Farrowing area 2 	*	Pattern Default Default	Feeding times o Feeding day 0 0	f sections Period 1 12:00 AM - 11:59 12:00 AM - 11:59	Perioc AM 12:00 PM - AM 12:00 PM -	1 2 5:59 PM 6:0 5:59 PM 6:0	Period 3 0 PM - 11:59 PM 0 PM - 11:59 PM

4. In the dialog window "Feeding time patterns", click on "Add".

All time patterns you create will be displayed in this window later on. The pattern "Default" is pre-set and cannot be modified.



5. In the next dialog window, enter a name for the pattern and click on "Add".

eding time pattern		
Name Fe	eding 1	
Description	自入	
From Day	To Day	Time Pattern
+ Add	- R	emove 🖉 Edit time pattern
	~	OK X Cancel

6. Enter the time period "From day - To day" and click on "Edit time pattern".

Feeding time pattern			
Name	Feeding 1		
Description			
From Day	To Day	Time Patt	ern
	0 \$	0	Time Pattern 01
+ Add	- 1	Remove	Edit time pattern

7. Define the number of periods by clicking on "Add" or "Remove".

You may enter a maximum of five periods. The presetting includes three periods.

Begin End Percentage 12:00 AM 11:59 AM 12:00 PM 5:59 PM 6:00 PM 11:59 PM 11:59 PM	Name	Time Pattern 01	
12:00 AM	Begin	End	Percentage
12:00 PM 5:59 PM 6:00 PM 11:59 PM	12:00 AM	11:59 AM	40
6:00 PM 11:59 PM	12:00 PM	5:59 PM	30
	6:00 PM	11:59 PM	30
+ Add - Remove			
	+ Add	Remove	

- 8. Define the times of day for each period and set the percentage amount of feed to be dispensed per period based on a total of 100 %:
 - a) Enter the time of day either using your keyboard or the arrows pointing up and down in the corresponding input field.
 - b) Enter the percentage per period in the corresponding input fields.
- 9. Click on "OK" in all dialog windows after you have configured all settings.
- 10. Under "Feeding times of sections", click on the desired location to which you want to assign the new feeding time pattern.
- 11. Click on the arrow pointing down under "Pattern" and select the correct pattern.

			Feeding	times of sections
Location	* P	attern F	eeding day	Period 1
Sow house				
Farrowing area 1	Default	×	0	12:00 AM - 11:59 AN
Farrowing area 2	Default	No.	^ 0	12:00 AM - 11:59 AN
	Feeding			
<				
🕙 Edit 🗸	Apply			



12. Click on "Apply" to accept the time pattern for this section.

Feeding times of sections v										
Location	*	Pattern	Feeding day	Period 1	Period 2	Period 3	Period 4	Perio		
Sow house										
Farrowing area 1		Feeding 1 🔹 👻		12:00 AM - 11:59 AM						
Farrowing area 2		Default	0	12:00 AM - 11:59 AM	12:00 PM - 5:59 PM	6:00 PM - 11:59 PM				
								>		
⊙ Edit	~	Apply	7		Changes have	not been saved! Ple	ease press apply.			

EasySlider

Edition: 02/18 M3201 GB



5 Information for the user

5.1 Viewing feeding data

The view in the application window can be set either to section view or to pen view. Each view can also be shown grouped per location. Additionally, the feeding data can be shown as percentage or as absolute values.



Example 1: Section view, not grouped, percent values

This view summarizes the feeding data of individual sections. The feeding data is displayed as a percentage.

- The number of sows that was fed today based on the total number of sows is shown. The feed limit set previously in the settings is used as reference value, see chapter 4.1.3 "Alarm".
- The current day ("Today) and the previous day ("Yesterday") each show the actual percentage of requested feed.
- The different periods show the actual percentage of requested feed of the current day as well as the respective target value.

Equipment Setup										
► In operation Settings O Stop										
[△] (Δ) 🜣 □						%	kg			
Location 🔺	Fed > 85 %	Yesterday	Today	Period 1	Period 2	Period 3	Perio			
Sow house - Farrowing area 1	14 / 14	-	-	30.0 / 30.0 %	40.0 / 40.0 %	30.0 / 30.0 %				
Sow house - Farrowing area 2	14 / 14	-	-	29.9 / 30.0 %	39.9 / 40.0 %	30.0 / 30.0 %				



Example 2: Pen view, grouped, absolute values in kg

This view shows the individual feeding data of each sow per pen. The feeding data is indicated as absolute value in kg.

- Both the sow number and the sow's current state are displayed.
- The current day ("Today) and the previous day ("Yesterday") each show the actual percentage of requested feed as well as the respective target value.
- The different periods show the actual percentage of requested feed of the current day as well as the respective target value.
- The column "Motor" 🔟 indicates whether feed is currently being dispensed.
- The column "Mode" shows the current state of the dosing unit (valve).
 - AUTO: normal mode feed can be dispensed.

Equipment Setup						
🕨 in oj. 🛛 ion					Settings	🚺 Stop
△ 🙆 🌣 🧖						% kg
Location	Mode	🕅 Sow no.	State	Yesterday	Today	Period 1
Sow house - Farrowing area 1	4					· · · · · · · · · · · · · · · · · · ·
Farrowing pen 1-1	4 AUTO	00061	Empty (4 Days)	93.3 %	100.0 %	30.0 / 30.0 %
Farrowing pen 1-2	4 AUTO	00062	Empty (4 Days)	106.7 %	100.7 %	29.7 / 30.0 %
Farrowing pen 1-3	4 AUTO	00063	Empty (4 Days)	96.7 %	99.3 %	30.0 / 30.0 %
Farrowing pen 1-4	4 AUTO	00064	Empty (4 Days)	110.0 %	96.7 %	30.0 / 30.0 %
Farrowing pen 1-5	4 LOCK	0 Animals			-	
Farrowing pen 1-6	4 AUTO	00066	Empty (4 Days)	96.7 %	100.0 %	30.0 / 30.0 %
Farrowing pen 1-7	4 LOCK	00067	Empty (4 Days)	106.7 %	102.0 %	30.0 / 30.0 %
Farrowing pen 1-8	4 AUTO	00068	Empty (4 Days)	90.0 %	100.0 %	30.0 / 30.0 %
Farrowing pen 1-9	5 LOCK	00069	Empty (4 Days)	106.7 %	100.0 %	30.0 / 30.0 %
Farrowing pen 1-10	4 AUTO	00070	Empty (4 Days)	93.3 %	102.0 %	30.0 / 30.0 %
Farrowing pen 1-11	4 AUTO	00071	Empty (4 Days)	86.7 %	100.0 %	30.0 / 30.0 %
Farrowing pen 1-12	4 AUTO	00072	Empty (4 Days)	100.0 %	100.7 %	29.7 / 30.0 %
Farrowing pen 1-13	4 AUTO	00073	Empty (4 Days)	96.7 %	96.7 %	30.0 / 30.0 %
Farrowing pen 1-14	4 LOCK	0 Animals	-	-	-	
Farrowing pen 1-15	4 AUTO	00075	Empty (4 Days)	93.3 %	100.0 %	30.0 / 30.0 %
Farrowing pen 1-16	4 AUTO	00076	Empty (4 Days)	110.0 %	99.3 %	30.0 / 30.0 %
Sow house - Farrowing area 2	4					
Farrowing pen 2-1	4 AUTO	00091	Lactating (4 Days)	110.0 %	100.0 %	30.0 / 30.0 %
Farrowing pen 2-2	4 AUTO	00092	Lactating (4 Days)	83.3 %	99.3 %	30.0 / 30.0 %
Farrowing pen 2-3	4 AUTO	00093	Lactating (4 Days)	100 0 %	100.0 %	30 0 / 30 0 %

- LOCK: locked valve

The following actions are possible for each individual valve. Click on to open the options:

- Lock: The valve is locked immediately. (Option only available in the AUTO mode.)
- Automatic: The locked valve is immediately put into operation again. (Option only available in the LOCK mode.)
- **Dosing portion**: The portion is dispensed immediately. (Option only available in the **AUTO** mode.)



• Screw filling: The auger is filled immediately. Advantage: The amount of feed required to fill the auger is not included in the sow's feeding statistics. The time the auger needs to fill the dosing unit can be defined in the settings under chapter 4.1.2 "General".

You may also carry out one action for all valves in a section, for example to lock all valves. On the section level, click on **4**. Make sure you are using the correct view!

Equipment Setup				
🕒 In op 🖌 íon			Settings	Stop
				<mark>%</mark> kg
Location 🔺	Mode 🕑 Sow no.	State	Yesterday	Today I
Sow house - Farrowing area 1	4			^
Farrowing pen 1-1	4 4 Lock	Empty (4 Days)	93.3 %	100.0 % 3
Farrowing pen 1-2	4 4 Dosing portion	Empty (4 Days)	106.7 %	100.7 % 2
Farrowing pen 1-3	4 Screw filling	Empty (4 Days)	96.7 %	99.3 % 3
Farrowing pen 1-4	4 X Cancel	Empty (4 Days)	110.0 %	96.7 % 3
Farrowing pen 1-5	4 concert v runndls		-	-
Farrowing pen 1-6	4 AUTO 00066	Empty (4 Days)	96.7 %	100.0 % 3
Farrowing pen 1-7	4 LOCK 00067	Empty (4 Days)	106.7 %	102.0 % 3
Farrowing pen 1-8	4 AUTO 00068	Empty (4 Days)	90.0 %	100.0 % 3
Farrowing pen 1-9	4 LOCK 00069	Empty (4 Days)	106.7 %	100.0 % 3
Farrowing pen 1-10	4 AUTO 00070	Empty (4 Days)	93.3 %	102.0 % 3
Farrowing pen 1-11	4 AUTO 00071	Empty (4 Days)	86.7 %	100.0 % 3
Farrowing pen 1-12	4 AUTO 00072	Empty (4 Days)	100.0 %	100.7 % 2
Farrowing pen 1-13	4 AUTO 🗌 00073	Empty (4 Days)	96.7 %	96.7 % 3

5.2 Entering an individual welcome portion

Click on the icon for quick settings to see the pen view including the column "Welcome portion". Define the individual welcome portion for each sow in this column. The value can be set to 100 % for sows which have not learned to use the request mechanism. The assigned feed amount is dispensed at each beginning of a period. However, the maximally dispensed amount should not exceed the hopper volume, see also chapter 4.1.5 "Sections – Animal feeding".

Equipment Setup					
🕒 In operation				Settings	Stop
Δ 🖞 🔽 🚬 🔰	▼				% kg
Location	Sow no.	State	Yesterday	Today	Period 1
Sow house - Farrowing area 1 - Farrowing pen 1-1	0 % 00061	Empty (4 Days)	93.3 %	100.0 %	30.0 / 30.0 %
Sow house - Farrowing area 1 - Farrowing pen 1-2	0 % 00062	Empty (4 Days)	106.7 %	100.7 %	29.7 / 30.0 %
Sow house - Farrowing area 1 - Farrowing pen 1-3	0 % 000	Empty (4 Days)	96.7 %	99.3 %	30.0 / 30.0 %
Sow house - Farrowing area 1 - Farrowing pen 1-4	0 % 00 😂 🔪	Empty (4 Days)	110.0 %	96.7 %	30.0 / 30.0 %
Sow house - Farrowing area 1 - Farrowing pen 1-5	0 % 0 Animals		-	-	
Sow house - Farrowing area 1 - Farrowing pen 1-6	0 % 00066	Empty (4 Days)	96.7 %	100.0 %	30.0 / 30.0 %
Sow house - Farrowing area 1 - Farrowing pen 1-7	0 % 00067	Empty (4 Days)	106.7 %	102.0 %	30.0 / 30.0 %
Sow house - Farrowing area 1 - Farrowing pen 1-8	0 % 00068	Empty (4 Days)	90.0 %	100.0 %	30.0 / 30.0 %
Sow house - Farrowing area 1 - Farrowing pen 1-9	0 % 00069	Empty (4 Days)	106.7 %	100.0 %	30.0 / 30.0 %



5.3 How does the EasySlider unit know how much feed to dispense?



- 1. Each EasySlider unit is assigned to a location (pen).
- 2. Each location (pen) houses one sow.
- 3. The sow is in a specific state (inseminated, pregnant, lactating, empty) and is assigned a feed curve.
- 4. The days in state define for how long the sow is in the specific state.
- 5. The status time is divided into individual curve days when defining the feed curve. Each curve day is assigned a specific amount of feed.
- 6. This amount is dispensed by the EasySlider unit.

Please find instructions on the following functions in the "BigFarmNet Manager – Sow Manager" manual:

- Defining feed curves
- Editing sow activities and changing the state



ø

For feed dispensing, only the status day and the amount of feed are relevant. The feed composition is not taken into account.

5.4 How does the EasySlider application determine the feeding day?

To determine the feeding day, the EasySlider application calculates the median value based on the days in state of all sows that are housed in the respective section.

The following example shows how the EasySlider application proceeds to determine the feeding day.

Example:

A section houses 7 sows in the same state. However, the number of days in the state are different for each sow.

Sow no.	Status	Days in state
001	Lactating	4
002	Lactating	6
003	Lactating	4
004	Lactating	5
005	Lactating	6
006	Lactating	2
007	Lactating	4

The figures for days in state are sorted in ascending order. 2, 4, 4, 4, 5, 6, 6

The median is the value in the centre, i.e. 4.

The general question for determining the feeding day therefore is:

Which feeding times apply to 50 % of the sows in the section?



5.5 Data backup

a()

From BigFarmNet Manager version 3.2.0, the following message regarding data backup configuration appears after installation or an update. If you only close this message, it will reappear after a short time.

The system requires an external storage location for data backup, e.g. a network drive, an external hard drive or a USB flash drive. As soon as an external storage location has been indicated, the message no longer appears, irrespective of whether automatic data backup has been enabled or disabled.

If an external storage location has already been defined before updating to version 3.2.0, the message does not appear at all.



We recommend data backups in regular intervals. In case of a data loss, the backup can then be used to retrieve saved data.

Remember that you can only retrieve the last data backup. Everything you have created or changed since then is not included in this backup. This means that the backup period should be determined depending on the amount of data you produce. You should find the ideal compromise between acceptable data loss and frequency of backups based on your individual needs.



The BigFarmNet Manager provides the following options for data backups:

- Manual backup, which you may carry out at any time when necessary.
- Automatic backup, for which you define a fixed backup period. The data is then backed up automatically according to the settings.

Open the settings dialog as follows:

1. Click on "Backup...".





1. Click on "Backup configuration" in the "Setup" menu.





2. In the window "Backup configuration", select the desired process using one of the two tabs:

Automatic backup

The automatic backup is pre-set to "OFF".

Backup configuration					×
Automatic backup	Manual backup				
Current backup	state is:		OFF		
Please don't rem	ind me to enable backup				
How often would	you like to create backups	?	Daily	~	
How long would y	you like to save backups?		1 week	~	
When would you	like to make backups?		2:00 AM 💲		
Backups will be s	saved here:				*
		~	OK	× Ca	ncel

a) Click on "OFF" to turn off the deactivation.

The button then switches to "ON".

- b) Determine the backup period.
- c) Select an external storage location.
- d) Click on "OK" to accept these settings.

Or:

Manual backup

Backup configuration	×
Automatic backup Manual backup	
On this tab, you are able to start a bac	kup process manually
Select a directory where you'd like to s	ave the backup files
Backups will be saved here:	•••
	Do backup now! X Cancel

- a) Select an external storage location.
- b) Click on the now active button "Create backup now!"



6 EasySlider statistics

In the EasySlider statistics, data is evaluated via the Sow Manager and the sow statistics. The extended overview regarding the sows' eating behaviour is a good option for monitoring.

Each sow's eating behaviour from the current day and up to six days back can be followed up on in the EasySlider statistics. For this time period, the amount of feed each sow has requested is also displayed as a curve. Additionally, each successful request for feed (i.e. feed was dispensed) and all requests where the sow was not entitled to receive feed are compared as a ratio in a diagram.

Data from the EasySlider statistics, dating back up to 50 days, can be exported as CSV file for further use. CSV files can be opened with a number of different spreadsheet programs.



1. Click on the EasySlider system in the farm structure.

2. Click on the management area "Sow Manager" and then on the tab "EasySlider statistics".

The data for the EasySlider statistics is displayed now.





- 3. Select the view:
 - a) Check the box "Hide groups" to see the sows in one continuous list.If the box is not checked, the sows are shown in groups per section.
 - b) Click on the button "%" or "kg" to see the desired type of information.

Sow Mana	ager Sow stati	stics Sow fee	eding statistic	Callmatic fee	ding statistic	Sow visit statist	tic EasySlic	ler statistics	Boar Manager	
Hide groups 8 %								% Kg		
Sow No.	Feedcu	Total day 🔺	Total 7 days	Today	-1	-2	-3	-4	, B	-6
Sow hor	use Farrowing area	a 1								
00062	Sow feedcurve	29.7/30.0 kg	17.7/18.0 kg	3.0/3.0 kg	2.9/3.0 kg		3.0/3.0 kg	3.0/3.0 kg	2.9/3.0 kg	2.9/3.0 kg
00070	Sow feedcurve	29.7/30.0 kg	17.7/18.0 kg	3.0/3.0 kg	2.9/3.0 kg		3.0/3.0 kg	3.0/3.0 kg	2.9/3.0 kg	2.9/3.0 kg
00071	Sow feedcurve	29.8/30.0 kg	18.0/18.0 kg	3.1/3.0 kg	3.0/3.0 kg		3.0/3.0 kg	3.1/3.0 kg	2.9/3.0 kg	3.0/3.0 kg
00073	Sow feedcurve	29.8/30.0 kg	18.0/18.0 kg	3.1/3.0 kg	3.0/3.0 kg		3.0/3.0 kg	3.1/3.0 kg	2.9/3.0 kg	3.0/3.0 kg
00061	Sow feedcurve	29.8/30.0 kg	18.0/18.0 kg	2.9/3.0 kg	3.0/3.0 kg		3.0/3.0 kg	3.1/3.0 kg	3.0/3.0 kg	3.0/3.0 kg
00068	Sow feedcurve	29.8/30.0 kg	18.0/18.0 kg	2.9/3.0 kg	3.0/3.0 kg		3.0/3.0 kg	3.1/3.0 kg	3.0/3.0 kg	3.0/3.0 kg
00072	Sow feedcurve	30.0/30.0 kg	18.0/18.0 kg	2.9/3.0 kg	3.1/3.0 kg		3.0/3.0 kg	3.1/3.0 kg	2.9/3.0 kg	3.0/3.0 kg
00064	Sow feedcurve	30.0/30.0 kg	18.0/18.0 kg	2.9/3.0 kg	3.1/3.0 kg		3.0/3.0 kg	3.1/3.0 kg	2.9/3.0 kg	3.0/3.0 kg
00069	Sow feedcurve	30.1/30.0 kg	18.0/18.0 kg	3.0/3.0 kg	3.1/3.0 kg		3.0/3.0 kg	3.1/3.0 kg	2.9/3.0 kg	2.9/3.0 kg
00075	Sow feedcurve	30.1/30.0 kg	18.0/18.0 kg	3.0/3.0 kg	3.1/3.0 kg		3.0/3.0 kg	3.1/3.0 kg	2.9/3.0 kg	2.9/3.0 kg
00067	Sow feedcurve	30.1/30.0 kg	18.1/18.0 kg	3.0/3.0 kg	3.0/3.0 kg		3.0/3.0 kg	3.1/3.0 kg	3.0/3.0 kg	3.0/3.0 kg
00076	Sow feedcurve	30.1/30.0 kg	18.1/18.0 kg	3.0/3.0 kg	3.0/3.0 kg		3.0/3.0 kg	3.1/3.0 kg	3.0/3.0 kg	3.0/3.0 kg
00063	Sow feedcurve	30.2/30.0 kg	18.1/18.0 kg	3.0/3.0 kg	3.0/3.0 kg		3.0/3.0 kg	3.1/3.0 kg	2.9/3.0 kg	3.1/3.0 kg
00066	Sow feedcurve	30.2/30.0 kg	18.1/18.0 kg	3.0/3.0 kg	3.0/3.0 kg		3.0/3.0 kg	3.1/3.0 kg	2.9/3.0 kg	3.1/3.0 kg
O Sow hor	use Farrowing area	a 2								

4. Select the desired sow on which you want more information regarding the requested amount of feed or the feed requests.

Sow Mana	ager Sow statis	tics Sow fee	ding statistic	Callmatic fee	ding statistic	Sow visit statis	stic EasySlic	ler statistics	Boar Manager	
Hide gro	ups									% Kg
Sow No.	Feedcurve	Total day 🔺	Total 7 days	Today	-1	-2	-3	-4	-5	-6
Sow hou	use Farrowing area									
00062	Sow feedcurve	29.7/30.0 kg	17.7/18.0 kg	3.0/3.0 kg	2.9/3.0 kg		3.0/3.0 kg	3.0/3.0 kg	2.9/3.0 kg	2.9/3.0 kg
00070	Sow feedcurve	29.7/30.0 kg	17.7/18.0 kg	3.0/3.0 kg	2.9/3.0 kg		3.0/3.0 kg	3.0/3.0 kg	2.9/3.0 kg	2.9/3.0 kg
00071	Sow feedcurve	29.8/30.0 kg	18.0/18.0 kg	3.1/3.0 kg	3.0/3.0 kg		3.0/3.0 kg	3.1/3.0 kg	2.9/3.0 kg	3.0/3.0 kg
00073	Sow feedcurve	29.8/30.0 kg	18.0/18.0 kg	3.1/3.0 kg	3.0/3.0 kg		3.0/3.0 kg	3.1/3.0 kg	2.9/3.0 kg	3.0/3.0 kg
00061	Sow feedcurve	29.8/30.0 kg	18.0/18.0 kg	2.9/3.0 kg	3.0/3.0 kg		3.0/3.0 kg	3.1/3.0 kg	3.0/3.0 kg	3.0/3.0 kg
00068	Sow feedcurve	29.8/30.0 kg	18.0/18.0 kg	2.9/3.0 kg	3.0/3.0 kg		3.0/3.0 kg	3.1/3.0 kg	3.0/3.0 kg	3.0/3.0 kg
00072	Sow feedcurve	30.0/30.0 kg	18.0/18.0 kg	2.9/3.0 kg	3.1/3.0 kg		3.0/3.0 kg	3.1/3.0 kg	2.9/3.0 kg	3.0/3.0 kg
00064	Sow feedcurve	30.0/30.0 kg	18.0/18.0 kg	2.9/3.0 kg	3.1/3.0 kg		3.0/3.0 kg	3.1/3.0 kg	2.9/3.0 kg	3.0/3.0 kg
00069	Sow feedcurve	30.1/30.0 kg	18.0/18.0 kg	3.0/3.0 kg	3.1/3.0 kg		3.0/3.0 kg	3.1/3.0 kg	2.9/3.0 kg	2.9/3.0 kg
00075	Sow feedcurve	30.1/30.0 kg	18.0/18.0 kg	3.0/3.0 kg	3.1/3.0 kg		3.0/3.0 kg	3.1/3.0 kg	2.9/3.0 kg	2.9/3.0 kg
00007	Sow feedcurve	30. i 30.0 kg	18.1/18.0 kg	3.0/3.0 kg	3.0/3.0 kg		3.0/3.0 kg	3.1/3.0 kg	3.0/3.0 kg	3.0/3.0 kg
00076	Sow feedcurve	30.1 30.0 kg	18.1/18.0 kg	3.0/3.0 kg	3.0/3.0 kg		3.0/3.0 kg	3.1/3.0 kg	3.0/3.0 kg	3.0/3.0 kg
00003	Sow feedcuive	38.2 <mark>/</mark> 30.0 kg	18.1/18.0 kg	3.0/3.0 kg	3.0/3.0 kg		3.0/3.0 kg	3.1/3.0 kg	2.9/3.0 kg	3.1/3.0 kg
00066	Sow feedcurve	30.2/30.0 kg	18.1/18.0 kg	3.0/3.0 kg	3.0/3.0 kg		3.0/3.0 kg	3.1/3.0 kg	2.9/3.0 kg	3.1/3.0 kg
O Sow hou	use Parrowing area	2								
	<u> </u>									
Sow Detai	le: Sow 00076 - La	etating								
JOW Detai	13. 30W 00070 - La	locating								
		Consumption	n Trend				Reque	sts (ratio 81.)	0%)	
	Formula	o 1 16 Com b	augo Eorrowing	oron 1		Tota	al successful rec	uests: 630	Total requests:	778
	Farrowing pe	en 1-16 - Sow no	buse Farrowing	area i		104	1 3000633101160	100313.000	rotar requests.	110
100%				\frown						
80%				/						
			1	/		-1.5				
60%						_				
40%			_\/							
20%										
2070						60 75 69	79 60 75	65 85	61 75	65 78
0%	-6 -5	-4 -3	-2	-1 Too	lay .	-6 -5	5 -4	-3	-2 -1	Today



5. To export the data (dating back up to 50 days) for further use, click on "Export..." in the menu "Manager".





7 Alarm

An alarm is triggered when the set values are not met during operation or when there are malfunctions. Warnings are also counted as alarms. Alarms are first registered by the control computer. The control computer then sends the alarm message to the BigFarmNet Manager.

The BigFarmNet Manager indicates alarms as follows:

- Pop-up window: The window appears as soon as an alarm is registered, irrespective of the application the user is currently working in.
- Farm structure: Locations with a current problem are marked with a triangle in case of an alarm and with a circle in case of a warning.



• Tool bar: The number of alarms is shown next to the alarm icon.

Click on the pop-up window or the alarm icon in the tool bar to open the "Alarm" tab in the application window. The "Alarm" tab lists all active alarms and warnings.

If you click on a location with alarm or warning icon in the farm structure, the "Alarm" tab only shows problems active in the respective location.



Alar	m Log	Filter			
Туре	Categ.	יר 🐔	Where	When	Category
•	**	Windows Auto Update activated	Farm Bergstrop	3/2/2016 3:44:49 PM	<enter criteria="" filter=""> v</enter>
0	**	UPS is required but currently not enabled	Farm Bergstrop	3/2/2016 3:40:49 PM	Alarm
					Reset
A G	larm Deta	ils			
Ð	Jser Notes	3			2 alarms

The different alarms and warnings are shown in a list and ordered depending on when they occurred. The table columns contain the following information:

- Type: Alarm type
- Category: Alarm category
- Alarm: Alarm cause
- Where: Location of the alarm
- When: Time of occurrence

lcon	Status	Description
A	Active alarm	Not acknowledged: Cause still exists.
	Inactive alarm	Not acknowledged: Cause no longer exists.
×	Deactivated alarm	Acknowledged: Cause still exists.
	Ended alarm	Acknowledged: Cause no longer exists.
	Active warning	Not acknowledged: Cause still exists.
	Ended warning	Acknowledged: Cause no longer exists.
1	Info	Information about an incident that has occurred.

Alarm types



Alarm categories

lcon	Category
*	Climate: temperature, humidity
*	Control, IO connection or test (system-specific)
È	BigFarmNet system or CAN bus
₽	Dry feeding
Q	Liquid feeding
1 1	SiloCheck system
÷ n	WaterCheck system

3

Always eliminate causes for alarms in the "Climate" category first.

7.1 Filtering alarms

Alarms can be filtered according to category as well as cause.

1. In the right-hand part of the window under "Filter", open the drop-down menu listing categories.

By default, all categories are selected.

Filter		
Category		
<enter filter="" of<="" td=""><td>riteria></td><td>×</td></enter>	riteria>	×
🗹 🛷 Gener	al	a l
Clear	Ok	Cancel

- 2. Click on "Clear" to delete all check marks.
- 3. Check the boxes of the correct categories.
- 4. Click on "OK" to accept this selection.



5. Under "Alarm", select the desired alarm cause from the drop-down menu.

The table then shows the desired alarms.



6. To deselect the alarms, click on "Reset".

The table now lists all alarms.

7.2 Acknowledging an alarm

Alarms can be acknowledged their cause has been eliminated. The alarm is marked with the corresponding icon (see alarm types) in the table and the system no longer requires action from the user.

- 1. Click on the alarm you want to acknowledge to mark it.
- 2. Click on "Alarm details" in the bottom part of the application window.



3. Click on "Acknowledge".

0	Windows Au	to Update is activated	Where:	Farm Bergstrop	
	Windows Au 011-102356	to Update is activated on DE- (10.104.3.48). This can cause	• When:	3/15/2017 10:40:10 AM	
	problems w used as a c	ith BigFarmNet, if the machine i ontroller. Please deactivate it in	Restored	l:	
*	Category:	General	Duration	:	
	Source:	Service offline	Code:	116-0008	
	The alarm h	as not been acknowledged			Acknowledge

4. Click on "Acknowledge" again in the next window.



5. If necessary, leave a note on the alarm.

This note may be helpful to later eliminate similar alarms.

- a) Click on the alarm for which you want to leave a note to mark it.
- b) Right-click to open the context menu and click on "Show user notes".

The window "User notes" opens in the lower part of the application window.



c) Enter your note into the field "Feedback" or "Corrective action".

		~
Corrective action		
	Cancel	Save
	Corrective action	Corrective action

d) Click on "Save".

Or:



- 1. Select one or more alarms.
- 2. Right-click to open the context menu and click on "Acknowledge selected".



Alar	m Log			
Туре	Categ	Alarm		Where
	**	Jammed :	selection door	Sow house - Pregna
•	**	Windows	Acknowledge selected Show details	m Bergstrop
			Show user notes	red la

3. Click on "Acknowledge" in the next window.

7.3 Alarm log

The "Log" tab shows all alarms which have occurred since initial operation of the BigFarmNet Manager on your farm.

Alarn	n Log	S				Search Date interval
Туре	Categ	Ala C	Where	When	Duration	J J J J4 J4 J
0	*	UPS is required but currently not	Farm Bergstrop	3/18/2016 3:03:30 PM		
•••	5 ⁵⁴	Windows Auto Update activated	Farm Bergstrop	3/18/2016 3:03:30 PM		Type <pre> <pre> <pre> <pre> </pre> <pre> </pre> <pre> </pre> <pre> Category </pre> <pre> </pre> <pre> <pre> Category </pre> <pre> </pre> </pre> <pre> </pre> <pre> </pre> </pre> <pre> </pre> <pre> </pre> </pre> <pre> </pre> </pre> <pre> <p< td=""></p<></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre>
A (larm Deta	ils				
£١	ser Notes	8				2 alarms

Use the search function to view selected alarms in this tab. The following search options are available in the right-hand part of the window under "Search":

- Date interval: Time periods during which alarms may have occurred
- Type: Alarm type
- Category: Alarm category
- Alarm: Alarm cause
- Where: Location of the alarm
- User notes: provided user notes have been left



Deleting alarms

1. Click on "Delete..." in the right-hand part of the "Log" tab.



2. Click on the desired time period or enter a date.





Only alarms older than six months can be deleted.

3. Click on "OK".

All alarms of the selected time period are deleted, irrespective of whether specific alarms are currently selected via the search function.



7.4 Alarm Notification

Alarm Notification is a service that sends alarms via email. Alarm notification via SMS is currently not supported.

To use the Alarm Notification service via email, configure the service in BigFarmNet Manager. The following technical conditions must be met for email notifications:

- Internet connection
- running BigFarmNet Manager



The Alarm Notification service cannot replace an autocaller! The service is merely an additional help.

Carry out the following steps to set up the Alarm Notification service:

1. Click on "Alarm Notification" in the "Setup" menu.

This opens the dialog window "Alarm Notification".





2. Click on the "Configuration" tab in the dialog window.



3. Check the box "Select to run Alarm Notification service on this PC".

Alarm Notification							
Receivers Configuration	on						
Alarm Notification status: Alarm Notification service is running on this PC							
Licence (used/available):	Licence (used/available): 1/1						
Select to run Alarm Notification service on this PC							
1 Alexandre							
E-mail Emguration							
E-mail settings							
	Enable e-mail notification						
Server defaults	~						
E-mail server							

4. Click on the arrow pointing downwards next to "Server defaults" and select your server default from the drop-down menu.

Receivers Configuration Alarm Notification status: Alarm N Licence (used/available): 1/1 Select to run Alarm Notification E-mail Configuration E-mail settings	Notification service is running on a service on this PC able e-mail notification	this PC	_	8	
Alarm Notification status: Alarm N Licence (used/available): 1/1 Select to run Alarm Notification E-mail Configuration E-mail settings	Notification service is running on a service on this PC able e-mail notification	this PC		1	
Licence (used/available): 1/1 Select to run Alarm Notification E-mail Configuration E-mail settings	a service on this PC able e-mail notification			8	
Select to run Alarm Notification E-mail Configuration E-mail settings	a service on this PC			•	
E-mail Configuration E-mail settings	able e-mail notification			1	
E-mail settings	able e-mail notification			•	
	able e-mail notification				
En:					
Server defaults		ý	>		
E-mail server Goog Yaho	Idard SMTP gle GMAIL po mail		e)		
Server Port Micro GMX	osoft Live mail				
User name Web.	.de				
Password	aut mail client				
Sender E-mail			Test E-mail		
Sender name			Save		
					Close

As soon as you have selected a server default, the email server, the server port and the SSL are filled in automatically.



- 5. Enter the user name, the password and the sender email.
- 6. Check the box "Enable e-mail notification" to activate this function.

Alarm Notification status: Alarm Notification service is running on this PC Licence (used/available): 1/1 Select to run Alarm Notification service on this PC E-mail Configuration E-mail settings Server defaults E-mail server Server Port 587 Use SSL User name Test 1 Password Sender E-mail Test@web.de TestE-mail	
Licence (used/available): 1/1 Select to run Alarm Notification service on this PC E-mail settings F-mail settings Server defaults E-mail server Server Port Server Port Server Port Server 1 Server Port Server Port Server 1 Server 1 Server 2 Server 2 Serv	
Select to run Alarm Notification service on this PC E-mail Configuration E-mail settings Server defaults Web. Server Port 587 V Use SSL User name Test 1 Password Test 1 Test 6 Sender E-mail Test 6	
E-mail Configuration E-mail settings Server defaults Web. Server Port 587 V Use SSL User name Test 1 Password **** Sender E-mail Test@web.de Test@web.de Test E-mail	
E-mail settings Server defaults Web.de Server Port 587 Vuse SSL User name Test 1 Password Sender E-mail Test@web.de TestE-mail	
E-mail seturgs Server defaults Web. E-mail server smtp.web.de Server Port 587 Use SSL User name Test 1 Password **** Sender E-mail Test@web.de	
Server defaults Web. E-mail server smtp.web.de Server Port 587 Use SSL User name Test 1 Password **** Sender E-mail Test@web.de Test E-mail	
Server defaults Web. E-mail server smtp. web. de Server Port 587 V Use SSL User name Test 1 Password **** Sender E-mail Test@web. de Test E-mail	
E-mail Server Smtp.web.de	
E-mail server smtp.web.de Server Port 587 V Use SSL User name Test 1 Password **** Sender E-mail Test@web.de Test E-mail	
Server Port 587 ♥ Use SSL User name Test 1 Password ***** Sender E-mail Test@web.de Test E-mail	
User name Test 1 Password ***** Sender E-mail Test@web.de	
Password **** Sender E-mail Test@web.de Test E-mail	
Sender E-mail Test@web.de Test E-mail	
Sender name Save Save	

7. Click on "Test E-mail" to check the configuration.

Alarm Notification							
Receivers Configuration							
Alarm Notification status: Alarm Notification service is running on this PC							
Licence (used/available): 1/1							
Select to run Alarm Notification service on this PC							
E-mail Configuration							
E-mail settings							
	Enable e-mail notification						
Server defaults	Web.de 🗸						
E-mail server	smtp.web.de						
Server Port	587 Vise SSL						
User name	Test 1						
Password	\$\$\$\$						
Sender E-mail	Test@web.de	Test E-mail					
Sender name	Farm Bergstrop	Save 8					
			Close				

8. Click on "Save" to accept all settings.



9. Click on the "Receivers" tab.



10. Click on "Add" to add a recipient.

Alarm Notific	ation				
Receivers	Configuration				
Active	Contact	Notification type	Where	Alarms	Test
				Add	Remove
				目)	
				-	Close

11. Enter the contact details in the next dialog window and select the correct language. Alarm notifications via SMS are currently not supported.

Edit Contact	×
Name	
Mobile no.	
E-mail	
Language	English (United Kingdom) 🗸
	Ok Cancel

12. Confirm your input by clicking on "OK".



13. Click into the input field below "Notification type" and select "E-mail" from the dropdown menu.

Alarm Notific	ation				
Receivers	Configuration				
Active	Contact	Notification type	Where	Alarms	Test
	Receiver 1	Select notification type	 All locations are selected 	All Selected 🗸 🗸	10
		01			
		Clear OK C	ancei		
				Add Edit R	emove
					Close
					Ciuse

- 14. Confirm your selection by clicking on OK at the bottom of the drop-down list.
- 15. Click into the input field below "Where" and select the location for which you want to receive alarms.

You may select multiple locations.

Alarm Notific	ation				
Receivers	Configuration				
Active	Contact	Notification type	Where	Alarms	Test
	Receiver 1	Select notification type 🔹 🗸	All locations are selected 🔹 🗸	All Selected 🗸 🗸	T
			 ✓ Farm Bergstrop ◇ SiloCheckPro ◇ SiloCheckPro ◇ WaterCheckPro ◇ WaterCheckPro ◇ WaterCheckPro ◇ WaterCheckPro ◇ Savistication ◇ ✓ EasySilder ○ ✓ A Service area ◇ ✓ △ Service area ◇ ✓ △ Fregnancy area ◇ ✓ △ Farrowing area 1 ◇ ✓ △ → Area Area Area Area Area Area Area Area	Cancel	
				Add Edit R	emove
					Close

- 16. Confirm your selection by clicking on OK at the bottom of the drop-down list.
- 17. Click into the input field below "Alarms" and select which type of alarms the recipient should receive.

You may select multiple locations.



Alarm Notific	ation				
Receivers	Configuration				
Active	Contact	Notification type	Where	Alarms	Test
	Receiver 1	Select notification type 🛛 👻	All locations are selected 🛛 👻	All Selected 🗸 🗸	1
				♥ ¥ Climate Production ↓ Production ↓ Production Equipm ↓ Feed ↓ Upt ↓ Management ↓ Management ↓ Management ↓ MaruUnit ↓ ↓ MaruUnit ↓ ↓ ↓ AirruUnit ↓ ↓ ↓ ↓ ↓	
				Add Edit Re	emove
					Close

- 18. Confirm your selection by clicking on OK at the bottom of the drop-down list.
- 19. Activate the recipient for alarm notifications by checking the box below "Active"

Alarm Notifica	ation				
Receivers	Configuration				
Active	Contact	Notification type	Where	Alarms	Test
<u> </u>	Receiver 1 ···	Select notification type 🔹 👻	All locations are selected 🛛 👻	Selected 4176 of 4298 🛛 👻	18
Y	*				
ש	<u>ل</u> م				
				Add Edit D	movo
					entove
					Close



- 20. Check the configuration of the recipient's data by sending the recipient a test notification:
 - a) Click on the alarm notification icon.
 - b) Confirm the dialog for test notification by clicking on "Yes".

Receivers	Configuration					
Active	Contact	١	lotification type	Where	Alarms	Test
🗹 Receiver 1 💀 Select notification type 🗸 A		 All locations are 	 Selected 4176 of 4298 	· I.		
					Yes No	

21. Click on "Close" after you have configured all settings.

This closes the dialog window.


7.5 System-specific alarms

The following table describes all possible alarms and warnings for EasySlider:

Category	Alarm	Description	Possible cause
	Animal daily ration	(0) animals have	Indicates the number of animals
****		not consumed their	which have not consumed a
		daily ration.	sufficient amount of feed by the
			end of the day. The threshold for
			the minimum feeding amount is
			indicated as percentage and can
			be configured in the settings for
			the EasySlider application. see
			chapter 4.1.3 "Alarm", page 34.
	No animal in a pen	There are no	There actually is an animal in the
***		animals in the pen,	pen which is requesting feed.
		but the pendulum	However, this animal is not
		to request feed was	registered for this pen (station)
		actuated.	by the system, see chapter 4.1.3
			"Alarm", page 34.

8 Operation of the control computer



The EasySlider feeding system is controlled by the 510*pro* control computer with touch screen. The 510*pro* can be operated either centrally through BigFarmNet Manager or locally. Each 510*pro* can control a maximum of 16 CAN bus junction boxes. Up to 25 EasySlider units can be set up per CAN bus junction box. This means that one 510*pro* can control a maximum of 400 EasySlider feeding spaces.

Settings regarding eating speed, dosing and selection of feeding time patterns can be configured directly at the 510*pro*.

The control computer and the Manager PC are connected through the BigFarmNet software to ensure constant data exchange.

Dimensions (H x W x D)	381 mm x 400 mm x 170 mm
Protection degree according to	IP 54
EN60529	
Supply voltage	115 V, 200 V and 230 V/240 V AC +/- 10 %
Supply frequency	50/60 Hz
Power consumption	75 VA
Network	2 network interfaces, 10/100 BASE+TX RJ 45
USB	2 USB interfaces, USB 2.0 type A, max. 4 GB
Ambient temperature	-10 to +45 °C (+14 to +113 °F)
30 punch holes for metric cable g	land M 25 x 1.5
Code no.	91-02-4041

8.1 Technical data



8.2 Icons

	Overview / Start screen
	You are currently in the overview.
‡	Settings menu
‡	You are currently in the settings menu.
◄))	Alarm
◄))	An alarm is active.
()	You are currently in the alarm menu.
	Feed curve
Ð	Logging out
Ω?	Information on the settings parameter
5	Return to previous view
>	Open additional information or settings
∧ ∨	Scroll up / down in selection



÷

Ð

•

ᆔ

Expand structure
Collapse structure
Network configuration
Go to the next edit / settings window
Save input



Logging in



8.3 Login

Log into the control computer using the login dialog.

The login dialog appears

- automatically after the software has been installed successfully, when the application starts;
- automatically after a specific time without activity (automatic logout); or
- if you actively log out of the control computer.

Please login					
Username Password	adminDE	1 4 7 6	2 5 8 0	3 6 9	P

The user name and the password are the same as when logging into BigFarmNet Manager.

8.4 Logout

ø

1. Tap on the "Logout" icon to log out.

i i	Farm Bergstrop						
9	Stopped by user					► s	itart
)	Sow house Farrowing area	L	Patter	n: Default	Feeding da	y: 0	
	12:00 AM - 11:59 AM (40 %)	12:00 PM 5:59 PM (30 %)	4 -	6:00 PM - 11:59 PM (30 %)			
+	Sow house Farrowing area	2	Patter	n: Default	Feeding da	y: 0	





2. Confirm that you are logging out.

The login dialog appears on the display again.



8.5 Start screen

After logging in, the start screen shows the individual sections, including the following information:

- selected time pattern;
- feeding day;
- number of defined feeding times in the time pattern (expand the structure by tapping on +).





8.6 Pen view

Tap on the correct section in the start screen to open an overview of each pen's individual data. The feeding data can be displayed as percentage or as absolute values in kg, in the same manner as in BigFarmNet Manager.

Eas	ySlider 02/02/2018 - 09:42 AM	🔼 🏟 📢 🖸		EasySlider 02	2/02/2018 - 09:43	АМ	🔼 🌣 ·	•) •
ф)	Farm Bergstrop		1	Farm Bergstrop	Sow house S F	arrowing area 1	B	% kg
П	Stopped by user	► Start		Pen	Sow no.	State	Fed today	- 4
+	Sow house Pattern: Default	Feeding day: 0		Farrowing pen	00061	Empty (5)	0.00 %	
+	Sow house Pattern: Default	Feeding day: 0		Farrowing pen	00062	Empty (5)	0.00 %	
	Farrowing area 2		2000000	Farrowing pen	00063	Empty (5)	0.00 %	
				Farrowing pen	00064	Empty (5)	0.00 %	
				Farrowing pen	7	Empty (0)	0.00 %	
				Farrowing pen	00066	Empty (5)	0.00 %	
		· · · · · · · · · · · · · · · · · · ·		Farrowing pen	00067	Empty (5)	0.00 %	~

The location of the pen is displayed at the top.

Tap on 5 to return to the previous overview or the start screen.

EasySlider 02/02/2018 - 09:43 AM						
Farm Berg	jstrop > So	w house > Farro	wing area 1		<mark>%</mark> k	g
Pen ^		Sow no.	State ^	Fed today		
Farrowing pen	4	00061	Empty (5)	0.00 %		
Farrowing pen	4	00062	Empty (5)	0.00 %		
Farrowing pen	4	00063	Empty (5)	0.00 %		
Farrowing pen	4	00064	Empty (5)	0.00 %		
Farrowing pen	4		Empty (0)	0.00 %		
Farrowing pen	4	00066	Empty (5)	0.00 %	_	
Farrowing pen	4	00067	Empty (5)	0.00 %		1

8.6.1 Valve actions

Tap on 4 to carry out one of the following actions for the valves in the pen view:



- Lock: The valve is locked immediately.
- Automatic: The locked valve is immediately put into operation again.
- **Dosing portion**: The portion is dispensed immediately.
- Screw filling: The auger is filled immediately. Advantage: The amount of feed required to fill the auger is not included in the sow's feeding statistics. The time the auger needs to fill the dosing unit can be defined in the settings under chapter 4.1.2 "General".
- Cancel

8.6.2 Sow data

You can retrieve the feeding data of each sow individually in the pen view. Additionally, you can change each sow's feed curve and define the feed adjustment.

EasySlider	02/02/2018 - 01:13 PM	4	🔼 🌣 <	1) E	EasySlider of)2/02/2018 - 01:14 PM	и [s 🔅 🖞	()
Farm Bergstro	op > Sow house > Far	rowing area 1		/o kg	Farm Bergstro	> Sow house > Far	rowing area 1 > Sow 00061	Ú.	
Pen	Sow no.	State	Fed today		- Sow 00061				
Farrowing pen	4 00061 ~~	Empty (5)	0.00 %		Daily feed amount	0.00	Feed curve	Sow feed o	
Farrowing pen	4 00062 8	Empty (5)	0.00 %		Fatas	0.00	Fand adjustment		0/
Farrowing pen	4 00063	Empty (5)	0.00 %		Laten	0.00	Feed adjustment	-	70
Farrowing pen	4 00064	Empty (5)	0.00 %		Remaining feed amount	0.00	Pig ear tag		
Farrowing pen	4	Empty (0)	0.00 %		Retrieved doses	0	State	Empty	
Farrowing pen	4 00066	Empty (5)	0.00 %		Manual docer	0	Dave la state	e	
Farrowing pen	4 00067	Empty (5)	0.00 %	~	Planual duses		buya in state	1	



Selecting a feed curve

1. Tap on the feed curve icon.

EasySlider 🛛	2/02/2018 - 01:14	рм 🗧	<mark>≥ ☆</mark> •)	Ţ
Farm Bergstrop	\rightarrow Sow house $>$ F	arrowing area 1 > Sow 00061	L	
🕌 Sow 00061				
Daily feed amount	0.00	Feed curve	Sow feed c	
Eaten	0.00	Feed adjustment	-	%
Remaining feed amount	0.00	Pig ear tag		
Retrieved doses	0	State	Empty	
Manual doses	0	Days in state	5	

2. Select the correct feed curve for the sow.

EasySlider 02/02/2018 - 01:16 PM	ᡇ	■))	Ð
> Sow 00061 > Feed curve		k	%
Sow 00061			
Sow feed curve			
Feed curve gilt training			
			R

3. Save your inputs by tapping on

Feed adjustment

Configure the following settings for feed adjustment:

- **Start factor:** Defines by how much (percentage) the daily feed ration should be increased. If you enter 120 %, for example, the sow receives 20 % more feed than pre-set by the feed curve, starting from the date entered as starting date.
- **Duration:** The number of days for which the sow is to receive an increased amount of feed.
- Start date: Start of the increased feed amount



- **De- or increase gradually:** The increased percentage is reduced in daily steps until the sow is back to the feed amount pre-set in the feed curve.
- **Constant:** The specification made under "Start factor" is observed constantly for the number of days given under "Duration". This means that the sow will receive an increased feed amount for a specific time period.

EasySlider 02/02/2018	🗅 🌣 🜒 🗉	
> Sow 00061 > Feed	adjustment	
Adjustment	100 %	2 3
Duration	1 day 4	5 6
Start date 02 (mm/dd/yyyy)	/ 02 / 2018 7	8 9
De- or increase gradually	•	
Constant	•	

8.7 Settings

Tap on the cogwheel icon to switch to the settings menu. The following chapters describe the settings options.





8.7.1 Eating speed

- 1. Tap on "Eating speed" under "Settings".
- 2. Define the eating speed according to parity (number of times a sow has farrowed).



- a) Tap on the correct input field. This activates the numeric keypad.
- b) Use the numeric keypad to enter the correct value.
- 3. Save your inputs by tapping on

8.7.2 Application settings

- 1. Tap on "Application not operational" under "Settings".
- 2. Define the system's alarm behavior for when the application is paused for a longer period or in error mode.

Maximum pause time: If the application does not run for a time longer than set here (pause or error), an alarm or a warning (depending on what is set for "Action after maximum pause time") is issued. If the time is set to 0 minutes, there is no maximum pause time.

Tap on the input field to enter the correct value using the numeric keypad.

Action after maximum pause time can be set to be either an alarm, a warning or no action at all ("No").

Repeat action: When this box is checked, the action (alarm, warning or no action) is repeated every time the maximum pause time expires.



EasySlider 02/02/2018	3 - 01:22 PM			*	- ()	ŧ		
Settings > Application not operational								
Max pause time	0 min	1	2	3				
Action after max pause time	Alarm V	7	8	9				
Repeat action	yes 🗸	¢	0					

3. Save your inputs by tapping on

8.7.3 Feeding time pattern (selection only)

This setting only allows selecting the feeding time pattern you have created in BigFarmNet Manager beforehand, see chapter 4.2 "Determining feeding times".

- 1. Tap on "Feeding time pattern" under "Settings".
- 2. If you want to change the pattern for a specific section, tap on the correct input field and select the pattern.



OR

If you want to select the same pattern for multiple sections, tap on all sections and select the correct pattern.



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Settings > Fee	K			
Section	Pattern		Feeding 1	~
Sow house Farrowing area 1	Feeding 1		Feeding 1 Default	Ser la
Sow house Farrowing area 2	Default			
Jam				
		~		R

3. Save your inputs by tapping on

8.7.4 Dosing

- 1. Tap on "Dosing" under "Settings".
- 2. Tap on the input field to enter the correct value using the numeric keypad.



Amount per dosing is the calibrated amount dispensed within the Time per dosing.

The amount per dosing is calibrated as follows:

- a) Carry out e.g. 10 dosing processes with the desired dosing duration at three different dosing units.
- b) Weigh each dispensed amount.
- c) Determine the mean value by adding the dispensed amounts and then dividing them by the total number of dosing processes (in this example: 30).

The mean value is identical with the amount per dosing.

3. Save your inputs by tapping on



8.8 Alarms

If there is an active alarm or warning, the alarm icon is red.

1. Tap on the icon to open the alarm menu.



The different alarms and warnings are shown in a list and ordered depending on when they occurred. The table columns contain the following information:

- alarm type, see chapter 7 "Alarm"
- alarm description
- time of occurrence
- Tap on the correct alarm to read the full description and to confirm / acknowledge the alarm by tapping on , if necessary.





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