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NetTerminalPlus and KalbManagerWIN

1 Preparation

- > Check whether the PC on which you wish to install NetTerminalPlus and KalbManagerWIN is equipped with a network interface card.
- You will need an Ethernet cable. If your computer supports the Auto-Link function, then you can use either a simple or a crossover network cable.
- > Download the program NetTerminalPlus and KalbManagerWIN from the website www.foerster-technik.de.

Note	For a smooth function, Förster Technik recom-
	mends as an operating system either Windows XP
	or later.

Note	You will need administrator rights for the installa-
	tion and configuration of NetTerminalPlus and
	KalbManagerWIN.

2 Connecting the Automatic feeder with the PC

In order to be able to work with NetTerminalPlus, you must

- connect and set up the Automatic feeder with the PC via the Ethernet cable,
- install the NetTerminalPlus/KalbManagerWIN software on the PC,

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2.1 Connecting the Ethernet cable

A DANGER Risk of fatal injury from electric shock. The electrical components of the Automatic feeder are live. Switching off via the main switch/control switch does not take the voltage on the device. Always first turn off the Automatic feeder using the main switch/control switch and disconnect the mains plug before connecting the Ethernet cable.

1. Remove the dummy plug from the device housing.



- 1 Dummy plug
- 2. Open the left side door of the Automatic feeder.
- 3. Remove the cylinder with the Ethernet connection from the holder in the device housing.



1 Cylinder with Ethernet connection

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4. Remove the plug from the gasket and open the screw fitting of the cylinder.



- 1 Gasket in the cylinder
- Retrieve the cable sleeve from the cylinder and fasten it in the device housing at the position of the dummy plug.
- 6. Feed the end of the loose Ethernet cable through the cable sleeve.
- 7. Unscrew the other end of the cylinder and pull out the socket and the Ethernet cable of the Automatic feeder.



1	Socket
2	Ethernet cable of the device

8. Position the loose gasket and the screw fitting around the loose Ethernet cable and connect the end with the socket.

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1	Screw fitting	3	Screw fitting
2	Ethernet cable	4	Gasket

- 9. Slide the cable connection into the cylinder and screw it closed along with the gaskets.
- 10.Push the cylinder into the holder in the housing of the Automatic feeder.

2.2 Setting up the Automatic feeder menu

- 1. Plug in the power plug and switch on the Automatic feeder.
- In the Setup of the Automatic feeder, select Communication > Network configuration. You can configure all relevant parameters here.
- MAC address: You can see the MAC address of your network here. Your network is uniquely designated via the MAC address. This address cannot be changed.
- 4. **IP address**: You can see the IP address of your network here and, if need be, change it.
- 5. **Subnetwork mask**: You can see the subnetwork mask of your network here and, if need be, change it.
- 6. **Gateway**: You can see the IP address of your Gateway here and, if need be, change it.

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Note	The Gateway is located on the smart processor
	card.

- 7. **IP assignment**: The data is assigned automatically when you select the value **DHCP** here. If you select the **static** value here, then you must set the IP address of your network yourself.
- 8. **Accept?**: Press here ^{Enter}. The set data is accepted.

2.3 Setting up the PC menu

- If your computer is not yet in operation, switch it on. You must have administrator rights in order to carry out the following settings.
- In the Windows menu, select Start > System control > Network and release centre. You will receive an overview of your network connections.
- Right-click on the respective connection and select Properties. A list opens with elements which will be used by this connection.
- Scroll to the item Internet protocol 4 (TCP/IPv4) and click on this item with the left mouse button. Afterwards, click on Properties.

This display may vary, depending on the operating system. The three most common variants are described in the following:

• Variant 1 - PC is not integrated in the network (see 2.3.1 Variant 1 - PC is not integrated in the network on page 6).

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- Variant 2 PC is integrated in the network with DHCP server (see 2.3.2 Variant 2 PC is integrated in the network with DHCP server on page 12).
- Variant 3 PC is integrated in the network (see 2.3.3 Variant 3 PC is integrated in the network on page 13).

2.3.1 Variant 1 - PC is not integrated in the network

Your computer is not integrated in a network. In the default settings, the **Retrieve IP address automatically** field is activated.

 Activate Use following IP address and enter 192.168.1.10 in IP address. 255.255.255.0 must be listed in the subnet mask.

Note	The first three number blocks define the fixed address
	rang and must match the displayed IP address of the
	Automatic feeder.
	The last number must NOT match that of the Automatic
	feeder.
Note	Set the IP address of the Automatic feeder in Setup >
	Communication > Network configuration > Gateway.
	In the IP assignment line, ensure that [static] is se-
	lected.

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nternetprotokoll, Version 4	(TCP/IPv4) Properties
General	
You can get IP settings assi this capability. Otherwise, y for the appropriate IP settin	gned automatically if your network supports you need to ask your network administrator ngs.
O <u>O</u> btain an IP address a	automatically
• Use the following IP ad	Idress:
IP address:	192 . 168 . 1 . 10
Subnet mask:	255 . 255 . 255 . 0
Default gateway:	
Obtain DNS server add	dress automatically
• Use the following DNS	server addresses:
Preferred DNS server:	192 . 168 . 1 . 1
Alternate DNS server:	· · ·
🗌 Vaļidate settings upor	Ad <u>v</u> anced
	OK Cancel

- 2. Confirm with **OK** and close all windows.
- Install the NetTerminalPlus/KalbManagerWIN software.
 Start the Setup and follow the instructions on the screen.

2.3.1.1 NetTerminalPlus

- 1. Start the programme.
- 2. Follow the instructions on the screen.
- 3. Enter the data of the Automatic feeder.

Note	Set the IP address of the Automatic feeder in Setup >
	Communication > Network configuration > Gateway.
	The CAN address of the hand-held can be seen in
	Setup > Terminal > Address.

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C	
Gateway parameters	
Description G	ateway 2
IP address	92.168.1.2
Port number	30001
✓ Try to connect to gate	way after saving changes
Add feeder specified below to the second	to the newly created gateway
Add feeder specified below f Feeder parameters	to the newly created gateway
 Add feeder specified below the sp	to the newly created gateway Feeder 1
Add feeder specified below t Feeder parameters Description CAN address of terminal	Feeder 1
Add feeder specified below t Feeder parameters Description CAN address of terminal Type of handheld	Feeder 1 01 h 🗬 15 keys

- 4. Click on **Add devices** to add the Automatic feeder. The device is now correctly installed and registered.
- To register additional devices, right-click in the NetTerminalPlus programme on Location and then select Add Gateway.

2.3.1.2 KalbManagerWIN

1. Start the programme.

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2. Click in the Calf feeder menu bar and select CF: Register/

Cancel.



3. Click on New and select Automatic search (Gateway).

Settings			
New 🔽 Change Dele	e Recovery	About	
Automatic search (gateway)		DEF-file	
Gateway / Smart Förster - USB RS 232 File (test run)	08.06 08.06 08.06	upm_#h8-250-######_08-06.def upm_#h8-250-######_08-06.def upm_#h8-250-######_08-06.def	
			End

- 4. Select a Gateway or smart from the list.
- 5. You can apply the preset IP address or enter a new one instead. This must however match the one that is displayed in Setup > Communication > Network configuration >

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Gateway (see 2.3.2 Variant 2 - PC is integrated in the net-

work with DHCP server on page 12).



- 6. Click on OK.
- The Licence ID is comprised of the MAC address, which is made up of twelve characters (number-letter combination) plus a checksum.



be switched on.

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8. In **CAN address**, select the CAN bus address of the Automatic feeder. In the default settings, the Automatic feeder

has 11 as its Can bus address.

Note	The CAN address can be seen in Setup > Machine
	> Address.

9. Assign a name to the connection to the device and click on **Continue**.

New	Installation gateway	new/char	nge	Real Control of Contro		8	
ame							
	Name of installation	Feeder 1				1	
	Version	KS8-250-	MEIV## 01.05				
	DEF-file	C:\PROG	:\PROGRA~2\FOERST~1\KM3\def\smart\upm_#s8-250-#####				
- 11	Machine number	1					
				2		_	
			< Back	Next >	Cancel		

10.Set the time interval at which the machine data are to be

transferred to KalbManagerWIN and click on Save.

New	Installation gateway new/change	8
Name	Fetch all machine data every minutes 10 👘	
	< Back Save Cancel	

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11. The data of the Automatic feeder will be displayed in the fol-

lowing window.

14644	Change	Delete Recovery	About
lame	N	Version	DEF-file
eeder 1	1	KS8-250-MEIV## 01.05	upm_#s8-250-#######_01-05.def

2.3.2 Variant 2 - PC is integrated in the network with DHCP server

Your PC is integrated in a network with DHCP server (e.g. a DSL router). The **Retrieve IP address automatically** field is activated in the display.

General	Alternate Configuration				
You car this cap for the	n get IP settings assigned au ability. Otherwise, you need appropriate IP settings.	tomatically if I to ask your i	your n networ	etwork sup rk administra	ports ator
0	otain an IP address automati	cally			
OUs	e the following IP address:				
IP ac	ldress:			+	
Sybr	et mask:			*)	
Defa	ult gateway:			+	
	tain DNS server address au	tomatically			
OUs	e the following DNS server a	ddresses:			
Prefe	erred DNS server:			+	
Alter	nate DNS server:	4		•	
V	aļidate settings upon exit			Ad <u>v</u> ance	ed
		175			

Your computer automatically obtains an IP address from your DHCP server. In order to set up communication between com-

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puter, DHCP server and Automatic feeder, these must be in the same address range. The IP of the Automatic feeder can be adjusted to match the address range of your DHCP server.

- 1. Confirm all entries with **OK** and **close all windows**.
- In the Setup of the Automatic feeder Communication > Network configuration > IP assignment, select the value [DHCP].
- 3. Confirm the message **accept?** with Enter.
- Make a note of the IP address from Setup > Communication > Network configuration > Gateway.
- 5. Confirm with **OK** and close all windows.
- Install the NetTerminalPlus/KalbManagerWIN software (see 2.3.1 Variant 1 - PC is not integrated in the network on page 6).

2.3.3 Variant 3 - PC is integrated in the network

Your computer is connected to a network. The **Use following IP address** field is activated.

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nternetprotokoll, Version 4 (IC	P/IPv4) Properties	×
General		
You can get IP settings assigner this capability. Otherwise, you r for the appropriate IP settings.	d automatically if your network supports need to ask your network administrator	
O Obtain an IP address auto	matically	
• Use the following IP addre	SS:	
IP address:	192.168.1.10	
Subnet mask:	255 . 255 . 255 . 0	
Default gateway:	,	
Obtain DNS server address	s automatically	
• Use the following DNS serv	ver addresses:	
Preferred DNS server:	192 . 168 . 1 . 1	
Alternate DNS server:		
Valjdate settings upon exi	t Ad <u>v</u> anced	

- 1. Made a note of the displayed IP address.
- In the Setup of the Automatic feeder Communication > Network configuration > IP assignment, select the value [static].
- 3. Confirm the message **accept?** with Enter.
- 4. In the Gateway line, enter the IP address.

Note	The first three number blocks define the fixed add-
	ress rang and must match the displayed IP address
	of the PC.
	The last number must NOT match that of the PC.

Install the NetTerminal/KalbManagerWIN software (see
 2.3.1 Variant 1 - PC is not integrated in the network on page 6).

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2.4 Connecting additional Automatic feeders

- NetTerminalPlus can control an unlimited number of Automatic feeders.
- KalbManagerWIN can communicate with up to 32 Automatic feeders.

2.4.1 Connecting several devices to the PC

Connect the Automatic feeder to the PC via the Ethernet cable (see **2.1** Connecting the Ethernet cable on page **2**).

A DANGER Risk of fatal injury from electric shock. The electrical components of the Automatic feeder are live. Switching off via the main switch/control switch does not take the voltage on the device. Always first turn off the Automatic feeder using the main switch/control switch and disconnect the mains plug before connecting the Ethernet cable.

A switch is to be recommended if several devices are present.

3 Eliminating failures

Failure	Cause	Remedy
NetTerminalPlus/	Network cable, power cable	Plug in the cable
KalbManagerWIN has no	or USB cable is not or is not	
access to the data of the	correctly plugged in.	
Automatic feeder	The electronics is not	Switch off the Automatic feeder and
	functioning perfectly at the	disconnect the power plug. After a
	moment	waiting time of 10 seconds, connect it
		again with the mains and switch it
		back on.

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