

kieback&peter

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1 Introduction

Communication between a Windows computer and the Neutrino BMS can be established using the SM200 PHWIN software module. This allows the operators to change the plant status of the TBE (Technical Building Equipment) from a Windows computer via the operator interface of the Neutrino BMS.

Communication between a Windows computer and the Neutrino BMS is based on the network functions of the QNX operating system as well as on the corresponding protocol. The multi-user/multitasking function of the QNX operating system allows multiple operators to access the data pool and the software module of the Neutrino BMS from the Windows computers at the same time for the operation of the TBE.

The software module has a low memory requirement and does not write any entries to the registry. Therefore, the application programs of the Windows computer can continue to be used without restrictions.



NOTE

If PHWIN is installed on several Windows computers, the program"**Additional oper**ating window" must be installed on the BMS and enabled by the dongle.

Software package for PHWIN

The PHWIN software module includes an installation CD. Accept the included software license contract by entering the license number. Your license number can be found on the back of the installation CD for PHWIN.

"**Phindows**" is a component of the PHWIN software module and a tool for connecting removed BMSs. In this way, you can use the graphic BMS applications of the QNX operating system as a user of the Windows platforms.

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1.1 System requirements

PHWIN can be installed on the following operating systems:

- Microsoft Windows 7 32 bit and 64 bit
- Microsoft Windows XP 32 bit
- Microsoft Windows XP Embedded

No entries are written to the registry of your Windows computer.

Hardware requirements

Minimum hardware requirements:

- 20 MB of free hard disk space
- LAN or modem connection

1.2 Changes to Previous Versions

Version 6.3.1.0

- Support for Microsoft Windows 7 64 bit operating system
- Custom installation

Version 6.2.0.0

- Support for Microsoft Windows 7 32 bit operating system
- Acoustic differentiation of increasing and decreasing messages
 Any four sound files can be set to report alarm screens and malfunction messages (each for increasing and decreasing messages).
- An unauthorized exit of PHWIN is prevented.
- PHWIN is automatically started without further confirmation prompts for an incoming alarm screen.
- A customer-specific BMS background image for PHWIN is displayed.
- The BMS name and user name are displayed in the PHWIN title bar.

2 Installation

2.1 Preparing the Installation

Proceed as follows to prepare the PHWIN installation:

Insert the installation CD into the CD drive of your Windows computer.

Adobe Acrobat Reader is displayed with a start window for PHWIN installation. You have the following options:

- To first read the documentation about the installation, click "Instructions for installation".
- To start the installation right away, click "Install PHWIN".

2.2 Starting the Installation



NOTE

Windows 7: At the start of the installation, you receive a message from User Account Control. Confirm the message with **[Yes]** to continue the installation.

Follow the instructions of the installation wizard:

- Select the desired installation language.
- The license agreement is then displayed: Accept the license agreement to continue with the installation.

You receive the following prompt to enter your license number.

C PHWIN Setup	
License number	
KIGUAGK@PGLGI	
Please fill in the license number.	
The validity of the license will be checked during the first startup of PHWIN.	
Kieback&Peter Installer (NSIS 2.33)	
< Back Next > Ca	ncel

2-1: License number

Type the license number in the field provided.

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NOTE

The license number is case-sensitive.

- Select whether the program is to be installed for one user or for all of the users of the PC and then click [Next].
- Click [Next] and select the directory where PHWIN is to be installed. You can enter the installation path directly or select it by clicking [Browse].



NOTE

It is recommended to accept the default target directory.

kiekeekonsten	Zielverzeichnis auswählen
KIEDACK&PELEF	wahlen Sie das Verzeichnis aus, in das PHWIN installiert werden soll.
PHWIN wird in das unten a Verzeichnis installieren möc Verzeichnis aus. Klicken Sie	ngegebene Verzeichnis installiert. Falls Sie in ein anderes hten, klicken Sie auf Durchsuchen und wählen Sie ein anderes auf Installieren, um die Installation zu starten.
Zielverzeichnis	
Zielverzeichnis C: \Program Files\Kieba	ck&Peter\PHWIN Durchsuchen
Zielverzeichnis C:\Program Files\Kieba Benötigter Speicher: 28.8M Verfügbarer Speicher: 447.	d&&Peter\PHWIN Durchsuchen B 1GB
Zielverzeichnis C:\Program Files\Kieba Benötigter Speicher: 28.8M Verfügbarer Speicher: 447. Kieback&Peter Installer (NSIS	ck&Peter/PHWIN Durchsuchen IB 1GB 2.33)

2-2: Select the installation path

- ▶ To start the actual installation, click [Install].
- Once PHWIN has been successfully installed, exit the installation wizard by clicking the [Finish] button.

2.3 Uninstallation

Proceed as follows to remove PHWIN from your Windows computer:

Windows 7

Click the [Windows logo] in the task bar of your Windows computer and then [Control Panel] in the right section of the start menu.

The "Control Panel" window is displayed.

- Click [Uninstall a program] and select PHWIN from the list of installed programs.
- While PHWIN is selected: Click [Uninstall/Change] at the upper edge of the table to uninstall PHWIN.

The installation wizard is started.

Follow the instructions of the installation wizard. Click [Finish] to complete uninstallation of the PHWIN software.

Windows XP

Click [Start] in the task bar of your Windows computer and open "Control Panel" under "Settings".

The "Control Panel" window is displayed.

- Open "Add or Remove Programs" and select PHWIN in the list of installed programs.
- While PHWIN is selected: Right-click [Change/Remove] to uninstall PHWIN. The installation wizard is started.
- Follow the instructions of the installation wizard. Click [Finish] to complete uninstallation of the PHWIN software.

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3 Starting PHWIN

To start PHWIN, proceed as follows:

Windows 7

- Click [Windows start button] in the task bar and then "All Programs".
- Select the "Kieback&Peter" > "PHWIN" folder and start PHWIN.

Windows XP

Click [Start] in the task bar, select "All Programs" > "Kieback&Peter" > "PHWIN" and start PHWIN.

3.1 Creating a Shortcut

You must create a shortcut on the desktop to access PHWIN directly from the desktop.

Windows 7

- Click [Windows start button] in the task bar and then "All Programs".
- Select the "Kieback&Peter" > "PHWIN" folder and right-click PHWIN.
- Select "Send To" and then "Desktop (create shortcut)" from the context menu that opens.



3-1: Creating a shortcut

Windows XP

- Click [Start] in the task bar, select "All Programs" > "Kieback&Peter" > "PHWIN" and right-click PHWIN.
- Select "Create Shortcut" from the context menu that opens.

A message is displayed stating that a shortcut cannot be created here but can be placed on the desktop instead.

Confirm with [Yes] to create the shortcut.

3.2 Setting up PHWIN for Several BMSs

To set up PHWIN for several BMSs, proceed as follows:

Create a shortcut for PHWIN on the desktop. See chapter 3.1 "Creating a Shortcut", page 11.

The following icon is displayed on the desktop: 🚮

Rename the shortcut if necessary, e.g. to PHWIN 2:

To do this, right-click and select "**Rename**" from the context menu. Confirm your entry with the **Enter** key.

Right-click the shortcut to PHWIN 2 and select "Properties" from the context menu.

The "**PHWIN 2 Properties**" window is displayed with the "**Shortcut**" tab activated.

In the "Target" entry field, add "PHWIN2" after the path "C:\Program Files\Kieback&Peter\PHWIN\phglt.exe".



NOTE

Please note: enter a space before the additional text. Example: "C:\Program Files\Kieback&Peter\PHWIN\Phglt.exe" PHWIN2

Security	Details	Pr	evious Versions					
General Shortcut Compatibility								
PHWIN 2								
Target type:	Application							
Target location	PHWIN							
Target:	iles\Kieback&Pete	r\PHWIN\F	hgit.exe" PHWIN2					
Start in:	"C:\Program Files\	Kieback&Pe	ter\PHWIN"					
Shortcut key:	None							
Run:	Normal window		•					
Comment:								
Open File L	ocation Chang	e Icon	Advanced					
	ОК	Cance	Apply					

3-2: PHWIN 2 properties

- Confirm your entry with [Apply] and close the window with [OK].
- Define the settings in the "BMS" configuration window for PHWIN 2: See chapter 3.4 "Configuring PHWIN", page 13.
- Set up message monitoring for the BMS in the program "BMS message monitoring": See chapter 4.1 "Setting Up Message Monitoring for a BMS", page 18.

3.3 Adjusting the Display: BMS Background Image, Title Bar

BMS background image

The configurable customer-specific BMS background image is also displayed in the PHWIN remote control (exception: the setting "**Reduced data volumes during slow PHWIN remote control**" from the BMS configuration and a remote control based on a modem connection. In both cases, the monochrome background continues to be displayed instead).

The background image can be selected and the background color, resolution and alignment of the background can be defined under "**Extras**" and "**Operator settings**". These settings apply for the BMS server and remote controls.

Title bar

After successfully logging on to a multitenant/multi-project BMS, the name of the user who is logged on is also displayed next to the configured BMS name in the tile bar of the PHWIN remote control. This is also displayed in the Windows task bar. If a connection to a single BMS or a multitenant/multi-project BMS is established without logging on, only the configured BMS name is displayed.

3.4 Configuring PHWIN

When PHWIN is called up for the first time, the **"BMS"** configuration window opens, where a connection from your Windows computer to the BMS can be established.

👩 PHWIN	×
TCP/IP-Host:	
Screen	1
Start	C:\Program Files\Kieback&Peter\PF
Name:	
	use SSH
	Import
	OK Cancel

3-3: BMS configuration

Enter the TCP/IP address of your BMS in the "TCP/IP host" entry field.

Make sure that a network connection is configured.

Windows XP: See chapter 5.2 "Windows XP: Network Configuration", page 23. The network connection should be automatically configured under Windows 7.

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NOTE

Instead of the IP address, you can also enter the host name of the BMS for existing DNS servers. The DNS server uses the host name entered to obtain the valid IP address. Ask your system administrator for the IP address or host name of your BMS.

When using several PHWIN remote controls:

Enter the number of the screen used in the "Screen" entry field on several Windows computers. Malfunction messages that have been assigned to BMS message groups with certain output devices (e.g. screens) during project planning can consequently be selectively sent from the BMS to this screen.

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NOTE

Screen addressing is effective for BMS version 6.26 or higher.

Enter a name in the "Name" entry field and confirm your entry with [OK].

Use a secure encrypted Internet connection:

- Activate the checkbox "Use SSH" to use a secure encrypted network connection via SSH (Secure Shell).
- Click the [Import] button, select an SSH key file and confirm your selection by pressing [OK]. (For information on generating an SSH key file, see Volume I, Section 14 "BMS Security" in the BMS manual.)



NOTE

When connecting to the Internet, you should always use a secure encrypted connection via SSH.

3.5 Reentering the License Number

If the license number was **not** correctly entered during installation, the following window is displayed at the start:

Phindows License			×
Plea	No appropriate li ase enter your Phi (affixed to bac (or printed on Li	censes were found. indows License Number ik of floppy disk] icense Certificate)	
	ОК	Cancel	

3-4: Phindows license

Reenter the license number in the entry field and confirm with [OK].

When the license number is entered correctly, the "**Phindows - Send Connect**" window opens that displays the establishment of the connection to the BMS.

If the license number was **not** correctly entered, the entry is reset and you can enter the license number again. The **[Cancel]** button closes the window without applying the entry.

If the **"Phindows License**" window is to be displayed every time that PHWIN is started although you have correctly entered the license number, you must change the license number directly in the system files. To do this, proceed as follows:

Go to the directory "C:\Windows\" and open the file "phindows.ini".

To be able to change the file, it is recommended to move it to the desktop.

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Open the file with the editor and enter your license number in the file after "License=phin.<License number>".

If necessary, delete the existing license number.

- Save your changes and close the file.
- Move the file back to the directory "C:\Windows\".

4 Starting BMS Message Monitoring

To start BMS message monitoring, proceed as follows:

Windows 7

- Click [Windows start button] in the task bar and then "All Programs".
- Select the folder "Kieback&Peter" > "PHWIN" and start BMS message monitoring.

Windows XP

Click [Start] in the task bar, select "All Programs" > "Kieback&Peter" > "PHWIN" and start BMS message monitoring.

When started for the first time or when no active monitoring is set up, a message window opens:

Click [OK] to start the program"BMS message monitoring".



NOTE

BMS malfunction messages can only be sent to the Windows computer when the program "**BMS message monitoring**" is opened or placed in the task bar. For a remote data transmission network, you must first establish a connection to the BMS to receive malfunction messages that are sent. If there are malfunctions present, the BMS does not establish a connection to the Windows computer.

🀔 BMS - Alarm Tracking		- D X
File Options ?		
Active Description	New Confi Picture BMS/S Connection state	Start
		New
		E dit
		Delete
		Protocol
, play permanently		Sound off

4-1: BMS - malfunction message monitoring inactive

The program **"BMS message monitoring"** is placed in the task bar of your Windows computer with the window **"BMS malfunction message monitoring"** and can be opened with a click. Malfunction message monitoring is inactive when the window **"BMS malfunction message monitoring"** is opened for the first time.

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The following information is given in this window:

- active: displays active monitoring of the malfunction messages with the icon v and inactive monitoring with the icon x.
- Designation: specifies the name entered for the BMS to be monitored.
- **New**: displays the new malfunction messages received (incoming messages).
- curr. message: displays all current (existing) malfunction messages (outgoing messages).
- Alarm screen: displays malfunction messages that have triggered an alarm screen.
- **BMS/screen**: specifies the number of the BMS or screen.

If PHWIN is installed on several Windows computers, the number of the screen used must be different. See chapter 3.4 "Configuring PHWIN", page 13.

 Connection status: specifies the status of the connection to the BMS. Possible states: not connected, connected.

Click to select the respective screen and click the **[Edit...]** button. The **"BMS connection"** window opens, where you must click the **"Active"** radio button. See figure 4-2 "BMS connection", page 19.Confirm the change by clicking the **[OK]** button. Malfunction message monitoring is now active.

To place the program **"BMS message monitoring"** in the task bar of your Windows computer as an icon, click **"Icon in Taskbar"** under the **"Options"** menu item in the window **"BMS malfunction message monitoring"**.

Use the function **"Info on evalarm"** under the **"Help"** menu item to open the window **"Info on evalarm"**, where you receive information about the program **"BMS message monitoring"**. Click the **[OK]** button to close this window again.

4.1 Setting Up Message Monitoring for a BMS

To set up message monitoring for a BMS, click the **[New]** button. The window "**BMS connection**" opens, where you must make entries for this message monitoring. See chapter 3.4 "Configuring PHWIN", page 13.

You can also define the following settings with the option fields:

- Notification: opens an information window when a new malfunction message is received.
- Play sound for alarm: reports when a malfunction message is received with an acoustic signal that has been triggered by an alarm screen.
- **active**: activates monitoring of the malfunction messages.

BMS-Connection
TCP/IP-Settings:
Host: 192.168.1.154
BMS-Selection:
BMS: 2 Customer: 1 Screen 2
Name: BMS2
 ✓ Notification ✓ Play sound on alarm ✓ Active
SSH 🔲 aktiv No key loaded Importieren
Resolution: Default
OK Cancel

4-2: BMS connection



NOTE

The **"Name"** entry field must be completed so that monitoring remains active when a malfunction message is received.

- Activate the checkbox "Active" to use a secure encrypted network connection via SSH (Secure Shell).
- Click the [Import] button, select an SSH key file and confirm your selection by pressing [OK]. (For information on generating an SSH key file, see Volume I, Section 14 "BMS Security" in the BMS manual.)

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NOTE

When connecting to the Internet, you should always use a secure encrypted connection via SSH.

Confirm the entries with the [OK] button. Message monitoring that is set up for another BMS is displayed in the window "BMS malfunction message monitoring".

Datei O	ptionen ?	9					
Aktiv ✓Ja ✓Ja	Bezeichnung GLT3.100 GLT2	Neu a 2 0	nl / / 0 0	Alar O O	GLT/Bil 1/1/1 2/2/1	Verbindungzustand verbunden verbunden	Start Neu Bearbeiten Löschen Protokoll
🗆 perma	anent abspielen						Sound aus

4-3: BMS malfunction message with several BMS units

4.2 Connecting to a BMS

To connect to the BMS from the program "**BMS message monitoring**", proceed as follows:

In the window "BMS - malfunction message monitoring", select the respective screen and then click the [Start] button.

The window "**Phindows - Send Connect**" opens, where the connection progress is displayed.

After the program is connected to the BMS, the window automatically closes and the initial screen of this BMS is displayed.



4.3 Editing and Deleting Message Monitoring

To edit message monitoring that has been set up, proceed as follows:

In the window "BMS malfunction message monitoring", select the respective entry and click the [Edit] button.

The window **"BMS connection"** opens, where you can change the settings. See chapter 4.1 "Setting Up Message Monitoring for a BMS", page 18.

To delete message monitoring that has been set up, proceed as follows:

In the window "BMS malfunction message monitoring", select the respective entry and click the [Delete] button.

A message window opens, where you must confirm the deletion with the **[Yes]** button. Pressing the **[No]** button cancels the procedure.

4.4 Sound Settings for Received Messages

To set up an acoustic signal for newly received messages, proceed as follows:

Click "Settings" under the "File" menu.

The window "**Phindows settings**" opens, where you must enter the target path for the desired file in the entry field "**Sound file**".

Phindows settings	×					
Start of Phindows:						
C:\Program Files\Kieback&Peter\PHWIN\phindows.exe						
_ Sounddatei						
bei mehr Störungen:	aktiv					
C:\Windows\Media\Windows Hardware Fail.wav >	v					
bei weniger Störungen:						
C:\Windows\Media\Speech Misrecognition.wav >						
bei mehr Alarmbildern:						
C:\\/indows\Media\\//indows Critical Stop.wav > ▼						
bei weniger Alambildem:						
C:\Windows\Media\Windows Exclamation.wav >						
1024 x 768 Bei Auftreten eines Alarmbildes PHWIN-Fembedienung der GLT automatisch starten						
OK Cancel Sta	art					

4-4: Phindows settings

A distinction is made here between four cases:

- More malfunctions
- Fewer malfunctions
- More alarm screens
- Fewer alarm screens

Alternatively, you can search for and open the directory with the button [...] to the right of the entry field. After the respective file has been selected, it can be partially played back with the button [>] to the right of the entry field.

Depending on the case that occurs, the appropriate sound file is played. Alarm screens have priority over present fault messages.



NOTE

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The newly received message is only indicated by an acoustic signal when your Windows computer has a soundcard and speakers.

- Confirm the entry with the [OK] button.
- Click the [Start] button to connect to the BMS.

If message monitoring detects an alarm screen, a message is displayed and the operator can decide whether he or she wants to start a PHWIN remote control. Optionally, the PHWIN remote control can be automatically started without this message. Activate this function in the window "Phindows settings" with "Automatically start PHWIN remote control of BMS when an alarm screen appears". If a PHWIN remote control for the BMS in question is already active, it is automatically called to the foreground.

In the window **"BMS malfunction message monitoring"**, you can define further settings for the sound entered with the functions **"Sound active"** and **"Sound permanent"** under the **"Options"** menu.

The sounds entered are activated with the function "**Sound active**". The function "**Sound permanent**" plays the sound entered in a loop when a malfunction message is received. The "**Sound permanent**" checkbox is enabled Alternatively, you can activate or deactivate the function "**Sound permanent**" with the checkbox.

Click the button [Sound off] to cancel the continually playing sound loop.

4.5 Displaying and Confirming New Malfunction Messages

If new malfunction messages are received on your Windows computer, the window "BMS malfunction message monitoring" opens with a message window, where you can connect to the BMS by choosing [Yes]. An acoustic signal is also output if the appropriate setting is made.



NOTE

The program "**BMS message monitoring**" should not be closed, but only placed in the task bar so that newly received malfunction messages can continue to be displayed on your Windows computer.

Alternatively, when the message window is closed, you can establish the connection by double clicking the respective entry in the window "**BMS malfunction message moni-toring**". You can also mark the respective entry and click the **[Start]** button.

To display and confirm the malfunction messages received, you must log on with your code word. Click the **1** icon in the BMS status bar to open the "**Individual display**" window.

Refer to the manual for the BMS for information about confirming malfunction messages.

4.6 Preventing Unauthorized Exit

The user can be prevented from exiting "**BMS malfunction message monitoring**" and PHWIN remote control started from the monitoring system as an option.

When attempting to exit "**BMS malfunction message monitoring**" or the PHWIN remote control, the user receives a message stating that the program can not be closed.



To activate this function, proceed as follows:

► Go to the directory:

Windows 7	C:\Users\ <username>\AppData\Local\VirtualStore\Windows\</username>				
Windows XP	C:\Windows\				

Find the file "evalarm.ini".

NOTE

To enable you to change the file, we recommend that you move it to the desktop.

Open the file in Notepad and enter the following line under "[Default]":

	block_	_quit_	progra	m=[value]]
--	--------	--------	--------	-----------	---

Value	Function
1	activated
0	deactivated

Save your changes and close the file.

Move the file back to the appropriate directory.

Closing the program

To exit message monitoring or the PHWIN remote control with the function activated, close the program using Task Manager.

- > To do this, right-click the task bar and select "Task Manager".
- Now choose the program on the "Applications" tab and click [End Task].
- Close the message window with [OK]. A Windows screen is then displayed. Here you must click [Close the program].

The program is closed. This can take a few seconds depending on the speed of your Windows computer.

4.7 Displaying the Log

To display the connection log, click the **[Log]** button in the window **"BMS malfunction message monitoring"**. The window **"Message log"** opens that displays an overview of the connections established.

5 Appendix

5.1 Required TCP/IP Ports

The following TCP/IP ports are required when using PHWIN:

- 4868 TCP
- 4869 TCP
- 4870 TCP
- 4994 TCP
- 4991 UDP

5.2 Windows XP: Network Configuration

Click [Start] in the task bar, select "Settings" > "Network connections" and then "Create a new connection" under Network Tasks.

The wizard for new connections opens and guides you through the configuration. You have the following selection options to connect to your BMS.

Network connection type	Selection
Modem or ISDN	"Connect to the network at my workplace" > "Dial-up connection"
VPN	"Connect to the network at my workplace" > "Virtual Private Network connection"
LAN	"Set up a home or small office network"

Now follow the instructions of the Windows wizard.



NOTE

For a VPN connection type: Instead of the IP address, you can also enter the host name of the BMS. The DNS server uses the host name entered to obtain the valid IP address. Ask your system administrator for the IP address or host name of your BMS.

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