User's Manual

Notice of Alterations

Model LL1100 **PC-based Parameters Setting Tool** Model LL1200

PC-based Custom Computation Building Tool

• The media for LL1100/LL1200 were changed into CD from the 3.5-inch

For the confirmation of the package contents and the setup method, see this Notice of Alterations.

• The user's manuals of LL1100/LL1200 describe the usage with RS-232C serial communication.

See this Notice of Alterations for the following contents which are related

Contents related USB:

- Confirmation of the Package Contents
- Operating Environment and Wiring Specifications
- Setup

Installing USB Converter Driver Software Installing LL1100/LL1200

■ Connecting the US1000 Controller to Personal Computer

For the start-up of LL1100/LL1200 and the operation method, see the user's

LL1100 PC-based Parameters Setting Tool: IM 5G1A01-01E LL1200 PC-based Custom Computation Building Tool: IM 5G1A11-01E



IM 05G01A01-01E-S01 1st Edition: Dec. 2006

Yokogawa Electric Corporation

■ Confirmation of the Package Contents

Model and Suffix Codes

Model code	Suffix code	Description
LL1100		PC-based Parameters Setting Tool
LL1200		PC-based Custom Computation Building Tool
	-U10	Model for use with IBM PC/AT compatible machine (common to English and Japanese version), USB interface

Package Contents

● -U10 CD (1 disk):

USB interface)

LL1100 or LL1200/USB converter driver software Dedicated adapter (for USB interface) and dedicated cable (for

For connecting a personal computer to optical communication interface on the front of the US1000 controller (1 set)

User's Manual (LL1100; 1 copy, LL1200; 3 copies)

■ Operating Environment and Wiring Specifications **System Requirements**

- Personal computer: Windows 2000/XP-enabled IBM PC/AT compatible machine
- Operating system: Windows 2000 (Professional)/XP (Home Edition/
 - Professional)
- CPU: 300-MHz Pentium processor or superior is recommended.
- Main memory: 128 MB minimum is recommended.
- Hard disk: Memory space required to store the tool's programs: 5 MB for LL1100 and 9 MB for LL1200

Memory space required to store the parameter data; 2

MB minimum

Memory space required to store the driver for USB-

Serial converter; 1 MB

• CRT display: 800 x 600 pixels or superior

Smaller fonts should be used.

Should be capable of handling at least 256 colors.

- USB communication port: One channel (COM1 to COM16), with SeriesA connector, compliant with USB Specification
 - Rev1.1.
- CD-ROM drive: Required for installation.
- Required for printing. Windows 2000/XP-compatible A4size printer

Dedicated Adapter

Communication method:

US1000; optical, contactless, bidirectional serial communication Personal computer; compliant with USB Specification Rev1.1

- Power supply: Supplied from USB bus power (no internal battery) Input rating; 4.4 to 5.25 V DC, 100 mA (including a dedicated cable)
 - * No plug for external power supply, no power switch
- ◆ Ambient temperature range: 0 to 50°C
- Ambient humidity range: 20 to 90% RH (no condensation)
- Transport and storage conditions: -20 to 65°C, 10 to 90%RH (no condensation)
- Dust- and water-proof construction: Not applied.
- Standard: CE Marking (EMC only) conformity

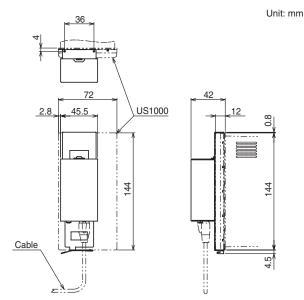


Figure 1 External View of the Dedicated Adapter

WARNING

The dedicated adapter and the dedicated cable are not waterproof. Do not use them in locations that are likely to be exposed to splashes of water or other liquids.

Dedicated Cable

Built-in USB-Serial converter Personal computer side: USB SeriesA plug Adapter side: RJ45 (8-pin) plug

Cable length: Approx. 2.7 m

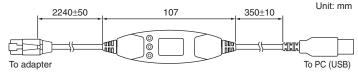


Figure 2 External View of the Dedicated Cable

Note: The dedicated cable for USB interface is for the dedicated adapter for USB

■ Setup

Installing USB Converter Driver Software



NOTE

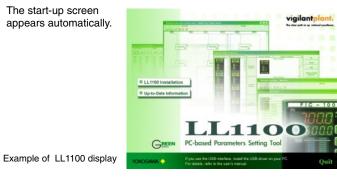
- Before installing USB converter driver software, quit all running applications.
- Logon in Windows 2000/XP:
- Log on with the user name which belongs to the Administrators group.
- If logged on with the user name which does not belong to the Administrators group, the program will not start normally.

• Installing in Windows 2000

This section explains how to install the driver software necessary to use LL1100/LL1200 supporting USB in Windows 2000. The installation is performed in two steps. The USB device driver for the dedicated cable is installed first and then the virtual COM port driver is installed.

- 1. Start Windows.
- 2. Insert the CD of LL1100 or LL1200 into the CD-ROM drive.

The start-up screen appears automatically.



Connect the connector of dedicated cable to the USB communication port of a personal computer. This automatically starts up the Found New

Hardware Wizard. Click Next.



4. The Install Hardware Device Drivers screen appears

Select Search for a suitable driver for my device [recommended]. Click Next.



5. The Locate Driver Files screen appears.

Checkmark CD-ROM drives. Click Next.

1



6. When the search for driver files is finished, click Next.



7. Copying of the USB device driver for the dedicated cable begins. When installation is completed, a confirmation screen appears. Click Finish.



8. Installation of the virtual COM port driver begins continuously. Click Next.



The Install Hardware Device Drivers screen appears

> Select Search for a suitable driver for my device [recommended]. Click Next.



10. The Locate Driver Files screen appears. Checkmark CD-ROM drives. Click Next.



11. When the search for driver files is finished, click Next.



12. Copying of the virtual COM port driver begins. When installation is completed, a confirmation screen appears. Click Finish.



At this point, you have completed installing the driver software in Windows 2000.

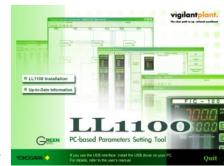
IM 05G01A01-01E-S01 1st Edition: 2006.12.25-00

• Installing in Windows XP

This section explains how to install the driver software necessary to use LL1100/LL1200 supporting USB in Windows XP. The installation is performed in two steps. The USB device driver for the dedicated cable is installed first and then the virtual COM port driver is installed.

- Start Windows.
- 2. Insert the CD of LL1100 or LL1200 into the CD-ROM drive.

The start-up screen appears automatically.



Example of LL1100 display

3. Connect the connector of dedicated cable to the USB communication port of a personal computer. This automatically starts up the Found New Hardware Wizard. Select No, not this time. Click Next.

The screen on the right appears only when ServicePack2 is installed

4. Select Install the software automatically (Recommended). Click Next.

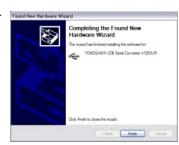


5. A message appears to warn that the software you are installing has not passed Windows Logo testing. Click Continue Anyway.



Next > Cancel

6. Copying of the USB device driver for the dedicated cable begins. When installation is completed, a confirmation screen appears. Click Finish.



7. Installation of the virtual COM port driver begins continuously. Select No, not this time. Click

The screen on the right appears only when ServicePack2 is installed.



The screen may not appear depending on the setting of Windows Update

8. Select Install the software automatically (Recommended). Click Next.



9. A message appears to warn that the software you are installing has not passed Windows Logo testing. Click Continue Anyway.



10. Copying of the virtual COM port driver begins. When installation is completed, a confirmation screen appears. Click Finish

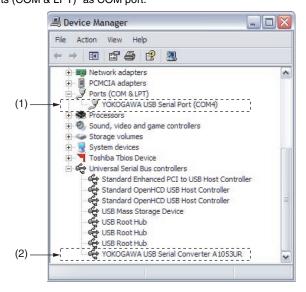


At this point, you have completed installing the driver software in Windows XP.

Verifying Installation

From the Start menu of Windows, double-click System in Control Panel. Select Hardware tab and click Device Manager.

Verify that the USB device driver "YOKOGAWA USB Serial Converter A1053UR" is installed under "Universal Serial Bus controllers" and the virtual COM port driver "YOKOGAWA USB Serial Port (COMn)" is added under "Ports (COM & LPT)" as COM port.



The COM port number assigned to the dedicated cable can be verified by the port number displayed in (1) "YOKOGAWA USB Serial Port (COMn)" of Device Manager (see above).

To change the COM port number, double-click (1) in the figure above, select Port Settings tab of Properties screen and click Advanced.

Change the COM port number in the Advanced Settings for COMn screen.



Uninstalling USB Converter Driver Software

When uninstalling the driver, follow the procedure below.

- 1. Remove the dedicated cable if it is connected to a personal computer.
- 2. In Control Panel, select Add or Remove Programs.

Note: The indications are Add or Remove Applications for Windows 2000 and Add or Remove Programs for Windows XP



Example of Windows XP

- Select YOKOGAWA USB Serial Converter Drivers A1053UR and click Change/Remove.
- Follow the instructions appearing on screen. Verify that the dedicated cable is removed. Click Continue



5. Follow the instructions appearing on Click Finish.

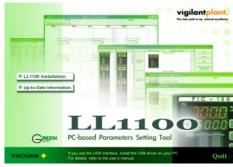


Installing LL1100/LL1200



NOTE

- When reinstalling LL1100/LL1200, uninstall the installed LL1100/LL1200 first and then reinstall LL1100/LL1200.
- Before installing LL1100/LL1200, quit all running applications.
- Logon in Windows 2000/XP:
- Log on with the user name which belongs to the Administrators group.
- If logged on with the user name which does not belong to the Administrators group, the program will not start normally.
- 1. Start Windows.
- 2. Insert the CD of LL1100 or LL1200 into the CD-ROM drive. The start-up screen appears automatically



Example of LL1100 display

- 3. Click LL1100 Installation or LL1200 Installation.
- 4. To continue, follow the message given in each dialog box.

NOTE

Avoid entering just the drive as the installation location, such as D:\. Enter the full directory path.

Verifying Installation

LL1100: From the **Start** menu of Windows, point to **Programs**, then LL1100 and verify that the LL1100 contains LL1100.

LL1200: From the Start menu of Windows, point to Programs, then LL1200 and verify that the LL1200 contains LL1200.

■ Connecting the US1000 Controller to **Personal Computer**

Follow the procedure below to connect the US1000 controller to a personal computer.

- 1. Connect the dedicated adapter to the USB communication port of a personal computer using the dedicated cable.
- 2. As shown in Figure 4, hang the dedicated adapter from the top groove of the US1000 controller.
- 3. Push the adapter to the US1000 controller's front panel to securely fix

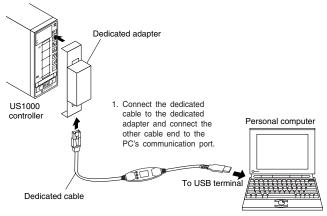
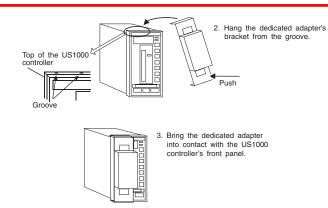


Figure 3 Connection via Dedicated Adapter



NOTE

- Make sure the dedicated adapter is attached to the US1000 controller in a vertical orientation. Communication is not possible if the dedicated adapter is attached in a slanting position.
- Do not remove the dedicated cable (for USB interface) while LL1100/ LL1200 communicate, or it may affect the stability of the operation system.
- Do not suspend while LL1100/LL1200 communicate, or the system may fail to recover subsequently form the suspension.



Attaching the Dedicated Adapter

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