User's Manual

PC-Based Measurement Instruments



IM 707003-02E 1st Edition Thank you for purchasing the PC-Based Measurement Instruments, WE7000. This setup guide describes how to install the following WE7000 software drivers and applications to Windows Vista.

- · USB driver
- WE7000 Control Software
- · Optical interface card driver
- Computation Function Setup Software
- Remote Monitor Add-On Software

For information on how to use the software drivers and applications, see the respective manuals or contact your nearest YOKOGAWA dealer.

Notes

- The contents of this manual describe WE7000 Control Software Version 5.2.3.0. If you are using another version, the operating procedures or the figures given in this manual may differ from those of the actual software.
- The contents of this manual are subject to change without prior notice as a result of continuing improvements to the instrument's performance and functions.
- Every effort has been made in the preparation of this manual to ensure the accuracy of its contents. However, should you have any questions or find any errors, please contact your nearest YOKOGAWA dealer.
- Copying or reproducing all or any part of the contents of this manual without YOKOGAWA's permission is strictly prohibited.

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1

System Requirements

Hardware

• PC

OS: Microsoft Windows Vista; CPU: 1 GHz or faster To use the WE7035/WE7036 optical interface card, the PC must have a high-profile PCI bus expansion slot.

- Internal Memory
 1 GB or more
- Hard Disk

The hard disk must have 15 GB or more of free space.

Drives

A CD-ROM drive is necessary to set up the WE7000 Control Software.

- Mouse or Pointing Device
 - Must be Windows Vista compatible
- Display

Windows Vista compatible display with a resolution of 1028 × 768 (XGA) or higher and with 65536 colors (highcolor) or more

Communication Interface Card

A Windows Vista compatible Ethernet port is necessary to connect to an Ethernet network (10BASE-T/100BASE-TX).

To communicate through optical fiber cable, a Yokogawa WE7035/WE7036 optical interface card (707035/707036) must be installed.

• USB

Must be Windows Vista compatible

Printer

The printer driver must be Windows Vista compatible.

OS

Microsoft Windows Vista

Note -

If you click **Adjust font size (DPI)** (accessible by clicking Control Panel > Appearance and Personalization > Personalization) and set the font size to **Larger scale (120 DPI)**, the WE7000 Control Software will not display text properly. Be sure to select **Default scale (96 DPI)**, when you use the WE7000 Control Software.

2

Installing the USB Driver

You must install the USB driver for the Measuring Station to be able to communicate with a PC via USB. Both USB 1.1 and USB 2.0 are supported.

Before Installation

Have the WE7000 Control Software Setup Disk (CD-ROM, Ver. 5.2.3.0 or later) that came with the Measuring Station ready. Close all applications before you install the software.

Installation

- **1.** Turn the Measuring Station and the PC on.
- 2. The following dialog box opens when you first connect the WE500 or WE900 to a PC with a USB cable.^{*} Click Locate and install driver software (recommended).
 - * For instructions on how to connect a USB cable, see the *PC-Based Measurement Instruments WE7000 User's Manual (IM707003-01E).*



3. The following dialog box opens. Click Continue.



4. The following dialog box opens. Follow the dialog box instructions and put the WE7000 Control Software Setup Disk (CD-ROM, Ver. 5.2.3.0 or later) that came with the Measuring Station into the CD-ROM drive.

Ins	ert the disc that came with your WE7000
lf y sea	ou have the disc that came with your device, insert it now. Windows will automatically the disc for driver software.
	4
	I don't have the disc. Show me other options.

5. The Windows Security dialog box opens. Click Install this driver software anyway.

Ø w	indows can't verify the publisher of this driver software
	Don't install this driver software You should check your manufacturer's website for updated driver software for your device.
	 Install this driver software anyway Only install driver software obtained from your manufacturer's website or disc. Unsigned software from other sources may harm your computer or stea information.

2 Installing the USB Driver

6. The following dialog box opens after the installation finishes successfully. Click **Close**.

D Found New Hardware - WE USB Driver	
The software for this device has been successfully installed	
Windows has finished installing the driver software for this device:	
WE USB Driver	
~	
ſ	Close

Confirming Driver Installation

7. On the task bar, click **Start**, and then click **Control Panel** > **Hardware and Sound** > **Device Manager**.

If the USB driver has been properly installed, the **Device Manager** window opens.



Setting Up the WE7000 Control Software

Before Setting Up

3

Have the WE7000 Control Software Setup Disk (CD-ROM, Ver. 5.2.3.0 or later) that came with the Measuring Station ready. Close all applications before you set up the WE7000 Control Software.

Note .

To connect via USB or optical interface, you must first install the appropriate drivers. For information about installing the drivers, see the following sections in this manual: USB driver Chapter 2, "Installing the USB Driver" Optical interface driver Chapter 4, "Installing the Optical Interface Driver" You must also configure network settings beforehand if you intend to communicate via Ethernet.

For information about how to configure the appropriate settings, see section 3.2, "Configuring the TCP/IP Settings of the PC," in IM707003-01E.

Setting Up

- 1. Turn on the PC.
- Put the WE7000 Control Software Setup Disk into the CD-ROM drive. A startup window will appear automatically. When the startup window appears, confirm that WE7000 Control Software is displayed in the box, and click Install Start....

If you have disabled the CD-ROM Autorun feature, use Windows Explorer to run Autorun.exe manually.

Note _

To view the WE7000 Control Software help, you must have Adobe Acrobat Reader version 3.0 or later.



3 Setting Up the WE7000 Control Software

3. The setup program starts, the setup window opens, and the following dialog box opens. Click **Next**.

	Welcome to the InstallShield Wizard for WE7000
	The InstallShield(R) Wizard will install WE7000 on your computer. To continue, click Next.
1	WARNING: This program is protected by copyright law and international treaties.
	< Back Next > Cancel

4. A dialog box for selecting the destination folder opens.

The default folder is **C:\Program Files\YOKOGAWA\WE7000**. Change the folder if necessary, and then click **Next**.

Destinati	- InstallShield Wizard
Click Nex	ct to install to this folder, or click Change to install to a different folder.
	Install WE7000 to:
	C:\Program Files\Yokogawa\WE7000\
nstallShield -	
	< Back Next > Cancel

5. The Create Shortcut Icons for Different Communication Methods dialog box opens. Select the communication methods you will use, and then click Next.

To start the WE7000 Control Software, a startup option (the startup operation listed after "WE7000.exe" in a shortcut link) that matches the communication method to be used is necessary. When you perform this operation, startup options are added automatically. The startup options are set as follows by default.

Optical: "-comm optical DEVICENAME=WE7036"

Ethernet: "-comm ethernet PORTNO=34191 GROUPNO=0"

USB: "-comm USB"

Click the checkb short cut icons.	oxes of the com	nunication methods of v	which you wish to create	
Optical(PCI)	Ethernet			
Optical	Ethernet	USB		
nstallShield	×			

6. The following dialog box opens. Click Install.



3 Setting Up the WE7000 Control Software

7. The User Account Control dialog box opens. Click Allow to begin installation.



8. If the software has been properly installed, the following dialog box opens. Click **Finish**.

B WE7000 - InstallShield Wizard	1	
E.	InstallShield Wizard Completed	
	The InstallShield Wizard has successfully installed WE7000. Click Finish to exit the wizard.	
-		
	< Badk Einish Cancel	

The following WE7000 shortcut icons will appear if you selected their corresponding communication methods in step 5. These icons will also appear as menu items in the Start menu.



Startup Options

If you right-click a WE7000 shortcut icon and click **Properties**, the following dialog box opens. The startup option selected in step 5 is written in the Target box under the Shortcut tab. After setting up the WE7000 Control Software, if you would like to change the startup option, change the settings in the Target box. For information on how to do this, see section 3.6, "Configuring Ethernet Communications of the WE7000 Control Software," in IM707003-01E.



4

Installing the Optical Interface Driver

You must install an optical interface card driver (for the WE7035 or WE7036) for the Measuring Station to be able to communicate with a PC via optical interface.

Before Installation

Confirm BIOS Settings

Windows Vista lets the BIOS handle the PnP feature. Check to see if the BIOS configuration screen has an option to use a PnP OS. If such an option exists, disable it. The driver will not function properly if this setting is enabled.

If a PnP OS option cannot be found on the BIOS configuration screen, it is not clear whether the feature is enabled or not. In this case, even if you install the driver correctly, it may not function properly.

For information on how to display the BIOS configuration screen, refer to your PC user's manual.

Installation

- Turn the PC on after installing the PCI optical interface card.*
 * For instructions on how to install the optical interface card, see the Optical Interface User's Manual (IM707035-01E).
- 2. Log on as an administrator.
- 3. The following dialog box opens. Click **Don't show this message again for this device**.



- **4.** Put the WE7000 Control Software Setup Disk (CD-ROM, Ver. 5.2.3.0 or later) that came with the Measuring Station into the CD-ROM drive.
- On the task bar, click Start, and then click Control Panel > Hardware and Sound > Device Manager. The window shown below opens. Click Other PCI Bridge Device under Other devices.



 The Other PCI Bridge Device Properties dialog box opens. Click Reinstall Driver, and then click OK.

eneral	Den	Durit	-	
eneral	Driver	Details	Resources	
17	Other I	PCI Bridge	Device	
	Device	type:	Other devices	
	Manufa	acturer:	Unknown	
	Locatio	on:	PCI bus 1, device 9, function 0	
Devic	ce status			
This Ther elem	device is re is no dr ient.	not confi iver selec	gured correctly. (Code 1) ted for the device information set or	*
Tore	einstall th	e drivers f	or this device, click Reinstall Driver.	*
			Reinstall Drive	r]



8. The following dialog box opens. Click Let me pick from a list of device drivers on my computer.



9. The following dialog box opens. Select Show All Devices, and then click Next.

select your device's type from the list below	V. 1
Common <u>h</u> ardware types:	
Show All Devices	*
G1883 Device Class	=
AVC Device Class	
🐙 Batteries	
Bluetooth Radios	
🖳 Computer	
💼 Disk drives	
🃲 Display adapters	
BVD/CD-ROM drives	
🛃 Floppy disk drives	
📲 Floppy drive controllers	
🕮 Human Interface Devices	

10. The following dialog box opens. Click Have Disk.

Select the man have a disk that	ufacturer and m at contains the c	nodel of your hardware device and then click Next. If you driver you want to install, click Have Disk.
Manufacturer	• 1	Model
%Benchmark% %Compaq% %Digital%		Benchmark DLT1 Tape Drive
< III	•	Lines Date
Tell me why driver s	y signed. signing is importa	ant Have Disk

11. The following dialog box opens. In the **Copy manufacturer's files from** box, enter the CD-ROM directory that contains WE7000.inf (if the CD-ROM is in the D drive, the directory is D:\OpticalDriver\WinVista), and click **OK**.

Install Fro	om Disk	
P	Insert the manufacturer's installation disk, and then make sure that the correct drive is selected below.	OK Cancel
	<u>C</u> opy manufacturer's files from: D:\OpticalDriver\Win\ista ▼	Browse

12. The following dialog box opens. Under Model, select WE7035/6 Optical Interface PCI Card, and then click Next.

Select the device driver you want to install f	or this hardware.
Select the manufacturer and model of your hardware d have a disk that contains the driver you want to install.	evice and then click Next. If you click Have Disk.
Model	
WE7033/4 Optical Interface ISA Card	
WE7035/6 Optical Interface PCI Card	
This driver is not digitally signed!	Have Disk
Tell me why driver signing is important	

13. The Update Driver Warning dialog box opens. Click Yes.



14. The Windows Security dialog box opens. Click Install this driver software anyway.



15. If the software has been properly installed, the following dialog box opens. Click **Close**.

😡 🖉 Update Driver Software - WE7035/6 Optical Interface PCI Card	×
Windows has successfully updated your driver software	
Windows has finished installing the driver software for this device:	
WE7035/6 Optical Interface PCI Card	
Close	

16. The following dialog box opens. Click Close.

1	WE7035/6 Optical Interface PCI Card		
	Device type:	Other devices	
	Manufacturer:	Yokogawa Electric Corporation	
	Location:	PCI bus 1, device 9, function 0	
Devic	ce status		
Inis	This device is working property.		*
			*

Confirming Driver Installation

17. Follow the procedure in step 5 to open the **Device Manager** window.

If the optical interface driver is installed correctly, "WE7035/6 Optical Interface PCI Card" will appear beneath "?Other devices," as shown in the figure below.



Note.

If an "x" or "!" appears over the icon where the "?" is, the driver is not functioning properly. Delete the driver by selecting WE7035/6 Optical Interface PCI Card and clicking the delete icon. Next click **View** and then **Resources by type** to change the Device Manager display, and confirm the resource allocation condition. Arrange resources so that they can be assigned to the WE7035/6 Optical Interface Card, by for example configuring IRQ settings, and then reinstall the WE7035/6 Optical Interface PCI Card driver.

Before You Start the WE7000 Control Software

In the properties for the WE7000 Control Software shortcut, check that the following is written in the **Target** box. If something else is written in the box, write this instead.

"...WE7000.exe" "-COMM OPTICAL DEVICENAME = WE7036" (when using the WE7036)

5

Installing the Computation Function Setup Software

Before Installation

The optional Computation Function Setup Software (model: 707702) can only be installed to a PC if the WE7000 Control Software (Ver. 5.2.3.0 or later) is installed first. Prepare a backup of the setup disk for the software. Close all applications before you install the software.

Installation

- 1. Turn on the PC and start up Windows.
- **2.** Put the setup disk into a floppy disk drive.
- **3.** Select the floppy disk drive, and display a list of its files.
- 4. Double-click WeMathInstall.exe.
- 5. The User Account Control dialog box opens. Click Allow to begin installation.



 If the software has been properly installed, the following dialog box opens. Click OK.



Note_

Uninstalling the Computation Function Setup Software

• Double-click **WeMathUninstall.exe** in the setup disk. The **User Account Control** dialog box opens. Click **Allow** to begin uninstallation. The following dialog box opens.

Wendchonniscan	
Uninstalla	tion completed!
	ОК
	<u>.</u>

• For information about how to use computation functions, see the *Computation Function Setup Software User's Manual (IM707702-61E)*.

Installing the Remote Monitor Add-On Software

Before Installation

The optional Remote Monitor Add-On Software (model: 707703) can only be installed to a PC if the WE7000 Control Software (Ver. 5.2.3.0 or later) is installed first. Prepare a backup of the setup disk for the software. Close all applications before you install the software.

Installation

6

- 1. Turn on the PC and start up Windows.
- **2.** Put the setup disk into a floppy disk drive.
- 3. Select the floppy disk drive, and display a list of its files.
- 4. Double-click WeRemoteMonitorInstall.exe.
- 5. The User Account Control dialog box opens. Click Allow to begin installation.



 If the software has been properly installed, the following dialog box opens. Click OK.



Note_

Uninstalling the Remote Monitor Add-On Software

• Double-click **WeRemoteMonitorUninstall.exe** in the setup disk. The **User Account Control** dialog box opens. Click **Allow** to begin uninstallation. The following dialog box opens.



• For information about how to use remote monitor functions, see the *Remote Monitor Add-On Software User's Manual (IM707703-61E)*.