FlashManager Plus

1 Introduction

These mounting instructions put you in the position to successfully install and operate the **Flash Manager Plus** as intended.

> Please read these mounting instructions carefully before installing the **FlashManager Plus**.

> Keep these mounting instructions readily available at all times.

> Observe all of the warnings and safety instructions in these mounting instructions at all times.

2 For your safety

2.1 Target group

2.1.1 Necessary qualifications of the service technician

Solely trained service technicians are authorised to install the program **FlashManager Plus**.

Service technicians are electricians with appropriate qualifications, i.e. they are able to assess the work assigned to them and detect potential risks on the basis of their technical training as well as their knowledge of the relevant standards. This also includes the knowledge of relevant accident prevention regulations, generally accepted safety regulations, EU guidelines and country-specific standards and provisions.

2.2 Intended use of the FlashManager Plus

FlashManager Plus is to be used to update the program of: **Vario, Compact (32-bit), Hand-held terminal, IFS, Gateway, Multilyser, Milk trolley (MilchMobil).**

2.3 Indication of hazards

Dangers are indicated by a key word and a corresponding sign, depending on the severity and probability:

	Danger! For an imminent danger, resulting in serious injuries or death.

	Warning! For a potentially dangerous situation which may cause serious injuries or even death.

	Caution! For a potentially dangerous situation which may cause minor injuries or material damage.

Attention	For a potentially harmful situation in which the product or an item can become damaged within its environment.

Note	For application notes and other useful information.

However, it is just as important to observe any other notes and information which are not highlighted to avoid failures which, in turn, may cause direct or indirect injuries or material damage.

3 Overview of the overall installation

The overall installation of the **FlashManager Plus** consists of the steps below. Please note that **step 1 and 3** are to be carried out **only once**:

1. Run the installation file **InstallerFlashManagerPlus.exe**.

2. Connect the **USB-update-cable** to the PC/notebook.
3. Install **two** device drivers.
4. Establish a connection between PC/notebook and device.

3.1 Running the installation file

Note	Before starting to install the program, you must always download the **latest version** of the **FlashManager Plus** from the dealer area (Software-Updates“) of the **Förster-Technik-website** (www.foerster-technik.de).

System requirements for installation

Operating systems: Windows XP, Windows Vista, Windows 7 (32 and 64 bit).

FlashManager Plus urgently requires Microsoft .Net 4.0 Client Profile. If this profile is not installed on your PC/notebook, it will automatically be installed during the **FlashManager Plus** installation.

Note	To install the **FlashManager Plus** on a PC/notebook etc., **administrator rights** are compulsory.

For installation proceed as follows:

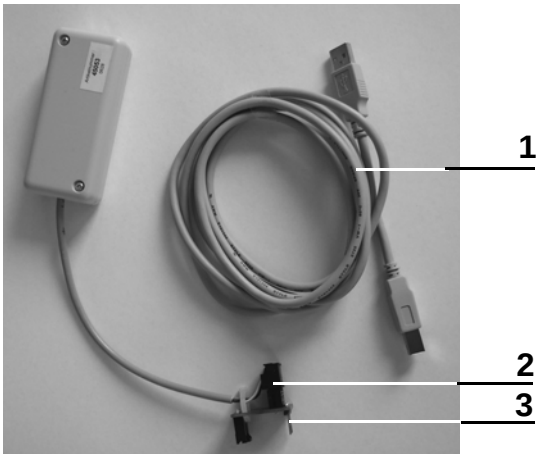
1. Double-click the file **InstallerFlashManagerPlus_xx_V_x-xx.exe**. (The x-characters are intended as place holders and stand for the version).
2. Select the language for installation.
3. Follow the instructions on the screen until the installation of **FlashManager Plus** has been completed.

3.2 Connecting the USB-update-set/adapter to the PC/notebook

To update the program of e.g. an automatic feeder from Förster-Technik, a cable-based connection betwee the control of e.g. the automatic feeder and the PC/**FlashManager Plus** must be established. To do so, a USB-update-set is required.

To update the gateway, a null modem cable is required. If your PC is not equipped with a 9-pole D-SUB connector, an additional serial USB-adapter (see **3.2.2** Null modem cable and serial USB-adapter for gateway, page **5**) is required. You can order the cable as well as the USB-adapter from Förster-Technik.

3.2.1 USB-update-set for Vario, Compact (32bit), hand-held terminal, IFS, Multilyser, MilchMobil

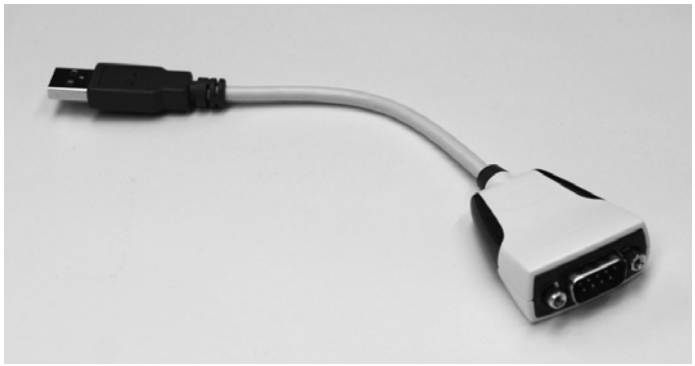


1	USB-update -cable for connection to the PC and the USB-box
2	4-pole connector (black, big)
3	Interface board

3.2.2 Null modem cable and serial USB-adapter for gateway

3.2.2.1 Null modem cable

3.2.2.2 Serial USB-adapter



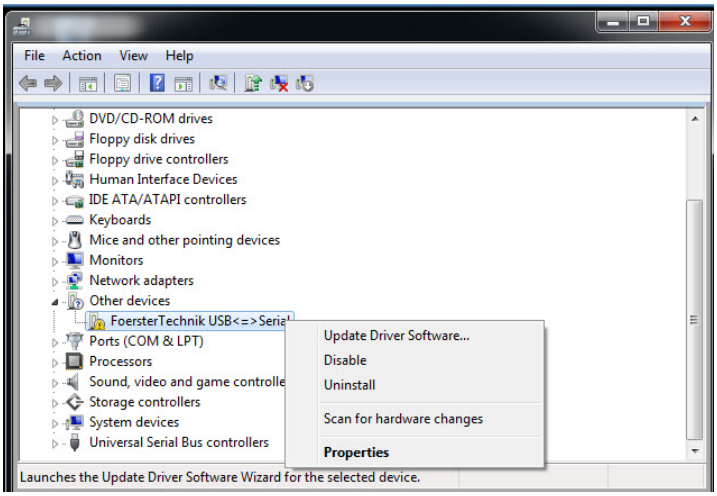
3.3 Installing the drivers

Before using the USB-update-set resp. the serial USB-adapter, you must install **two** drivers (**USB-driver** and **virtual COM-port-driver**) on your PC/notebook in two separate installation processes. To do so, administrator rights are compulsory.

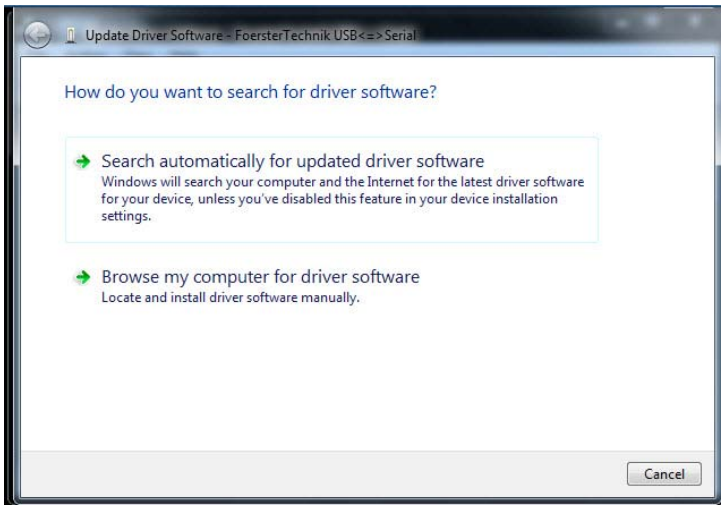
Note	The following description and screenshots are based on the assumption that your operating system is **Windows 7**. If you have a different operating system, the steps to be carried out may differ from the ones described here.

To install the **USB-driver**, proceed as follows:

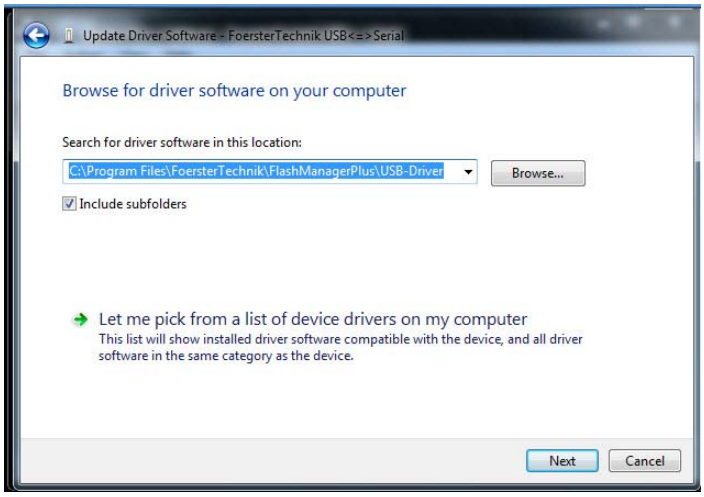
1. **Step 1 is not valid for the gateway**: Connect the USB-update-cable to the USB-box.
2. Insert the USB-update-cable resp. the serial USB-adapter into the USB-slot of the PC/ notebook. A window containing the message that the driver has not been found may appear. Close this window.
3. Move to the **control panel** of your PC/notebook and select the **device manager**.
4. In **other devices** right-click **Foerster-Technik USB <=> Serial** and then click **Update Driver Software.**



5. The window below is displayed. Click **Browse my computer for driver software**.

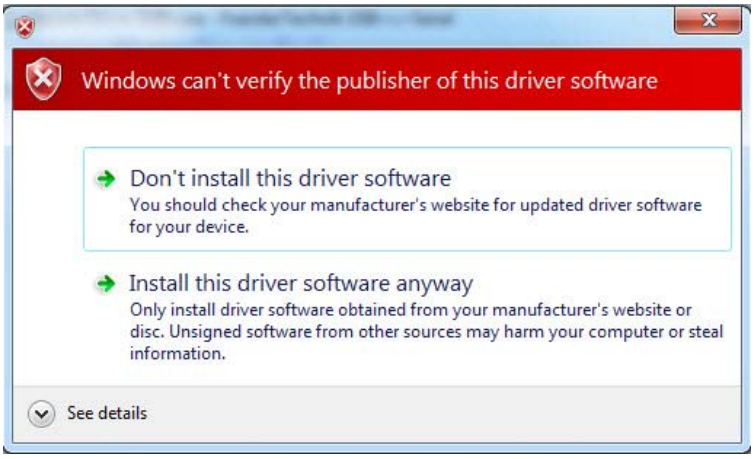


6. The window below is displayed. Click **Browse** and select the directory which contains the driver software. You will find the drivers in the directory **„USB-Driver“** in the root directory of the FlashManager Plus-installation. The default path is: **c:\Program files (x86)\FoersterTechnik\FlashManagerPlus\USB-Driver**. Click **Next**.



Note	The term (x86) after Program Files is only displayed in case of Windows 7 with 64 bit.

7. The window below is displayed. Click **Install this driver software anyway**.



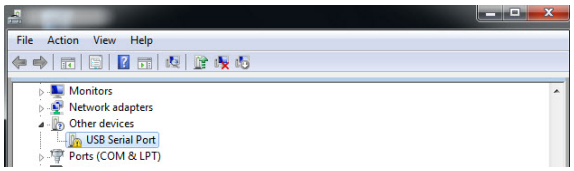
8. If the driver has been successfully installed, the window below will be displayed. Click **Close.**

Now the **virtual COM-port-driver** must be installed.

To install the **virtual COM-port-driver**, proceed as follows:

1. Move to the **control panel** of your PC/notebook and select the **device manager**.

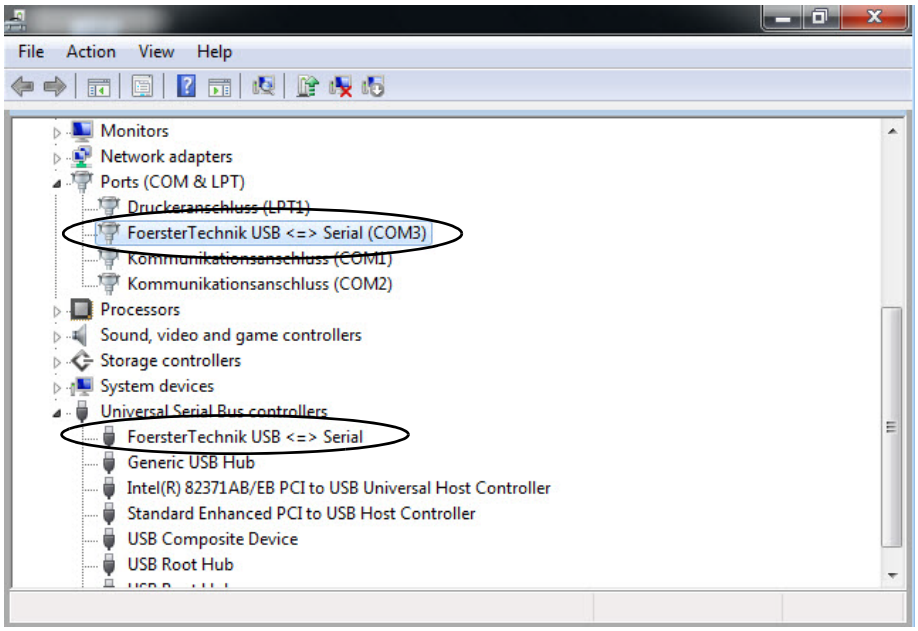
2. In **other devices** right-click **USB Serial Port** and then click **Update Driver Software.**



3. Proceed as for the installation of the **USB-driver**.

Note	**Do not stop the installation process!** The installation is only complete once you have installed **both** drivers!

If the driver has been successfully installed, both drivers will be displayed in the **device manager** as below.



Note	The number of the COM-port may vary.

3.4 Establishing the connection between PC/notebook and device

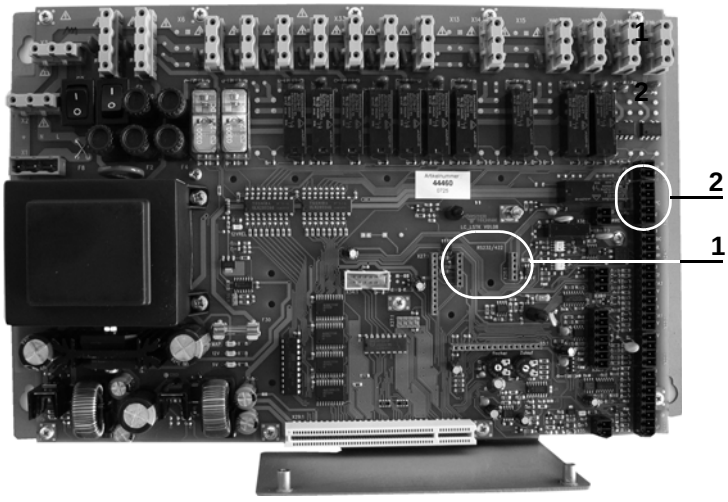
Warning!

Live electrical components.

Danger of death by electric shock!

- Always pull the mains plug of the device before connecting the connectors or/and interface boards of the update set to the board of the corresponding device.

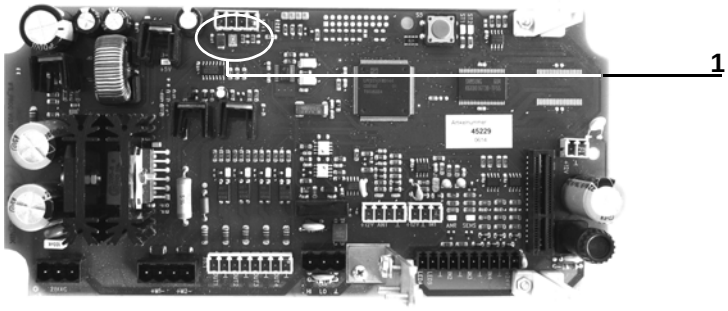
3.4.1 Vario/Compact (32-bit)



1	Slot for the interface board of the USB-update-set and for the interface board RS 232	2	Slot for the 5-pole connector of the D-SUB-update-set; only together with interface board RS 232

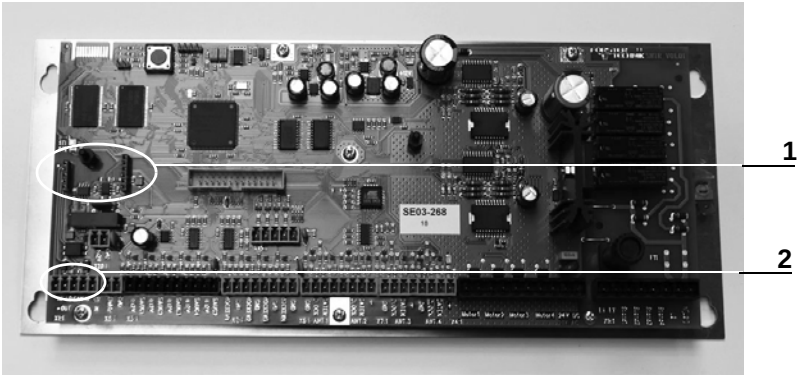
3.4.2 IFS

3.4.2.1 IFS single



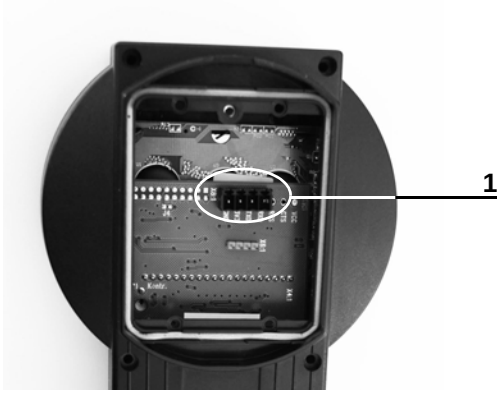
1	Slot for the 4-pole connector of the USB-update-set

3.4.2.2 IFS quadruple



1	Slot for the interface board of the USB-update-set and the interface board RS 232	2	Slot for the 5-pole connector of the D-SUB-update-set; only together with interface board RS 232

3.4.3 Hand-held terminal



1	Slot for the 4-pole connector of the USB-update-set

3.4.4 Gateway

1	Serial RS232 interface (9-pole): Slot for null modem cable for gateway

4 Carrying out the update

This chapter contains exemplary the description of how to update an automatic feeder and an IFS-control.

Warning!
Live electrical components.
Danger of death by electric shock!

- Before starting the update process, secure the control unit such that it does not constitute a hazard to third parties and never leave the unlocked device unattended during the complete update process!

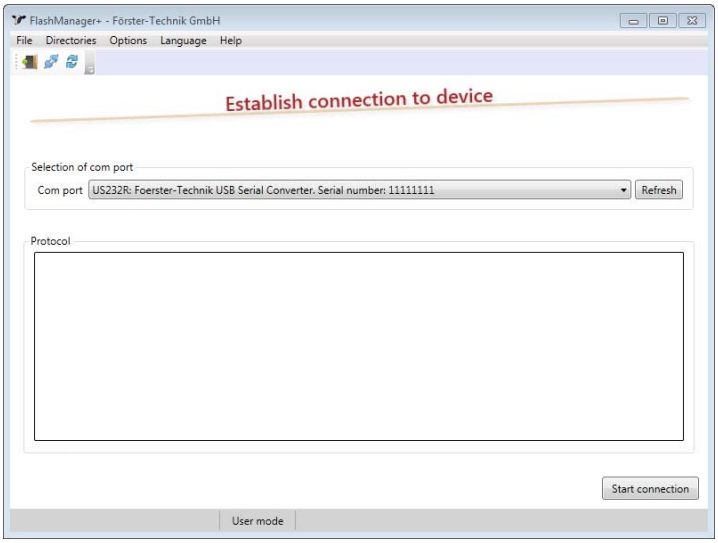
Note	If the starting version of your automatic feeder is < 4 (less than 4), after the update **no** stations will be registered anymore! Therefore, write down the corresponding settings of all registered stations **before** starting the update process.

4.1 Vario und Compact (32 bit)

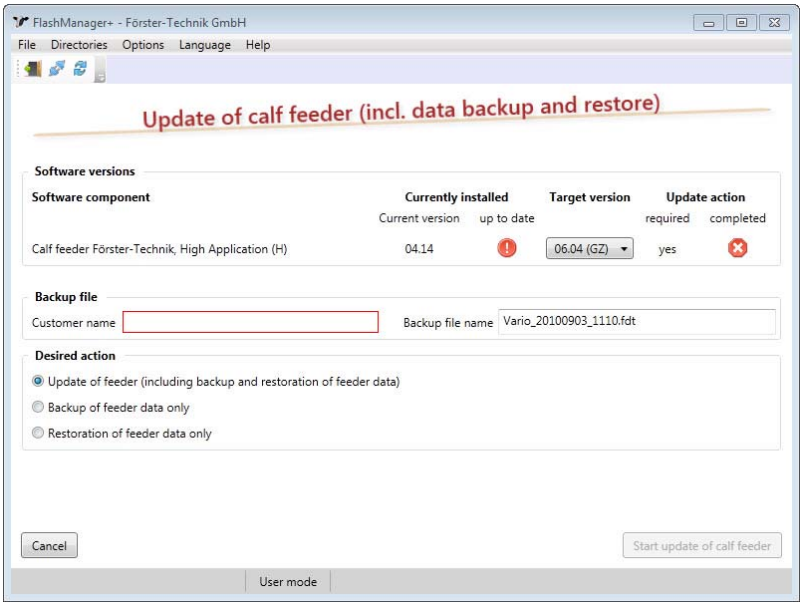
To update the program of your automatic feeder Vario or Compact (32 bit), proceed as follows:

1. De-energize the automatic feeder (power-off).
2. Connect the device to the PC/notebook by means of a cable.
3. Plug in the mains plug of the automatic feeder.
4. Switch the automatic feeder on while keeping the key pressed, until the Setup-menu is displayed.
5. Run the program **FlashManager Plus**. You will find it under **Start** > **All Programs** > **Foerster-Technik** > **FlashManager Plus**.

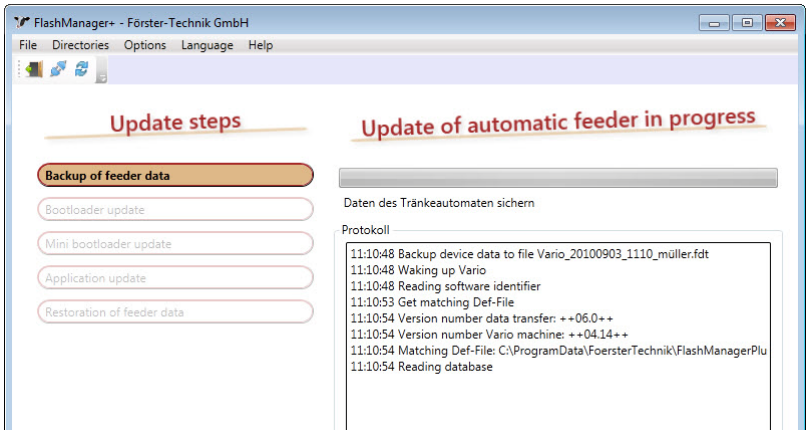
6. The window below is displayed. Click **Start connection**.



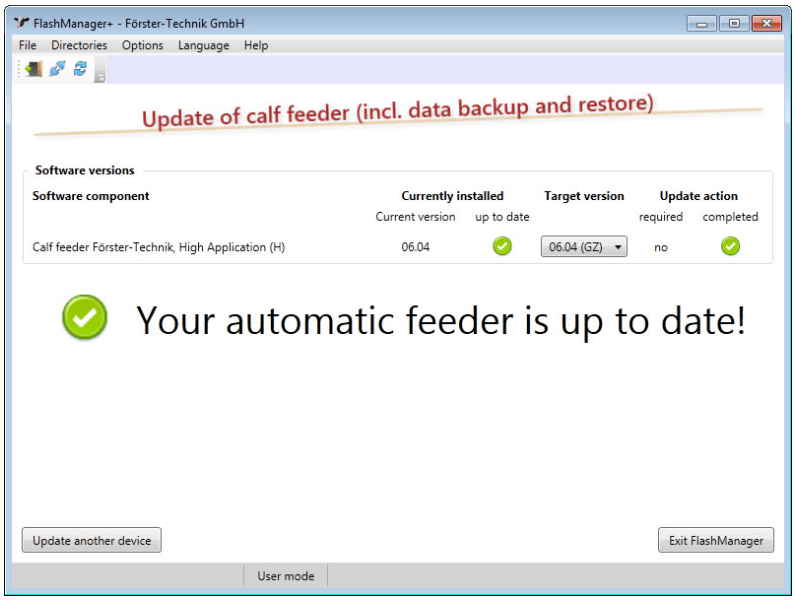
7. The window below is displayed. The current target version will automatically be suggested. Enter the name of the customer into the field marked in red and click the desired action.



8. If you have selected **Update of feeder**, the window below will be displayed. The number of steps to be carried out may vary depending on the starting version of your automatic feeder. As soon as all steps have been carried out, the update is completed. This process may last up to 20 minutes.



9. If the update was successful, the window below will be displayed.

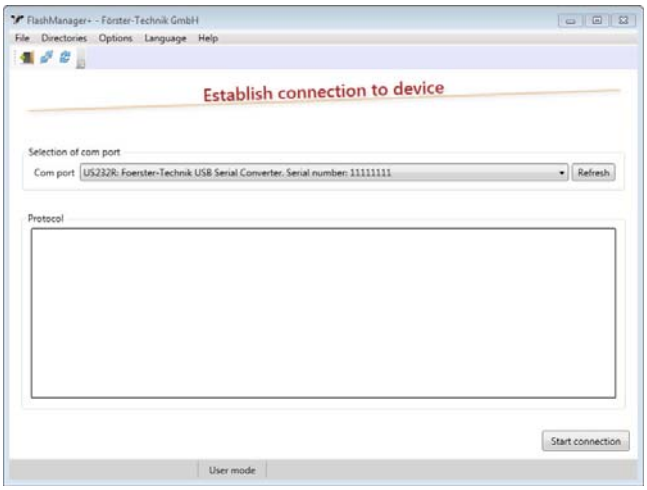


10. Click **Exit FlashManager** to exit the **FlashManager Plus** or click **Update another device** to update e.g. a peripheral device.

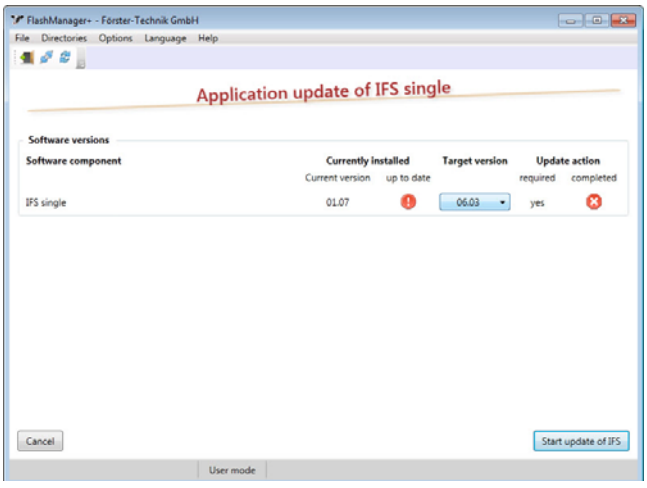
4.2 IFS

To update the program of the IFS-control, proceed as follows:

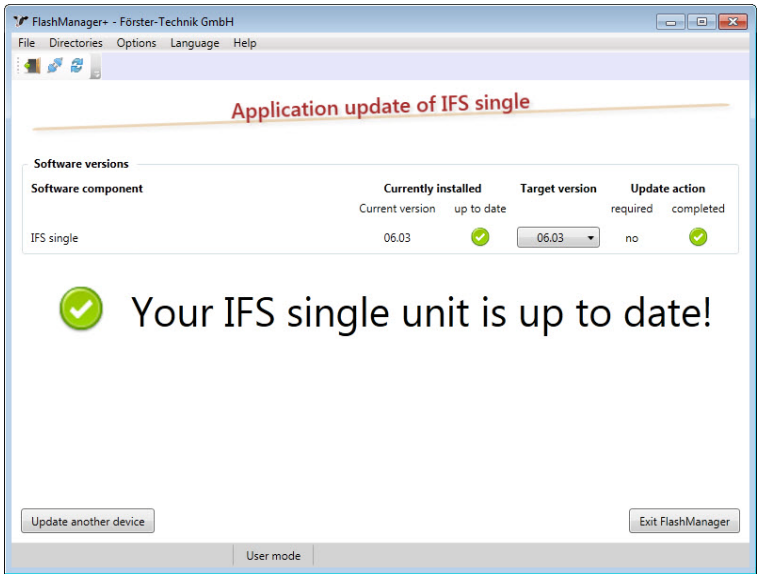
1. Plug in the mains plug of the IFS-control.
2. Run the **FlashManager Plus**. You will find it under **Start** > **All Programs** > **Foerster-Technik** > **FlashManager Plus**.
3. The window below is displayed. Click **Start connection**.



4. The current target version will automatically be suggested. Click **Start Update of IFS**.



5. The number of steps to be carried out may vary depending on the starting version of your IFS-control. As soon as all steps have been carried out automatically, the update is completed. This process may last several minutes. The window below will be displayed.



6. Click **Exit FlashManager** to exit the **FlashManager Plus** or click **Update another device** to update e.g. another peripheral device.

4.3 Terminating the update

After you have carried out the update, you must remove the update-set from the board.

To do so, proceed as follows:

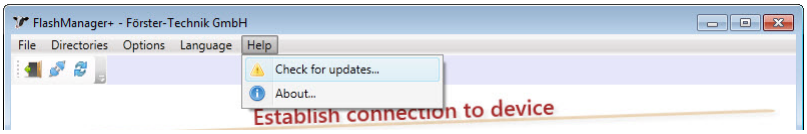
1. Switch the device off.
2. Disconnect the device from the power supply.
3. Remove the update-set from the board resp. the null modem cable from the gateway.
4. Close the covering of the control unit and restore the original state.

5 Updating the FlashManager Plus

FlashManager Plus offers you the opportunity to check on line for **FlashManager Plus** updates. To be able to use this function, an **internet connection** is required.

To use this function and update the version of your **FlashManager Plus**, proceed as follows:

1. Run the **FlashManager Plus**.
2. Click **Help** in the menu bar and then **Check for updates**.



3. Follow the instructions on the screen until the update process is completed.

6 Troubleshooting

Trouble	Cause of trouble	Remedy
No connection or strange behaviour of **FlashManager Plus**	• Undefined state of USB-driver	1. Terminate **FlashManager Plus**. 2. Remove the USB-update-cable from the USB-slot of your PC/notebook. 3. Re-insert the USB-update-cable into the USB-slot of your PC/notebook. 4. Run the **FlashManager Plus** and re-establish the connection.
No connection	• The cable is not connected correctly	Check the cable and plug connections.
	• The automatic feeder is not in the Setup-mode	1. Cancel the update. 2. Restart the automatic feeder and open the Setup-menu in order to establish a serial connection between the automatic feeder and the PC/notebook (see **4.1** Vario und Compact (32 bit), page **13**).
	• The selected COM-port in the **FlashManager Plus** is not correct.	1. Check via which interface data exchange between PC and device control takes place. 2. Check in the **FlashManager Plus** whether in the window **Establish connection to device** the correct COM-port is selected. If not, select it.

No connection	• In **FlashManager Plus** the driver is not installed on the PC/notebook.	If in the window **Establish connection to device** the entry **US232R:xxx** is not listed, you have to install the drivers of the USB-update-set resp. of the serial USB-adapter on your PC/notebook **before** starting the update process (see **3.3** Installing the drivers, page **6**).
The DEF-file is missing.	• The data cannot be sent or fetched.	In the menu bar of **FlashManager Plus** click **Check for updates** to check whether the version of your **FlashManager Plus** is up to date. If there is a newer version available, proceed as described in chapter “Updating the FlashManager Plus”, page 18. To use this function, an internet connection is required. Alternatively you may install the latest installation file **InstallerFlashManagerPlus.exe**. You can download this file from the dealer area of our website www.foerster-technik.de.
After the update no stations are registered anymore.	• The starting version of the automatic feeder is < 4 (less than 4).	Re-enter the peripheral devices in the Setup-menu of the automatic feeder.

Flash-Manager+
Willkommen beim Installations-Assistenten für FlashManager Plus