FÖRSTER TECHNIK S11.4e	Mounting info FlashManager Plus		WiteManage Rectabution
	Re:	Vario, Compact (32-bit), Hand-held, IFS, Gateway, Multilyser, MilchMobil	And the second s
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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), Handheld terminal, IFS, Gateway, Multilyser, Milk trolley (MilchMobil).

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	Re:	Vario, Compact (32-bit), Hand-held, IFS, Gateway, Multilyser, MilchMobil	History His
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2.3 Indication of hazards

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

seri-



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

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

Λ	Caution!
	For a potentially dangerous situation which may cause mi-
	nor 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.

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	Re:	Vario, Compact (32-bit), Hand-held, IFS, Gateway, Multilyser, MilchMobil	A series of the
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- 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.

	Mounting info FlashManager Plus		19 Fushbarge Rachatatan
	Re:	Vario, Compact (32-bit), Hand-held, IFS, Gateway, Multilyser, MilchMobil	Hestive Minomene bein includioner Minomene bein includioner Minomene auf die Ausschlander Minomene auf die Ausschlander Minomene auf die Ausschlander Minomene bein includioner Minomene bein includione
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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 9pole 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



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	Re:	Vario, Compact (32-bit), Hand-held, IFS, Gateway, Multilyser, MilchMobil	And Adapting of the Advances o
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- 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



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	Re:	Vario, Compact (32-bit), Hand-held, IFS, Gateway, Multilyser, MilchMobil	HEAD AND ADDRESS A
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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.
- 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**.
- In other devices right-click Foerster-Technik USB <=> Serial and then click Update Driver Software.



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	Re:	Vario, Compact (32-bit), Hand-held, IFS, Gateway, Multilyser, MilchMobil	REALER LATE The second
	Date	1st of September 2010	
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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)\Foers-terTechnik\FlashManagerPlus\USB-Driver. Click Next.



FÖRSTER	Mounting	M Paddaugo Na historia	
	Re:	Vario, Compact (32-bit), Hand-held, IFS, Gateway, Multilyser, MilchMobil	HESE- EXERCISES Without the Test Analysis Pro- temport of the test Analysis Pro- Part Analysis of the test Analysis Pro- Part Analysis of the test Analysis of the test Analysis of the test Analysis of the test Analysis of the test Analysis of the test Analysis of the test Analysis of the test Analysis of the test Analysis of the test Analysis of test Analysis of the test Analysis of the test Analysis of the test Analysis of test Analys
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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**.

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	Re:	Vario, Compact (32-bit), Hand-held, IFS, Gateway, Multilyser, MilchMobil		Devel advector via de la dur la Polisitation via Manténezar de la la papera. El su de auditation, son de la bastación de autores introgramas a la balanción, ador hadrones de la bastación de autor la antenia harren. Advecto de autor la mante harren.
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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.

FÖRSTER	Mounting	M fachlerge Na holden	
	Re:	Vario, Compact (32-bit), Hand-held, IFS, Gateway, Multilyser, MilchMobil	HESS Withomers hom totabilition Withomers hom totabilition Construction Withomers hom totabilition Construction C
	Date	1st of September 2010	
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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)



 Slot for the interface board of the USB-up- date-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

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	HNIK*Re:Vario, Compact (32-bit), Hand-held, IFS, Gateway, Multilyser, MilchMobil		And Angel and An
	Date	1st of September 2010	- Martin (Annon)
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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-up- date-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
--	---	---

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	Re:	Vario, Compact (32-bit), Hand-held, IFS, Gateway, Multilyser, MilchMobil	HESE MULTICET Withouse here installations without the second second without the second second second without the second second second without the second second second without the second second second second without the second second second second without the second second second second second without the second second second second second without the second second second second second second second second second second second second second second second second second
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3.4.3 Hand-held terminal



1	Slot for the 4-pole connector of the USB-up-
	date-set

3.4.4 Gateway



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

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	Re:	Vario, Compact (32-bit), Hand-held, IFS, Gateway, Multilyser, MilchMobil		David seasontri vez (by Auch de Jonaldano vez Martifereger Na Jonal Na un egylitano, no de translation de sentene Nargarena de Literation, ader hadrenen kinnelsaken den fasastar transf. ader fasterinar i kondustane den fasastar transf. ader fasterinar distar be auf instanz, an fastarálnino.
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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.
- Run the program FlashManager Plus. You will find it under Start > All Programs > Foerster-Technik > FlashManager Plus.

FÖRSTER	Mounting	g info FlashManager Plus	197 Pauldengo Pachatatan
	Re:	Vario, Compact (32-bit), Hand-held, IFS, Gateway, Multilyser, MilchMobil	HESE- EXECUTION Without the Test Analysis Park Analysis and the Test Analysis Park Analysis and the Test Analysis Park Analysis and the Test Analysis and the Test Analysis Analysis and the Test Analysis and the Test Analysis and the Test Analysis Analysis and the Test Analysis and the Test Analysis and the Test Analysis Analysis and the Test Analysis and the Test Analysis and the Test Analysis Analysis and the Test Analysis and the
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6. The window below is displayed. Click Start connection.

Directori	es Ontions Langua	ae Heln	
1 2 A		ge nep	
	3		
		Establish connection to device	
Selection of	com port		
Com port	US232R: Foerster-Tech	hnik USB Serial Converter. Serial number: 11111111	▼ Refresh
	8		
Protocol -			
1000001			
1010001			
			Start connecti
			Start connecti
		linearde	Start connect

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.

Update of calf feed	der (incl. data bac	kup and resto	re)
Software versions			
Software component	Currently installe	d Target version	Update action
Calf feeder Förster-Technik, High Application (H)	04.14	0 G6.04 (GZ) •	yes 🙁
Backup file			
Customer name	Backup file name	Vario_20100903_1110.fd	t
Desired action Update of feeder (including backup and restoration of Backup of feeder data only Restoration of feeder data only	of feeder data)		

FÖRSTER	Mounting info	FlashManager Plus	Financia Parlan	tee Constantions Wilkonseen bein Installations Assistenten für FlashManager Plus
	Re:	Vario, Compact (32-bit), Hand-held, IFS, Gateway, Multilyser, MilchMobil	É.	Sever la selection de la dur la produktion ver Markfreunger Na Jagemen. To set organisme, son de translation de weiteren ingevonne ja childen, dans hardenet refere facaste i antesta verden kommen. Richten bie auf menter, um fartadelinen.
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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.

Jpdate of automatic feeder in progress
n des Tränkeautomaten sichern
skoll 1048 Backun davice data to file Vario, 2010/00/3, 1110, müller fdt
10/48 Waking up Vario 10/48 Reading software identifier
10:53 cet matching Def-File 10:54 Version number data transfer: ++06.0++ 10:54 Version number Vario machine: ++04.14++ 10:54 Nacthing Def-File: C:NProgramData\FoersterTechnik\FlashManagerPlu 10:54 Reading database

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

* FlashManager+ - Förster-Technik GmbH			
ile Directories Options Language Help			
4 🖉 🖉 🖕			
Update of calf feed	er (incl. data backup	and restor	e)
Software versions			
Software component	Currently installed	Target version	Update action
	Current version up to date		required completed
Calf feeder Förster-Technik, High Application (H)	06.04	06.04 (GZ) 🔻	no ⊘
🥝 Your autom	atic feeder i	s up to	o date!
🥝 Your autom	atic feeder i	s up to	o date!
🥝 Your autom	atic feeder i	s up to	o date!
🥑 Your autom	atic feeder i	s up to	o date!
Your autom	atic feeder i	s up to	o date!
Vour autom	atic feeder i	s up to	o date!

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

FÖRSTER	Mounting	info FlashManager Plus	14 Nutilinger Rachattana
	Re:	Vario, Compact (32-bit), Hand-held, IFS, Gateway, Multilyser, MilchMobil	Hesti- Minister of the set of the
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4.2 IFS

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

- 1. Plug in the mains plug of the IFS-control.
- 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.

FlashManager+ - Forster-Technik umpH	
le Directories Options Language Help	
d d a	
Establish connection to devi	ce
Selection of com port	
Com port US232R: Foerster-Technik USB Serial Converter. Serial number: 11111111	Refresh
	Start connection

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

FlashManager+ - Förster-Technik GmbH	
e Directories Options Language Help	
. Ø Ø .	
Applic	ation update of IFS single
Software versions	
Software component	Currently installed Target version Update action Current version up to date required completed
IFS single	01.07 (1) 06.03 • yes (2)
Cancel	Start update of IFS

FÖRSTER	Mounting info	D FlashManager Plus	Financia Canada Alterio	Wilkonnen beim Instaltations Assistenten für FlachManager Plus
	Re:	Vario, Compact (32-bit), Hand-held, IFS, Gateway, Multilyser, MilchMobil	É.	Dear Section of the Auth The Publisher ver Real-Housey Ark Lapton. To and explanae, to an & Instantiation data watere house and and the Authority of the Authority Modern be auth media watere houses. Holders be auth means, an for taliforme.
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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.

e Directories Options Language Help		
S 2 5		
Ap	plication update of IFS sing	gle
Software versions		
Software component	Currently installed	Target version Update action
	Current version up to date	required complete
IFS single	06.03 📿	06.03 🔹 no ⊘
📀 Your IF	S single unit is	up to date!
🥝 Your IF	S single unit is	up to date!
🥝 Your IF	S single unit is	up to date!
🥝 Your IF	S single unit is	up to date!
🥝 Your IF	S single unit is	up to date!
🥝 Your IF	S single unit is	up to date!
🥝 Your IF	S single unit is	up to date!
🥝 Your IF	S single unit is	up to date!
Your IF	S single unit is	up to date!

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.

	Mounting info FlashManager Plus		197 Factolicago Factolation	
	Re:	Vario, Compact (32-bit), Hand-held, IFS, Gateway, Multilyser, MilchMobil	HEADER AND	
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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**.

🎷 FlashManager+ - Förster-Technik Gml	н	
File Directories Options Language	Help	
4 2 2	🔥 Check for updates	
E.	1 About	
	Establish connection to device	

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

	Mounting info FlashManager Plus		V Pathleope The bandware (FEES)- Williomenen bein Instatutore- Assolution für FaceManager Pair
	Re:	Vario, Compact (32-bit), Hand-held, IFS, Gateway, Multilyser, MilchMobil	And Alarman of the And A handhare on And Alarman of the And A handhare on And Alarman of the And A handhare on And Alarman of the And Alarman And Alarman of the And Alarman Alarman of the Alarman of the Alarman of the Alarman Alarman of the Alarman of the Alarman of the Alarman Alarman of the Alarman of the Alarman of the Alarman of the Alarman Alarman of the Alarman of the Alarm
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6 Troubleshooting

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

	Mounting info FlashManager Plus		W factorings flat bioletics.
	Re:	Vario, Compact (32-bit), Hand-held, IFS, Gateway, Multilyser, MilchMobil	Micrometer here includioner Micrometer in Fischware Peter Andrew State State State State State Andrew State
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No connection	In FlashManager Plus	If in the window Establish connection to device
	the driver is not installed	the entry US232R:xxx is not listed, you have to in-
	on the PC/notebook.	stall 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	The data cannot be sent	In the menu bar of FlashManager Plus click Check
missing.	or fetched.	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 connec-
		tion is required.
		Alternatively you may install the latest installation
		file InstallerFlashManagerPlus.exe. You can
		download this file from the dealer area of our web-
		site www.foerster-technik.de.
After the update	The starting version of	Re-enter the peripheral devices in the Setup-menu
no stations are	the automatic feeder is	of the automatic feeder.
registered anymo-	< 4 (less than 4).	
re.		

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	Re:	Vario, Compact (32-bit), Hand-held, IFS, Gateway, Multilyser, MilchMobil	And Andrew State and State
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