Technofeed Control unit TF1000

Manual

-UK-

ACF-FEEDSYSTEMS

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MENU
CODE
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Index

The Technofeed control unit TF1000 4
Home screen 5
Menu 6
Animals 7
Location box -> 8
Animal -> 9
Feed -> 10
Feedcurves 11
Curve -> 12
< Check > 12
Adjust -> 13
Locations 14
Location -> 15
Start times -> 16
Management 17
Sign in 18
Service 19
Backup 20
Service 21
Monitor 22
Sign out 22
By location and box 23
By animalnumber -> 24
Settings -> 25
Dosing 26
Calibration 27
Manual start 28
Systemclock 29

The Technofeed control unit TF1000

This is the user manual of the Technofeed Control unit TF1000. The information in this user manual is the property of Cawi pig farming solutions and may not be multiplied or distributed without the express permission of the owner.

The user manual contains a triangle with an exclamation mark several times. This is an important announcement that may affect the functionality of the system. Therefore, read these announcements with extra attention.

The user manual is written to give instructions for using the Technofeed control unit TF1000. Therefore, read this user manual carefully before using the system. This is to prevent unforeseen inconveniences.

The Technofeed control unit TF1000 may only be connected and configured by a certified technician. The power supply for the complete system must comply with NEN1010, guidelines for electrical installations.

Warning: Please note that in times of a power failure no feed is given and this must be set later. Also the feed starts that should have taken place at that time.

Note: Cawi pig farming solutions is not responsible for the data that is entered and also not for automatic actions that may result. This system does not prevent the user from his / her responsibility to ensure the healthy living conditions of the animals.

Home screen

Below is the home screen of the Technofeed Control unit TF1000. Three choices are possible on the home screen: Menu, code and a flag.

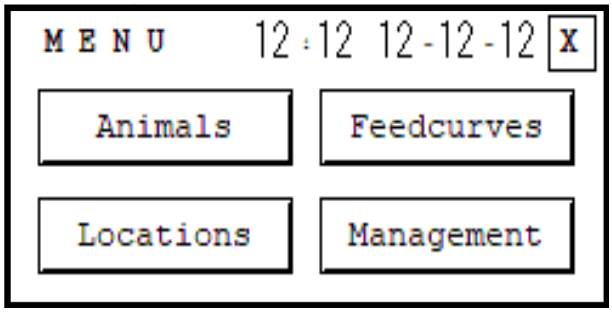
MENU With this function you go directly to the menu. Here you can install, change or give service to your Technofeed installation.

CODE This function is for your service engineer to be able to change settings in the software. The code is only known by experienced technicians and is built in to ensure that the system cannot be changed by inexperienced users.

If you push the flag on the home screen for 3 sec. you can change the language of your system. Once this has been set, you no longer have to change it.

Menu

In the menu you have the choice of four different options: Animals, Feed Curves, Locations and Management. In the top right you can see the current time and date. If this information is incorrect, you can change this information here. The four different options are classified as follows:



Animals

With this function you can change the data of your animals that have been sign up in the "locations" function. Such as: Curve number, Curve days, correction percentages on the curve and Pre-days (only for nursery).

Feedcurves

With this function you can change the feed curves, check the feed curves, rename the feed curves and organize the feed curves.

Locations

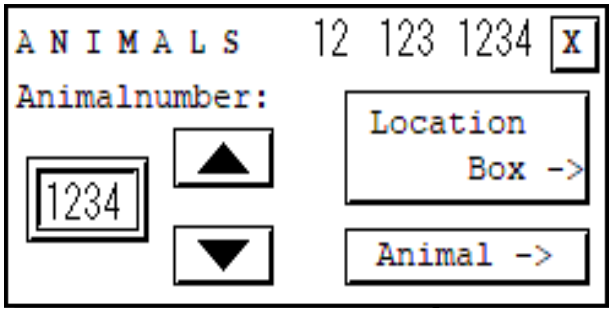
With this function you can change the starting times by location, give the location a name and set a feeding start at a location.

Management

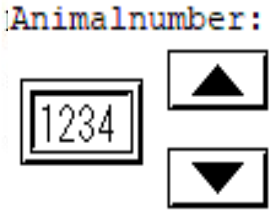
With this function you can sign up animals, sign out, go to the service menu and change settings.

Animals

With this function you can change the data of your animals that have been sign in in the "locations" function. Such as: Curve number, Curve days, correction percentages on the curve and Pre-days (only for nursery).

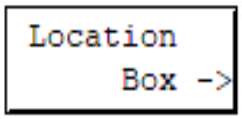


At the top of the corner you will find the data in the order: Location, Box and Animal number. Linked to the animal number that is entered under animal number ("1234" below).



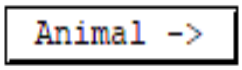
In the window (1234) of the animal number you can select the wanted animal by using the arrow keys next to the screen. You also have the option of entering the number. Press the number for that. A keyboard appears with which you can enter the wanted animal number. Then press [ENT] to confirm the number.

It is also possible to approach the animal by location / box with possibly unknown animal numbers. In this case, press:



With this function you can search the animal number with the location and box number.

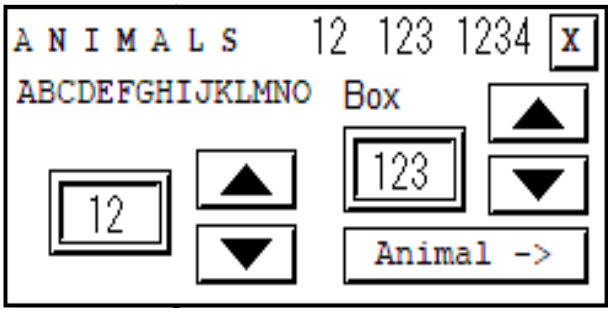
When the wanted animal is selected, you can click on the "Animal" function.

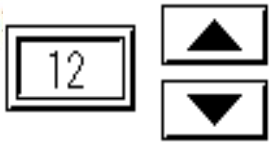


With this function you can view and change the curve of the selected animal. You can also change the pre-days and feed percentages from the animal.

Location box ->

With this function you can search the animal number with the location and box number.

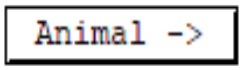




With this function you can select the correct location of the wanted animal by using the arrow keys next to the screen. You also have the option of entering the location. Press the number for that. A keyboard appears with which you can enter the wanted animal number. Then press [ENT] to confirm the number.

With this function you can select the correct box of the wanted animal by using the arrow keys next to the screen. You also have the option of entering the box. Press the number for that. A keyboard appears with which you can enter the wanted animal number. Then press [ENT] to confirm the number.

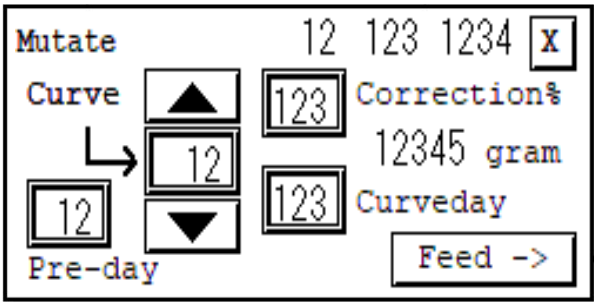
When the wanted animal is selected, you can click on the "Animal" function.



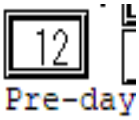
With this function you can view and change the curve of the selected animal. You can also change the pre-days and feed percentages from the animal.

Animal ->

With this function you can view and change the curve of the selected animal. You can also change the pre-days and feed percentages from the animal.



The wanted curve of the animal can be selected by using the arrow keys above and below the screen. You also have the option of entering the curve number. Press the number for that. A keyboard appears with which you can enter the curve number. Then press [ENT] to confirm the number.



This function is only required for nursery.

With this function you enter the number of days that the animal is before the expected delivery date. The number of pre-days to be set is a maximum of 14 days. Then he counts back one day every day (at 00:01 am) until day 0, after day 0 the feed curve will start.

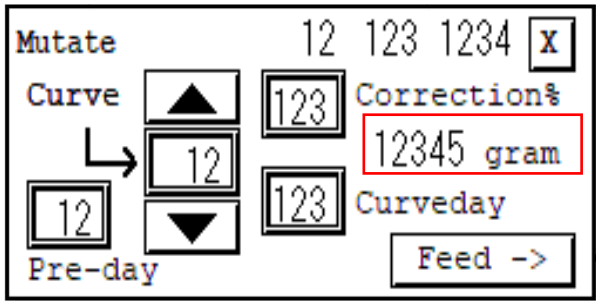
If the Pre-day is at 0, the feed curve starts automatically! If the pre-day number is 1 or higher, feeding is done according to the pre-days, regardless of the number of the curve days. During the pre-days, a fixed amount of feed is given equal to day 0 of the feed curve!

In the two windows next to the curve number you can enter the correction on the curve and the curve day of the animal.

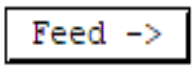
In the upper window you can enter a correction (75-125) percentage on the curve by animal. This value can deviate a maximum of 25 percent on the curve assigned to the animal. Press the number for that. A keyboard appears with which you can enter the wanted deviation in percentages. Then press [ENT] to confirm the number.

Note: This value remains until this value is changed manually again.

In the lower window you can adjust the curve day of the animal. Press the number for that. A keyboard appears with which you can enter the wanted curve day. Then press [ENT] to confirm the number.



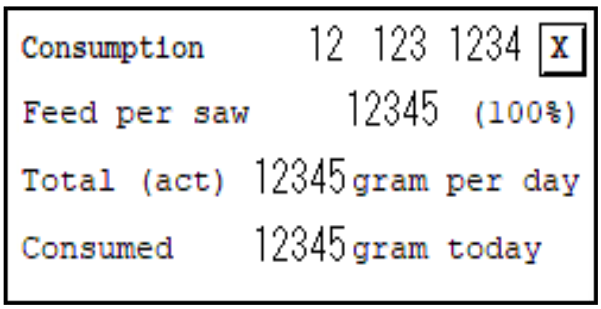
You can then see the number of grams of the calculated daily amount by animal at the number of grams in the window (see red box on the left).



With this function you can see the current feed calculation for the day. You will also see the number of grams of food that has already been supplied to the animal this day.

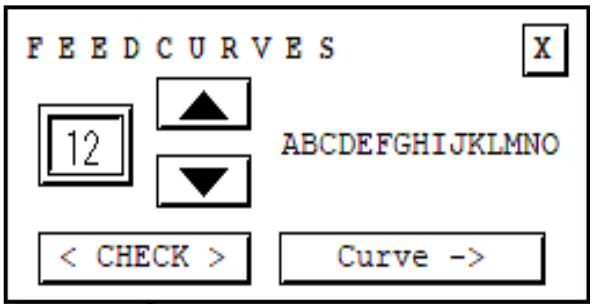
Feed ->

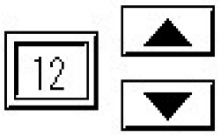
With this function you can see the current feed calculation for the day. You will also see the number of grams of food that has already been supplied to the animal this day.



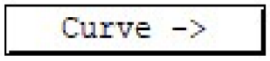
Feedcurves

With this function you can change the feed curves, check the feed curves, rename the feed curves and organize the feed curves. The currently selected curve is indicated in the screen. You can change the name (in the window here under “ABCDEFGHIJKLMNO”) with the “Curve” function.





The wanted curve of the animal can be selected by using the arrow keys above and below the screen. You also have the option of entering the curve number. Press the number for that. A keyboard appears with which you can enter the wanted curve number. Then press [ENT] to confirm the number.

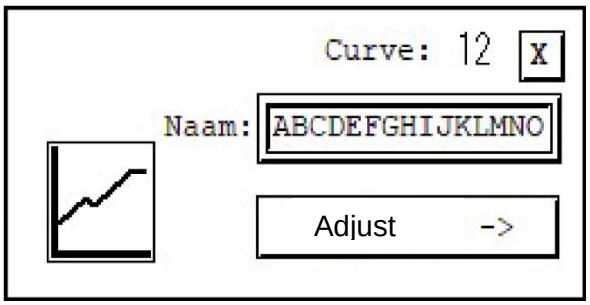


With this function you can adjust the name of the curve. You can also set and adjust the curve by day.

With this function you can check the curve. You can see the number of grams of food by curve day.

Curve ->

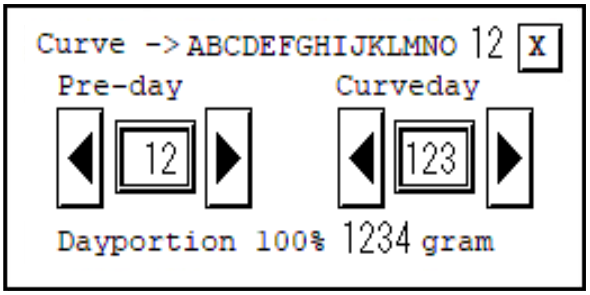
With this function you can adjust the name of the curve. You can also set and adjust the curve by day. Press the text for that. A keyboard appears with which you can enter the desired name of your feed curve. Then press [ENT] to confirm this name.

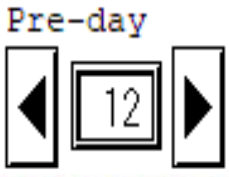


With the adjust function you can set the feed curve by day.

< Check >

With this function you can check the curve. You can see the number of grams of food by curve day.



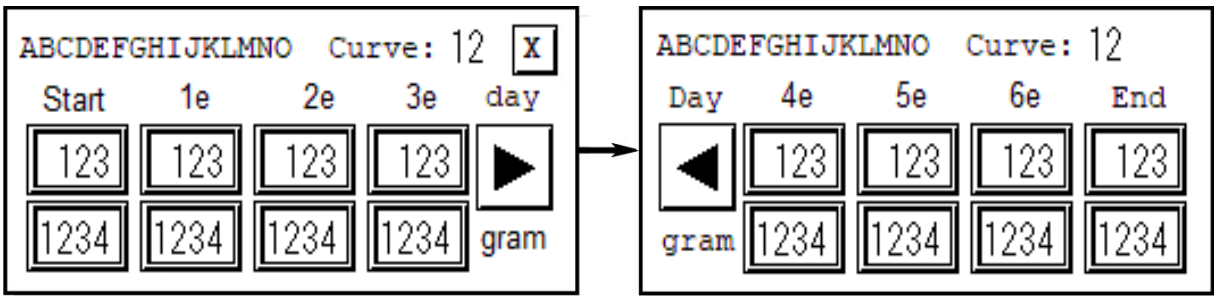


With this function you can view the daily portion of the selected pre-day. The requested pre-day of the curve can be selected by using the arrow keys on the left and right of the screen. You also have the option of entering the pre-day. Press the number for that. A keyboard appears with which you can enter the wanted pre-day. Then press [ENT] to confirm the number.

With this function you can view the daily portion of the selected curve day. The requested curve day of the curve can be selected by using the arrow keys on the left and right of the screen. You also have the option of entering the curve day. Press the number for that. A keyboard appears with which you can enter the wanted curve day. Then press [ENT] to confirm the number.

Adjust ->

With the adjust function you can set the feed curve per day.

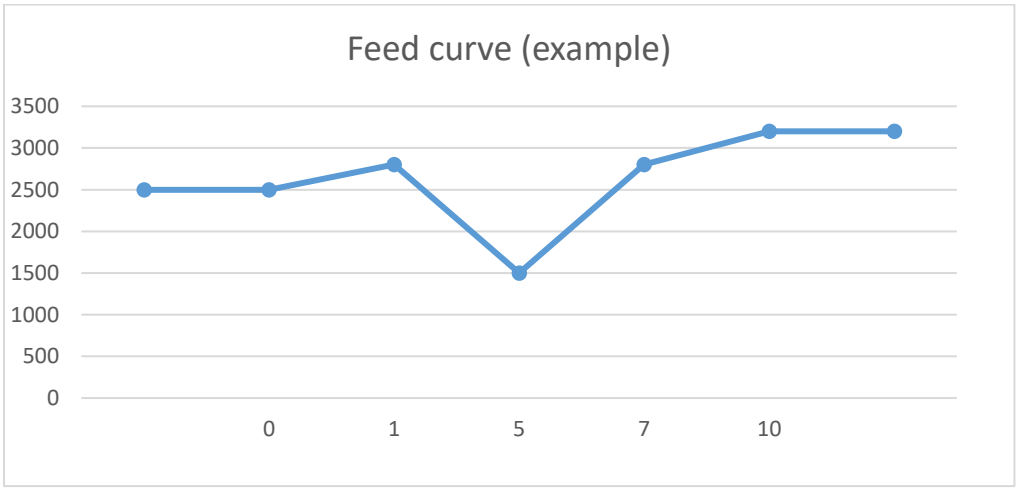


In these windows you can set the curve for each point. The change points of the curve can be by day, but can also change after a few days. The number of grams in the curve is calculated from point to point. In the example, 2800 grams are fed in day 1. The next point on day 5 is 1500 grams. The curve then decreases until day 5 to the entered number of grams. Then the system takes the next point and works towards the next point again. In total you can indicate one starting point (day 0), 6 middle points and one end point. The days after the last entered point keep the same value as the number of grams at the last entered point.

⚠ PLEASE NOTE: If there is still a value at 0 grams under a completed day (1-180), the curve will decrease to 0 grams !

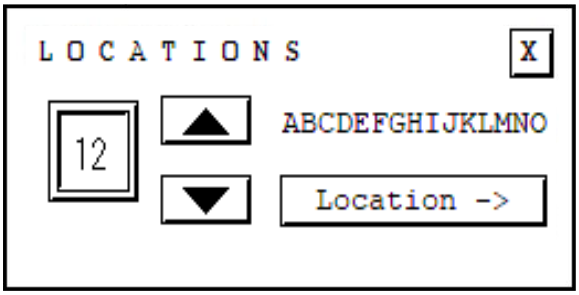
Example:

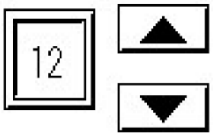
Start	1th	2nd	3th	End	
0	1	5	7	10	Day
2500	2800	1500	2800	3200	grams



Locations

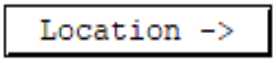
With this function you can change the starting times by location, give the location a name and set a feeding start at a location. A maximum of 30 locations can be programmed per TF1000.





The wanted location can be selected by using the arrow keys above and below the screen. You also have the option of entering the location number. Press the number for that. A keyboard appears with which you can enter the wantedlocation number. Then press [ENT] to confirm the number.

When you have selected the correct location, press Location.

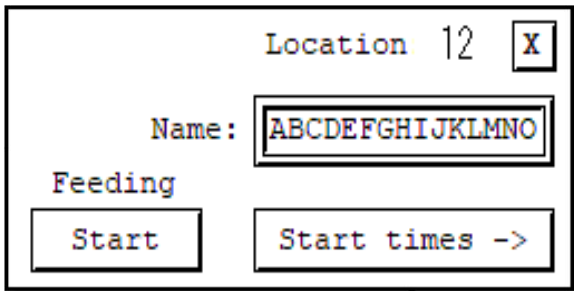


With this function you can change the name of your location, activate the feed start at the selected location and change the start times.

Location ->

With this function you can change the name of your location, activate the feed start at the selected location and change the start times.

In the “Name” window you can enter / change the name of the selected location. The number of the location is shown in the right corner on the top.



Start — If you press the “start” button, you start the feeding at the selected location.

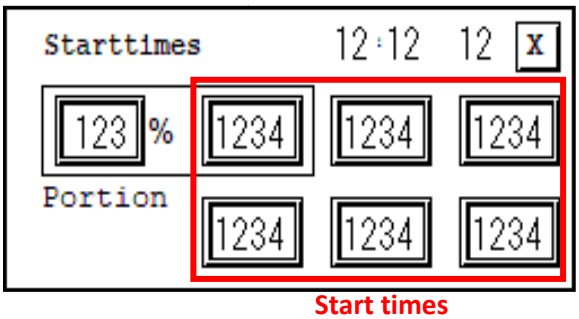
NOTE: If you press the start button, the feeding turn will be calculated and started immediately. NO new menu will open.

This function only works if the manual start via TF1000 is set to active. You can change this here.

Start times -> — With this function you can set the start times by location.

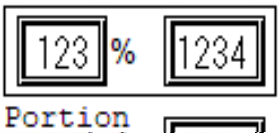
Start times ->

With this function you can set the start times per location. These are a maximum of six different starting times. In the top right corner you will see the current time and the location number you are editing. The calculated daily amount of the feed curve is in principle evenly distributed over the indicated (six) start times. These are randomly programmable and do not have to be noted in order of time.



Start times

The time noted in the top left is linked to the percentage number.



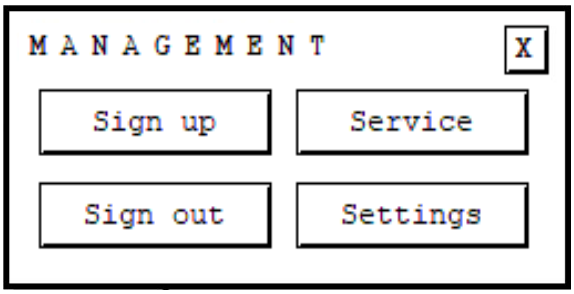
The percentage (left) can be changed as wanted. You can specifie how many grams of the total daily portion should be fed at this time in percent.

Example: On the left you have entered 40%, on the right is 1200 and the daily portion is 3200 grams. Then a portion of 1280 grams (40% of 3200 grams) will be fed at 12:00. The remaining 1920 grams is evenly distributed over the other starting times.

If you change the feeding times or percentages while feeding has already taken place on that day, the TF1000 will calculate the remaining daily portion for that day. On the following day, the TF1000 will simply calculate the entire day. In that case the daily portion remains the same as the entered daily portion at the curve.

Management

With this function you can sign up animals, sign out, go to the service menu and change settings.



Sign up

With this function you can sign up the animals by location / box. This is only possible when the farm is configured and the locations are entered in the system.

Service

With this function you can make a backup or read in, check the dosators and your service technician can carry out maintenance work.

Sign out

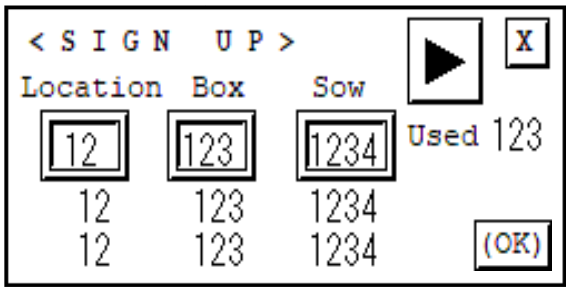
With this function you can clean a location / box and then be able to sign in another animal.

Settings

With this function you can change general settings.

Sign in

With this function you can sign in the animals by location / box. This is only possible when the farm is configured and the locations are entered in the system.



At location, select the location. Press the number for that. A keyboard appears with which you can enter the wanted location number. Then press [ENT] to confirm the number.

At box, select the box number. Press the number for that. A keyboard appears with which you can enter the wanted box number. Then press [ENT] to confirm the number.

At animal, select the animal number. Press the number for that. A keyboard appears with which you can enter the wanted animal number. Then press [ENT] to confirm the number.

If your configuration is correct, press (OK) in the lower right corner. You can then be notified that the configuration is not possible. This may be because an animal has already been signed in at the location, or the animal has already been signed in at another location. In this case you must first sign out an animal.

Other error messages can occur because the box or location is not in the configuration.

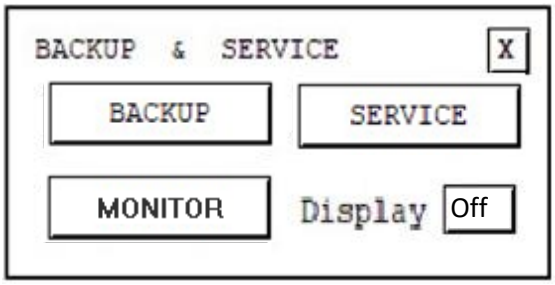
When the placement is successful, a check mark appears and you can press the ▶ button.

The screen then immediately goes to the curve setting for this animal.

⚠ If you then leave the feed curve unchanged, it will only start calculating the feed at 00:01 am. If you change the feed curve for that animal, the feed will be calculated over the coming feed times that same day.

Service

With this function you can make a backup or read in, check the dosators and your service technician can carry out maintenance work.



BACKUP — With this function you can make a backup or read in to or from the USB stick.

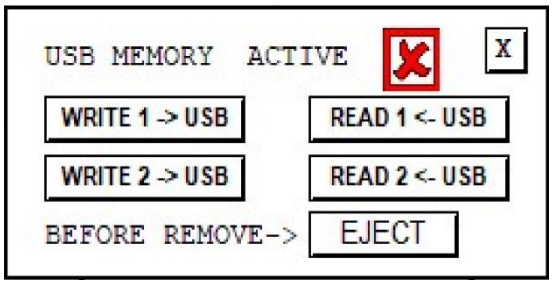
SERVICE — With this function you can check the dosators and your service technician can use the screened part to give service.

MONITOR — Here you can read the technical data of the dosators.

Display Off — If you press the button off or save (press 1 sec.), you change the background settings of your screen. With the SAVE function, the light will dim after a few seconds. With the OFF function, the screen will remain light.

Backup

With this function you can make a backup or read in to or from the USB stick. When a cross is indicated, no USB is connected. Then the functions won't work either.



Backups can be made or read using the USB port.

Note: do not use the SERVICE STICK to back up or read in. This stick is exclusively for your service engineer to perform service work.

If you have connected a USB stick, you have the following options:

WRITE 1 -> USB Backup for Animals, Stable and Curve settings

WRITE 2 -> USB Backup for start times, location names, curve names and feed load.

READ 1 <- USB Read in for Animals, Stable and Curve settings

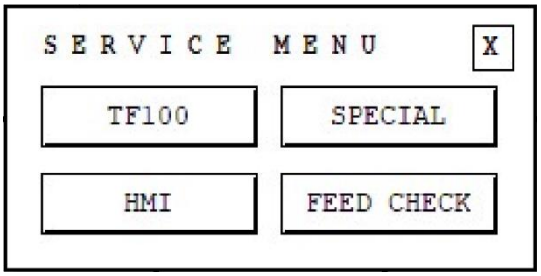
READ 2 <- USB Read in for start times, location names, curve names and feed load.

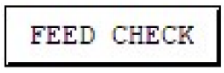
Before removing the USB stick, press the "EJECT" button below.

BEFORE REMOVE-> EJECT

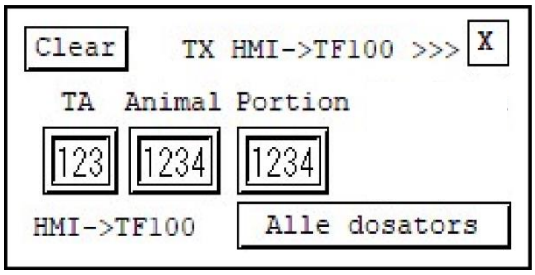
Service

With this function you can check the dosators and your service technician can use the screened part to give service.





With this function you can start a dosator individually at a box.

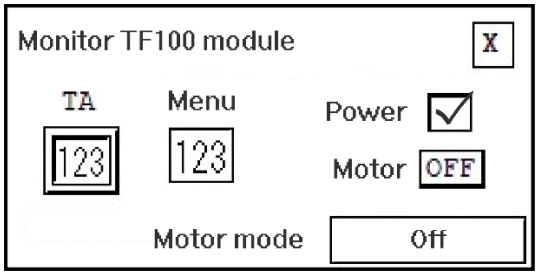


If you press "Feed check", you will enter this menu. By entering the correct technical address or animal number and entering a portion size, the dosator is started at that box. Before performing this action, first press "clear" in the top left corner.

If you do not press "clear" in advance, the system will actually allow ALL dosators to carry the last calculated portion. This is the portion of the last feeding run.

Monitor

Here you can read the technical data of the dosators.

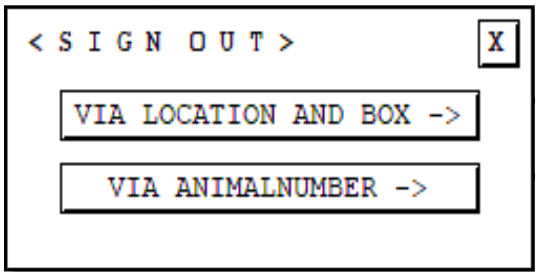


At TA you can enter the technical address. Press the number for that. A keyboard appears with which you can enter the wanted location number. Then press [ENT] to confirm the number

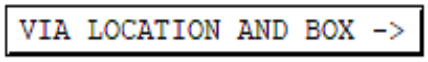
Then you can check this technical address for functionality.

Sign out

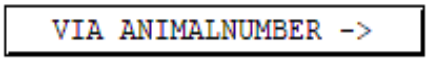
With this function you can clean a location / box and then be able to sign in another animal.



In this menu you can sign out your animal by the location / box. The animal can be approached in two ways: By location and box number or by the animal number.



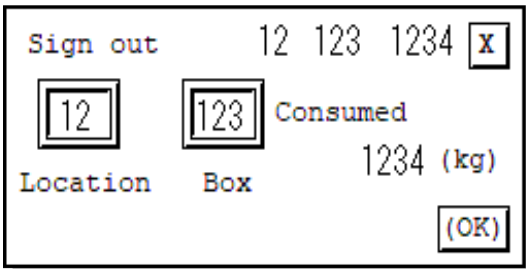
With this function you approach the animal by the location and the box in which the animal is currently located.

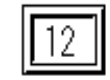


With this function you approach the animal by the animal number of the animal.

By location and box

With this function you approach the animal by the location and the box in which the animal is currently located.





Location

With this function you can select the correct location of the wanted animal by press the location. Press the number there. A keyboard appears with which you can enter the wanted location number. Then press [ENT] to confirm the number.

Box

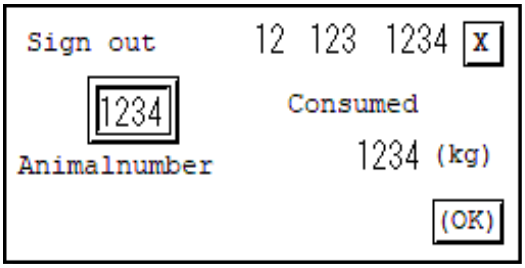
With this function you can select the correct box of the wanted animal by press the box. Press the number for that. A keyboard appears with which you can enter the wanted box number. Then press [ENT] to confirm the number.

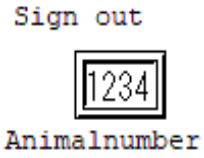
Then close with the "OK" button and then the animal is signed out.

The feed consumption of the animal is displayed on the screen. After you have deregistered the animal, it will be reset to 0.

By animalnumber ->

With this function you approach the animal by the animal number of the animal.





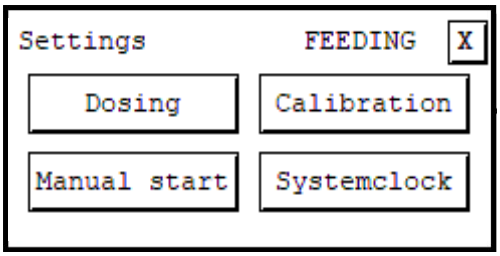
With this function you can select the animal number of the wanted animal by entering the animal number. Press the number for that. A keyboard appears with which you can enter the wanted animal number. Then press [ENT] to confirm the number.

Then close with the "OK" button and then the animal is signed out.

The feed consumption of the animal is displayed on the screen. After you have deregistered the animal, it will be reset to 0.

Settings ->

With this function you can change general settings.



Dosing — With this function you can program the portion size of the intervals. You can also program the length of the intervals.

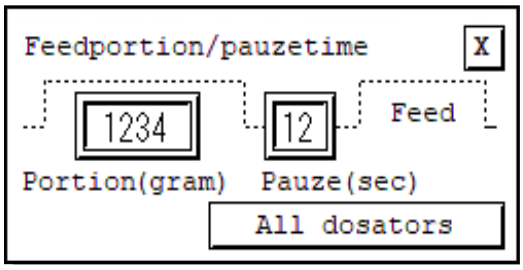
Calibration — With this function you can enter your weighted calibration weight.

Manual start — With this function you can set your manual start settings.

Systemclock — With this function you can adjust general settings such as, system sounds, background lighting, date and time.

Dosing

With this function you can program the portion size of the intervals. You can also program the length of the intervals.



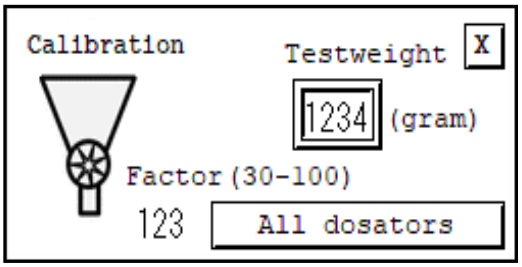
At feed portion you can enter the wanted portion size of the intervals. Press the number for that. A keyboard appears with which you can enter the wanted portion size in grams. Then press [ENT] to confirm the number.

At pause (sec) you can enter the wanted seconds of the intervals between the feed portions. Press the number for that. A keyboard appears with which you can enter the wanted number of seconds. Then press [ENT] to confirm the number.

After entering you can press "all dosators". This confirms the value and sends this data to all dosators.

Calibration

With this function you can enter your weighted calibration weight.

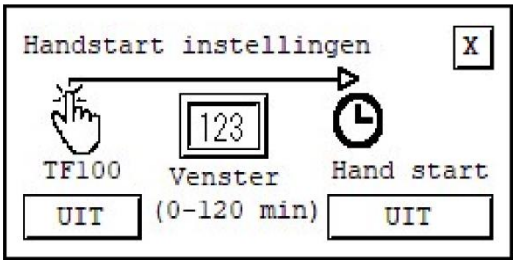


At test weight you can enter the weighted number of grams of your calibration doser. Press the number for that. A keyboard appears with which you can enter the wanted portion size in grams. Then press [ENT] to confirm the number. You need a TF100 to calibrate. After confirmation, the system calculates the correction factor itself. This will be placed under the factor.

After entering you can press "all dosators". This confirms the value and sends this data to all dosators.

Manual start

With this function you can set your manual start settings.At the bottom right you can hold down the button to make the manual start function active or to switch it off. Hold the button for 1 second. This can then be applied later with an optional push button at the locations or in the system of the TF1000 at locations.



In the window you can enter your time limits for the hand start.

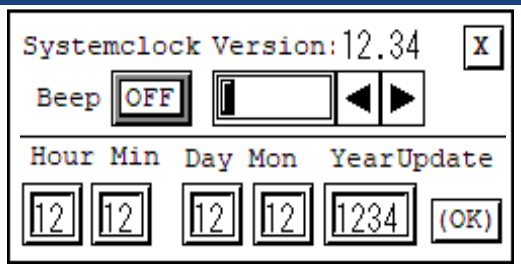
Example: You set your number of minutes to 60 minutes in the window. When you then activate the manual start, the start times within this window are started. If your default start time is at 12:00 AM, and you activate manual operation at 11:30 AM, the system will perform the feeding from 12:00 AM to 11:30 AM. If no feeding cycle is programmed in the 60 minute time window, the system will divide the remaining daily portion over one feeding cycle. In this case, this will happen if you activate the hand start at 10:59 AM or earlier.

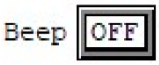
Set the number of minutes in the window. Press the number for that. A keyboard appears with which you can enter the wanted minutes. Then press [ENT] to confirm the number of minutes.

At the bottom on the left side you can switch the manual start function on the TF100 on or off.

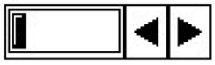
Systemclock

With this function you can adjust general settings such as, system sounds, background lighting, date and time. At the top of the screen is the current software version of your system

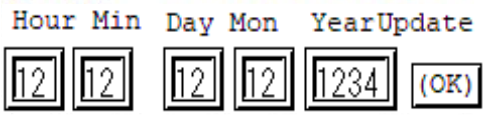




With this function you can switch the system sounds of your TF1000 on or off. You can do this by pressing this button. The button then shows the current setting.



With this function you can adjust the brightness of the background. You can do this by using the arrows next to the screen.



In the lower part of the screen, you can adjust the date and time. Press the number for that. A keyboard appears with which you can enter the wanted numbers. Then press [ENT] to confirm.

When you have set the settings correctly, you can confirm this with “(OK)”.

If you change the date, a new feed calculation will take start. The system will feed the complete daily portion divided over the remaining start times and do not take into account the feedings that already carried out.