June 19, 2018

Original Operating Manual

KalbManagerWIN

Program version 3.5

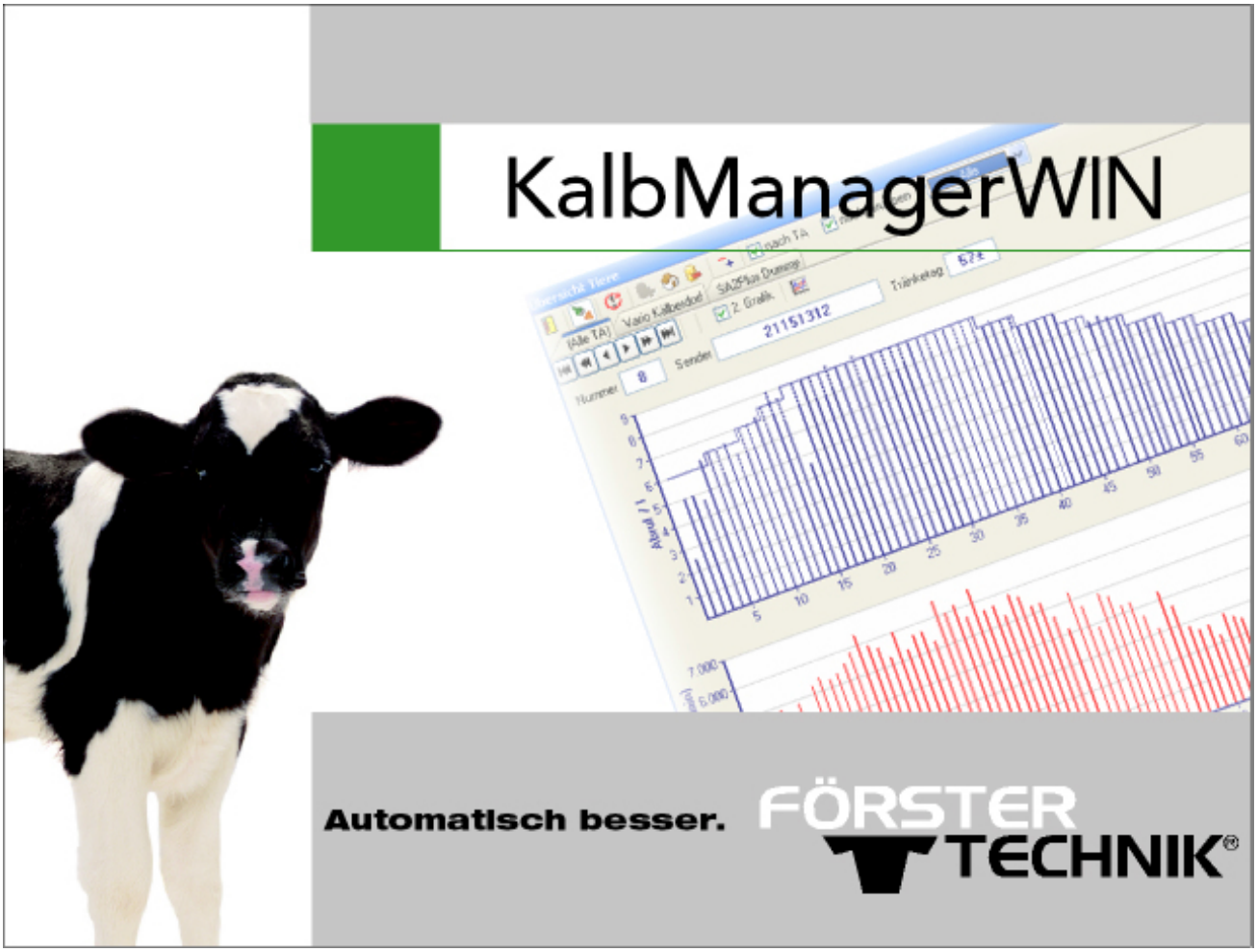

Table of contents

1. Introduction

This operating manual puts you in the position to operate the KalbManagerWIN program safely as intended.

Please read the operating manual carefully before putting KalbManagerWIN into service.

Keep the operating manual ready and available at all times and pass it on to the next user.

Observe all warnings and safety instructions in this operating manual at all times.

1.1 Functional description

KalbManagerWIN is a computer program that allows you to view the entire data of the calves fed using your calf feeder.

Several individually adjustable tables provide you with a comprehensive overview of all calves currently registered at and being fed by your calf feeder. In addition, you can also have data of calves already deleted displayed.

The entire data can also be accessed individually for each animal. You can thus monitor the development of the individual calves and have the data displayed graphically.

The data of the calf feeder is displayed to you:

- Feed consumption
- Visiting time with and without a feed entitlement
- Weight progression
- Planned feed quantity / concentrate quantity
- Feed / concentrate requirement with time
- Feeding days
- Alarm animals
- Expiry animals
- Administration of additive 1 and 2
- Assignment of prescriptions (only for older feeders)

You can perform various animal-related tasks via KalbManagerWIN directly on your PC and no longer need to go to the calf feeder for this. The following animal-related tasks are available:

- Registering and deleting animals,
- Changing animal registrations at another calf feeder and / or group,
- Administering prescriptions,
- Specifying deviations,
- Specifying weaning according to concentrate consumption or weight development (optional).

No data or plans are stored in KalbManagerWIN as basic settings. The program always applies the values and parameters stored in the calf feeder. However, you can modify and customize these values using KalbManagerWIN. You can edit the following settings for this:

- Feeding plan
- Visiting times with and without a feed entitlement
- Weight progression
- Concentration plan
- Quantity limitation plan
- Concentrate plans 1 and 2 (optional)
- Milk ratio plan (optional)
- Alarm levels
- Additive plan powder/liquid (optional)

1.2 Symbols

Below is a list of the symbols used in the operating manual and of the abbreviations used in KalbManagerWIN.

Option: A white plus sign on a black background indicates that optional functions or equipment are being described.

Note: For application notes and other useful information.

1.3 Abbreviations

You will come across these abbreviations in KalbManagerWIN.

Abbreviation	**Meaning**
40FIT	Calf in 40FIT period
A	Alarm
Break	Break
EL	Electrolyte
Fl	Liquid
g	gram
Gr.	Group
kg	kilogram
KM	KalbManagerWIN
L	liter
lb	pound
w.	with
min	Minute
n.	not
No.	Number

wo.	without
oz.	ounce
Po.	Powder
qt	quart
P1	Prescription 1
S	Station or feeding station
Drnk spd.	Drinking speed
E	Expiries or Feeds
AF	Calf feeder
Temp.	Temperature
Feed	Feed
unkn.	unknown
Z	Additive
Deviations	Deviations

1.4 Manufacturer's contact details

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2. Setup and start-up

2.1 Installation and update of the program

2.1.1 Hardware and software requirements

To be able to install and use KalbManagerWIN, the following prerequisites must be met:

2.1.1.1 Hardware

The following minimal equipment is required: 1 GHz processor, 512 MByte free working memory, graphic card with SVGA resolution and 2 GByte free hard disk memory.

2.1.1.2 Operating systems supported

Windows 2000 an higher.

2.1.1.3 Feeder types supported

- SA 2, program version 07.05 or higher
- SA 2 Plus, program version 01.02 or higher
- SA Parallel, program version 03.18 or higher
- SA 2000, program version 01.06 or higher
- Compact with E program (CE), program version 3.00 or higher
- Vario with E program (VE), program version 3.00 or higher
- Compact with H program (CH), program version 2.04 or higher
- Vario with H program (VH), program version 2.04 or higher
- Compact with S program (CS), program version 2.00 or higher
- Vario with S program (VS), program version 2.00 or higher

2.1.2 Installing the software program

Proceed as follows to install KalbmanagerWIN on your PC:

1. Insert the USB stick containing the program into the USB drive of your computer.
2. Depending on your computer settings, a start page will automatically appear in the web browser. Click on the "**Install** KalbManagerWIN" link to start the installation process. Allow the linked file **setup.exe to execute** and acknowledge any security warnings displayed.

   Note: If the web browser does not open automatically, proceed as follows: Click on the Windows symbol in the task bar and open **Explorer**. Then double-click on the symbol for your **USB drive** to display the contents. Double-click on the **start.bat** file to open the web browser.
3. Select the language for the installation and click on **OK**.
4. The Setup wizard appears on the monitor. The installation settings are queried in the dialog in several steps. Normally, you can apply the default settings for the installation directory and for installing the "Firebird" database program without making any changes.

5. After successful installation, open the KalbManagerWIN by: **Programs > Foerster-Technik > KM3 > KalbManagerWIN** or directly by the calf symbol on the desktop.

2.1.3 Online update

You can use online updates to check whether your KalbManagerWIN program is up-to-date. If necessary, your program will be updated to the latest version. To perform an online update, proceed as follows:

1. Select **File > Online update** to start the update.
2. An **Online update** window appears. If necessary, correct the settings there for your Internet connection and then click on the **Next** button.
3. If necessary, connect to the Internet and then click on the **Next** button again.
4. Information on any updates is then displayed. If necessary, insert a check to the left of the **Carry out update** option and click on the **Next** button to update your program.
5. The installation file for updating KalbManagerWIN is now obtained directly from the manufacturer via the Internet and then used to update your program.

   Note: Check at regular intervals whether a more up-to-date version of KalbManagerWIN is available. Do this in particular if any malfunction of the KalbManager occurs. Your problem might have been solved in a newer version.

2.2 Licensing the program

To be able to use the full scope of KalbManagerWIN on a permanent basis, you require a license for the program.

2.2.1 Technical implementation

2.2.1.1 License file

Licensing of KalbManagerWIN takes place via a license file called **dspkm.liz** that includes details on its use (license holder, duration of validity, program version that can be used, number of licensed feeders). This file is stored directly in the installation directory of KalbManagerWIN. If the default settings are used, the complete path for this file is *C:\Programs\FoersterTechnik\KM\dspkm.liz*.

2.2.1.2 Hardware connection

The license for KalbManagerWIN depends on whether one of the following hardware components is available:

- Smart process card
- Förster-Technik Gateway for devices with a CAN port
- USB - RS232 adapter (Förster-Technik) for devices with a serial port.

The license is created by reference to the **MAC address** of the respective component. On smart calf feeders you can find the MAC address at ***Setup > Network configuration***. For the gateway, the MAC address is to be found on the bottom of the device. For the USB adapter, you are informed of its MAC address or the derived license ID during registration of the feeder.

2.2.2 License management

2.2.2.1 Full versions

If you have acquired a full version of KalbManagerWIN, the license file is already stored on your USB stick. This license file is automatically copied to your hard disk during the installation process. Your program is thus licensed and can be used after the installation.

2.2.2.2 Demo versions

If you install KalbManagerWIN from an installation CD without a stored license file (=demo CD), you are granted a 30-day period of use for the evaluation of the program. After this evaluation period, you need to acquire a license to be able to continue to use KalbManagerWIN. Please contact your service technician for this.

2.2.2.3 Reading in the license

Reading the license in from a file

If a license file entitled dspkm.liz is available, you need to import it before you can use your KalbManagerWIN program. Depending on the type of license, the program is then licensed or can be used in 30-day demo mode.

1. Select **File > License > Read in license.**

   A dialog appears for selecting a file. Select the file dspkm.liz received from the manufacturer and click on **Open**.

2. A window appears informing you of the successful licensing of your software.

Acquiring the license online

As an alternative to reading in the license file, you can also obtain the license directly via the Internet from the manufacturer's server, e.g. if you lost the installation CD during installation on a PC.

1. Select **File > License > Retrieve license online**.
2. A **Retrieve license** window appears displaying the license ID derived from your hardware component. If necessary, correct the settings there for your Internet connection and then click on the **Next** button.
3. You will be informed of successful access to the license file for your KalbManagerWIN software.

2.2.3 Networking and registering feeders

Several options are available for communication between your PC and the calf feeder:

1. via Ethernet (smart), for which you require no accessories,
2. via Ethernet (only available with Vario and Compact type feeders), for this you require the Förster-Technik gateway as an accessory,
3. via USB interface, for this you require a USB - RS232 adapter as an accessory,

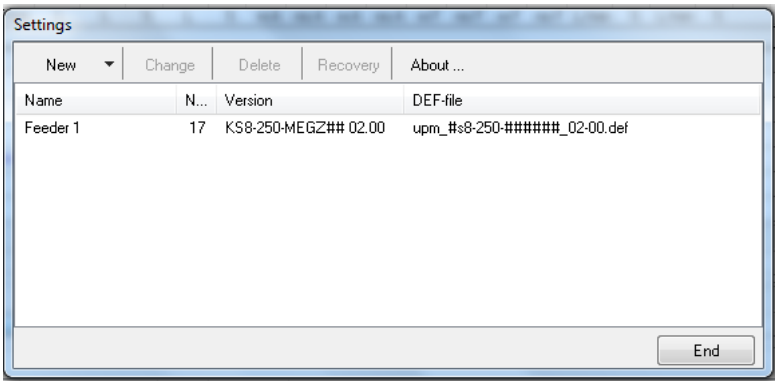
Depending on which type of connection you use, networking and registration of the feeders will differ.

Note: Have your calf feeder connected to your PC by a service technician to ensure that communication works correctly.

2.2.3.1 General notes

Overview of available feeders

You can access the window for feeder setup via **Calf feeder > CF: register/cancel**. Each line in this window represents a feeder connected to the PC. The freely selectable **name of the feeder** is displayed in the first column. The **machine number** of the corresponding feeder is displayed in the second column.



Note: The machine number must be unique for every feeder, i.e. the same machine number may never be assigned to two feeders. Check this before starting networking! The appendix of this manual contains a form that you can use to enter the data of all of your feeders for checking purposes (see 9.1 "Overview of the installation (template)" - 75)

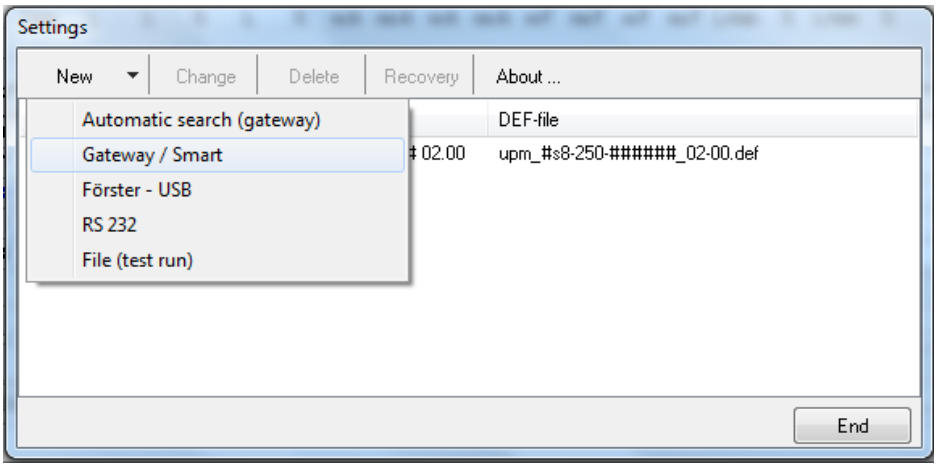
Note: The machine number of a feeder can be viewed via its diagnosis menu. The machine number is changed via the feeder setup. Details are available in the operating manual of your feeder.

Registering a feeder

To register your feeder(s) in KalbManagerWIN, proceed as follows:

Click on the **Register** button in the open **Settings** window. A drop-down menu appears. The following relevant selection options are provided by default:

- Gateway/smart (= Ethernet connection, CAN via TCP)
  - **Automatic search** for the gateway/smart processor on the network
  - Manual configuration of the **gateway/smart processor**
- Connection via serial interface, for this there is the connection option
  - **Förster-USB** (= use of an adapter USB interface - RS232)
- **File (test run)** (for servicing only)



Select the applicable option. Depending on the selected interface, different procedures are required to connect the feeder and specify the data on registering the feeder. Therefore each of the connection options is described in its own separate chapter.

2.2.3.2 Manually registering the feeder

Networking the feeders

Calf feeders with an S program

For calf feeders of the Smart generation, communication is performed via an Ethernet cable directly to a PC. In addition the software installed on the feeder must be **at least software version 01.06**.

Note: Precise information on commissioning the NetTerminalPlus and the WLAN module can be found in the relevant installation and service information.

Calf feeders with an E program or H program

Note: Networking via gateway is available **only with** feeders of the Vario and Compact types. In addition, **at least software version 3.00** (E or H program) must be installed on the feeder.

For calf feeders with the H processor or E processor, communication takes place via CAN bus. The gateway is integrated in the CAN bus. In addition, it is also connected to the PC or network (Ethernet communication). The gateway acts as a converter and implements communication via CAN bus on the Ethernet. That enables communication between the PC and the calf feeder.

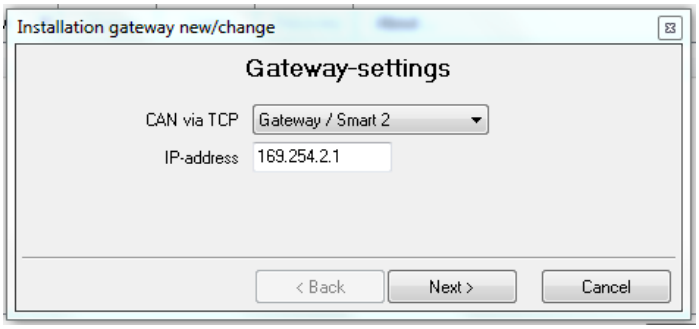
Note: Precise information for putting the gateway into service is available in the Assembly and service information S11.3 **NetTerminal/KalbManagerWIN and Förster gateway**.

To avoid overloading the CAN bus **no more than three feeders may be connected to a gateway**. As soon as a fourth feeder is added, a second gateway is required that is connected to the fourth feeder (and possibly the fifth and sixth feeders) on a separate CAN bus. The same applies to feeders 7 to 9, 10 to 12, 13 to 15 etc.

Note: Precise information on wiring and start-up of the **CAN bus** is available in the corresponding **circuit diagrams**.

Manual registration

In the **Settings** window, click on **New** and select **Gateway/smart** as the registration option. The **Installation gateway/smart register/change** dialog appears.

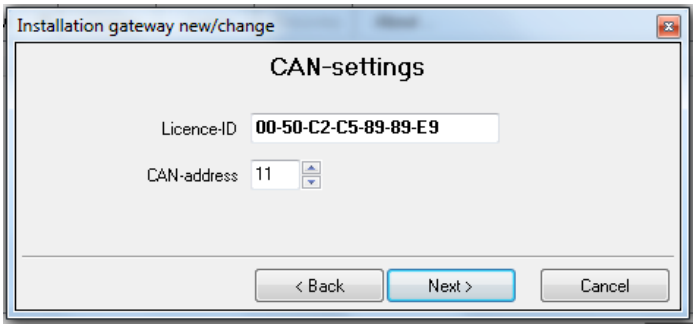


1. For the first feeder Gateway/smart, in the **Gateway/smart** field select 1, for the second feeder Gateway/smart select 2, etc.

   If then a separate gateway device is connected, in the first to third feeder Gateway/smart in the **Gateway/smart** select 1, for the fourth to the sixth feeder Gateway/smart in the Gateway/smart select 2, for the seventh to ninth feeder Gateway/smart select 3, etc. When registering further feeders to the respective gateway you then need not input its IP address again.

2. Please enter the **IP address** of your Förster gateway/smart in the field: IP-address. You will find the IP address on the **underside of the gateway device** or in the **Setup menu > Communication > Network configuration > IP address** (smart). The gateway is delivered from the factory with the IP address 192.168.1.1 as default value.

3. Click on **Next**.

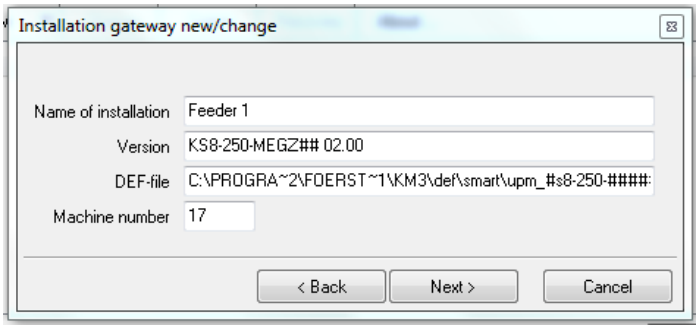


4. Now the CAN address of the feeder has to be entered. This is done directly using the arrows at the end of the input field. The default value set at the factory for the CAN address is the number 11. The addresses 12, 13, 14, 15 etc. should be assigned to further calf feeders.

   Note: The **CAN address must be unique** for every feeder on the CAN bus, i.e. the same CAN address may never be assigned to two calf feeders. Check this before starting networking!

   Note: The CAN address of a Vario or Compact feeder can be viewed via its menu **Diagnosis > Setup > Machine**. The CAN address is changed via the feeder's setup. Details are available in the operating manual of your feeder.

5. Click on **Next**. KalbManagerWIN now attempts to address the calf feeder (installation) via the specified CAN-address. If the calf feeder is found, an **Installation gateway/smart new/change** window appears with four text fields.

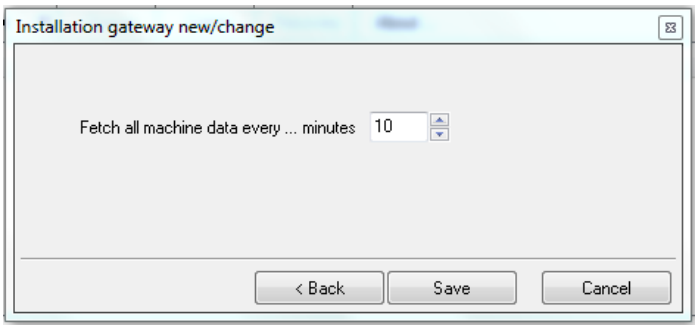


Note: If you have just updated the feeder to be registered to the current version, the registration procedure might fail due to a missing def file. In such a case, an error message will ask you to save this file to the KalbManagerWIN program directory under the "def" sub-directory. If the required .def file is not available, you can download it online or perform an online update of KalbManagerWIN. Via **File > Online update > DEF files**. In the course of this online update, the missing file will be copied to your computer.

6. Enter a freely selectable name for the calf feeder in the **Name of installation** field. The **Version**, **DEF-file** and **machine number** fields listed below are only for information purposes and cannot be changed.

7. Click on **Next**. Another window appears. Use it to enter the intervals at which KalbManagerWIN is to retrieve data from the calf feeder, thus updating its entire data. You can enter a value between 0 and 300 minutes.

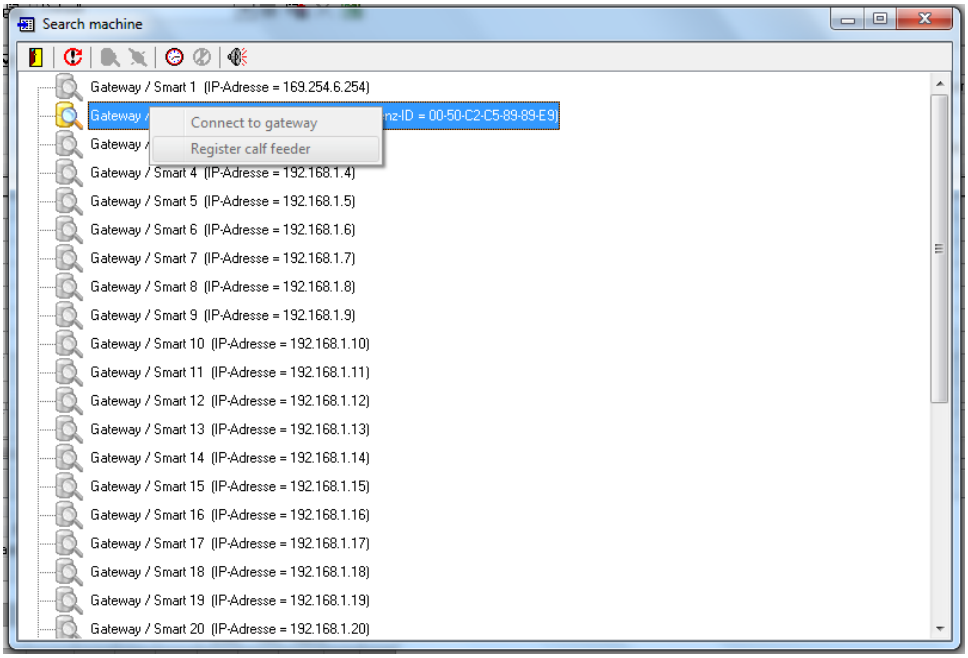
   Note: For feeders of the Vario/Compact type with Economy or High program or Smart program (CE/CH/CS or VE/VH/VS) you can apply the default value of 10 min for data retrieval. However, for devices for which data transfer and feeding cannot be performed simultaneously (SA 2, SA 2+, SA 2000, SA Parallel), you should use 60 min as the default value so that feeding is not affected too much by data retrieval.



8. To complete the registration of the feeder, click on **Save**.

Automatic search for gateways in the network

As an alternative to the manual registration of the feeders, you can also search for the feeders automatically. To do this, in the **Settings** window, click on **New** and select **Automatic search (gateway/smart)** as the registration option. A **Search feeder** window appears.



A list is displayed with entries for 32 gateways or calf feeders with their IP addresses and, if necessary, also your license ID. Directly after opening the window, an attempt is automatically made to establish a connection to these gateways/calf feeders. Gateways/calf feeders to which a connection can be established are indicated by the symbol, all other gateway/calf feeder entries remain gray. All gateways connected are scanned for available calf feeders, and all feeders that are found are listed under the gateway entry in a line of their own. Feeders that have not yet been registered in KalbManagerWIN are indicated by the symbol. Feeders already registered are indicated by the symbol. The machine number and CAN address are also listed for them.

Starting an automatic search

You can also start an automatic search for a gateway manually by pressing the symbol. You can start an automatic search for a smart calf feeder by pressing the symbol .

Changing an IP address

To change the specified IP addresses of the gateway/calf feeder, select the corresponding gateway/calf feeder and click on the **Search for gateway/smart** symbol in the toolbar of the window. Alternatively you can double-click on the gateway symbol in the list or right-click on the entry and, from the context menu that appears, select **Connect to gateway**. A window appears in which you need to enter the IP address of your gateway/calf feeder or gateways/calf feeders. Confirm your entry with **OK**. The gateway with the corresponding address is contacted and existing calf feeders are displayed.

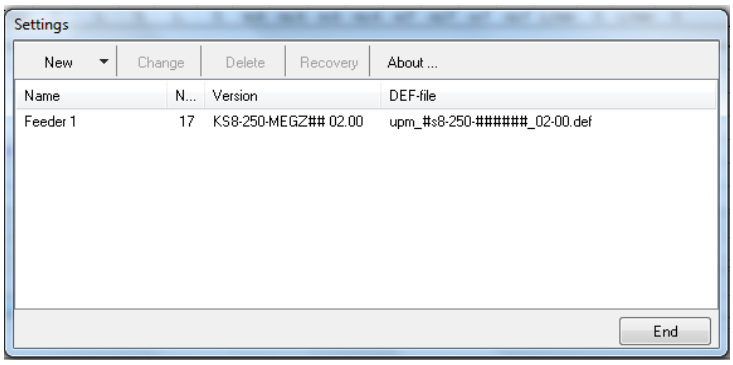
Registering a feeder

To register feeders that are not registered yet (symbol), right-click on the entry and, from the context menu that appears, select Register calf feeder. (Alternatively you can also double-click on the feeder entry in the list). The **Installation gateway/smart register/change** dialog appears, in which the correct CAN address is already entered. From now on, the procedure is the same as described in the previous chapter for manual registration.

2.2.3.3 Changing the calf feeder

To change the settings of a calf feeder that is already registered, proceed as follows:

1. Select **Calf feeder > CF: register/cancel**.



2. Highlight the line with the name of the feeder which you wish to change and select **Change** from the bar listed above.
3. Now proceed as described in the previous chapter from step 2.

2.2.3.4 Canceling a calf feeder

To cancel a calf feeder, proceed as follows:

1. Select **Calf feeder > CF: register/cancel**.
2. Highlight the line with the name of the feeder you wish to change and select **Cancel** from the toolbar at the top of the window.
3. Confirm the security prompt asking you whether you really want to cancel the feeder with **Yes**.

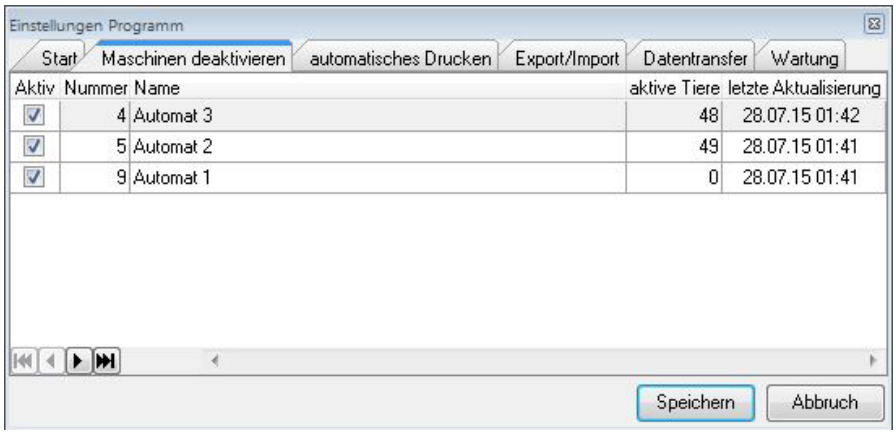
2.2.3.5 Deactivating the calf feeder

A calf feeder is automatically activated once you have registered it. If you do not need one or more of your registered calf feeders for a while, you can deactivate these feeders.

Proceed as follows to deactivate a feeder:

1. **Settings > Program settings > Deactivate machines**

   In the **Program settings** window that appears, click on the **Deactivate machines** tab.



2. Remove the check from the feeders you wish to deactivate in the **Active** column.
3. Click on the **Save** button. All data for the feeder(s) to be activated are hidden in the overview of the animals.

Note: A feeder is automatically re-activated as soon as data have been transferred to it successfully.

3. Operation

At first, this chapter deals with the structure of the program and its functions. Then, the general operation and functions of the individual buttons are explained.

3.1 Structure and basic principles

The KalbManagerWIN program consists of four basic elements for all tasks of the program.

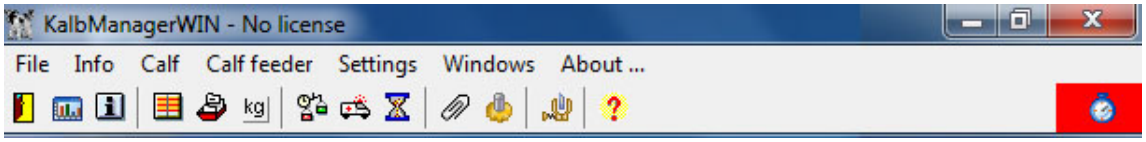
- the The **Main menu** is displayed at the top of the screen as soon as the program is started. All functions required can be selected here as well as all desired actions started.
- The **Overview of the animals** and other **tables** provides a comprehensive overview of all parameters of the calves fed at the feeder.
- **Dialog boxes** are for transferring input values to the program and for changing parameters at the calf feeder.
- The **graphics** enable numerous views for a quick and visual overview of the feeding period.

Since the KalbManagerWIN program runs under Windows, it is operated using the mouse. To select a window or function, move the mouse cursor (arrow on the screen) to the desired field (button, tab) and left-click on it. The screen window appears.

3.2 Main menu

3.2.1 Components of the main menu

The main menu appears at the top of the screen after starting the program. You can start all program actions here. It consists of a menu bar with a number of menu items and, beneath them, a number of button symbols.



- If you click on a **menu item**, a complete menu item appears with several sub-menu items that can be selected.
- If you click on a **button** the corresponding window appears that you can use to read or enter data. Button symbols are links for starting certain functions more quickly. They represent an alternative to starting the function via the corresponding menu item.

Note: If you move the cursor over a button and leave it there briefly without moving it, a text explaining the function of the button is displayed directly under the cursor (called tooltip). This **tool tip** gives you support in using the program at the start. After a while, you will not need the tool tips any more.

3.2.2 Buttons on the toolbar

The following overview lists the buttons available on the toolbar of the main menu. The chapter is listed for each button, in which the function selected via the button is described.

Terminates the KalbManagerWIN program

Overview of the animals

Calf feeder status (see 4.1.1.4 "Status displays" - 30)

List of all transmitters (see 5.1 "List of all transmitters for transmitter and animal management" - 35)

Reference data (see 5.3.5 "Entering master data" - 45)

Record weights (see 5.3.7 "Checking and entering weights" - 47)

Machine plans (see 6.1 "Plans" - 49)

Prescriptions (see 6.2 "Prescriptions" - 53)

Weaning (see 6.3 "Defining the weaning rule" - 55)

Group management (see 7.1.3.3 "Monitoring groups" - 60)

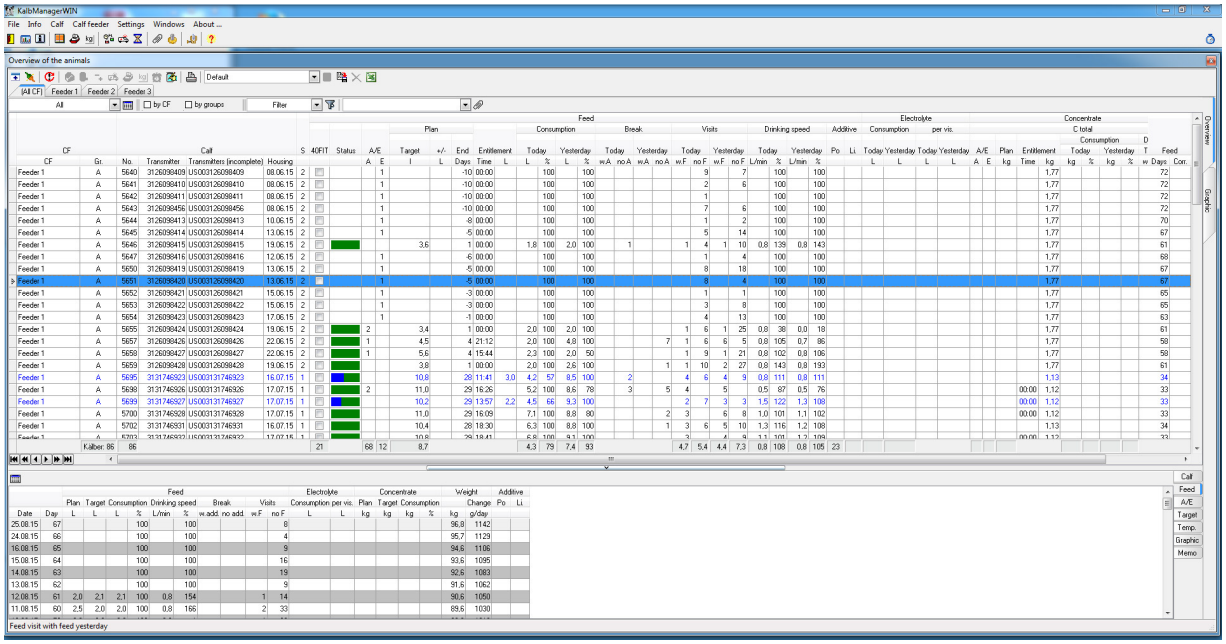
Program settings (see 3.6.1 "Program settings" - 24)

Data backup (see 4.4 "Data backup" - 32)

Help function

Synchronizing the date/time of the calf feeder with the computer (see 3.6.4 "Synchronizing the times of computer and feeder" - 25)

3.3 Overview table of the animals



The tables in the **Overview of the animals** form the main information area in KalbManagerWIN. The entire data of the calves fed at the feeder are listed here. Six different table views are available, each with a different focus. You can set all table views according to your own requirements.

The windows all have a similar structure. The header under the window title has button symbols for the corresponding main actions within the window.

The **table window** consists of two sections. The upper section of the window has the corresponding table, in which the day's current data is listed in the form of an overview. The bottom section of the window has a stack of tabs with the individual animal data.

In the **table in the overview of the animals window** you can select calves using the mouse cursor. The selected row with the individual animal is highlighted in color in the table via the ruler. You can also control the selection using the navigation bar (small black arrows at the bottom of the table window) or using the cursor keys on your keyboard. The lines of **Alarm animals** and **Expiry animals** and in addition highlighted in color.

Note: The table cannot be used to make entries or changes.

The **individual animal cards** provide information on each individual calf. The data of the entire feeding period is displayed here in table and graphical form.

3.3.1 Selecting a calf feeder

Underneath the toolbar there is a stack of **tabs**, with a tab for each calf feeder that is connected. On the left there is also the **All CF** tab that can be used to display the animals of all calf feeders. Depending on the number of calf feeders connected, the number of available tabs varies.

In windows, in which the data can be viewed as well as the , there is a stack of tabs at the bottom or right of the windows that allows you to switch between the table view and the graphics view.

A stack of tabs at the far right is also always available if several tables or dialog boxes belong to a selection. For example, several plans for a selected calf feeder, or different data tables for a selected calf.

Note: All tabs have a colored bar that show you which tab you are using at the moment.

3.3.2 Button symbols of the "Overview of the animals" window

The following overview lists the buttons available on the toolbar of the **Overview of the animals** window. The chapter is listed for each button, in which the function selected via the button is described.


Duplicate the window (see 3.3.4 "Duplicating and synchronizing windows" - 22)


Synchronize the window automatically (see 3.3.4 "Duplicating and synchronizing windows" - 22)


Reload the calf feeder (CF) (see 4.1.1.2 "Manual start of data transfer" - 27)


Change animal registration (see 5.3.2 "Changing the registration of animals" - 42)


Cancel animal registration (see 5.3.3 "Canceling animals" - 43)


Dispense additions/deductions (see 6.1.1.9 "Specifying deviations" - 51)


Dispense prescription (see 6.2.3 "Administering a prescription" - 54)


Record reference data (see 5.3.5 "Entering master data" - 45)

Record weights (see 5.3.7 "Checking and entering weights" - 47)


Delete alarms / expiries (see 7.1.5 "Deleting alarms for a group of animals" - 66 and 7.2.3 "Deleting alarms for an individual animal" - 71)


Add notes (see 5.3.6 "Entering notes" - 46)


Print (see 3.5 "Print" - 24)


Save view (see "Saving user-defined views" - 65)


Save view as (see "Saving user-defined views" - 65)


Delete view (see "Saving user-defined views" - 65)


Excel Export (see 4.2 "Exporting data in a CSV file" - 31)


Adjust view (see 7.1.4.2 "Customizing views individually" - 64)


Filter (see 7.1.3.2 "Defining your own filters" - 59)


Add to or cancel from monitoring group (see 7.1.3.3 "Monitoring groups" - 60)

3.3.3 Selecting and customizing the view of the animal list, using filters

On the left, above the table view, there is a selection menu in which all available table views are listed as individual menu items. Each of these tables has a different information focus. Use your left mouse button to select the desired table view from the menu.

The individual table views can be adapted to your individual requirements by hiding individual columns that you do not require. After clicking on the  **Adjust view** button, a window appears that you can use to customize the table views individually.

For a detailed description of the default table views and their individual customization, see 7.1.4 "Table views" - 62.

Click on  **Filter** to open a dialog box that you can use to select criteria to filter the animals to be found.

For a detailed description of these filter options see 7.1.3 "Filtering the animal list" - 58.

3.3.4 Duplicating and synchronizing windows

Another option for improving the overview of the table values is to duplicate the table window. In this way you can view two different tables simultaneously or compare one or more individual animals.

To duplicate the window, click on **Duplicate window** You can now move both windows with the mouse towards each other so that you can see both.

Click on **Automatically synchronize windows** to synchronize the data in the two windows.

3.4 Dialog window

Dialog windows display the values and settings transferred from the calf feeder. The user is thus provided with information on and a view of the parameters set at the calf feeder. Changes can be made to the values and settings at all times and the changed parameters are then sent from the PC to the calf feeder. Dialog windows are displayed wherever parameters can be changed or new data entered.

The latest data are retrieved from the calf feeder with each data transfer and displayed in the dialog window. After making any changes to the values, input must be completed by clicking on the **Send data to the machine** button. Any modified data is sent back to the feeder, thus changing its settings.

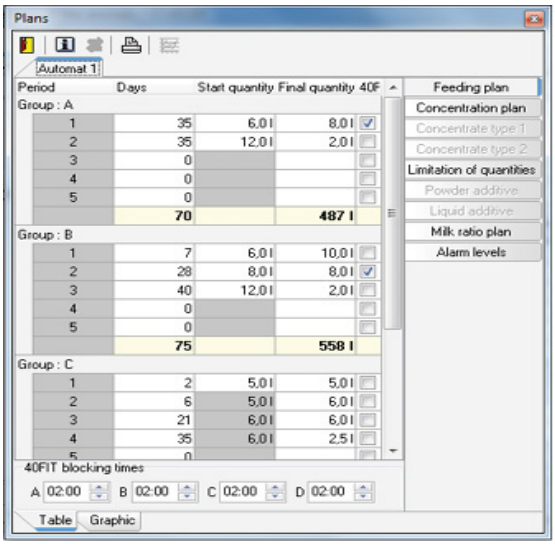
The structure of the windows is similar to that of the table windows. The toolbar under the title bar contains the buttons required for the corresponding window. Some of the buttons may be disabled in certain situations. In such a case, only the contours of these buttons are visible and they cannot be selected. They are enabled again when certain actions are performed. For example, the button for sending data is only enabled once machine values have been changed and are ready for transfer.

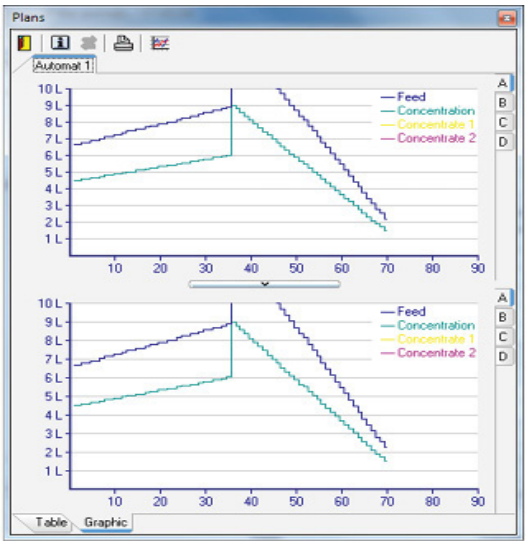
For example: The **Send data to the machine** button is enabled only once machine values have been changed and are ready for transfer to the calf feeder.

3.4.1 Operating controls

The familiar **Tabs** tabs are organized in different stacks of tabs depending on the dialog window. In the upper stack of tabs there are the registered calf feeders (here: Feeder 1, Feeder 2, Feeder 3); the lower stack of tabs is for switching from the table view to the graphics view, and the stack of tabs at the side permits the selection of the corresponding plan, prescription or – in the graphics view – of the corresponding group.

A stack of tabs on the right side is always available if several tables or dialog boxes belong to a selection. For example, several plans for a selected calf feeder, or different data tables for a selected calf.





Other elements permit different actions in the dialog boxes.

- **Input fields** are displayed on white background. They show current values that are highlighted in color when clicked on and change their position. These values may be changed or new values entered.
- **Information fields** are always highlighted in color. These fields display data that was transferred from another field or calculated. Such fields cannot be changed directly.
- **Radio buttons** permit the selection of options via a simple mouse click. If an option is selected, a dot is displayed in a circle. Only one option is available per selection.

  Note: Some options depend on the equipment of the calf feeder. If the feeder has not activated this equipment, the option is displayed in disabled form and is not available.
- **Combo-boxes** permit the direct selection of individual animals and of several animals or transmitter numbers for animal-related actions. With a simple mouse click, the line for the selected animal is highlighted in color.

  Note: If you want to select several lines in a consecutive range with several successive cells, keep the Shift key pressed on the keyboard and left-click on the two animals at the top and bottom of the range. As an alternative, you can keep the Shift key pressed and expand the highlighted range using the cursor keys (range selection).

  Note: If you want to select several rows not in a direct succession, keep the Control key (Ctrl) pressed on the keyboard and left-click on the animals to be selected one after the other (multiple selection).
- **Active fields** are small boxes at the end of a line. If the boxes are checked, the corresponding transmitter numbers are active. That means: a calf is registered under this number in a group and is being fed by the calf feeder.

3.4.2 Button symbols

The following overview lists the commonly used buttons available in very different dialog boxes.

Close the corresponding dialog box

Open the information window

Adapt the graphical view

Delete

Send data to the machine

Print

3.5 Print

Wherever the **Print** button symbol appears, you can print tables, plans and prescriptions.

Click on **Print** to open the print preview of the table or graphic to be printed. The buttons on the toolbar give you the option of changing the view.

- Zoom in and zoom out ,
- Reset zoom factor to 100%,
- Print preview adapted to full screen or the page width ,
- Scrolling forwards and backwards.

You can also select,

- how many copies you want to print and
- whether to save the file as a PDF document (button).

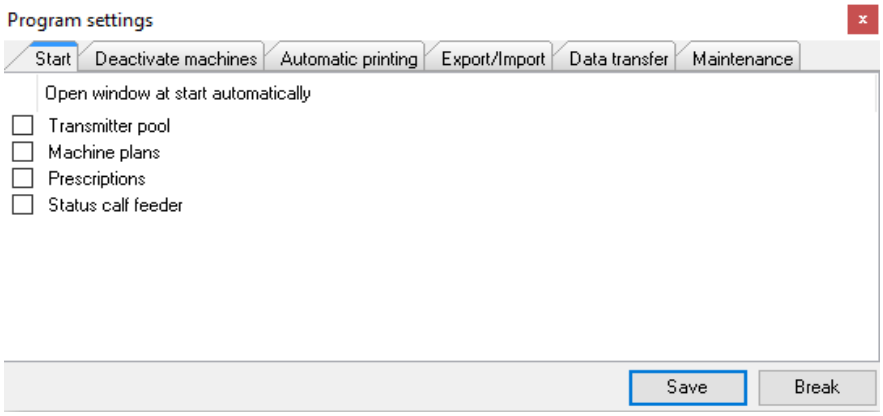
To print the list, click on **Print**.

You can highlight animals and their respective data. Highlight the respective animals (hold down the CTRL key and highlight them with the mouse) and click on .

3.6 Setup

3.6.1 Program settings

Select **Settings > Program settings**. This menu item gives you the option of defining the program's behavior in different areas.



The **Program settings** window has several tabs that can be used to define various settings.

- **Start** tab: Here you can define the windows that are to open automatically on starting KalbManagerWIN.
- **Deactivating the machine** tab: see 2.2.3 "Networking and registering feeders" - 10.
- **Export/Import** tab: If the “Export outgoings automatically” option is selected, when animals are deleted a file is exported into a freely definable export directory that contains the animal data of the deleted calves in ADIS/ADED format. As an option, you can define that this file also to list those animals deleted during the past days.

  Note: Only those calves for which an ear tag number was specified in the master data are exported (see 5.2.1 "Entering transmitter numbers" - 37).
- **Data transfer** tab: If the **Data transfer active** option is selected, at specific intervals (default: 10 min) a file with the consumption data of all calves is exported into a freely definable export directory in ADIS/ADED format. In addition, periodically (default: 10 min) this directory is checked for calf lists in ADIS/ADED format. If a calf list is found, all animals in the list are transferred to KalbManagerWIN.
- **Maintenance** tab: Here you can open various program or data directories of KalbManagerWIN.

In each tab you can set a check against the **Extended inquiry on the calf feeders**. When this is done, the last visit data, with and without feed consumption, are displayed.

NOTICE!

Never make any changes to these directories on your own accord!

That could cause malfunctions or even the complete failure of the program!

3.6.2 Language

To subsequently change the language, proceed as follows:

Settings > Language

Select the desired language from this menu.

Note: After the language has been selected, the program is automatically closed and restarted. That is necessary for the language settings to take effect.

3.6.3 Adjust units

If you are using the KalbManagerWIN in the USA, you can set the units appropriately.

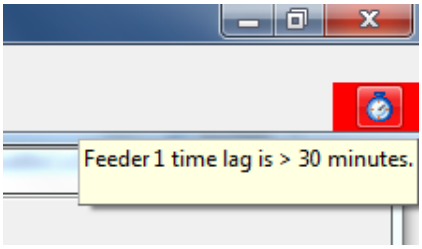
Settings > Units > US units

3.6.4 Synchronizing the times of computer and feeder

To ensure the smooth operation of your KalbManagerWIN, the time of your PC and the time of the calf feeder should not or hardly deviate.

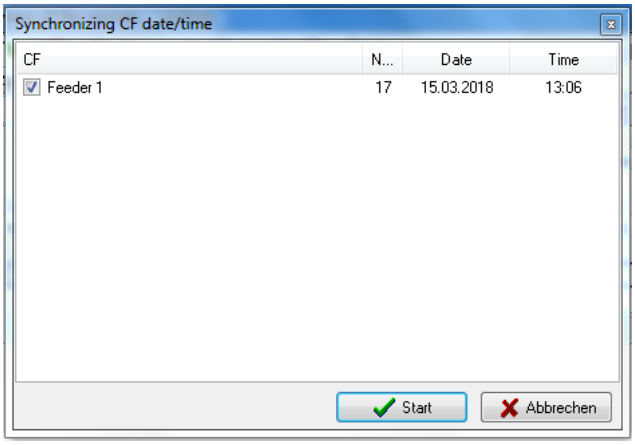
3.6.5 Checking the difference in time between feeder and computer

If the system time of your computer and the time on one or more feeders connected deviates by more than 30 minutes, the button is shown red. In this case, you should synchronize the system time of your computer and the time on your feeder(s).



3.6.6 Transferring the computer's system time to the feeder

1. Left-click on the button on the far right of the toolbar of the main menu. The following window appears:



2. Select the box next to the feeder to which you want to have the current system time of your computer transferred. Feeders with a system time that deviates by more than 30 minutes from the current system time of your computer by are automatically highlighted.
3. Click on the **Start** button to transfer the system time of your computer to the selected feeder(s).

4. Data transfer, data export and data backup

4.1 Data transfer

4.1.1 Retrieving data from the calf feeder

The calf feeder might temporarily interrupt feeding for the short time required for data transfer. When data transfer is completed, the transferred data is automatically saved and the date and time of the last data transfer are updated in the control table.

4.1.1.1 Automatic data transfer while the program is running

When registering your feeder (see 2.2.3 "Networking and registering feeders" - 10), you need to set the interval for retrieval of the PC data from the calf feeder. If several calf feeders are connected, the set time determines the order in which the PC queries the individual calf feeders. The KalbManagerWIN program is able to retrieve data from several feeders simultaneously.

4.1.1.2 Manual start of data transfer

As well as the **regular automatic data transfer**, by clicking on **CF: new transfer** you can at any time perform an **additional data transfer** from the current calf feeder to the PC, thus updating the entire data.

Click on **CF: new transfer** to start the data transfer.

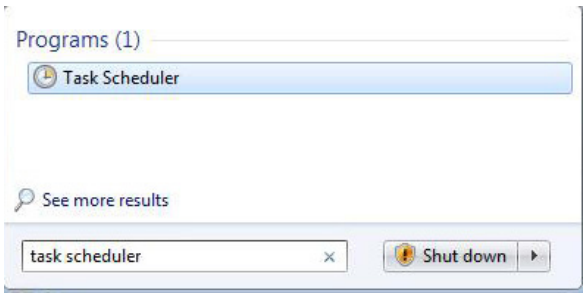
Note: If only one physical data line is available – e.g. for a serial connection using an interface multiplexer – your data request can be started only once the program has finished any data transfer currently in progress.

4.1.1.3 Automatic data transfer while the program is closed

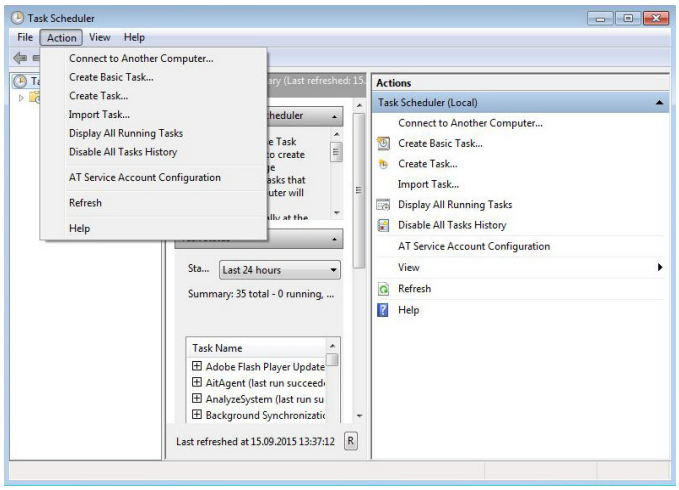
Data transfer may also take place automatically while the program is closed. For this, KalbManagerWIN is automatically opened once a day, data transfer is started and completed again automatically.

Set the following for this:

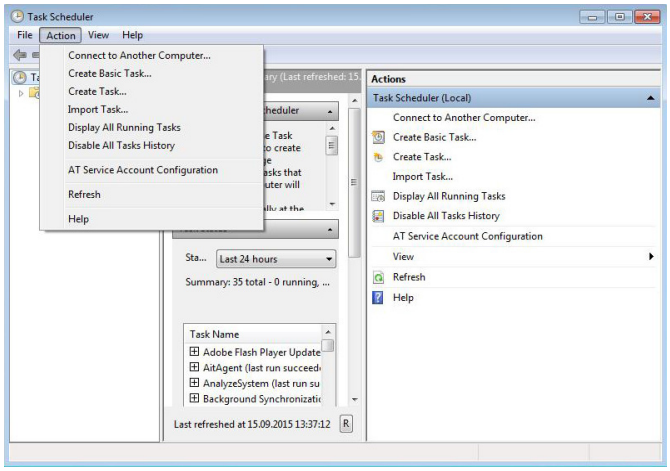
1. Terminates the KalbManagerWIN program
2. Use the Search field in the Windows Start menu to search for **Task planning** and open the program.



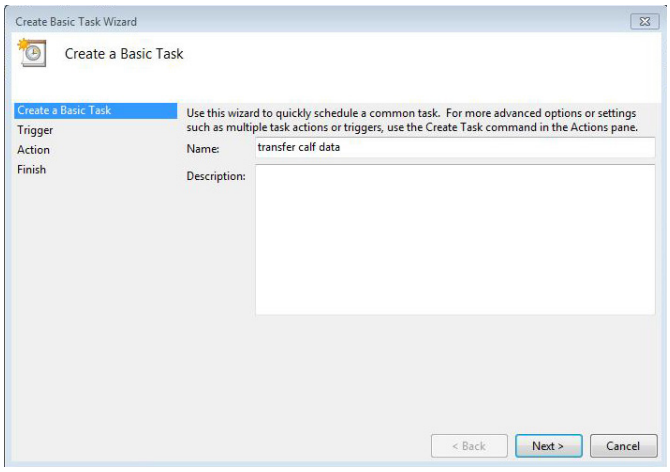
3. Use the Action menu item to select the **Create simple task...** option.



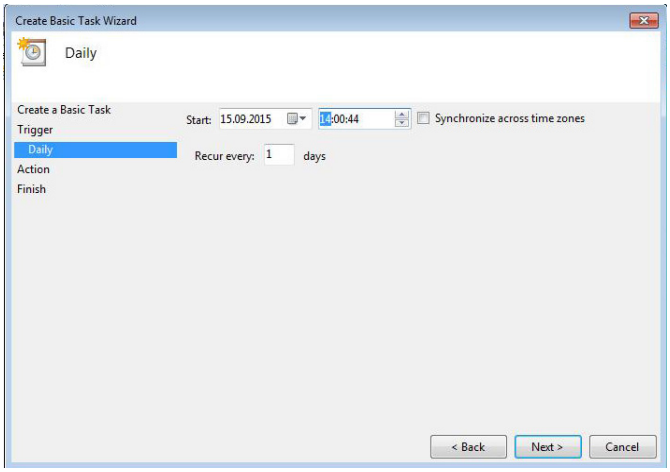
4. Name the action and click on **next**.



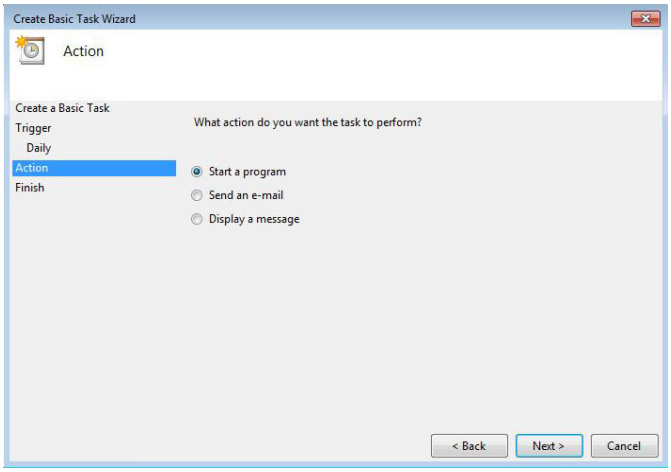
5. Set the task trigger to **daily** and click on **next**.



6. Set the **start date**, the **start time** and the **repetition** of the action and click on **next**.

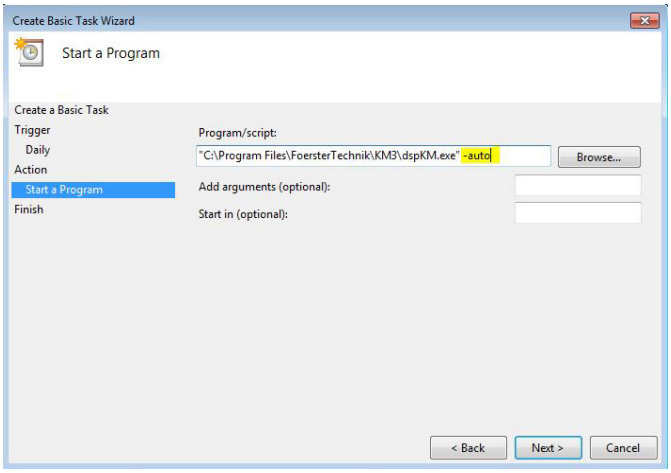


7. Select **start program** as the action and click on **next**.

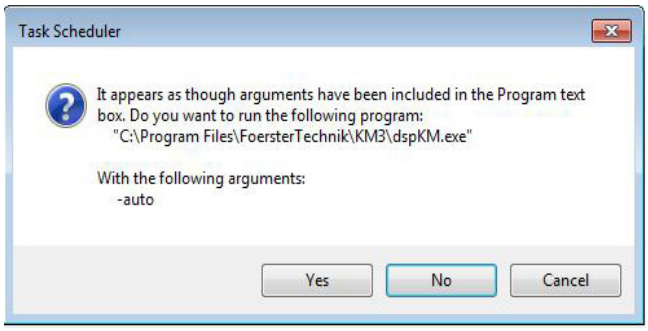


8. Use the **Search button** to select KalbManagerWIN and after the selection add the suffix **"-auto"**. As a rule you will find the KalbManager under C/Programs (x86)/Förster Technik/ KM3/dspKM.

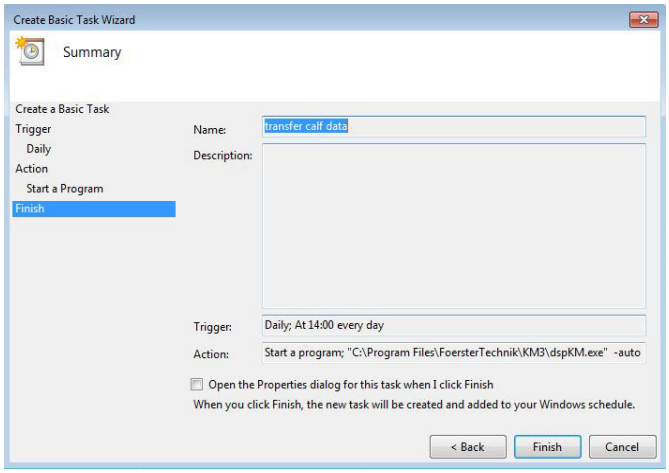
   Make sure there is a blank between .exe and -auto. Click on **next**.



9. Confirm the message if necessary with **Yes**.



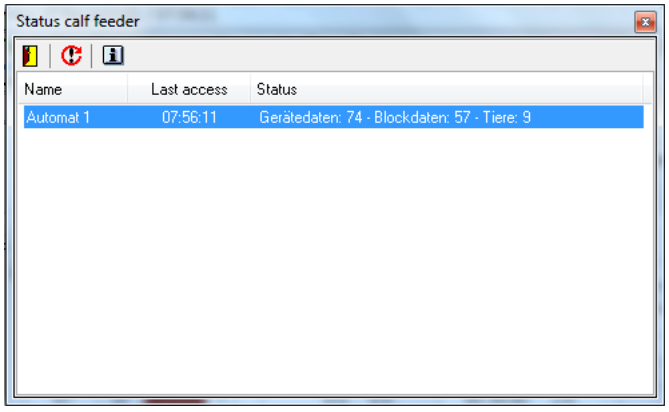
10. Confirm **Finish** to close the task and close the Task Planning menu.



4.1.1.4 Status displays

To check the data transfer, there is a status window containing important information on communication with the individual calf feeders.

1. Open the **Calf feeder status** window by clicking on the **CF status** button or via the menu item: **Info > CF status**. The following window appears:



2. The date of the last successful data transfer and the status of the feeder, including the number of transferred animals, is displayed for each of the registered feeders. During the actual data transfer process, additional information is displayed that is important for your technician in the event of any error analysis.

Note: If data transfer to a feeder fails, the bar on the tab of the corresponding feeder is colored in red in the overview of the animals. You can thus recognize connection problems to existing feeders at a glance.

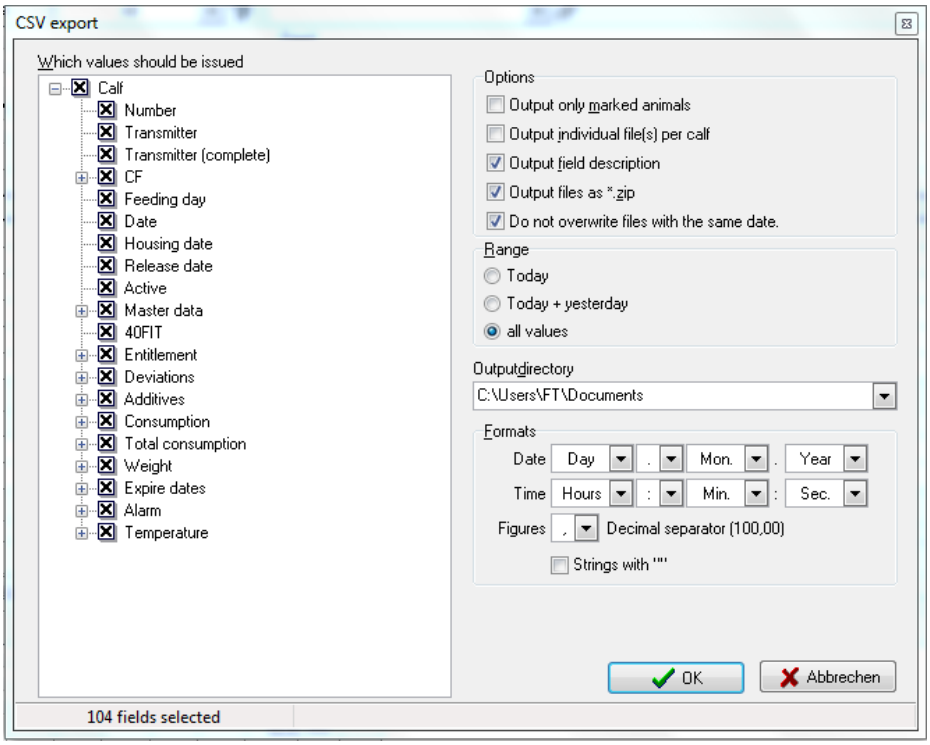
4.1.2 Sending data to the calf feeder

After data have been input or changed in a dialog box, by clicking on **Send data to the machine** you can send the data to the calf feeder and thereby change the settings.

4.2 Exporting data in a CSV file

You can export your data in a CSV file (Excel) in the form of a table.

1. Click on **Send as CSV file** button. The following dialog box appears:



2. Define the following settings in this dialog box:
   - **Which values should be output**: Select which values are to be listed in the table.
   - **Options**: Select the desired options.

     It is advisable to output the file in the form of a .zip file, to output the description of the fields and not to overwrite the files with the same date.
   - **Scope**: Select whether the values of today, today + tomorrow or all values are to be listed.
   - **Output directory**: Enter the path by which you want to save the file.
   - **Formats**: Select the desired date and time formats.
3. Confirm the dialog box with **OK**.

4.3 Reading in the demo data

Demo data can be read in from the KalbManagerWIN for demonstration purposes. That enables information to be received on functions of the program if no calf feeder is available with which data can be exchanged.

1. Select the menu item **File > Demo data > Read**.
2. Follow the two steps of the wizard for reading in the demo data.
3. After successfully reading in the demo data, the Overview of the animals window displays a **DEMO-1** tab. Click on this tab to have the demo data displayed.

Note: For Delete the demo data, select **File > Demo data > Delete**. The animals of the demo data record are thus deleted and the tab disappears again from the overview of the animals.

4.4 Data backup

4.4.1 KalbManagerWIN

4.4.1.1 Saving application data

We urgently recommend that you perform a data backup at regular intervals, including to external data media, so that not all data is lost in the event of a faulty PC or a similar problem.

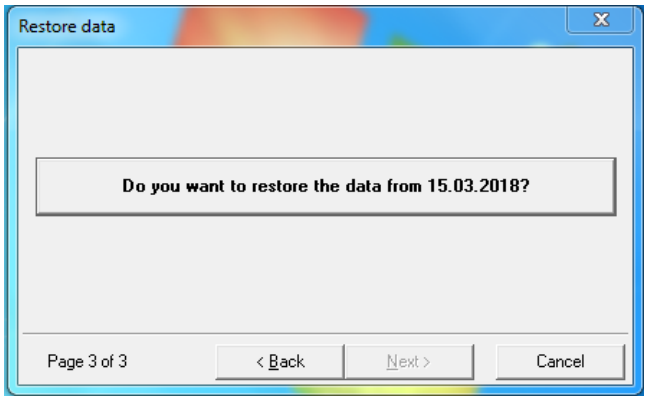
1. To start data backup, select **File > Data backup** or click on the Data backup button on the toolbar of the main window.  **Data backup** symbol in the main window toolbar.
2. A dialog box appears offering a path for data backup. Click on **Next** if you want to confirm it, or enter a different path.
3. Click on **Start**. The data is saved. After completing data backup, a corresponding message informs you that data backup was successful.

4.4.1.2 Restoring application data at the PC

In the event of the loss of the current data on the PC, the entire lost data can be restored from an existing data backup and transferred back to KalbManagerWIN.

Note: Data restoration makes sense only if you previously performed data backups on a regular basis and the data is thus not too old.

1. To start data restoration, select **File > Restoration**. Confirm the security prompt asking you whether you want to close the program with **Yes**.
2. The wizard for data restoration starts. In the first step, you are informed that the existing data will be replaced with the data of the data backup. Click on **Next**.
3. The following window displays the file path to be applied to search for an existing data backup. Check this file path and change it as required. Then click on the **Next** button again.
4. If you specified a directory containing a valid data backup, the following window appears in step 3:

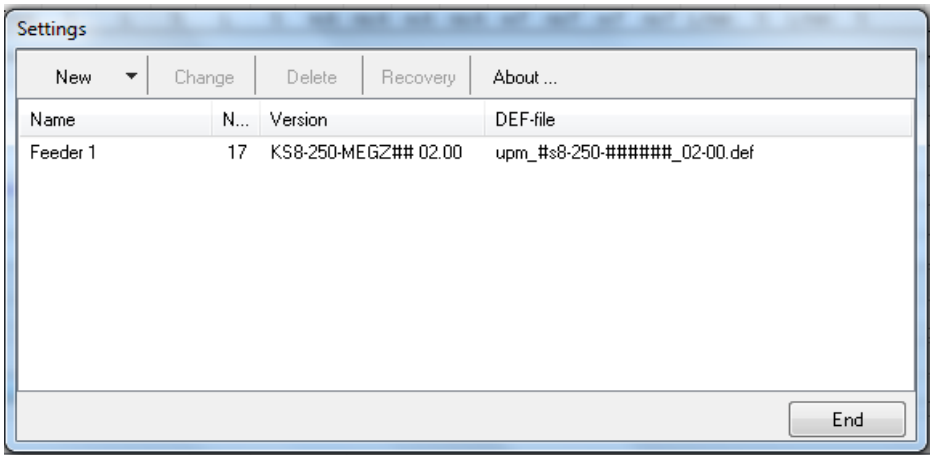


5. Click on the **Do you want to restore the data from DD.MM.YYYY** to transfer the backup data to your PC. After a final message confirming success, the KalbManagerWIN program is restarted immediately.

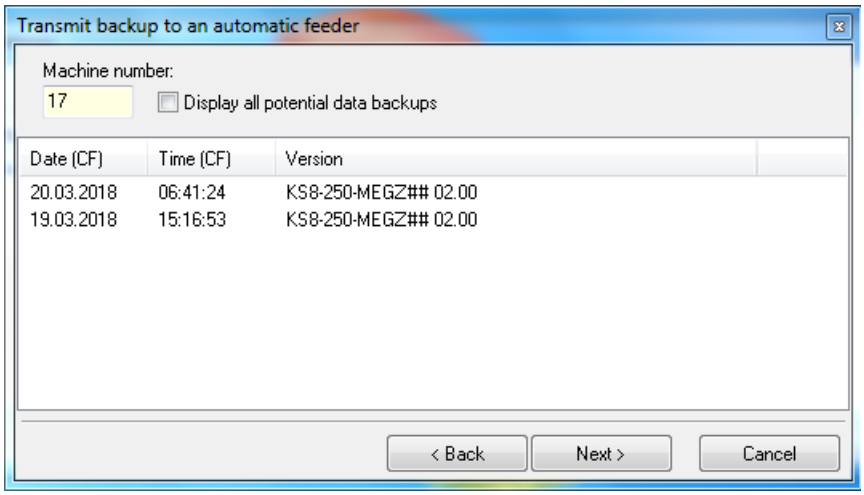
4.4.2 Restoring data to the calf feeder

If on a connected calf feeder the current data stock are lost, the existing application data in KalbManagerWIN can be used to transfer the entire lost data back to the calf feeder.

1. Select **Calf feeder > CF: register/cancel**.



2. Highlight the line with the name of the feeder on which you want the data to be restored and select **Restore** from the bar listed above.
3. The wizard for data restoration starts. In the first step, you are informed that during data backup the entire data of the calf feeder will be overwritten. Click on **Next**.
4. The following window displays all available data backups for the selected feeder. Select the data backup that is to be transferred to the feeder and then click on **Next** again.



5. Click on the **Start restoration** button to start transferring the data from the data backup to the selected calf feeder.
6. The backup data is transferred back to the selected calf feeder. Finally, a message informs you of the successful completion of this process.
7. Switch the feeder off once and back on again.

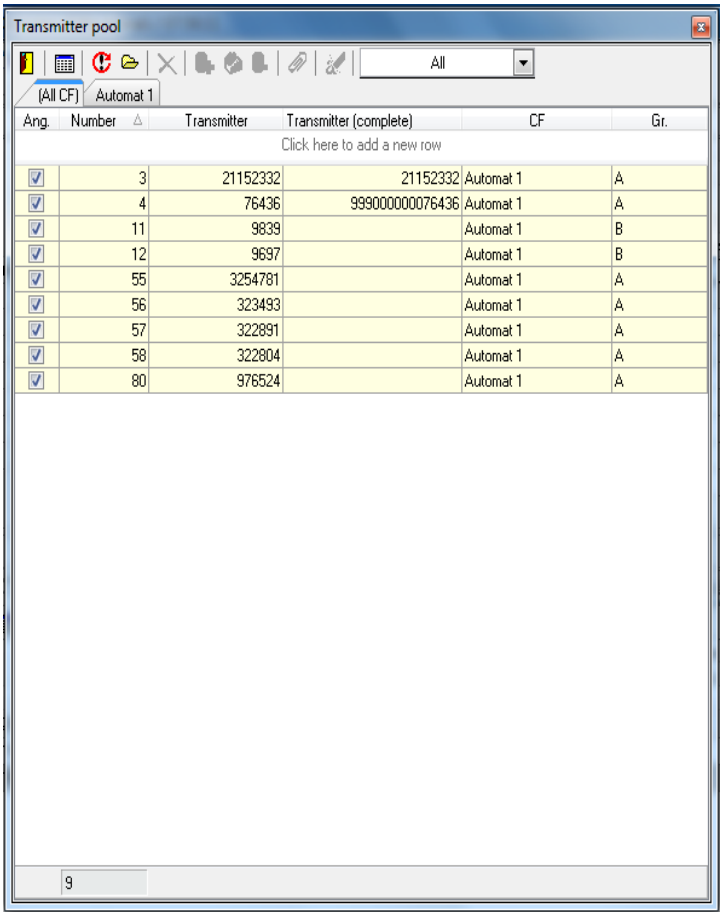
Note: Never forget to switch the feeder off and back on again. Only then is the integrity of your data ensured.

5. Transmitter and animal management

KalbManagerWIN enables simple and clear transmitter and animal management, in particular if you have several machines.

5.1 List of all transmitters for transmitter and animal management

The main instrument for transmitter and animal management is the list of all transmitters. It provides various different views of the existing animal and transmitter numbers in the system. If you select the **All** tab, all animal and transmitter numbers are selected. If another tab to the right was selected for a feeder, only the existing animal and transmitter numbers on this selected feeder are displayed. In addition, the selection list on the far right of the toolbar, can be used to restrict the view to **All** or only to registered or unregistered animals.



5.1.1 Button symbols of the list of all transmitters

The button symbols at the very top of the **List of all transmitters** window can be used to trigger various animal or transmitter-specific actions:


Close list of all transmitters


Reload the calf feeder (CF) (see 4.1.1.2 "Manual start of data transfer" - 27)


Read the list of transmitters (see 5.2.1.2 "Importing transmitter numbers from a file" - 38)


Remove transmitters from the list of all transmitters (see 5.2.2 "Deleting transmitter numbers" - 40)


Animal registration (see 5.3.1 "Registering animals" - 41)


Change animal registration (see 5.3.2 "Changing the registration of animals" - 42)


Cancel animal registration (see 5.3.3 "Canceling animals" - 43)


Change the animal number (see 5.3.4 "Subsequently changing animal numbers" - 45)


Delete all unregistered transmitters (see 5.2.2.3 "Deleting all transmitters not registered" - 40)

5.1.2 Initial start-up of the list of all transmitters

Every machine is an independent machine with its own management of its animal and transmitter numbers. When KalbManagerWIN is started up, various different procedures are possible, depending on whether a new installation is put into service or whether KalbManagerWIN is subsequently installed in an existing installation.

5.1.2.1 New installation

For a new installation, the machine is not given any animal and transmitter numbers at first. Therefore, after initial data transfer from the connected machine, the list of all transmitters of KalbManagerWIN is still empty. To enter the animal and transmitter numbers, you now need to decide whether to enter the new transmitter numbers in KalbManagerWIN and then transfer them to the machine or whether you want to automatically or manually read in the new transmitter numbers directly at the calf feeder.

Entering animals and transmitters in KalbManagerWIN

If there are only small numbers of animals you can if necessary create the animals manually in the KalbManagerWIN (see 5.2.1.1 "Manually entering transmitter numbers" - 37); with large herds however it is generally recommended to create a list of the animal and transmitter numbers and then read them in (see 5.2.1.2 "Importing transmitter numbers from a file" - 38).

Note: If you are using a herd management program, you should check if this program has an export function that you can use to create a list of your calves. You can then use this list for import into KalbManagerWIN.

If the transmitter numbers are available in the list of all transmitters of KalbManagerWIN, then you can register these animals at the feeder. When you do this, animal and transmitter numbers are automatically transferred to the corresponding feeder.

Entering animals and transmitters at the feeder

Depending on your preference, you can also register the transmitter numbers directly at the feeder. If you have activated the automatic registration of transmitters, registration is even performed automatically without any intervention by you.

Note: To read in or register transmitter numbers at the calf feeder, please read the corresponding chapter in the operating manual for the calf feeder.

The registered transmitters are the transferred from the connected feeders to the PC the next time data is transferred and are then immediately available in the list of all transmitters of KalbManagerWIN.

5.1.2.2 Integrating KalbManagerWIN in existing installations

In existing installations, all animal and transmitter numbers have already been entered at the feeder. Therefore, you do not need to register any transmitter numbers during initial start-up of KalbManagerWIN. It is sufficient to trigger a data transfer to transfer the animal and transmitter data from the connected feeder to the PC. Then the list of all transmitters of KalbManagerWIN already provides all animal and transmitter numbers of all feeders.

For subsequent operation, you then need to decide whether you want to register and delete the animals and specify any new transmitter numbers via the calf feeder, as done up to now or whether you now want to use KalbManagerWIN for these tasks.

Note: Note that data that was changed at the calf feeder will automatically overwrite the data in KalbManagerWIN during the next synchronization of data.

5.2 Transmitter management

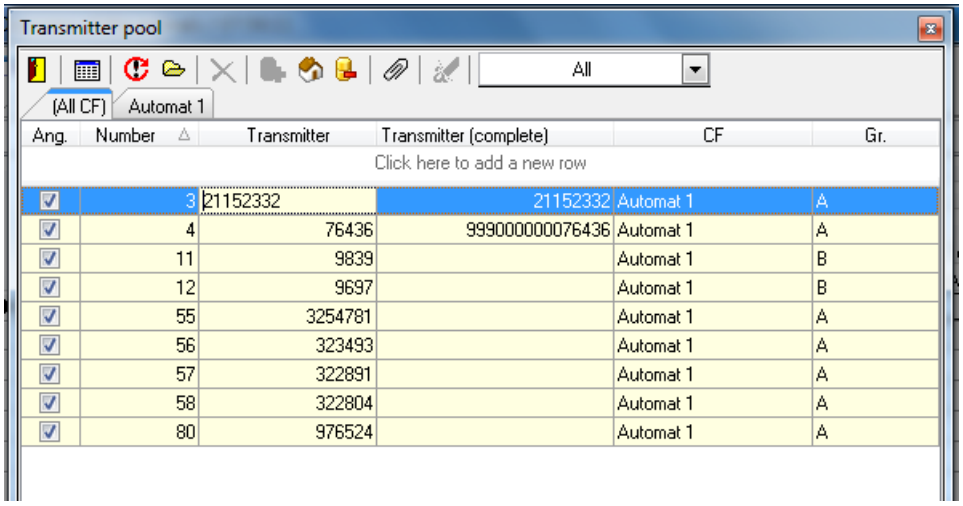
5.2.1 Entering transmitter numbers

Transmitter numbers and the corresponding animal numbers can be entered in KalbManagerWIN either manually or they can be imported from a file.

5.2.1.1 Manually entering transmitter numbers

To enter transmitter numbers manually into the list of all transmitters of KalbManagerWIN, proceed as follows:

1. Open the **list of all transmitters** window by clicking on the **list of all transmitters** button or via the menu item: **Calf > List of all transmitters**. The following window appears:



2. In the table of transmitter and animal numbers, click in the first empty row on the cell directly under the **Number** column heading and enter the animal number you want to assign. You can select an animal number between 6 and 999999 if your calf feeder does not further limit the selection.

3. Press the Tab key. That moves the cursor to the right by one cell, into the empty cell directly under the **Transmitter** column heading. Enter the transmitter number assigned to the animal. The animal number may have a maximum of nine digits.

4. If you press the Enter **key**, the combination of animal and transmitter numbers that you entered is transferred to the list of all transmitters. The cursor appears in the corresponding row, which is sorted according to the sort criteria in the list of all transmitters.

Note: After creating a transmitter number, it only exists in the list of all transmitters, but not at the calf feeder yet. Only when an animal is registered is the corresponding transmitter number transferred to the respective feeder.

Note: Every transmitter number in the list of all transmitters must be unique. If you attempt to enter two identical transmitter numbers, this is prevented. A corresponding warning message informs you of this.

5.2.1.2 Importing transmitter numbers from a file

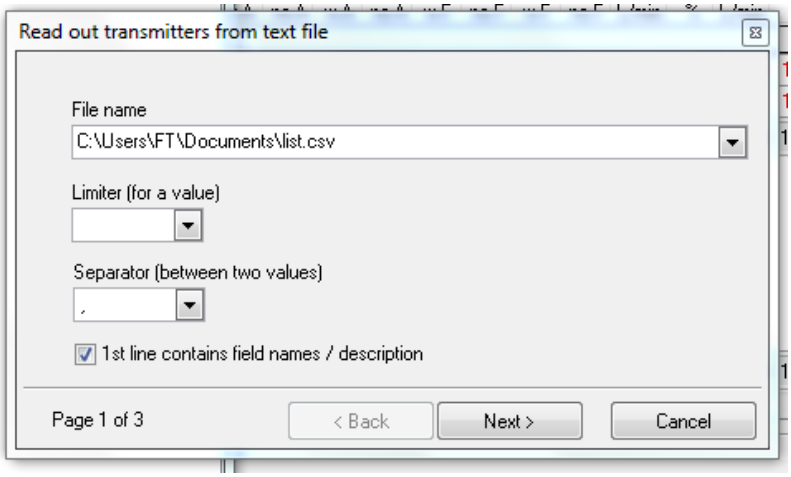
KalbManagerWIN provides you with the option of reading in animal and transmitter numbers from a text file. Each line in this text file represents a transmitter number including the corresponding animal number. These two values need to be separated by a separator. A comma, a semicolon or the tab character are valid separators. As an option, the values may also be enclosed by single or double quotes. Ideally, such a file, which frequently has the extension .csv (= character separated values), can be exported from your herd management program. As an alternative, you can also enter the values in a spreadsheet program (Calc from the Open office suite or Microsoft Excel) and save them in the form of a .csv file. Such a .csv file in ASCII text format could look like this:

Animal number; transmitter number
387;5254559
388;5254617
389;5254474
390;5254576
391;5254597

To import such a .csv file into the list of all transmitters of KalbManagerWIN, proceed as follows:

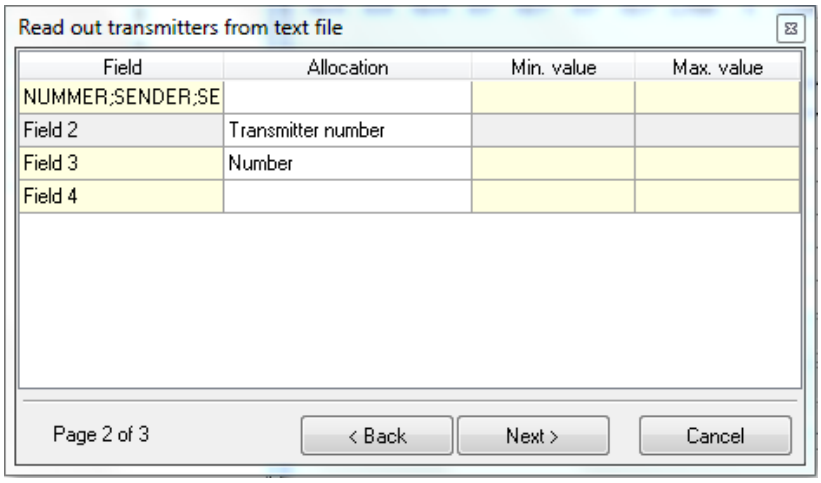
1. Open the **list of all transmitters** window by clicking on the **list of all transmitters** button or via the menu item: **Calf > List of all transmitters**.

2. On the toolbar, click on the **Read in the list of all transmitters** button. The following window appears:



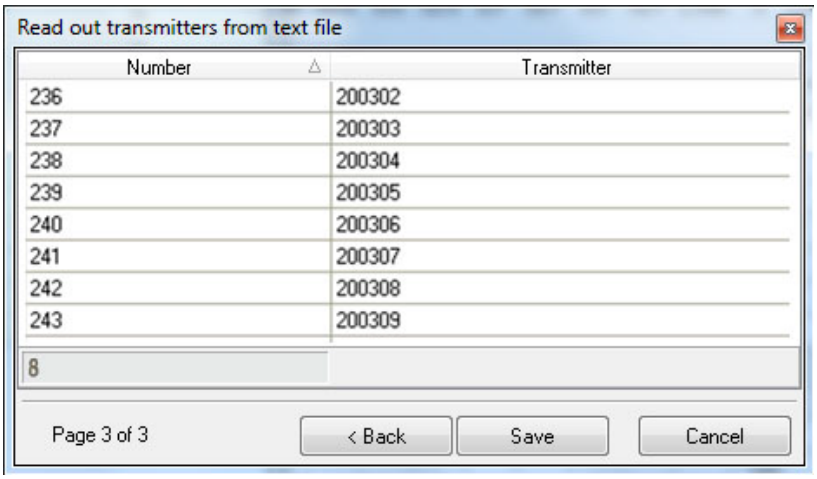
3. Select the file from which you want to read in the transmitters in the window above under **File name**. Under **Separator** select the character used to separate the values in the file. As an option, you can enter a **limiter**, which encloses the values in the file and specify whether the **first line** of the file is to act as a header describing the values in the lines below.

4. Then click on the **Next** button. This takes you to step 2 of the read-in process:



5. In the dialog box that is displayed, please define which column of the transmitter list contains the animal numbers and which one the transmitter numbers. To do this, select the correct value for the corresponding line from the checkbox in the **Allocation** column.

6. Click on the **Next** button again. That takes you to step 3 of the read-in process. Check the displayed list of animal and transmitter numbers to be read in:



7. Finally, click on **Save** to start importing the transmitter and animal numbers.

   Note: Only animal numbers with a maximum of six digits and transmission numbers with a maximum of nine digits can be read in. If a line contains an animal or transmitter number with more digits, this line will be ignored during import without any error message being displayed. In the same way lines that include animal or transmitter numbers with letters or other non-numeric characters will also be ignored.

5.2.2 Deleting transmitter numbers

5.2.2.1 Deleting transmitter numbers manually from the list of all transmitters

To delete transmitter numbers **manually** from the list of all transmitters of KalbManagerWIN, select the line(s) with the transmitter number(s) to be deleted and then click on the **Remove marked transmitter list** button. The corresponding transmitter number(s) are deleted from all feeders first and then from the list of all transmitters.

Note: If there is an animal is registered under a transmitter number, you cannot delete that transmitter number. The transmitter can only be deleted after deleting the corresponding animal.

5.2.2.2 Deleting transmitter numbers automatically when an animal is deleted

When an animal is canceled, the transmitter number assigned to it on the feeder can be deleted in the course of the cancellation (see 5.3.3 "Canceling animals" - 43).

5.2.2.3 Deleting all transmitters not registered

To delete **all unregistered transmitters** from the list of all transmitters on the KalbManagerWIN, click on the button and confirm the message.

5.3 Animal management

Animals are registered and canceled (and their registration changed) using the corresponding buttons on the toolbar of the **list of all transmitters**.

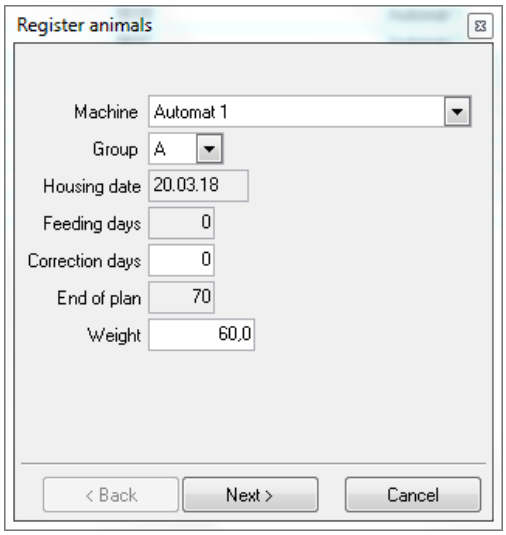
5.3.1 Registering animals

When registering an animal you can use a transmitter number that is already entered. A free transmitter number is not checked.

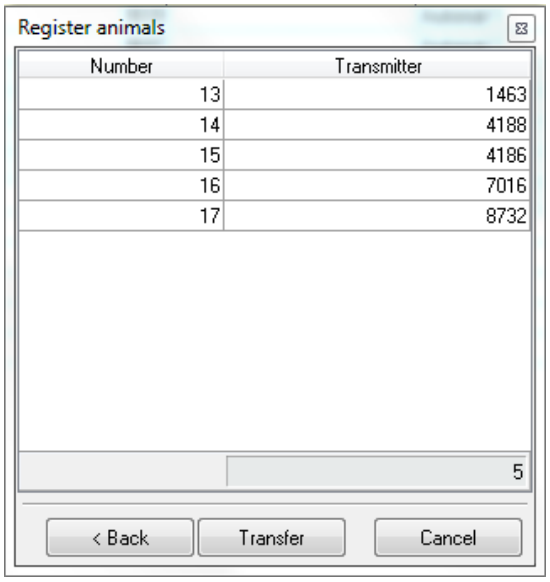
1. If several calf feeders are connected, select either the **All** tab or the tab of the desired feeder.
2. Select one or more free transmitter numbers.

   If you want to select several numbers in a successive range, keep the shift key depressed and use the mouse to highlight the animals to be registered, moving the it from the top to the bottom of the range to be selected.

   If you want to select several numbers in a successive range, keep the shift key depressed and use the mouse to highlight the animals to be registered.
3. Click on **Register animal**. The following dialog box appears:



4. Define the following settings in this dialog box:
   - **Feeder** Select the feeder on which you wish to register the animals.
   - **Group**: Select the group to which the animals to be registered are to belong.
   - **Housing date**: The date of the present day is entered automatically.
   - **Feeding days**: The number of feeding days for the calf to be registered. This value is always zero prior to housing. After housing the calf is set to feeding day 1, irrespective of whether correction days were entered or not.
   - **Correction days**: If you are already housing older animals, you should enter correction days that make the animal "older" and thus move it along the feeding curve by the number of days entered. The calves are thus assigned the feeding quantity that corresponds to their age.
   - **End of plan**: The displayed number of days is calculated from the length of the feeding plan minus the assigned correction days. It cannot be changed here.
   - **Weight**: The default setting is an average weight of 60 kg. You can enter this weight individually for each animal.
5. Click on the **Next** button. Check the list of animals to be registered, including the corresponding transmitter numbers, which are now displayed to you:



6. Finally, click on **Transfer** to start registering the animal numbers.

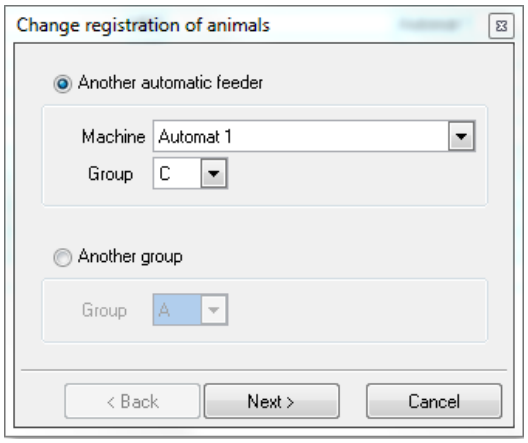
   Note: If the Transfer button does not work, that is an indication of an error (for example, if you attempt to register an existing transmitter number again). In such a case, search for the corresponding error message in the right-hand Error column and correct the error.

5.3.2 Changing the registration of animals

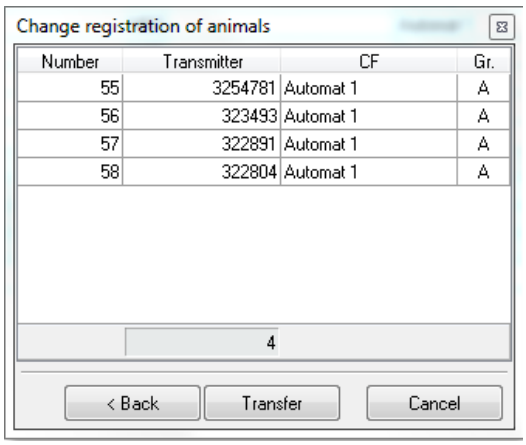
To change the registration of one or more animals, proceed as follows:

1. If you only want to change the registration of animals at a single feeder to another group, continue directly with step 4. If not, perform steps 2 and 3 first.
2. Set both feeders that act as the source and target of the rehousing action to offline mode.

   Note: Step 2 is urgently necessary! If the feeder remains in automatic mode during the rehousing process, that will almost certainly result either in warnings relating to unknown transponders or – which is even more unfavorable – in the same transmitter number being registered on two feeders. In this case, KalbManagerWIN is no longer able to assign the animal clearly to a feeder. Correct animal control can then no longer be performed.
3. Bring the calves from the pen with the source feeder to the pen with the target feeder of the rehousing operation.
4. In the list of all transmitters, select one or more of the registered animals.
5. Click on **Changing the registration of animals**. The following dialog box appears:



6. Use this window to select whether you want to change the registration of the animal only to another group or also to another feeder.
   6.1. **another feeder**: Another calf feeder: select one of the registered feeders and then one of the four available groups.
   6.2. **another group**: Select a new group.
7. Click on the **Next** button. Check the list of animals whose registration is to be changed, including the corresponding transmitter numbers, which are now displayed to you:

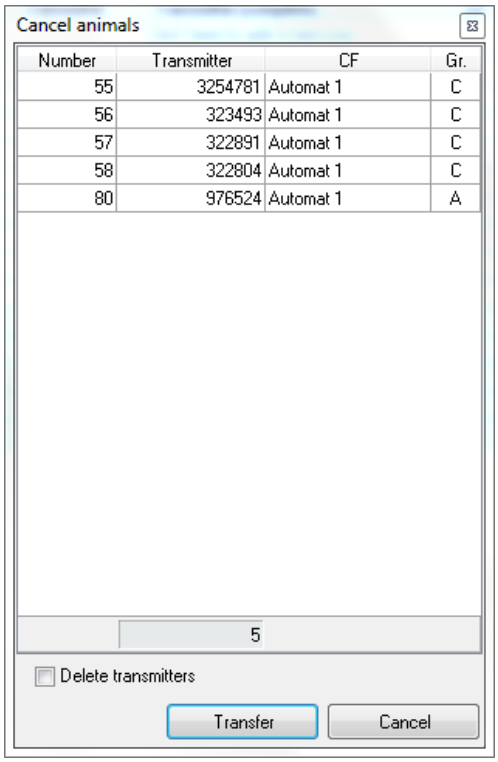


8. Click on **Transfer** to start changing the registration of the animal numbers.
9. Then switch the two feeders used as the source and target of the rehousing operation back to automatic mode (only applicable if the animals were rehoused to another feeder, but not if only the group was changed for the animals).

5.3.3 Canceling animals

To cancel one or more animals, proceed as follows:

1. Select one or more registered animals, which are indicated by a check in the **Registered** column to the left of the animal numbers.
2. Click on **Canceling animals** The following dialog box appears:



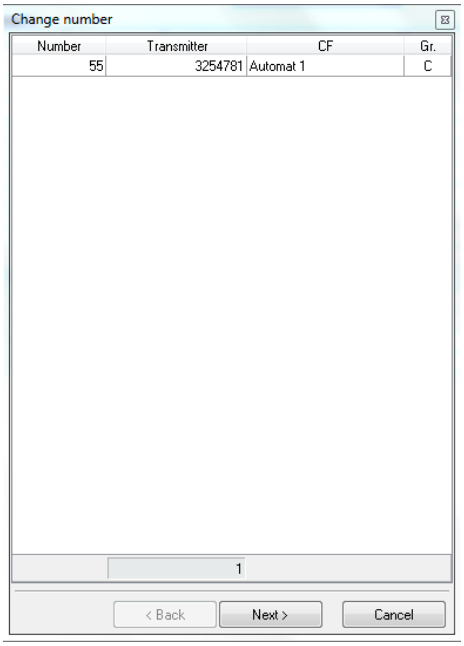
3. If you want the animal's transmitter number to also be canceled on the corresponding feeder when the animal is canceled, insert a check in the **Delete transmitters** checkbox.

   Note: It is advisable to use this option if the transmitter is to remain on the animals when they leave the calf area (living ear tag). If you do not want to reuse the transmitters for new animals to be housed, you should **not** select this option.

4. Finally, click on **Transfer** to start canceling the animal numbers.

5.3.4 Subsequently changing animal numbers

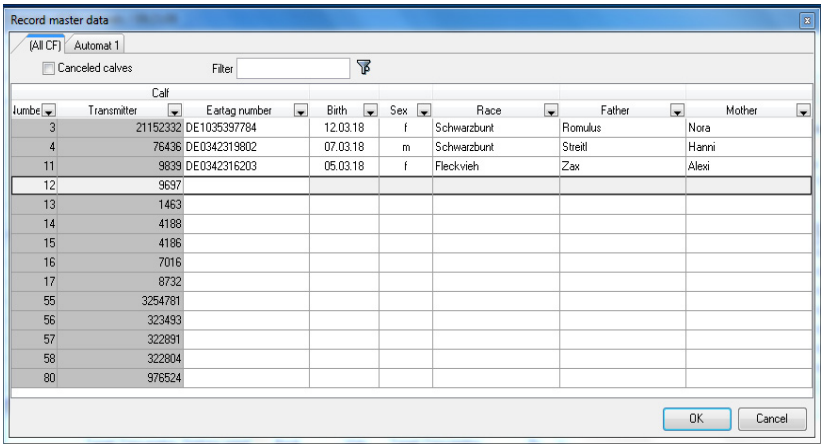
1. Select the animal whose animal number you want to change and click on the **Change number button**.



2. Change the number and click on **Next**.
3. To conform the change, click on **send**.

5.3.5 Entering master data

1. Open the **Record master data** window by clicking on the **Record master data** button or via the menu item: **Calf > Master data**.

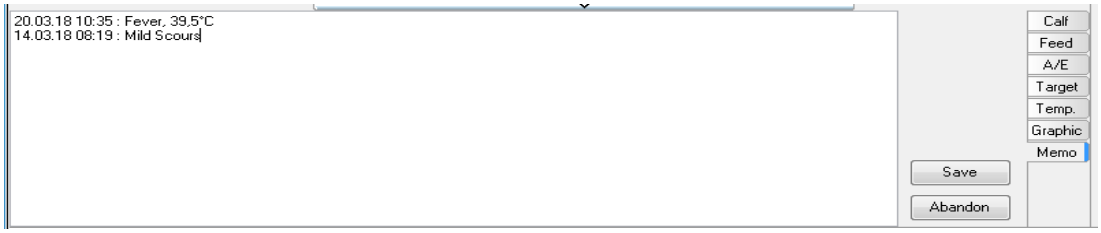


2. Enter the desired values in the corresponding cells. Click on the **OK** button to permanently save the values entered.

5.3.6 Entering notes

5.3.6.1 Entering a note for an individual animal

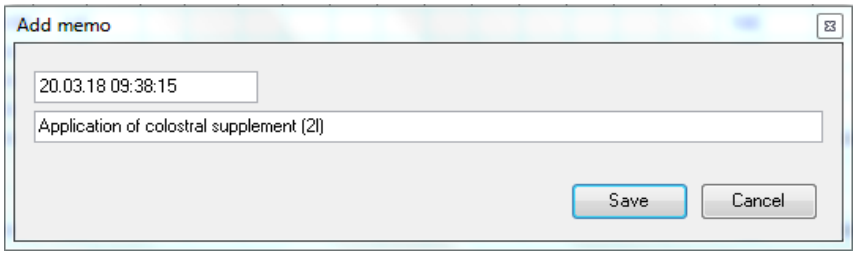
1. Open the **Overview of the animals** window by clicking on the **Overview of the animals** button or via the menu item: **Info > Overview of the animals**.
2. In the detailed view in the bottom half of the window, you will find a row of buttons stacked on top of each other on the far right. Click on the **note** button.



3. A text field appears that might already include entries made by you at an earlier date. Enter the desired note and click on the **Save** button to permanently save the note entered for the individual animal.

5.3.6.2 Entering a note for several animals

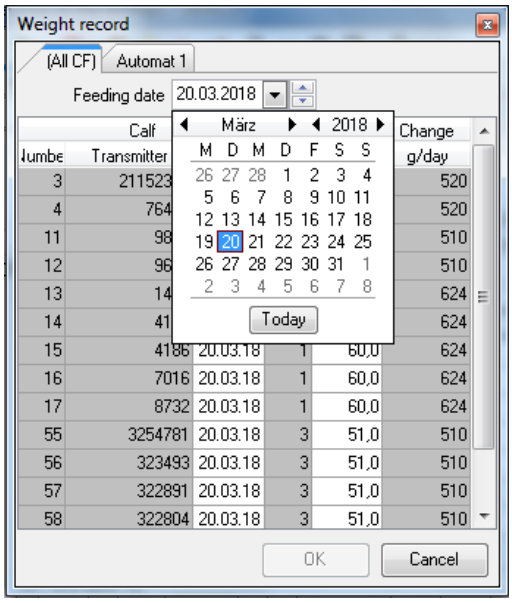
1. Open the **Overview of the animals** window by clicking on the **Overview of the animals** button or via the menu item: **Info > Overview of the animals**.
2. In the overview list of the animals, click on the rows of those animals for which you want to enter a note.
3. Click on **Add notes** button on the toolbar of the **Overview of the animals** window. The following window appears:



4. The text field at the top already has the date by default. It can normally be left unchanged. Enter the desired note in the bottom text field and then click on the **Save** button. This note is thus saved permanently for all animals marked by you.

5.3.7 Checking and entering weights

1. Open the **Record weights** window by clicking on the **Record weights** button or via the menu item: **Calf > Weights**. The following window appears:



2. To **check the animal weights**, open the selection menu for the date using the arrow symbol on the far right in the selection field. A calendar view appears that you can use to select the desired day. As an alternative, you can also enter the desired value directly in the date field. You can also use the arrow up and arrow down keys on the far right next to the date field to scroll to the next page or the previous page.

3. You can also enter **weight values** manually or **overwrite** the values manually that were provided by the station weigher. To do this, click on the weight value you want to change. Make the desired change and click on the **OK** button to permanently save the newly entered or changed values.

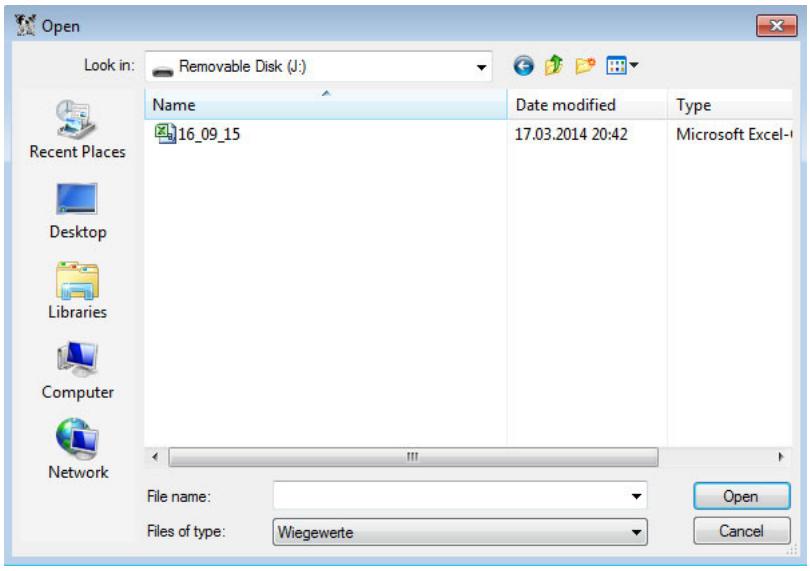
Note: If the feeder is not equipped with an automatic station weigher, calculated values are displayed as weight values.

5.3.7.1 Read in the weight from the animal scales

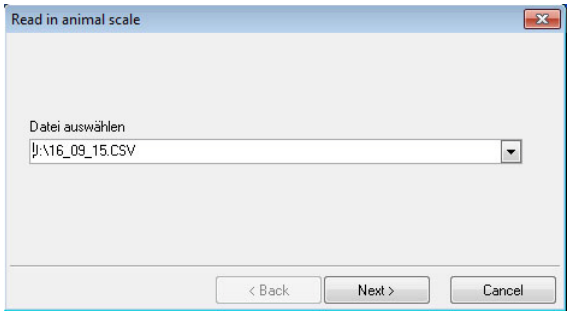
If a 1-2-3 animal scales made by Bosche are available you can read in the weight of the animals.

1. Select the menu item **Calf > Read in the animal scales**.

2. Select the file from your USB stick via the data backup of the scales.



3. Confirm with **Next**.



The weights are assigned to the respective animals and respective dates.

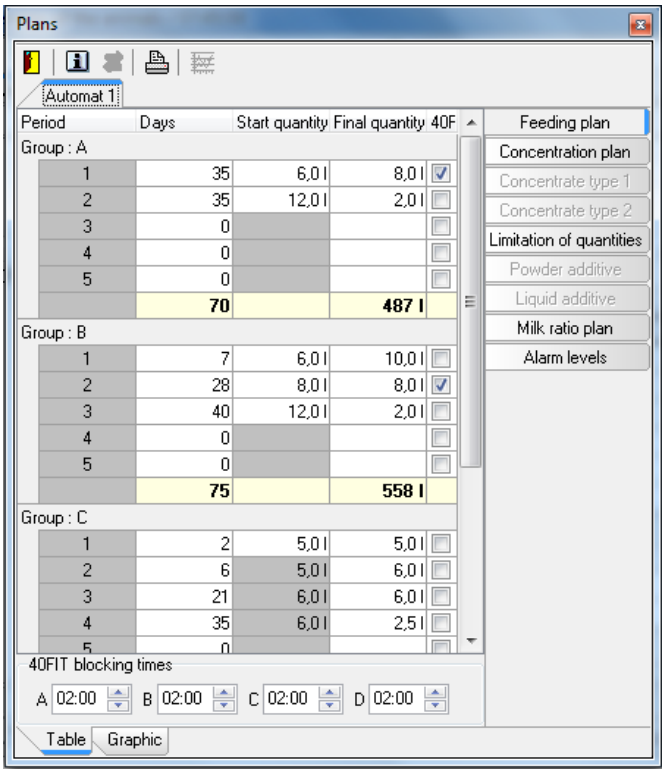
6. Feeding

6.1 Plans

The administration of the feed and any concentrate to the calves is defined via plans. These plans can be viewed and changed in KalbManagerWIN.

6.1.1 Defining plans

On the main menu toolbar, click on the Machine plans button or select the menu item **Calf feeder > Machine plans**. A window opens entitled **Plans**.



You can use this window to view and adjust the following plans:

- Feeding plan
- Concentration plan
- Concentrate type 1 or 2
- Quantity limitation plan
- Powder or liquid additive plan (older feeders)
- Milk ratio plan
- Alarm levels

Every plan can be viewed and changed individually for every calf feeder connected. In the window, the calf feeders are arranged in the tab system and can be selected at the top left. At the bottom left of the tab, you can switch views between the table and the graphic. All plans are listed for selection on the right side, next to the tab.

Note: No default plans are stored in the program. The entire data is transferred from the calf feeder. It can be edited and changed in KalbManagerWIN. Some changes in the calf feeder can be transmitted at each new data transfer to the KalbManagerWIN. In the calf feeder some useful feeding plans are already saved as standard settings. Please refer to the corresponding chapters in the operating manual for the calf feeder.

Every tab for the individual plans has the same structure. The plans for each group are divided into 5 periods, which do not all need to be fully used for all plans. The duration, the start quantity and the final quantity can be entered and changed as required for each period. An exception to this rule are the start quantities of periods 2 to 5, since these are applied from the final quantity of the previous period. This does not apply if the 40FIT check is set. The last row of the plan displays the total sum of the days and of the final quantities.

You can always only edit the fields that are not colored. The fields highlighted in color apply or calculate data.

The row in which you have just made the changes is highlighted faintly in color. This **"highlighting"** is retained, even when you close the window.

6.1.1.1 Feeding plan

Along with the concentration plan and the quantity limitation plan, the feeding plan forms the basis for feed preparation of the calf feeder.The feeding plan defines the amount of feed per day.

If a 40FIT check is set, the daily amount is unlimited and the start and finish values of each period can be set individually.

If the calf is within the 40FIT period you can set a blocked period between the individual calls.

6.1.1.2 Concentration plan

In the concentration plan, you determine the concentration of the powder-water mixture (feed).

6.1.1.3 Concentrate plan type 1 / 2

Option: You must have installed a concentrate feeder for this plan.

You can give two different types of concentrate to the calves. For this, a separate feeding plan is available for each type of concentrate. As an option, fixed feeding can also be used to determine the time when the feed is discontinued for the calves (see 6.3.2 "Weaning by concentrate consumption" - 56).

The program is informed by the calf feeder whether a concentrate feeder is connected. Depending on this information, either one or both concentrate plan(s) is/are activated. If no concentrate feeder is available, the corresponding tabs are disabled.

6.1.1.4 Quantity limitation plan

The quantity limitation plan can be used to define a plan for the minimum quantity for every group (here: start quantity) and the maximum quantity for each portion. The minimum quantity plan is the quantity that needs to be reached before feed can be consumed. The maximum quantity restricts the quantity that can be consumed during each meal to make sure that the calf cannot eat or drink too much.

Unlike for the other feeding plans, for the quantity plan the start quantity can be changed for all periods and not only for the start period.

6.1.1.5 Powder additive plan / liquid additive plan

Option: These plans are active only in older feeders.

These plans can be used to specify a plan for adding powder or liquid additives for every group. However, only one plan may be active for each calf feeder.

Like a feeding plan, an additive plan consists of 5 periods, the lengths of which need to be specified in days. In addition, the initial and final values of the corresponding period need to be entered. Unlike the feeding plans, irregularities in the additive curve can occur, since the final value of the previous period is not automatically applied as the initial value of the current period.

The additive plans compete with the prescriptions. If a prescription is set, an additive plan cannot run. If a prescription and an additive plan are specified, the additive plan is disabled for all animals and a corresponding warning is displayed.

Additive plans depend on the feeding day, i.e. they are assigned to a certain feeding day and continue as planned. Normally, an additive is administered to the entire group. However, you still need to assign the additive plan to every animal under **Administer prescription**.

6.1.1.6 Milk ratio plan

The desired ratio (in %) of fresh milk and milk powder during the feeding period can be specified in the milk ratio plan.

6.1.1.7 Alarm level

The threshold values that define when a calf is listed as an alarm animal in terms of feed consumption can be specified under **Alarm levels** individually for each of the groups. The following can be defined:

- Feed consumption (%)
- Drinking speed (%)
- Break with additive (number)
- Break without additive (number)

If the values for feed consumption and drinking speed fall short of the specified value or if feeding is stopped more frequently than defined, the animal is listed as an alarm animal.

6.1.1.8 Synchronizing the machine plans for several calf feeders of the same time

If several calf feeders are connected, a machine plan can be duplicated to the other feeders.

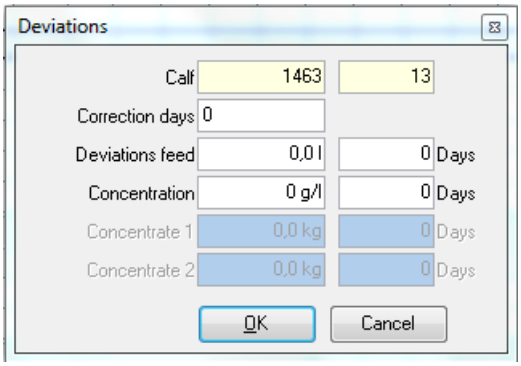
1. Select the **Synchronize all machines** button. The button changes to .
2. Clicking on the **Send data to the machine** button transfers the data to all feeders.

6.1.1.9 Specifying deviations

You can use this function to specify deviations for various parameters stored in the feeding plans for one or more calves.

Note: The specification of deviations can only be performed on the tabs of the individual calf feeders – just like all other actions for individual animals. If the All CF tab is selected, this function is not available.

1. Select the respective calf or calves by clicking on it/them in the table.
2. Click on the **Deviations** button on the toolbar.



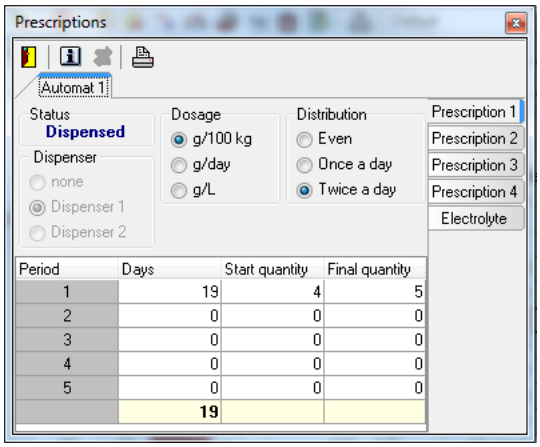
3. You can use the window that appears to define the following changes for each calf individually:
   - **Correction days**: if you register an older calf at the calf feeder, by entering correction days you can move this calf forwards along the feeding curve so that it receives the feed quantity that corresponds to its age.
   - **Deviations feed**: if an individual calf is to receive slightly more or less feed for a specific period, you can enter the deviation quantity here.
   - **Concentration**: if a calf requires more or less energy, you can change the concentration for a certain number of days.
   - **Concentrate 1 and 2**: you can enter the deviation quantity here that you want to specify for the individual calves.

   If only one calf is selected for this action, the transmitter number followed by the animal number are displayed at the top of the window. If you have selected several calves for the same action, only the number of calves is displayed.
4. Enter the desired quantity and the duration in days and confirm your entry with **OK**.

6.2 Prescriptions

6.2.1 Defining prescriptions

1. On the main menu toolbar, click on the **Prescriptions** button or select the menu item **Calf feeder > Prescriptions**.



Prescriptions can be created for powder additives as well as for liquid additives. Depending on the feeder type connected, up to four **medicine prescriptions** and one **electrolyte prescription** can be specified. Every medicine prescription can be split up into five periods. For every period, the duration in days needs to be specified, as well as the dosage, split up into initial and final quantity.

Dosage is performed either by:

- Depending on the animal's weight (g/100 kg)

  Heavier animals receive more additive than lighter ones. Ideally, an animal scales is installed at each of the feeding stations for use in this case. If that is not the case, a calculated weight is applied. To calculate this theoretical weight, the weight entered during the registration of the animals is increased every day automatically according to a formula. The distribution can be performed at one portion, two portions or spread evenly over the day.
- depending on the feed quantity (g/liter)

  Animals that receive a large quantity of feed also receive more additive than animals that receive less feed. The additive quantity is distributed evenly among the feed portions. Dosage is stirred into each portion, therefore no selection of the distribution is available.
- as a daily quantity per animal and day (g/day)

  Animals receive a fixed additive quantity per day. The distribution can be performed at one portion, two portions or spread evenly over the day.

Whether the prescription is administered or not is displayed in the Status field.

2. Click on **Send data to the machine** when you have completed your entries and before you close the window.
3. To administer the prescription, you need to assign it to the corresponding animal(s) in the **Overview of the animals**. This procedure is described in the next chapter.

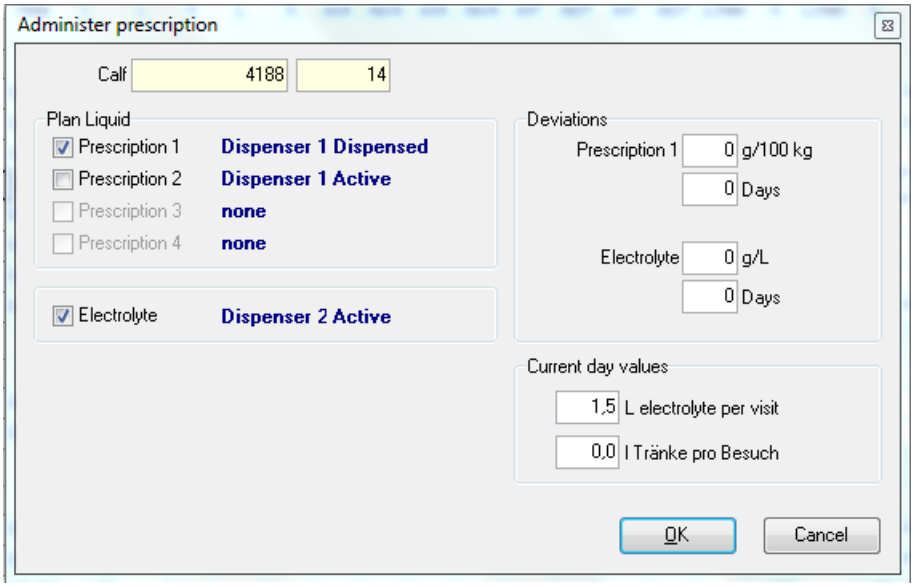
6.2.2 Sending prescriptions simultaneously to calf feeders of the same type

If several calf feeders are connected, a prescription can be duplicated for the other feeders.

1. Select the **Synchronize all machines** button. The button changes to .
2. Clicking on the **Send data to the machine** button transfers the data to all feeders.

6.2.3 Administering a prescription

1. In the **Overview of the animals** window in the list of animals, select the calf or calves that are to receive additive.
2. On the toolbar, click on the **Prescription dispensation**. The following window appears:



3. Select a prescription by clicking on it.
4. Confirm your entry with **OK**.

The dispenser is specified next to every defined prescription, via which the specified additive is distributed. In addition, one of the following endorsements is also always listed:

- **active**: The prescription has been defined, however **no** additive is currently dispensed to an animal or group of animals according to this prescription. This prescription is therefore **not** in use.
- **dispensed**: An additive is currently being dispensed to an animal or group of animals according to this prescription. This prescription is therefore in use.

Since no more than two additive dispensers can be connected, of which only one may be a powder dispenser, dispensing is limited to two prescriptions simultaneously. That means certain checkboxes in the dialog box cannot be used simultaneously.

If you have only selected one calf for this action, the transmitter number followed by the animal number are displayed at the top of the window. If several calves are selected for the same action, only the number of calves is displayed.

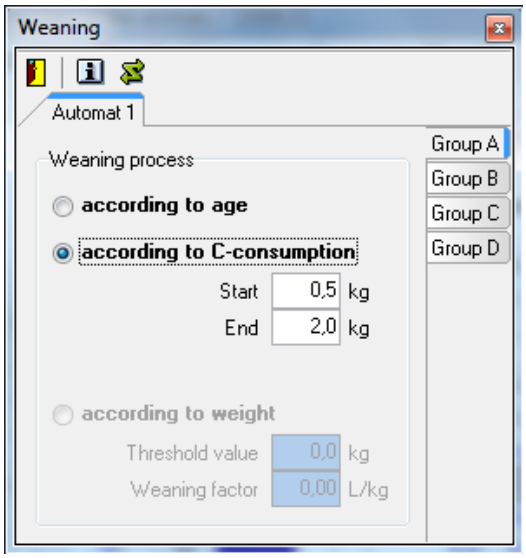
Note: If you select a different prescription, the prescription already administered is canceled for all animals.

With older calf feeders, under Plan you could choose only between **Powder additive** and **Liquid additive**.

For the specification of every prescription, a specific dosage (in grammes per liter, grammes per 100 kg or grammes per day) has been specified for the additive. Under the **Deviations** point you can increase or reduce the dosage specified in the prescription for an adjustable period according to your requirements. For this please refer to the operating manual for the calf feeder and the additive dispenser.

6.3 Defining the weaning rule

1. On the main menu toolbar, click on the **Weaning** button or select the menu item **Calf feeder > Cancellation**.



   A window appears entitled **Weaning**. You can use it to define for each group whether the calves are to be weaned according to **age** (default), **concentrate consumption** or **weight**. Depending on the equipment of the calf feeder, some of the options displayed might be disabled. For example, if you have not connected a concentrate feeder or an animal scales to your calf feeder, only the **according to age** setting is active and already selected.
2. Once you have defined the settings for all desired groups, click on the **Send data to the machine** button to complete the process.

6.3.1 Sending data to all calf feeders of the same type

If several calf feeders are connected, a weaning method can be duplicated for the other feeders.

1. Select the **Synchronize all machines** button. The button changes to .
2. Clicking on the **Send data to the machine** button transfers the data to all feeders.

6.3.2 Weaning by concentrate consumption

Option: Available only if you have a concentrate feeder connected to your calf feeder.

If you want to stop concentrate feeding for the animals individually by their concentrate consumption, select **by concentrate consumption** and adjust the following parameters according to your requirements:

- **Start**: When this consumption quantity of concentrate is reached, the calf feeder should start to reduce the feed quantity.
- **End**: When this consumption quantity of concentrate is reached, the calf feeder should stop giving MP or milk to the calf completely.

For example: Start: 0.5 kg, end: 2.0 kg. These settings result in the following: When the calf eats 0.5 kg of concentrate a day on average for three days, the calf feeder starts to wean the animal. As soon as an animal consumes 2.0 kg of concentrate a day on average, the calf feeder completely stops feeding for this animal. The animal is thus weaned. For this please refer to the operating manual for the calf feeder and the concentrate feeder.

6.3.3 Weaning according to weight

Option: Available only if you have an animal scales connected to your calf feeder.

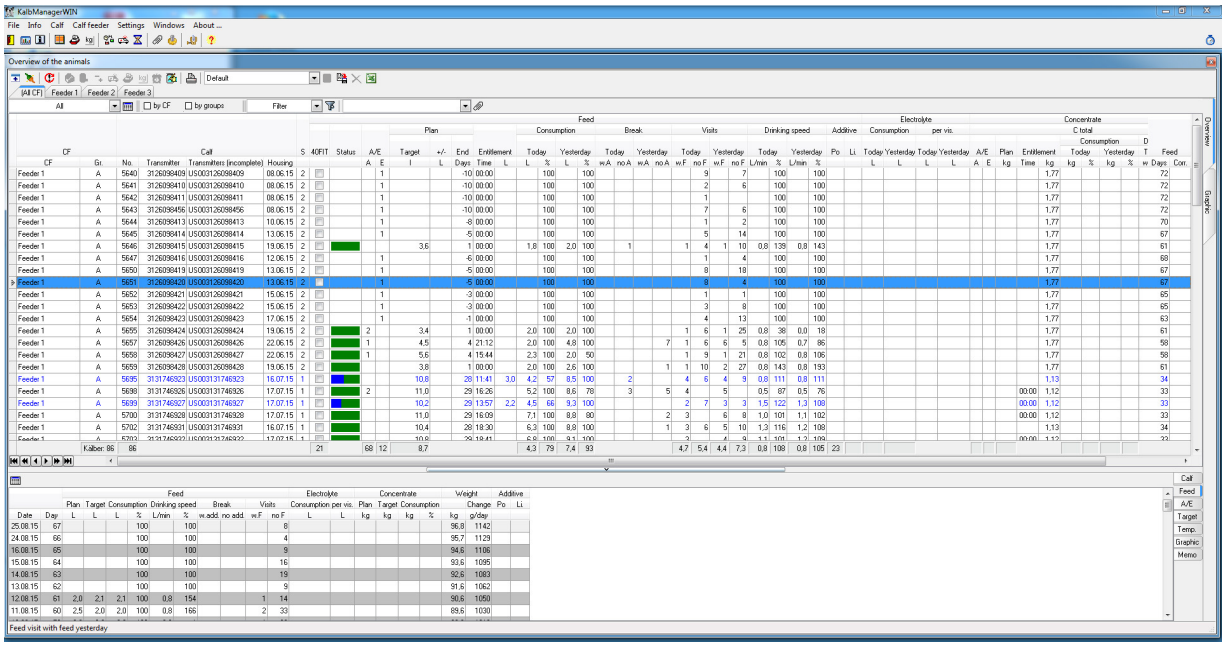
If you want to wean the animals individually by their weight progression, select the **by weight** option. If necessary, adjust the following parameters according to your requirements:

- **Threshold**: The animal weight which when it is reached, the calf feeder should start to reduce the feed quantity.
- **Weaning factor**: The reduction in quantity of MP or milk (in liters) given to the calf when it has gained one kg in weight.

For example: Threshold: 65kg and weaning factor: 0.25l/kg. These settings result in the following: As soon as the calf has reached a weight of 65 kg, the feed quantity is reduced by 0.25l for each kg of weight increase of the animal. For this please refer to the operating manual for the calf feeder and the half-body scales.

7. Animal control

The **Overview of the animals** is the main information window. All information on the calves fed at the calf feeder is listed here.



The window consists of two sections. The upper part contains a Overview table containing every calf represented by a line. The individual columns provide information on the animal and its feed and concentrate consumption and its weight progression at the present day. Six overview versions are available.

The bottom section gives detailed information on a selected calf. The tab system can be used to access information e. g. on the previous development of its feeding period and display it graphically.

You can also select animals here to define individual animal settings. These include administering prescriptions or entering deviations for individual animals.

For a better overview or to compare animals, you can also duplicate windows and synchronize the data of both windows (see 3.3.4 "Duplicating and synchronizing windows" - 22).

7.1 Herd monitoring

7.1.1 Colors

The font color of the lines depends on the color displayed on the status bar. The various colors have the following meanings:

- **green:** The animal is OK, there is no alarm and no entitlement. The font color in the line is black.
- **blue:** The animal is entitled and there is no alarm. The font color in the line is also blue.
- **red:** The animal is an alarm animal. The font color in the line is also red.

7.1.2 Grouping and sorting the animal data

You have various different grouping options for the table views:

- **by CF:** The calves of a calf feeder are displayed in bundled form and distinguished from animals of other calf feeders by a frame. If you click on the corresponding check it will be removed and all animals are only displayed in groups or without distinction.

  Note: The **by CF** combo-box is available for grouping only if the **All CF** tab is selected.
- **by group:** If this field is checked, the calves of a group are displayed in bundled form with a frame to distinguish them from animals of other groups.

  Note: Within the highlighted frame, there are data fields under the corresponding column. These fields contain average values and the complete data of the animals in the corresponding group or at the calf feeder.

If a specific **column is used in the overview of the animals for sorting the data**, the sequence of the rows in the overview table is changed.

The table header with the animal data consists of four rows with the corresponding column headings. In the bottom four rows in the header area, click on the table cell with the column name you want to use as the sort criterion for the animal list. A transparent arrow appears next to the column name. Depending on whether the arrow is pointing up or down, the data is sorted in ascending or descending order.

For example: Click on the **Number** table cell in the column heading. An arrow pointing up Nr. △ appears in the cell on the far right and the calf numbers are sorted in ascending order. Click on the **Number** cell again. The arrow points down Nr. ▽, and the calf numbers are sorted accordingly in descending order.

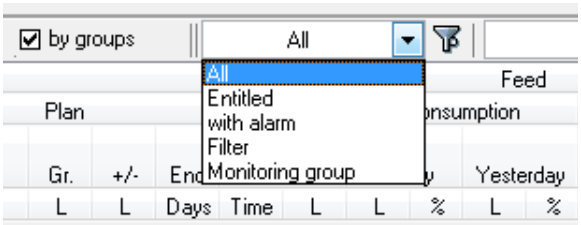
Note: Multiple sort keys are not supported; only one column can be used at a time for sorting. If you click on another title cell in the column header to sort this column, the arrow disappears from the cell previously used for sorting.

7.1.3 Filtering the animal list

7.1.3.1 Using existing filters

KalbManagerWIN already provides numerous predefined filters. To use them, proceed as follows:

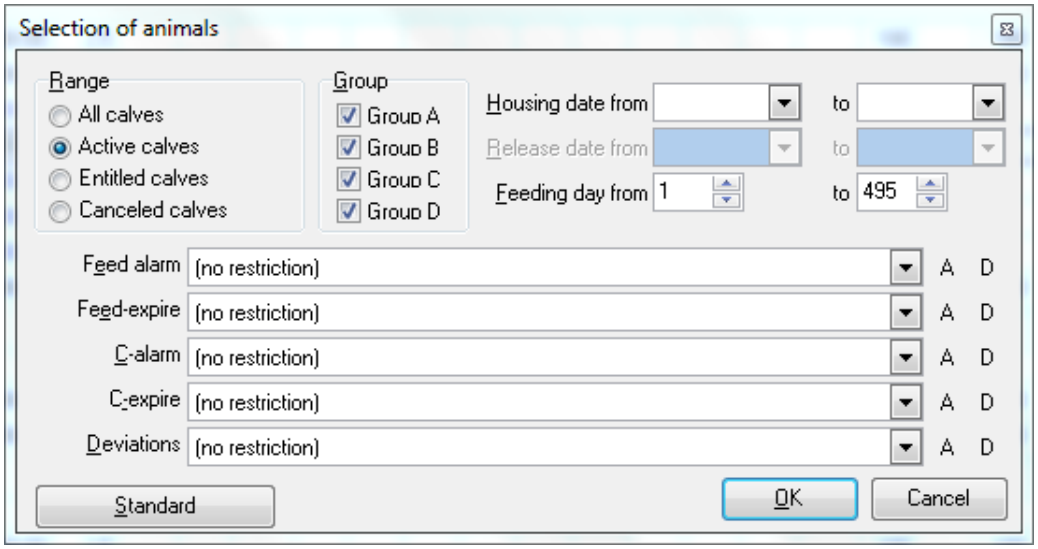
1. There is a selection field in the **Overview of the animals** window to the left of the button symbol. If you click on this selection box, all predefined filters are displayed:



2. Select the filter you want to use to filter the animals. Then, only those animals are displayed that correspond to the selected filter criterion. You can choose between the following predefined filters:
   - **All**: All calves are displayed
   - **with entitlement**: Only those calves with entitlement are displayed, all others are hidden from view.
   - **with alarm**: Only the calves with an alarm are displayed (alarm list).
   - **Filter**: The criteria that you defined individually are used for filtering (see 7.1.3.2 "Defining your own filters" - 59).
   - **Monitoring group**: Filtering is performed according to a selected monitoring group (see "Filtering by monitoring group" - 61).

7.1.3.2 Defining your own filters

If you click on the **Filter** button, the selection of animals dialogue box is opened that can be used to specify individual criteria for filtering the animals:



The dialogue box has two different types of filter criteria: the top half includes criteria that must be fulfilled (**And-criteria**).

Example: All active calves from groups A, B, C and D are to be displayed between the 1st and 150th feeding day.

The bottom half contains criteria that may be fulfilled. (**Or-criteria**).

Example: The animals selected at the top should have at least triggered a feed alarm **or** a concentrate alarm **or** fulfil one of the other criteria.

The five **Or-criteria** can be further limited so that only one specific alarm type is displayed. For example, you can limit the **C-alarm** in such a way that only the 3-day alarms are displayed.

There is an **A** and a **L** that you can click on. The **A** stands for **Select all**, so that all restrictions are displayed. **L** deletes the selection again.

The **Standard** button at the bottom left of the dialogue box resets all settings in this windows to their initial setting.

When you have made your selection, click on the **OK** button. The table automatically filters and displays the required data.

Note: If you have specified an individual filter, in the **Overview of the animals** window in the combobox to the left of the button symbol, **Filter** is automatically displayed.

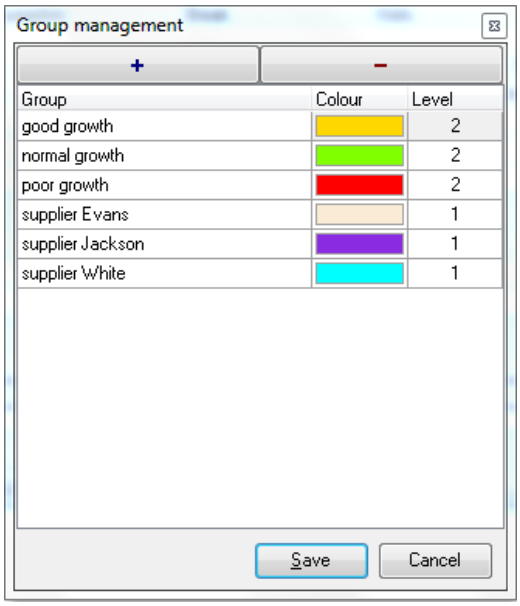
7.1.3.3 Monitoring groups

As a tool for the improved monitoring of animals, KalbManagerWIN provides you with the option of configuring any number of monitoring groups. You can thus have your animals displayed in the overview of the animals separated by different colors, e.g. according to the supplier or the health status. You can also filter by group membership.

Setting up monitoring groups

Firstly you need to configure the monitoring groups required. Proceed as follows:

1. Click on **Group management** or click on the menu point **Settings > Group management** to open the **Group management** window:



2. Click on the **+** button to insert a new row for another monitoring group in the table. Enter the name of the group in the **Group** column. You can use the **Color** column to determine how animals belonging to this group are colored. Finally, enter the priority for the color in the **Level** column. This column is used if an animal belongs to several groups, thus having contradictory color values.

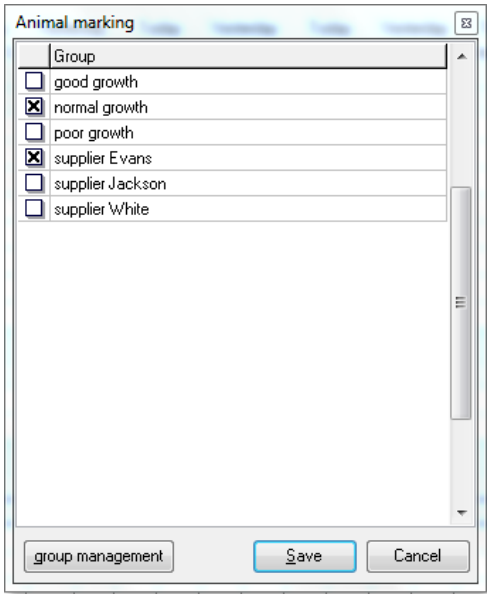
   For example: An animal belongs to the **Supplier Selz** group (blue color) but also to the **Extreme growth** group (yellow color). Since the value level of the **Extreme growth** group is 2 and thus higher than the **Supplier Selz** group (value: 1), the animal is highlighted in yellow.

3. Click on the **Save** button to permanently save the changes to the monitoring groups.

Adding animals to monitoring groups

Proceed as follows to add animals to the newly created monitoring groups:

1. Select one or more animals in the **Overview of the animals** window.
2. In the **Overview of the animals** window select the **Add to/cancel from monitoring group** button symbol. A window opens entitled **Animal marking**:



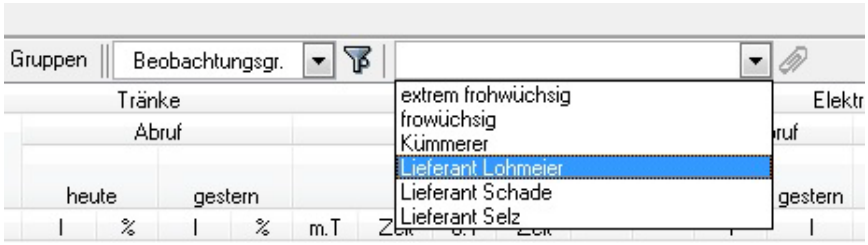
3. In this window, click on the checkboxes of those monitoring groups to which you want to assign the animal.
4. Click on the **Save** button to add the marked animals to the selected monitoring groups. Then, the **Animal marking** window closes and you are taken back to the 'Overview of the animals' window. If you have specified colors for the groups, the rows with the corresponding animals are now highlighted in color.

   Note: You can also remove the animals again from a monitoring group by de-selecting the checkbox next to the monitoring group and saving this change.

Filtering by monitoring group

In addition to highlighting them in color, the monitoring groups that you defined may also be used as a filter criterion:

1. There is a selection field in the **Overview of the animals** window to the left of the button symbol. If you click on this selection field, all predefined monitoring groups are displayed:

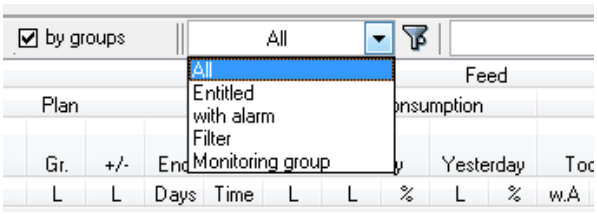


2. Select the monitoring group by which you want to filter the animals. Then, only those animals are displayed that were assigned to the selected monitoring group. In the selection field to the left of the button symbol the **Monitoring group** text is now displayed to inform you that a corresponding filter has been specified.

Resetting filters

To reset a specified filter by monitoring group, proceed as follows:

1. In the selection field to the left of the button symbol, select the option **All**:



2. This has the effect that all animals are displayed again, regardless of whether the animals belong to a specific monitoring group.

7.1.4 Table views

7.1.4.1 Preset table views

You can adjust the overview tables entirely according to your requirements. For example you can hide table columns for a better overview, or have columns displayed, for example if you have subsequently connected a concentrate feeder.

Six basic tables are available for selection at the bottom left below the stack of tabs. Each individual table is for a specific area and can still be adjusted individually. The following tables are available:

- Consumption
- Feed & drinking speed
- Concentrate
- Feeding behavior
- Feeding behavior
- Consumption

Each of these tables can be additionally varied according to your requirements using **Adjust display**.

These columns can be displayed in all tables.

- The animal number of the calf is displayed by default in the **Calf** column. The corresponding transmitter number, the ear tag number and the housing and release dates can be listed for the calf as an option.
- Depending on the calf feeder, up to four feeding stations can be connected for which a number was specified in each case during their registration on the feeder (see operating manual for calf feeder). The **S** (=**Station**) column shows you the station last used by the calf for feed consumption.

- The **Feeding days** column shows which day of the feeding plan the calf currently is.

  The +- character next to the number indicates that correction days have been entered for this calf.

Consumption view

This table is the one that is most comprehensive. It provides you with the most important data on the consumption behavior of the calves at a glance.

- The **Feed** column is divided into various different columns that are repeated under **Concentrate**.
  - **40FIT:** If a check is set the calf is within a 40FIT period.
  - **Status:** This column indicates that the animal is an alarm animal, in addition to the color indication. You can also see which animals are still entitled to feed.
  - **Alarms / Expiries:** (A/E) whether and how many alarms were triggered is displayed in these columns and how many expiry dates are pending for the calf. If an animal has triggered an alarm, the row is additionally displayed in red text.

    Note: Which alarms or expiries apply can be found in the individual animal data under Alarms or Expiries (A/E tab).
  - **Plan:** This column displays how many liters of milk are available to the calf for the current day according to the plan.
  - **Entitlement:** The calf feeder is programmed so that it feeds the daily amount for a calf in intervals. How much milk a calf receives per portion and how much can be saved is specified in the quantity limitation plan. The **Time** column contains the time since when the calf is entitled to the feed quantity in the **liters** column. If the **Liters** column does not have a feed quantity, that means that the calf is not entitled to feed up to this time.
  - **Consumption:** The columns under **Consumption** show how much feed the calf has consumed during the current day and during the current interval. The quantity specified in liters is the absolute feed quantity consumed during the day. The percentage value next to it indicates the entitled percentage for the interval. For a quick comparison, the total quantity and the percentage of the daily amount for the previous day are displayed under **Yesterday**.
- The **Additive** column is divided into Dispenser 1 and Dispenser 2. If an additive is administered, the corresponding column contains the code for the prescription used (R1 to R4 or EL for electrolyte).
- The column **Electrolyte** shows the actual consumption in liters today and yesterday, and consumption in liters per visit today and yesterday.

Feed & drinking speed view

The **Feed & drinking speed** overview table is particularly suitable if a concentrate feeder is not connected.

- Under **Feed**, two columns have been added to the **Plan** area. In addition to the planned quantity in liters (Gr.), the deviations are displayed in liters (+/-) and the end of the plan in days.

- Under **Break**, you can see how often a calf stopped feed consumption on the current day and on the previous day. In addition, the breaks depend on whether the calf receives an additive or not (w.add. / wo.add.).
- The **Drinking speed** informs you whether the calf is drinking properly or only hesitantly. That could be a first indication of bad health of the calf. The drinking speed of the current day and of the previous day is displayed in L/min or in percent of the individual average animal.

Concentrate view

This table view is only for the consumption of concentrate. Concentrate types 1 and 2 are displayed instead of the feed. Like for the feed, the plan, entitlement and consumption are documented in detail for each type.

Drinking behavior / feeding behavior view

The **Drinking behavior** and **Feeding behavior** views deal only with the animal's behavior. The focus is not on the consumed quantity, but on the frequency and duration of the visits, regardless of whether feeding took place or not.

Consumption view

The table view **Consumption** concerns the consumption values of milk (in liters), milk powder (in kg), concentrates (in kg) and additives (in g).

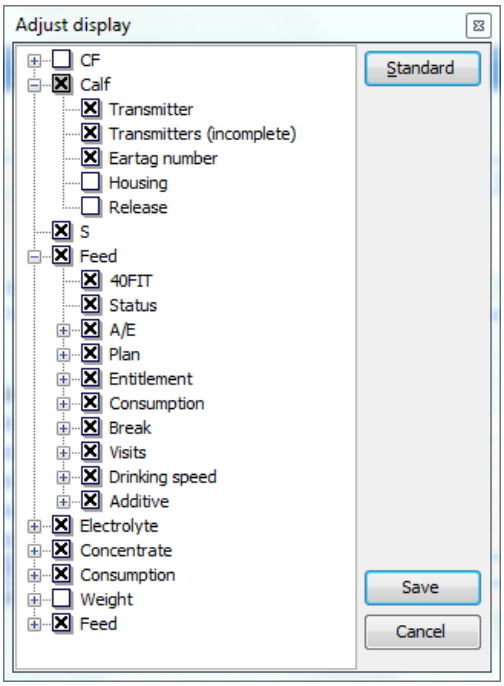
View all

This view gives an overview of all available columns and data.

For more specific information, it is advisable to give the tables a clearer structure.

7.1.4.2 Customizing views individually

In the Overview of the animals window, click on the **Adjust display** button symbol under the stack of tabs for the registered feeder(s). The following **Adjust display** window appears:



This window has a structure tree, the lines of which each represent one of the table columns that can be displayed. Subordinate columns are to be found under the corresponding higher-level column, following the structure. If one or more subordinate columns are not visible, click on the plus sign in one of the small boxes on the dotted structure line. That adds the subordinate columns to the structure tree. If the checkbox to the left of the column name is given an x, this column is displayed. You can remove the x by simply left-clicking on it. The column is then hidden from view. Grey boxes indicate that only some of the columns of the subordinate item in the structure tree were selected.

By clicking on the Standard button, the view is reset to its original state.

Saving user-defined views

You can save frequently used views as user-defined views. These user-defined views make it easier to switch between views used regularly.

To save a user-defined view, proceed as follows:

1. Create a view according to your requirements. Define the columns to be displayed and define any filters for the animal view.

   In the Overview of the animals window, click on the **Save view as** button symbol.

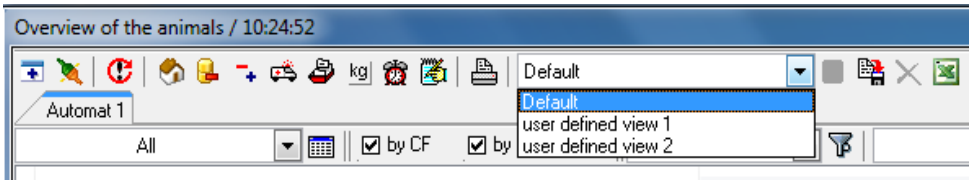
2. A window opens entitled **Save view**. Enter the name of the new view to be created.

3. Click on the OK button to save this view permanently.

Note: Use the **Save view** button to overwrite a view already created. You can use the **Delete view** button to delete existing views.

Opening user-defined views

1. There is a selection field in the **Overview of the animals** window to the left of the button symbol. If you click on this selection field, all user-defined view are displayed:

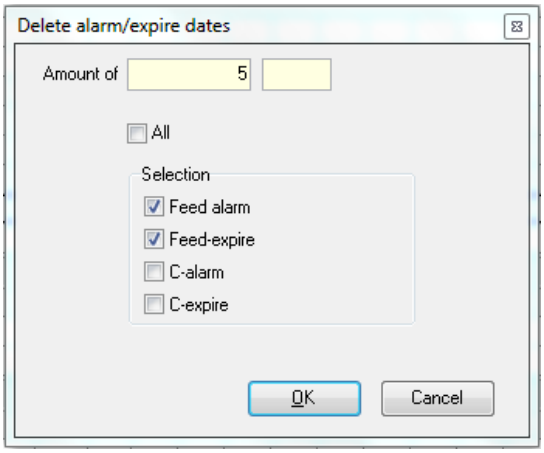


2. Select the view you want to open. The selection is then displayed immediately.

   Note: The Standard view cannot be overwritten, deleted or renamed.

7.1.5 Deleting alarms for a group of animals

1. In the **Overview of the animals** window, select the rows of those calves whose alarms you want to delete.
2. Click on the **Delete alarm/expiries** button symbol on the window's toolbar. As an alternative, you can right-click on any line of a selected animal and select Delete alarm/expiries from the context menu that appears. The following window appears:



3. Select those alarms you want to delete for the animal group. Then click on the **OK** button to delete the alarms.

   Note: If the All CF tab is enabled, the button for deleting the alarms is not available.

7.2 Control of individual animals

The bottom half of the **Overview of the animals** window is for displaying the individual animal data. You can use a stack of tabs on the right to access the following information.

- Calf (see 7.2.1.1 "Calf details" - 66)
- Progression (see 7.2.1.2 "Detailed progression info" - 67)
- Alarms / expiries (see 7.2.1.3 "Detailed info on alarms / expiries" - 67)
- Setpoint (see 7.2.1.4 "Detailed info on setpoints" - 68)
- Graphics (see 7.2.2.2 "Integrated graphic in the 'Overview of animals window'" - 70)
- Notes (see 7.2.1.5 "Notes" - 68)

If you click on a calf in the overview, the data for this calf is displayed on the tabs.

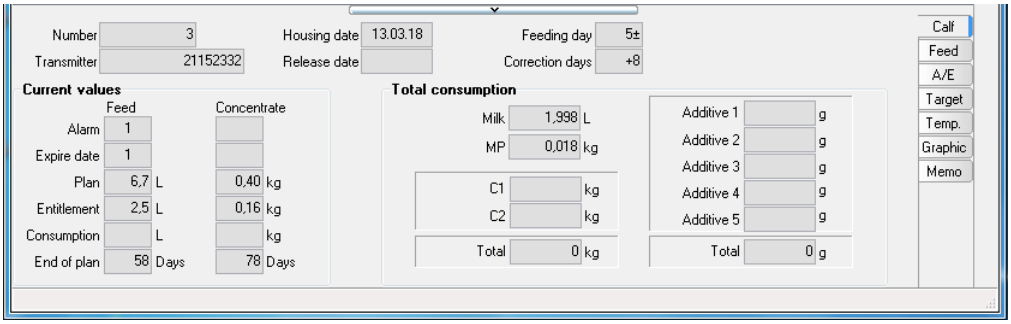
The window section with the individual animal data can be closed and opened separately. To do this, click on the thin colored bar at the top of the window section.

7.2.1 Overview tables

7.2.1.1 Calf details

This tab gives you basic information on the selected calf. The animal and transmitter number, the housing date and the current feeding day are displayed. They only appear in the **Correction days** field if they were entered. The release date is only displayed when the calf is deleted. In

addition, the alarm, expiry date, plan, requirement, consumption and end of plan data is displayed in brief form for feed and concentrate. Information on the entire feed consumption of the selected calf since the housing day is displayed next to this data.

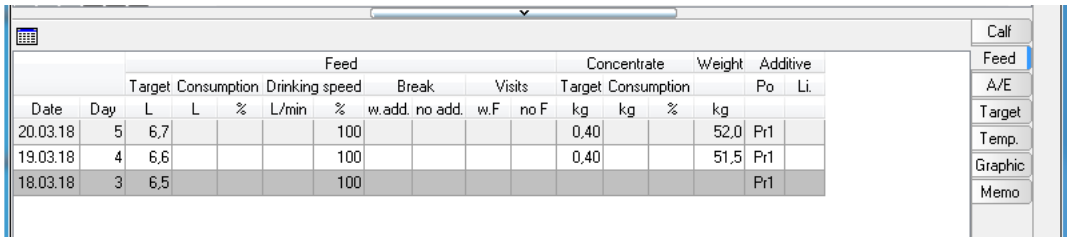


7.2.1.2 Detailed progression info

This tab gives you information on the current feed consumption of the selected calf. It includes all data on the following:

- the planned feed or concentrate that the calf receives and the target quantity that it may consume if residual quantities were saved.
- the day's feed consumption in liters and percent of the planned quantity.
- the drinking speed in l/min and in percent.
- the drinking breaks with and without additive administered.
- the feeding station visits with and without feed consumption.
- the dispensed additive prescriptions.

The table of this detail also displays the housing weight that you entered during registration. If scales are installed, the current weight is displayed every day and the change is calculated from the difference to the previous day. You thus have a good overview of the development in weight of your calves.



7.2.1.3 Detailed info on alarms / expiries

If the selected animal is an alarm animal, the alarm type is displayed on this tab. In the **Feed alarms** area, in addition to the familiar reasons for an alarm (feed consumption, drinking speed and breaks), the following is also available:

- Powder additive too high
- Powder additive too low
- Liquid additive too high

The corresponding alarm is indicated by a check, which is displayed for the current day and the previous day.

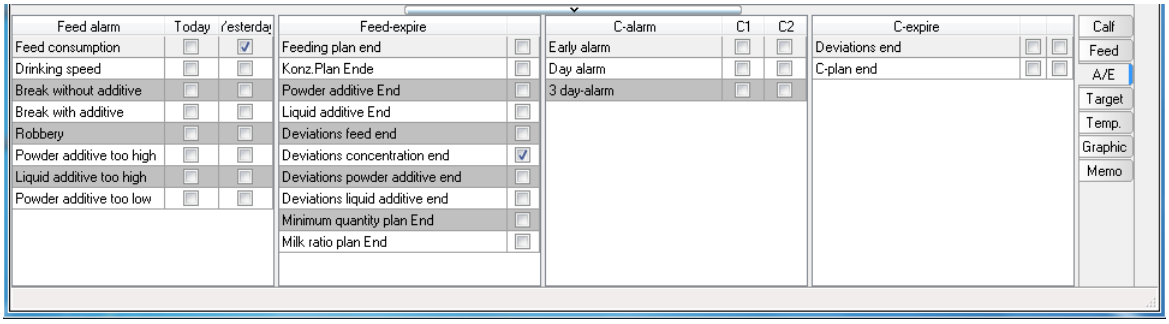
There are 3 alarm types in the **Concentrate alarms** area

- Early alarm
- Day alarm
- 3 day-alarm

These alarms are also indicated by checks for the corresponding concentrate.

The expiry dates are listed separately, similar to the alarms for feed and concentrate. Like the wide range of settings in the plans, there is also a wide range of options of them ending.

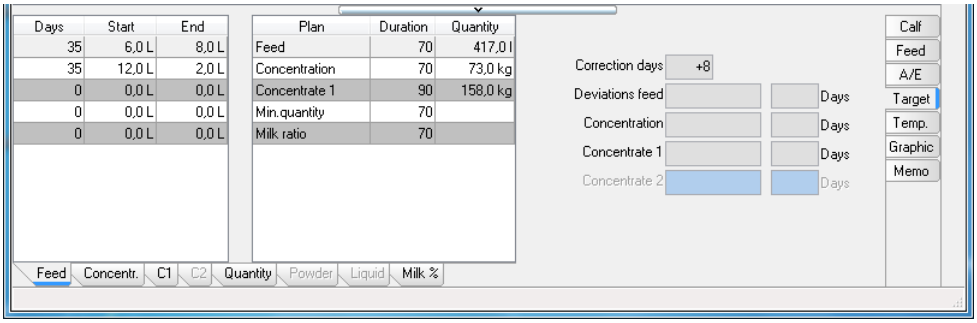
The overview table displays the number of expiry dates. You can see here which of the set plans is now coming to an end.



7.2.1.4 Detailed info on setpoints

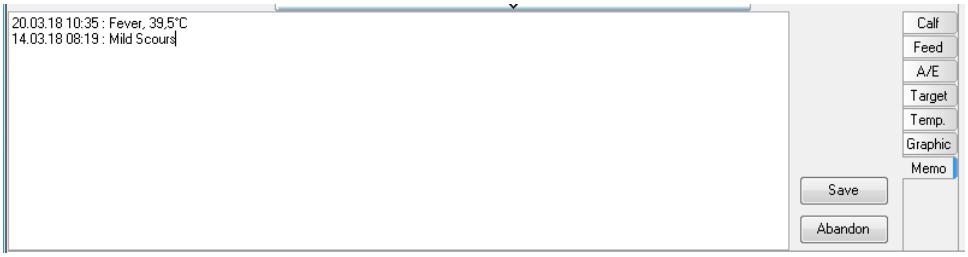
You can use this tab to view all plans that have been set for the selected calf. There is another stack of tabs at the bottom of the detailed view that can be used to select the individual plans.

The calf's correction days are displayed on the right side of the tab, as well as any deviations specified. Changes can no longer be performed.



7.2.1.5 Notes

If you select this tab, all notes are displayed that have been entered for the selected calf.



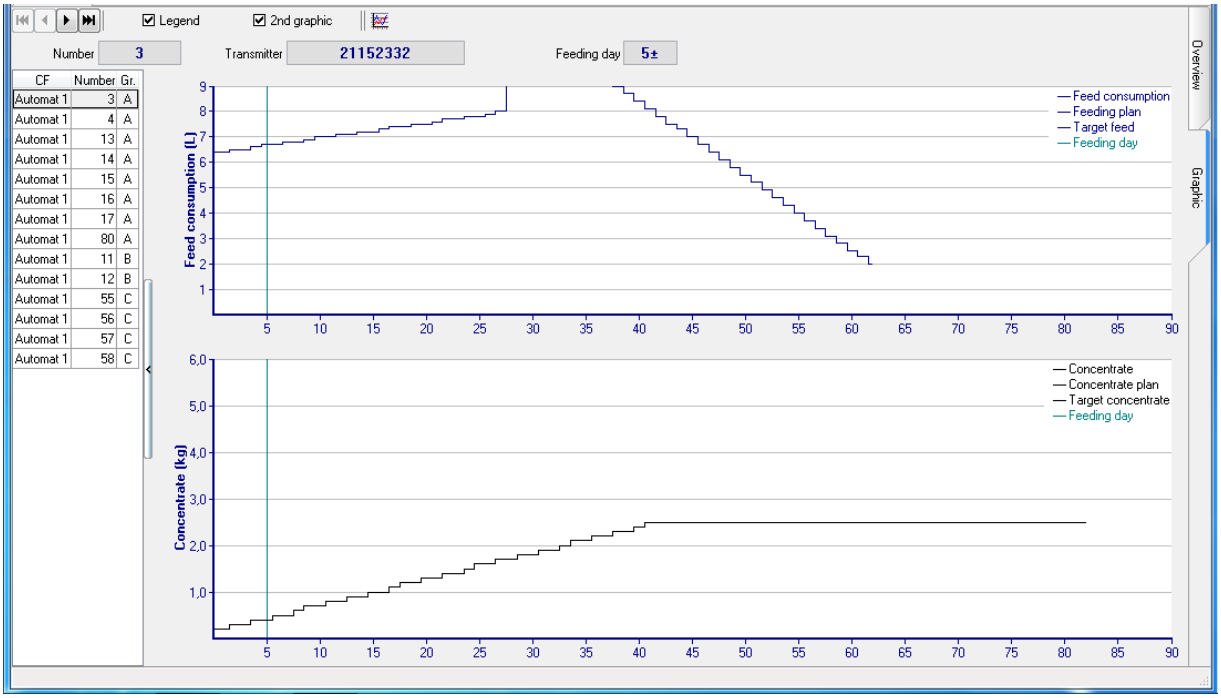
Note: KalbManagerWIN permits notes to be entered for individual animals as well as for several selected groups of animals (see 5.3.6 "Entering notes" - 46).

7.2.2 Graphical overview

7.2.2.1 Full screen mode

Graphical view

The development curves of the calves can be displayed individually for each calf on one to two graphics. For this, click on the **Graphic** tab on the stack of tabs on the right side of the **Overview of the animals** window.



You can customize the graphics according to your individual requirements (see "Customizing the graphical view" - 69).

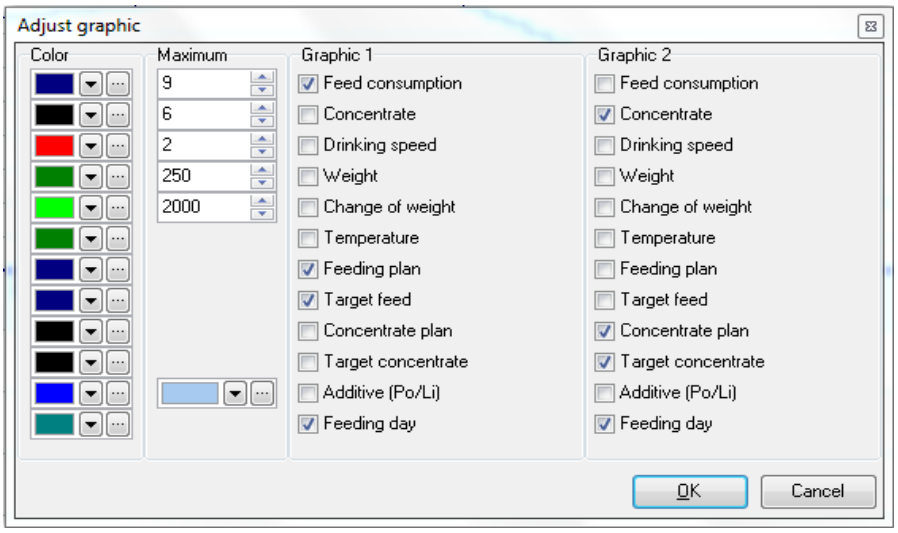
You will get a good overview if you split up the information you want to display into two graphics.

For example: The table at the top shows feed consumption and the one at the bottom concentrate consumption.

If you click on the graphic directly, a cross-hairs appears, which you can drag over the entire graphic, keeping your mouse button pressed. That makes it easier for you to read off the coordinates. After clicking on the graphic, you can use the scroll wheel on your mouse to modify the scale setting for the x-axis of the coordinate system and thus increase or reduce the size of the bar graph. That might make it easier to read. A vertical, colored line indicates the calf's feeding day.

Customizing the graphical view

Click on the **Customizing graphics** button symbol in the upper part of the graphics window. As an alternative, you can right-click on the graphic and then select 'Adjust graphic' from the context menu that appears. The following window appears:

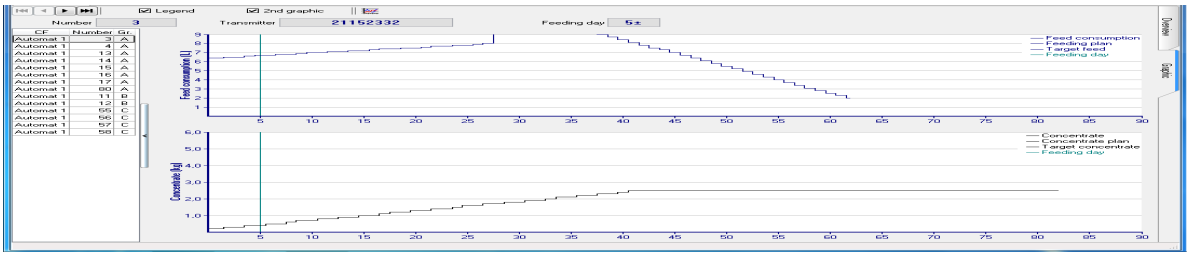


You can use this window for the following:

- to define separately for graphics 1 and 2 what data are to be displayed. To do this insert a check in the corresponding line.
- In which color the curve or bar is to be displayed.

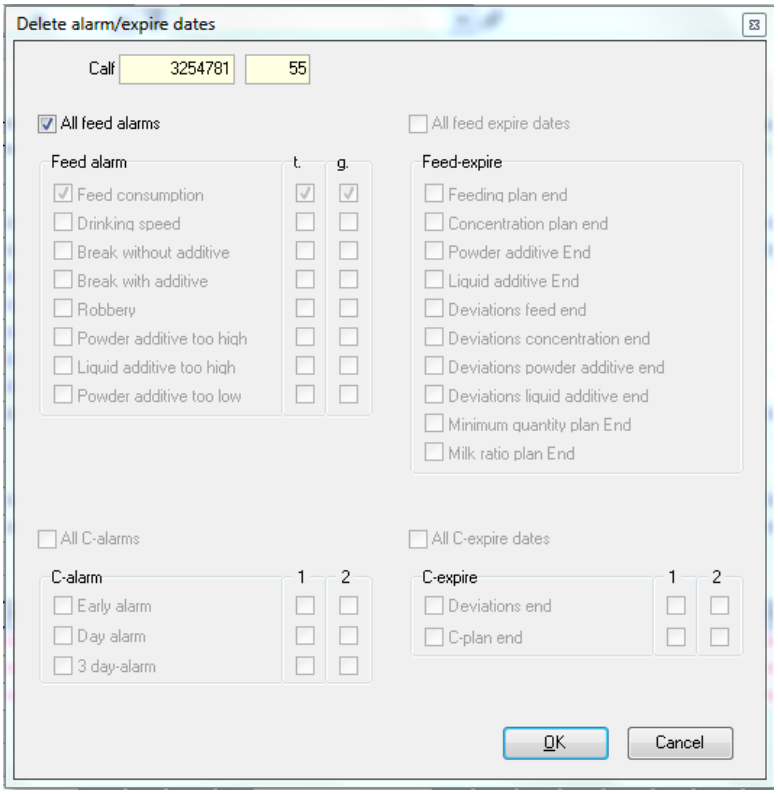
7.2.2.2 Integrated graphic in the 'Overview of animals window'

In addition to full-screen mode, graphics can also be displayed for the individual animals in conjunction with the list of animal data in the **Overview of the animals** window. For this, click on the details area of the **Overview of the animals** window on the **Graphics** tab at the far right. The animal data of the selected calf is now displayed graphically in the Details area. The **Customizing graphics** button symbol in the upper part of the graphics window can be used to customize the display options:



7.2.3 Deleting alarms for an individual animal

1. Select the calf whose alarm(s) you want to delete from the **Overview of the animals** window.
2. Click on the **Delete alarm/expiries** button symbol on the window's toolbar. As an alternative, you can right-click on any line of a selected animal and select Delete alarm/expiries from the context menu that appears. The following window appears:



3. Select those alarms you want to delete for the animal. Then click on the **OK** button to delete the alarms.

   Note: If the All CF tab is enabled, the button for deleting the alarms is not available.

8. Brief instructions

Registering a calf feeder
Have the calf feeder(s) connected by the service technician.
Make a note of the IP address of the gateway/smart.
Click on **Calf feeder > CF register/cancel**.
The **Settings** window appears. Click on **Register**.
Select the type of connection (**Gateway/smart / Förster USB / serial**).
Gateway/smart: Check the **setup of the feeder to be registered** for communication with the PC as to whether **CAN** was specified as the communication type.
Gateway/smart: Select **Automatic search (gateway/smart)**. If your feeder is not displayed immediately, double-click on an inactive gateway symbol and enter the IP address of your gateway/smart.
Double-click on the line with the CAN address of your feeder.
System **gateway/smart register/change**. Check the CAN address of your feeder and enter a name for the system.
Set the interval for data exchange.
Click on **Save**.
The calf feeder is now registered. After a short time, initial first data exchange takes place.

Deactivating / activating the calf feeder
To permanently cancel the feeder: Click on **Calf feeder > CF register/cancel**
Select the line with the feeder to be removed and click on the **Cancel** button on the toolbar.
To remove the tab for the feeder in the overview of the animals: Click on **Settings > Program settings**
Click on the **Deactivate machine** tab and remove the check to the left of the registered feeder in the **Active** column.
Click on **Save**.
The feeder is now disabled in the overview of the animals. As soon as successful data transfer to this feeder takes place, the tab with the feeder is automatically enabled again.

Entering / removing transmitter numbers manually to/ from the list of all transmitters
Entering the transmitter numbers: Click on  the **List of all transmitters** button in the toolbar or select **Calf > List of all transmitters**.
The **List of all transmitters** window appears. In the first row of the table, click on the second **Number** column and enter the **animal number** to be registered.
Press the tab key to switch to the third **Transmitter** column. Enter the **transmitter number** to be registered.
Confirm your entries by pressing the **Enter** key. The combination of transmitter and animal number entered is now available in the list of all transmitters.

Removing the transmitter numbers: Right-click on the gray line of a deleted animal associated with the transmitter number to be removed. Select Delete transmitters from the context menu.
In the **Remove the transmitters from the transmitter pool** window, click on the Transfer button.
The transmitter is deleted from the list of all transmitters. At the same time, all feeders are checked for the existence of this transmitter number there. If it does, the number of the corresponding feeder is deleted.

Reading in transmitter numbers from the list of all transmitters
Click on the **List of all transmitters** button in the toolbar or select **Calf > List of all transmitters**.
The **List of all transmitters** window appears. Click on the **Read in transmitters** button on the toolbar.
The **Read in transmitter from text file** wizard appears. Enter the **file name** of the .csv file with the transmitter numbers and the **delimiters** and **separators** used in the file and click on the **Next** button.
Specify the **allocation** for **animal number** and **transmitter number** and click on the **Next** button.
In the next window, check the **list of animal and transmitter numbers to be imported** and complete the import by clicking on the **Save** button.

Registering animals
Click on the **List of all transmitters** button in the toolbar or select **Calf > List of all transmitters**.
Use your mouse to select one or more lines of canceled animals displayed in gray.
Click on the **Register animal** button on the toolbar or select **Register animal** from the context menu.
In the **Register animals** window, check the settings proposed for the registration for **group**, correction days and **weight** and click on **Next**.
In the next window, check the list of animal and transmitter numbers to be registered and complete the registration process by clicking on the **Transfer** button.

Canceling animals
Click on the **List of all transmitters** button in the toolbar or select **Calf > List of all transmitters**.
Use your mouse to select one or more lines with canceled animals.
Click on the **Cancel animal** button on the toolbar or select **Cancel animal** from the context menu.
In the next window, check the **list of animal and transmitter numbers to be canceled** and complete the cancellation process by clicking on the **Transfer** button.

Changing the registration of animals
Click on the **List of all transmitters** button in the toolbar or select **Calf > List of all transmitters**.
Use your mouse to select one or more lines with registered animals.
Click on the **Changing the registration of animals** button on the toolbar or select **Changing the registration of animals** from the context menu.
Select the **new group** or the **target feeder** on which you want to change the registration of animals.
In the next window, check the **list of animal and transmitter numbers to be changed** and complete the change process by clicking on the **Transfer** button.

Deviations
Select the animals from the **Overview of the animals**.
Click on Click on **Deviations** or select **Deviations** from the context menu.
Enter the correction days, deviations of feed, concentration or concentrate quantity according to your requirements.
Click on **OK** to complete the process.

Specifying and administering prescriptions
Administering prescriptions: Click on **Prescriptions** or **Calf feeder > Prescriptions**.
On the right, select the prescription for which you want to define settings and then enter the **dispenser**, the **type of dosage** and the **distribution of the prescription**.
For the individual **periods** of the prescription to be defined, enter the **number of days** and the **start quantity** and **final quantity**.
Once you have defined the settings for the desired plans, click on the **Send data to the machine** button in the toolbar.
Administering prescriptions: Select one or more animals from the **Overview of the animals**.
Click on the **Administering prescriptions** button on the toolbar or select **Administering prescriptions** from the context menu.
Select the desired prescription or the desired administration of electrolytes.
If necessary, enter any changes to the quantity administered for the prescription in **Deviations**.
Click on **OK** to complete the process.

9. Appendix

9.1 Overview of the installation (template)

No.	Name of the feeder / location	Type of connection	IP address of gateway smart	Machine no. Feeder	CAN address of the feeder	CAN address of the terminal
1.						
2.						
3.						
4.						
5.						
6.						
7.						
8.						
9.						
10.						
11.						
12.						
13.						
14.						
15.						
16.						
17.						
18.						
19.						
20.						

9.2 System overview (reserve template)

No.	Name of the feeder / location	Type of connection	IP address of gateway smart	Machine no. Feeder	CAN address of the feeder	CAN address of the terminal
1.						
2.						
3.						
4.						
5.						
6.						
7.						
8.						
9.						
10.						
11.						
12.						
13.						
14.						
15.						
16.						
17.						
18.						
19.						
20.						

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