USB-Serial Conversion Cable

User's Manual

OMRON

USB-Serial Conversion Cable CS1W-CIF31

User's Manual

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Notice:

OMRON products are manufactured for use according to proper procedures by a qualified operator and only for the purposes described in this manual.

The following conventions are used to indicate and classify precautions in this manual. Always heed the information provided with them. Failure to heed precautions can result in injury to people or damage to property.

will result in death or serious injury.

MARNING Indicates a potentially hazardous situation which, if not avoided,

could result in death or serious injury.

result in minor or moderate injury, or property damage.

OMRON Product References

All OMRON products are capitalized in this manual. The word "Unit" is also capitalized when it refers to an OMRON product, regardless of whether or not it appears in the proper name of the product.

The abbreviation "Ch," which appears in some displays and on some OMRON products, often means "word" and is abbreviated "Wd" in documentation in this sense.

The abbreviation "PLC" means Programmable Controller. "PC" is used, however, in some Programming Device displays to mean Programmable Controller.

Visual Aids

The following headings appear in the left column of the manual to help you locate different types of information.

Note Indicates information of particular interest for efficient and convenient operation of the product.

1,2,3... 1. Indicates lists of one sort or another, such as procedures, checklists, etc.

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No patent liability is assumed with respect to the use of the information contained herein. Moreover, because OMRON is constantly striving to improve its high-quality products, the information contained in this manual is subject to change without notice. Every precaution has been taken in the preparation of this manual. Nevertheless, OMRON assumes no responsibility for errors or omissions. Neither is any liability assumed for damages resulting from the use of the information contained in this publication.

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About this Manual

Thank you for purchasing the CS1W-CIF31 USB-Serial Conversion Cable.

The CS1W-CIF31 USB-Serial Conversion Cable connects an OMRON PLC (or PT) to a personal computer's USB port.

Please read this manual carefully and be sure you understand the information provided before attempting to install or operate the USB-Serial Conversion Cables. Be sure to read the precautions provided in the following section.

Precautions provides general precautions for using the USB-Serial Conversion Cables and related devices.

Overview and Components describes the parts of the USB-Serial Conversion Cables and gives an overview of their application.

Packing Lists shows the various items that come with the USB-Serial Conversion Cables.

Specifications provides the hardware and software specifications.

Dimensions shows external cable dimensions.

System Configuration shows the application of the USB-Serial Conversion Cables with various models of PLC.

USB to PLC/PT Connection Tables lists the possible combinations of Cables, Units, and ports that can be used.

Application Procedure gives an overview of the steps required to use USB-Serial Conversion Cables.

DIP Switch Settings and Cable Connections describes switch settings and cable connections.

Installing the Drivers tells how to install the software drivers.

Uninstalling the Drivers tells how to uninstall the software drivers.

Connecting Online from the CX-Programmer tells how to connect to a PLC or PT from a computer running the CX-Programmer.

⚠ WARNING

Failure to read and understand the information provided in this manual may result in personal injury or death, damage to the product, or product failure. Please read each section in its entirety and be sure you understand the information provided in the section and related sections before attempting any of the procedures or operations given.

PRECAUTIONS

This section provides general precautions for using the USB-Serial Conversion Cable and related devices.

The information contained in this section is important for the safe and reliable application of the USB-Serial Conversion Cable. You must read this section and understand the information contained before attempting to set up or operate a USB-Serial Conversion Cable and PLC system.

Intended Audience

This manual is intended for the following personnel, who must also have knowledge of electrical systems (an electrical engineer or the equivalent).

- •Personnel in charge of purchasing FA devices.
- •Personnel in charge of designing FA systems.
- •Personnel in charge of managing FA systems and facilities.

General Precautions

- •The user must operate the product according to the performance specifications described in the operation manuals.
- •Consult your OMRON representative before using the product under conditions which are not described in the manual or applying the product to nuclear control systems, railroad systems, aviation systems, vehicles, combustion systems, medical equipment, amusement machines, safety equipment, and other systems, machines, and equipment that may have a serious influence on lives and property if used improperly.
- •This manual provides important information for using the CS1W-CIF31 USB-Serial Conversion Cable. Be sure to read this manual before attempting to use the Conversion Cable and keep this manual close at hand for reference during operation.

⚠ WARNING

It is extremely important that a PLC and all PLC Units be used for the specified purpose and under the specified conditions, especially in applications that can directly or indirectly affect human life. You must consult with your OMRON representative before applying a PLC system to the above mentioned applications.

Operating Environment Precautions

Do not use the USB-serial Conversion Cable in the following places:

- •Locations subject to strong electromagnetic fields.
- ·Locations subject to direct sunlight.
- •Locations subject to temperatures or humidity outside the range specified in the specifications.
- •Locations subject to condensation as the result of severe changes in temperature.
- ·Locations subject to corrosive or flammable gases.
- •Locations subject to excessive dust, or salts, or metal filings.
- •Locations subject to exposure to water, oil, or chemicals.
- ·Locations subject to shock or vibration.

Provide proper shielding when installing in the following locations:

- •Locations subject to static electricity or other sources of noise.
- Locations subject to strong electromagnetic fields.
- •Locations subject to possible exposure to radiation.
- Locations near power supply lines.

■ Application Precautions

Observe the following precautions when using the USB-Serial Conversion Cable.

- •These cables are designed specifically to connect a personal computer to an OMRON PLC or PT. Do not use them to connect any other devices and do not use a commercially available USB-serial conversion cable in place of these cables. Improper usage of these cables may result in damage to external devices, the PLC, or the PT.
- •Do not attempt to disassemble, repair, or modify any Units.
- •Touch a grounded metal object to discharge any static electricity before connecting the Conversion Cable to the PLC's connector, a PLC Connecting Cable, or the personal computer's USB port.
- •To avoid malfunctions due to noise, do not route the Conversion Cable parallel or close to a high-tension power line.
- •Tighten the D-sub connector screws to a torque of 0.4 N·m.
- •Either turn OFF the power supply to the computer or disconnect the cable from the USB connector before setting the DIP switch.
- •Always lock any connectors that are equipped with locking mechanisms.
- •Do not place anything on the cable.
- •Do not bend the cable past it's normal bending radius or pull on the cable.
- •Touch the Unit only after touching a grounded metal object to release static electricity from your body.
- •Disconnect or connect the cable only after confirming that communications are not in progress.
- •Do not quickly and repeatedly connect and disconnect the USB connector. Doing so may cause the computer to malfunction.
- •It may take some time for the computer to detect the cable after the cable is connected. This is not a malfunction.
- Do not connect the RS-232C connector on the CS1W-CIF31 Cable (D-sub type) directly to the RS-232C or RS-422/485 connector on the PLC. The cable may malfunction.
- •Do not connect this cable to a USB hub; connect it directly to a USB connector on the computer.

The cable may malfunction.

•Do not extend the USB portion of this cable with an extension cable. The cable may malfunction.

Perform wiring so that the power supply wires are not exposed and do not come into contact with any metal parts. Contact with metal parts may cause a fire.

■ EC Directives

Applicable Directives

- •EMC Directives
- Low Voltage Directive

Concepts

EMC Directives

OMRON devices that comply with EC Directives also conform to the related EMC standards so that they can be more easily built into other devices or the overall machine. The actual products have been checked for conformity to EMC standards (see the following note). Whether the products conform to the standards in the system used by the customer, however, must be checked by the customer.

EMC-related performance of the OMRON devices that comply with EC Directives will vary depending on the configuration, wiring, and other conditions of the equipment or control panel on which the OMRON devices are installed. The customer must, therefore, perform the final check to confirm that devices and the overall machine conform to EMC standards.

Note: Within the EMC (Electromagnetic Compatibility) standards, the applicable EMS (Electromagnetic Susceptibility) standard is EN61000-6-2 and the applicable EMI (Electromagnetic Interference) standard is EN50081-2 (10-m regulations.)

Low Voltage Directive

Always ensure that devices operating at voltages of 50 to 1,000 VAC and 75 to 1,500 VDC meet the required safety standards (EN61131-2).

Conformance to EC Directives

The CS1W-CIF31 USB-Serial Conversion Cables comply with EC Directives. Observe the following precautions to ensure that the machine or device in which the Conversion Cable is used complies with EC directives:

- 1. The CS1W-CIF31 USB-Serial Conversion Cable must be installed within a control panel.
- 2. Reinforced insulation or double insulation must be used for the DC power supplies providing the communications power supply and I/O power supplies.
- 3. CS1W-CIF31 USB-Serial Conversion Cables complying with EC Directives also conform to the Common Emission Standard (EN50081-2). Radiated emission characteristics (10-m regulations) may vary depending on the configuration of the control panel used, other devices connected to the control panel, wiring, and other conditions. You must therefore confirm that the overall machine or equipment complies with EC Directives.

Overview and Components

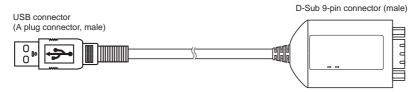
Overview

The CS1W-CIF31 USB-Serial Conversion Cable connects an OMRON PLC (Programmable Controller) or PT (Programmable Terminal) to a personal computer's USB port. The cable can be used once the required drivers (on the provided CD-ROM) have been installed in the personal computer.

The Conversion Cable can be used with OMRON PLC/PT software, such as the CX-Programmer, which use the CX-Server or FinsGateway as a communications driver, as well as other OMRON Software, such as the DeviceNet Configurator.

Appearance and Component Names

- D-sub Connector Cable
 - CS1W-CIF31 (USB Connector to D-sub Connector)



LED Indicators

Indicator	Color	Status	Description
TD	Yellow	Flashing	Data is being sent from the USB-Serial Conversion
		_	Cable.
		OFF	Data is not being sent from the USB-Serial Conversion
			Cable.
RD	Yellow	Flashing	The USB-Serial Conversion Cable is receiving data.
		OFF	The USB-Serial Conversion Cable is not receiving
			data.

Packing Lists

D-sub Connector Cable (CS1W-CIF31)

Name	Appearance
CS1W-CIF31 (USB Connector to D-sub Connector Conversion Cable)	₩ ₩ ₩ ₩ ₩ ₩ ₩ ₩ ₩ ₩ ₩ ₩ ₩ ₩ ₩ ₩ ₩ ₩ ₩
Drivers (On CD-ROM) User's Manual (this manual) (On CD-ROM in PDF format)	
Instruction Sheet	

Specifications

Compatible Operating Systems

Windows 98/ME/2000/XP

Compatible Software Applications

The compatible software applications communicate with the PLC using the CX-Server or FinsGateway. The following software applications use CX-Server or FinsGateway.

Name	Communications software
CX-Programmer	CX-Server (FinsGateway is used for network communications.)
CX-Simulator	FinsGateway
CX-Protocol	CX-Server (FinsGateway is used for network communications.)
CX-Position	FinsGateway
CX-Motion	CX-Server
CX-Process	FinsGateway or CX-Server
NS-Designer	FinsGateway
PLC Reporter	FinsGateway
Compolet	FinsGateway

The following software applications are also compatible.

- DeviceNet Configurator
- •NT Support Tool for Windows

Communications Port Limitations with the NT Support Tool

1) Version 4.00 and Earlier Versions

Only communications ports COM1 and COM2 can be used. Always change the communications port allocation for this device to COM1 or COM2 in the Microsoft Windows Device Manager (see note 1) and specify that port in the NT Support Tool's communications settings. Once the communications port is specified correctly in the Windows Device Manager and the NT Support Tool's communications settings, data such as screen data can be downloaded to the PT or uploaded from the PT through the USB-Serial Conversion Cable.

Note: In most personal computers, COM1 is allocated to the RS-232C port and communications port COM2 can be allocated to the Conversion Cable. Refer to *Changing the Allocated Communications Port* on page 35 for details on changing the communications port. Furthermore, if there is another driver using the allocated port, that driver must be uninstalled.

2) Version 4.60E and Later Versions

Any communications port between COM 1 and COM8 can be used. Check the NT Support Tool's communications settings and verify that the communications port allocated to the Conversion Cable is also specified in the NT Support Tool.

Limitations when Using the NT Support Tool's System Installer

1) Windows 98 and Windows Me

The system program cannot be downloaded to the PT through the USB-Serial Conversion Cable.

2) Windows 2000 and Windows XP

Only communications ports COM1 and COM2 can be used. Always change the communications port allocation for this device to COM1 or COM2 in the Microsoft Windows Device Manager (see note 1) and specify that port in the NT Support Tool's communications settings. Once the communications port is specified correctly in the Windows Device Manager and the NT Support Tool's communications settings, the system program can be downloaded to the PT through the USB-Serial Conversion Cable.

Note: In most personal computers, COM1 is allocated to the RS-232C port and communications port COM2 can be allocated to the Conversion Cable. Refer to *Changing the Allocated Communications Port* on page 35 for details on changing the communications port. Furthermore, if there is another driver using the allocated port, that driver must be uninstalled.

Compatible PLCs and PTs

The following OMRON PLCs and PTs are supported by the compatible software applications.

• PLCs

CS/CJ-series, C-series (see note), and CVM1/CV-series

PT

NS-series and NT-series

Note 1. The following C-series PLCs are supported: C200HS, C200HX/HG/HE, C200H, C1000H, C2000H, CQM1, CPM1, CPM1A, CPM2A, SRM1, CQM1H, and CPM2C.

Connection Configurations

The following table shows the connection configurations that can be used to connect an OMRON PLC (or PT) to a personal computer's USB port.

USB-Serial Conversion Cable's serial connector CS1W-CIF31 (D-sub version) D-sub 9-pin male			a personal computer s 03b port.		
Cable connector CSTW-CIF31 (D-sub 9-pin male			Required adapters or cables		
CS1W-CIF31 (D-sub yersion) D-sub 9-pin male CS1W-CN226/626 (Programming Device Connecting Cable for a CS/CJ-series peripheral port and personal computer) **WW2Z-200/500S-CV or XW2Z-200/500S-V (Programming Device Connecting Cable for an RS-232C port and personal computer) + *CS1W-CN118 (RS-232C to CS/CJ-series peripheral port Conversion Cable) *CQM1-CIF02 (Programming Device Connecting Cable for a C-series peripheral port to CS/CJ-series peripheral computer) + *CS1W-CN114 (C-series peripheral port to CS/CJ-series peripheral computer) + *CS1W-CN114 (C-series peripheral port to CS/CJ-series peripheral computer) *CQM1-CIF02 (Programming Device Connecting Cable for a C-series peripheral port and personal computer) *CQM1-CIF02 (Programming Device Connecting Cable for a C-series peripheral port and personal computer) *RS-232C 9-pin to 25-pin adapter *CV-series peripheral port and PC98-type personal computer) *CV-series peripheral port and PC98-type personal computer)					and PTs
(D-sub version) male (Programming Device Connecting Cable for a CS/CJ-series peripheral port and personal computer) *XW2Z-200/500S-CV or XW2Z-200/500S-V (Programming Device Connecting Cable for an RS-232C port and personal computer) + *CS1W-CN118 (RS-232C to CS/CJ-series peripheral port Conversion Cable) *CQM1-CIF02 (Programming Device Connecting Cable for a C-series peripheral port and personal computer) + *CS1W-CN114 (C-series peripheral port to CS/CJ-series peripheral port Conversion Cable) *CQM1-CIF02 (Programming Device Connecting Cable for a C-series peripheral port conversion Cable) *CQM1-CIF02 (Programming Device Connecting Cable for a C-series peripheral port and personal computer) *RS-232C 9-pin to 25-pin adapter + *CV500-CIF01 (Programming Device Connecting Cable for a CV-series peripheral port and PC98-type personal computer) *CVM1/CV-series peripheral port and PC98-type personal computer)		connector		connector	
CS/CJ-series peripheral port and personal computer) **W2Z-200/500S-CV or XW2Z-200/500S-V (Programming Device Connecting Cable for an RS-232C port and personal computer) **CS1W-CN118 (RS-232C to CS/CJ-series peripheral port Conversion Cable) **CQM1-CIF02 (Programming Device Connecting Cable for a C-series peripheral port and personal computer) **CS1W-CN114 (C-series peripheral port to CS/CJ-series peripheral port Conversion Cable) **CQM1-CIF02 (Programming Device Connecting Cable for a C-series peripheral port Conversion Cable) **CQM1-CIF02 (Programming Device Connecting Cable for a C-series peripheral port and personal computer) **RS-232C 9-pin to 25-pin adapter	CS1W-CIF31	D-sub 9-pin		CS/CJ-series	
computer) • XW2Z-200/500S-CV or XW2Z-200/500S-V (Programming Device Connecting Cable for an RS-232C port and personal computer) + •CS1W-CN118 (RS-232C to CS/CJ-series peripheral port Conversion Cable) •CQM1-CIF02 (Programming Device Connecting Cable for a C-series peripheral port and personal computer) + •CS1W-CN114 (C-series peripheral port to CS/CJ-series peripheral computer) -CQM1-CIF02 (Programming Device Connecting Cable for a C-series peripheral port Conversion Cable) •CQM1-CIF02 (Programming Device Connecting Cable for a C-series peripheral port and personal computer) •RS-232C 9-pin to 25-pin adapter + •CV500-CIF01 (Programming Device Connecting Cable for a CV-series peripheral port CVM1/CV-series peripheral port and PC98-type personal computer)	(D-sub version)	male			
*XW2Z-200/500S-CV or XW2Z-200/500S-V (Programming Device Connecting Cable for an RS-232C port and personal computer)			CS/CJ-series peripheral port and personal	port	CPM2C
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(RS-232C to CS/CJ-series peripheral port Conversion Cable) •CQM1-CIF02 (Programming Device Connecting Cable for a C-series peripheral port and personal computer) •CS1W-CN114 (C-series peripheral port to CS/CJ-series peripheral port Conversion Cable) •CQM1-CIF02 (Programming Device Connecting Cable for a C-series peripheral port and personal computer) •RS-232C 9-pin to 25-pin adapter •CV500-CIF01 (Programming Device Connecting Cable for a CV-series peripheral port and PC98-type personal computer) C-series peripheral port C-series peripheral port C-series peripheral port CV-series peripheral port CV-series peripheral port			an RS-232C port and personal computer)		
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Conversion Cable) •CQM1-CIFO2 (Programming Device Connecting Cable for a C-series peripheral port and personal computer) •CS1W-CN114 (C-series peripheral port to CS/CJ-series peripheral port Conversion Cable) •CQM1-CIFO2 (Programming Device Connecting Cable for a C-series peripheral port and personal computer) •RS-232C 9-pin to 25-pin adapter •CV500-CIF01 (Programming Device Connecting Cable for a CV-series peripheral port •CV-series peripheral port and PC98-type personal computer)			•CS1W-CN118		
*CQM1-CIF02 (Programming Device Connecting Cable for a C-series peripheral port and personal computer)			(RS-232C to CS/CJ-series peripheral port		
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CQM1-CIF02 (Programming Device Connecting Cable for a C-series peripheral port and personal computer) RS-232C 9-pin to 25-pin adapter CV500-CIF01 (Programming Device Connecting Cable for a CV-series peripheral port and PC98-type personal computer) Coseries peripheral port and PC98-type personal computer) C-series peripheral port and PC98-type personal computer C200HS, C200HZ/HG/HE, C20HZ/HG/HE, C2M1, CPM1, CPM1A, CPM2A, and SRM1 CV-series peripheral port adapter peripheral port port			(C-series peripheral port to CS/CJ-series		
(Programming Device Connecting Cable for a CV-series peripheral port and personal •RS-232C 9-pin to 25-pin adapter •CV500-CIF01 (Programming Device Connecting Cable for a CV-series peripheral port and PC98-type personal computer) (Programming Device Connecting Cable for a CV-series peripheral port and PC98-type personal computer)			peripheral port Conversion Cable)		
C-series peripheral port and personal computer) •RS-232C 9-pin to 25-pin adapter •CV500-CIF01 (Programming Device Connecting Cable for a CV-series peripheral port and PC98-type personal computer) CQM1, CPM1, CPM1, CPM1A, CPM2A, and SRM1 CV-series peripheral port adapter peripheral port			•CQM1-CIF02	C-series	C200HS,
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•RS-232C 9-pin to 25-pin adapter •CV-series peripheral port •CV500-CIF01 (Programming Device Connecting Cable for a CV-series peripheral port and PC98-type personal computer)			computer)		CPM1A, CPM2A,
+ peripheral port •CV500-CIF01 (Programming Device Connecting Cable for a CV-series peripheral port and PC98-type personal computer)			. ,		and SRM1
CV500-CIF01 (Programming Device Connecting Cable for a CV-series peripheral port and PC98-type personal computer)			•RS-232C 9-pin to 25-pin adapter	CV-series	CVM1/CV-series
(Programming Device Connecting Cable for a CV-series peripheral port and PC98-type personal computer)			+	peripheral	
(Programming Device Connecting Cable for a CV-series peripheral port and PC98-type personal computer)			•CV500-CIF01	port	
CV-series peripheral port and PC98-type personal computer)					
personal computer)					
I • XW2Z-200/500S-CV or XW2Z-200/500S-V RS-232C port PLCs (CPU Unit			•XW2Z-200/500S-CV or XW2Z-200/500S-V	RS-232C port	PLCs (CPU Unit
(Programming Device Connecting Cable for (D-sub 9-pin) or Serial					
an RS-232C port and personal computer) Communication				()	
Unit/Board					
connection) or					connection) or
PTs					

Note The USB-Serial Conversion Cables are for connections between a USB port and an OMRON PLC/PT only. In particular, the CS1W-CIF31 Cable can be used only with compatible OMRON software applications even though it has a standard D-sub 9-pin connector on one end.

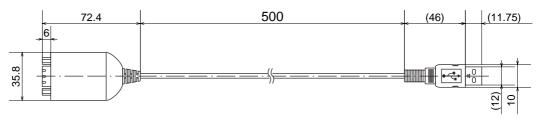
General Specifications

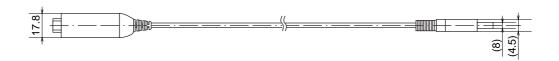
USB Interface i	rating		Conforms to USB Specification 1.1		
DTE speed			115.2 kbps		
Connector specifications	CS1W-CIF31 Computer end		USB (type A plug, male)		
		PLC end	RS-232C (D-sub 9-pin, male)		
Power supply			Bus power (5 VDC power from upstream)		
Current consumption	CS1W-CIF31		35 mA		
Operating envi	ronment				
	Ambient temperature		0 to 55°C		
Ambient humidity		dity	10% to 90% humidity (with no condensation)		
	Atmosphere		No corrosive gases		
Weight	CS1W-CIF31		50 g		

Dimensions

D-sub Connector Cable

CS1W-CIF31

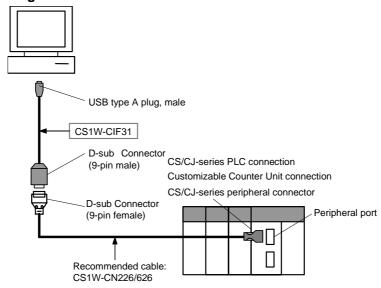




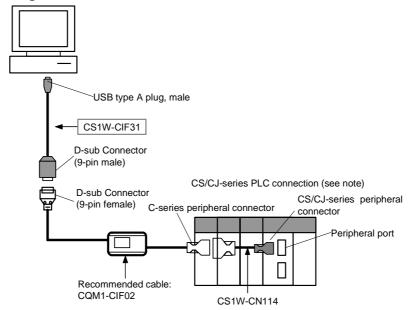
System Configuration

CS/CJ-series PLCs

- Connecting to the Peripheral Port
 - · Using a CS1W-CN226/626 Cable

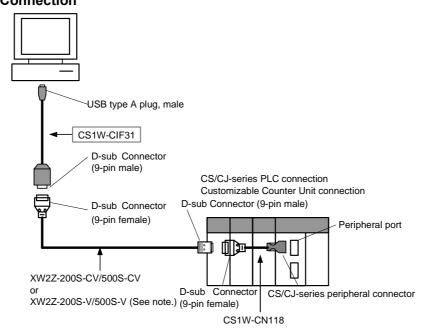


• Using a CQM1-CIF02 Cable



Note: With a CS/CJ-series PLC, the connection must be a host link connection.

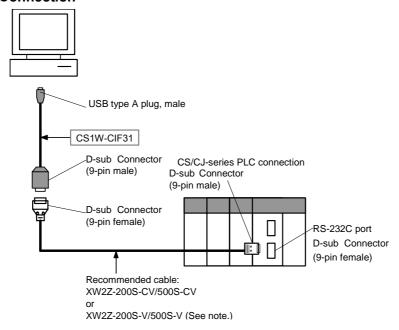
• Using a XW2Z-200S-CV/500S-CV or XW2Z-200S-V/500S-V Cable for an RS-232C Connection



Note: With a CS/CJ-series PLC, the connection must be a host link connection.

Connecting to the RS-232C Port

 Using a XW2Z-200S-CV/500S-CV or XW2Z-200S-V/500S-V Cable for an RS-232C Connection

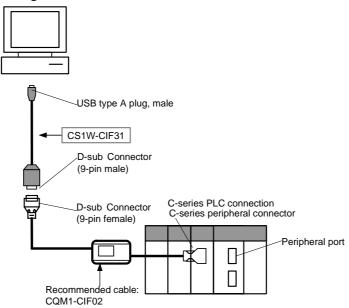


Note: With a CS/CJ-series PLC, the connection must be a host link connection.

C-series PLCs

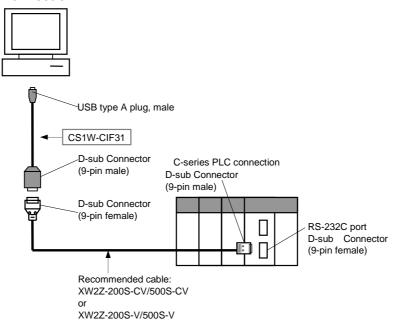
- **■** C200HS, C200HX/HG/HE, C200H, C1000H, C2000H, CQM1, CPM1A, CPM2A, or SRM1
 - Connecting to the Peripheral Port

Using a CQM1-CIF02 Cable



Connecting to the RS-232C Port

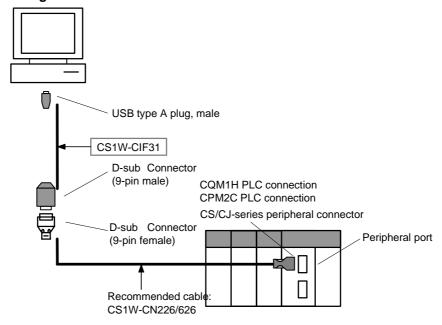
Using a XW2Z-200S-CV/500S-CV or XW2Z-200S-V/500S-V Cable for an RS-232C Connection



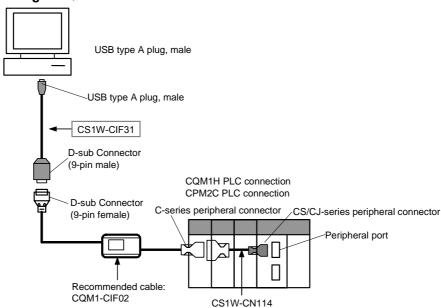
■ CQM1H and CPM2C PLCs

Connecting to the Peripheral Port

Using a CS1W-CN226/626 Cable

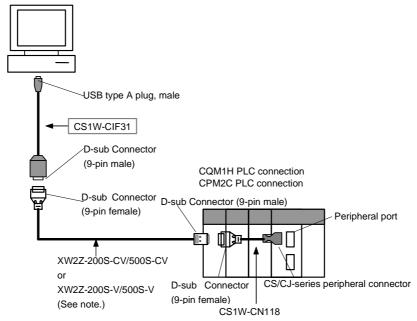


Using a CQM1-CIF02 Cable



Note: With a CS/CJ-series PLC, the connection must be a host link connection.

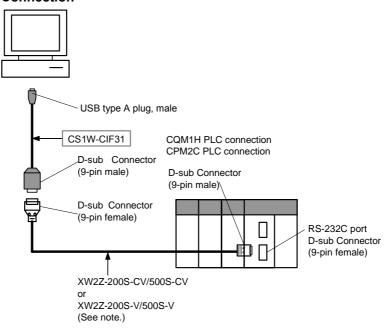
Using a XW2Z-200S-CV/500S-CV or XW2Z-200S-V/500S-V Cable for an RS-232C Connection



Note: With a CS/CJ-series PLC, the connection must be a host link connection.

Connecting to the RS-232C Port

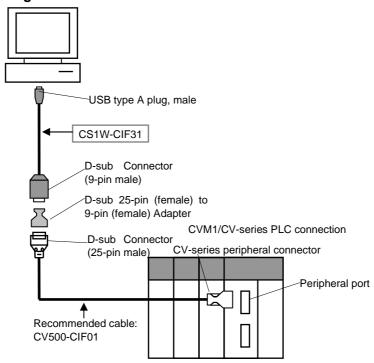
Using a XW2Z-200S-CV/500S-CV or XW2Z-200S-V/500S-V Cable for an RS-232C Connection



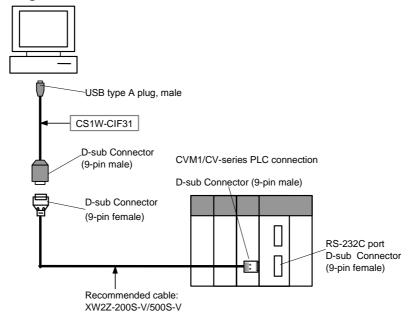
Note: With a CS/CJ-series PLC, the connection must be a host link connection.

CVM1 and CV-series PLCs

- Connecting to the Peripheral Port
 - Using a CV500-CIF01 Cable

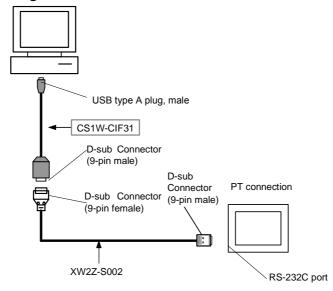


- Connecting to the RS-232C Port
 - · Using a XW2Z-200S-V/500S-V Cable



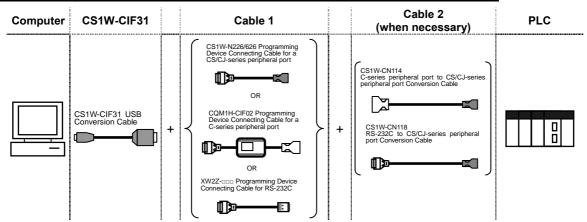
PTs (NS and NT Series)

- Connecting to the RS-232C Port
 - Using a XW2Z-S002 Cable



USB to PLC/PT Connection Tables

Connecting with the CS1W-CIF31 (D-sub Connector Cable)



CS/CJ-series Units

• CS/CJ-series CPU Units

USB Conversion Cable		Cable 1			Cable 2		Unit's port	Serial communications mode
Model	Connector	Model	Connector	Connector	Model	Connector		(Network type)
CS1W-CIF31	D-sub 9-pin, female	CS1W-CN226/626 (Length: 2 or 6 m)	CS/CJ-series peripheral		Not necessary		CS/CJ-seri es peripheral	Peripheral bus (Toolbus) or Host link (SYSWAY)
CS1W-CIF31	D-sub 9-pin, female	CQM1-CIF02 (Length: 3.3 m)	C-series peripheral	C-series peripheral	CS1W-CN114 (Length: 5 cm)	CS/CJ-series peripheral		Host link (SYSWAY)
CS1W-CIF31	D-sub 9-pin, female	XW2Z-200S-CV /500S-CV (Length: 2 or 5 m)	D-sub 9-pin, male	D-sub 9-pin, female	CS1W-CN118 (Length: 0.1 m)	CS/CJ-series peripheral		Peripheral bus (Toolbus) or Host link (SYSWAY)
CS1W-CIF31	D-sub 9-pin, female	XW2Z-200S-V /500S-V (Length: 2 or 5 m)	D-sub 9-pin, male	D-sub 9-pin, female	CS1W-CN118 (Length: 0.1 m)	CS/CJ-series peripheral		Host link (SYSWAY)
CS1W-CIF31	D-sub 9-pin, female	XW2Z-200S-CV /500S-CV (Length: 2 or 5 m)	RS-232C D-sub 9-pin, male		Not necessary		RS-232C D-sub 9-pin, female	Peripheral bus (Toolbus) or Host link (SYSWAY)
CS1W-CIF31	D-sub 9-pin, female	XW2Z-200S-V /500S-V (Length: 2 or 5 m)	RS-232C D-sub 9-pin, male		Not necessary			Host link (SYSWAY)

• CS/CJ-series Serial Communications Board or Unit

USB		Cable 1			Cable 2		Unit's port	Serial
Conversion								communications
Cable								mode
Model	Connector	Model	Connector	Connector	Model	Connector		(Network type)
CS1W-CIF31	D-sub 9-pin,	XW2Z-200S-CV	RS-232C		Not necessary		RS-232C	Host link
	female	/500S-CV	D-sub 9-pin,				D-sub	(SYSWAY)
		(Length: 2 or 5 m)	male				9-pin,	
							female	
CS1W-CIF31	D-sub 9-pin,	XW2Z-200S-V	RS-232C		Not necessary			
	female	/500S-V	D-sub 9-pin,					
		(Length: 2 or 5 m)	male					

Customizable Counter Unit

USB		Cable 1			Cable 2		Unit's port	Serial
Conversion								communications
Cable								mode
Model	Connector	Model	Connector	Connector	Model	Connector		(Network type)
CS1W-CIF31	D-sub 9-pin,	CS1W-CN226/626	CS/CJ-serie		Not necessary		CS/CJ-seri	Peripheral bus
	female	(Length: 2 or 6 m)	s peripheral				es	(Toolbus)
							peripheral	
CS1W-CIF31	D-sub 9-pin,	XW2Z-200S-V	D-sub 9-pin,	D-sub 9-pin,	CS1W-CN118	CS/CJ-serie		Peripheral bus
	female	/500S-V	male	female	(Length: 0.1 m)	s peripheral		(Toolbus)
		(Length: 2 or 5 m)			, - ,			

C-series Units

Note: In this table, the C-series refers to the C200HS, C200HX/HG/HE, C200H, C1000H, C2000H, CQM1, CPM1, CPM1A, CPM2A, SRM1, CQM1H, and CPM2C.

◆ C200HS, C200HX/HG/HE, CQM1, CPM1, CPM1A, CPM2A, and SRM1

USB Conversion Cable		Cable 1			Cable 2		Unit's port	Serial communications mode
Model	Connector	Model	Connector	Connector	Model	Connector		(Network type)
CS1W-CIF31	female	CQM1-CIF02 (Length: 3.3 m) XW2Z-200S-CV /500S-CV (Length: 2 or 5 m)	C-series peripheral D-sub 9-pin, male		Not necessary Not necessary		peripheral RS-232C D-sub 9-pin,	Peripheral bus (Toolbus) or Host link (SYSWAY) (See note.) Host link (SYSWAY)
CS1W-CIF31	D-sub 9-pin, female	XW2Z-200S-V /500S-V (Length: 2 or 5 m)	D-sub 9-pin, male		Not necessary		female	

Note: The host link mode can be used in all of these PLCs, but the peripheral bus mode cannot be used in CPM2 \square PLCs that have a 9 as the 4th digit of the lot number. (The lot number may be 4 or 5 digits long.)

• C200H, C1000H, and C2000H CPU Units

USB Conversion Cable		Cable 1			Cable 2		Unit's port	Serial communications mode
Model	Connector	Model	Connector	Connector	Model	Connector		(Network type)
CS1W-CIF31	D-sub 9-pin, female	CQM1-CIF02 (Length: 3.3 m)	C-series peripheral	C-series peripheral	C200H-IP007	Built-in periph		Host link (SYSWAY)

USB to PLC/PT Connection Tables

• CQM1H CPU Units

USB Conversion Cable		Cable 1			Cable 2		Unit's port	Serial communications mode
Model	Connector	Model	Connector	Connector	Model	Connector]	(Network type)
	D-sub 9-pin, female	CS1W-CN226/626 (Length: 2 or 6 m)	CS/CJ-serie s peripheral		Not necessary		es	Peripheral bus (Toolbus) or Host link (SYSWAY)
CS1W-CIF31	D-sub 9-pin, female	CQM1-CIF02 (Length: 3.3 m)	C-series peripheral	C-series peripheral	CS1W-CN114 (Length: 5 cm)	CS/CJ-serie s peripheral		
CS1W-CIF31	D-sub 9-pin, female	XW2Z-200S-CV /500S-CV (Length: 2 or 5 m)	D-sub 9-pin, male	D-sub 9-pin, female	CS1W-CN118 (Length: 0.1 m)	CS/CJ-serie s peripheral		
CS1W-CIF31	D-sub 9-pin, female	XW2Z-200S-V /500S-V (Length: 2 or 5 m)	D-sub 9-pin, male	D-sub 9-pin, female	CS1W-CN118 (Length: 0.1 m)	CS/CJ-serie s peripheral		Host link (SYSWAY)
CS1W-CIF31	D-sub 9-pin, female	XW2Z-200S-CV /500S-CV (Length: 2 or 5 m)	D-sub 9-pin, male		Not necessary		RS-232C D-sub 9-pin, female	Host link (SYSWAY)
CS1W-CIF31	D-sub 9-pin, female	XW2Z-200S-V /500S-V (Length: 2 or 5 m)	D-sub 9-pin, male		Not necessary			

• CPM2C

USB Conversion Cable		Cable 1			Cable 2		Unit's port	Serial communications mode
Model	Connector	Model	Connector	Connector	Model	Connector		(Network type)
CS1W-CIF31	D-sub 9-pin, female	CQM1-CIF02 (Length: 3.3 m)	C-series peripheral	C-series peripheral	CS1W-CN114 (Length: 5 cm)	CS/CJ-serie s peripheral	es	Peripheral bus (Toolbus) or Host
							peripheral	link (SYSWAY) (See note 1.)
CS1W-CIF31	D-sub 9-pin, female	CQM1-CIF02 (Length: 3.3 m)	C-series peripheral	C-series peripheral	CPM2C-CN111 (Peripheral port connector)	CS/CJ-serie s peripheral		
CS1W-CIF31	D-sub 9-pin, female	CS1W-CN226/626 (Length: 2 or 6 m) (See note 2.)	CS/CJ-serie s peripheral		Not necessary			Host link (SYSWAY)
CS1W-CIF31	D-sub 9-pin, female	XW2Z-200S-CV /500S-CV (Length: 2 or 5 m)	D-sub 9-pin, male	D-sub 9-pin, female	CS1W-CN118 (Length: 0.1 m)	CS/CJ-serie s peripheral	RS-232C D-sub 9-pin, female	Host link (SYSWAY)
CS1W-CIF31	D-sub 9-pin, female	XW2Z-200S-CV /500S-CV (Length: 2 or 5 m)	D-sub 9-pin, male	D-sub 9-pin, female	CPM2C-CN111 (RS-232C port connector)	CS/CJ-serie s peripheral		
CS1W-CIF31	D-sub 9-pin, female	XW2Z-200S-V /500S-V (Length: 2 or 5 m)	D-sub 9-pin, male	D-sub 9-pin, female	CS1W-CN118 (Length: 0.1 m)	CS/CJ-serie s peripheral		
CS1W-CIF31	D-sub 9-pin, female	XW2Z-200S-V /500S-V (Length: 2 or 5 m)	D-sub 9-pin, male	D-sub 9-pin, female	CPM2C-CN111 (RS-232C port connector)	CS/CJ-serie s peripheral		

Note 1: The host link mode can be used in all of these PLCs, but the peripheral bus mode cannot be used in CPM2□ PLCs that have a 9 as the 4th digit of the lot number. (The lot number may be 4 or 5 digits long.)

Note 2: Only host link mode can be used.

• C-series Host Link Unit (C200H-LK201-V1 or C120-LK201-V1)

Note: The Host Link Unit cannot be used to connect a Programming Device (such as the CX-Programmer) to a C200HX/HG/HE with the "-ZE" suffix at the end of the model number.

	ort regianiner) to a executivities the war are the end of a								
USB		Cable 1			Cable 2		Unit's port	Serial	
Conversion								communications	
Cable								mode	
Model	Connector	Model	Connector	Connector	Model	Connector		(Network type)	
CS1W-CIF31	D-sub 9-pin,	XW2Z-200P-V	D-sub 25-pin,		Not necessary		RS-232C	Host link	
	female	/500P-V	male				D-sub	(SYSWAY)	
		(Length: 2 or 5 m)					25-pin,		
							female		

• C-series Communications Board (C200HX/HG/HE PLCs Only)

USB Conversion Cable	Cable 1				Cable 2			Serial communications mode
Model	Connector	Model	Connector	Connector	Model	Connector		(Network type)
CS1W-CIF31			D-sub 9-pin, male		Not necessary			Host link (SYSWAY)
CS1W-CIF31			D-sub 9-pin, male		Not necessary			

• C200H, C1000H, and C2000H Host Link Units

Note: The C500-LK203 and C500-LK 201-V1 Host Link Units can be used with the C1000H and C2000H. The C200H-LK201-V1 and C120-LK201-V1 Host Link Units can be used with the C200H.

USB		Cable 1			Cable 2		Unit's port	
Conversion								communications
Cable								mode
Model	Connector	Model	Connector	Connector	Model	Connector		(Network type)
CS1W-CIF31	D-sub 9-pin,	XW2Z-200P-V	D-sub 25-pin,		Not necessary		RS-232C	Host link
	female	/500P-V	male				D-sub	(SYSWAY)
		(Length: 2 or 5 m)					25-pin,	
							female	

CQM1H Serial Communication Board

USB Conversion Cable		Cable 1			Cable 2		Unit's port	Serial communications mode
Model	Connector	Model	Connector	Connector	Model	Connector		(Network type)
CS1W-CIF31	D-sub 9-pin, female	XW2Z-200S-CV /500S-CV (Length: 2 or 5 m)	D-sub 9-pin, male		Not necessary		RS-232C D-sub 9-pin, female	Host link (SYSWAY)
CS1W-CIF31	D-sub 9-pin, female	XW2Z-200S-V /500S-V (Length: 2 or 5 m)	D-sub 9-pin, male		Not necessary			

■ CVM1 and CV-series

• CVM1 and CV-series CPU Units

USB Conversion Cable	Cable 1			Cable 2			Unit's port	Serial communications mode
Model	Connector	Model	Connector	Connector	Model	Connector		(Network type)
CS1W-CIF31	female	D-sub 25-pin (female) to D-sub 9-pin (female) adapter						Peripheral bus (Toolbus)
CS1W-CIF31	female		D-sub 9-pin, male		Not necessary			Host link (SYSWAY)

• CVM1 and CV-series Host Link Units

• CV500-LK201 (Port 1, Full-duplex mode)

		. (,				
USB		Cable 1			Cable 2		Unit's port	Serial
Conversion								communications
Cable								mode
Model	Connector	Model	Connector	Connector	Model	Connector		(Network type)
CS1W-CIF31	D-sub 9-pin,	XW2Z-200P-V	D-sub 25-pin,		Not necessary		RS-232C	Host link
	female	/500P-V	male				D-sub	(SYSWAY)
		(Length: 2 or 5 m)					25-pin,	
							female	

• CV500-LK201 (Port 2, Full-duplex mode)

USB		Cable 1			Cable 2		Unit's port	Serial
Conversion								communications
Cable								mode
Model	Connector	Model	Connector	Connector	Model	Connector		(Network type)
CS1W-CIF31	D-sub 9-pin,	XW2Z-200S-V	D-sub 9-pin,		Not necessary		RS-232C	Host link
	female	/500S-V	male				D-sub	(SYSWAY)
		(Length: 2 or 5 m)					9-pin,	
							female	

PTs (NS or NT Series)

USB		Cable 1			Cable 2		Unit's port	Serial
Conversion								communications
Cable								mode
Model	Connector	Model	Connector	Connector	Model	Connector		(Network type)
CS1W-CIF31	D-sub 9-pin,	XW2Z-S002	D-sub 9-pin,		Not necessary		RS-232C	Host link
	female	(Length: 2 m)	male				D-sub	(SYSWAY)
							9-pin,	
							female	

Application Procedure

This section explains how to connect a PLC CPU Unit to a personal computer with a USB-Serial Conversion Cable. Use the procedure below when connecting a PLC CPU Unit and personal computer.

The Conversion Cable uses one of the computer's COM ports for communications. When communicating with a PLC through a Conversion Cable, use the COM port allocated to the Cable.

1. Connect the Cable(s).

Connect the Conversion Cable to the computer's USB port and the CPU Unit's peripheral port or RS-232C port.

For details, refer to Connecting the Cable on page 28.

2. Turn ON the PLC's power.

Turn ON the PLC's power supply.

3. Install the communications driver.

The Conversion Cable's communications driver must be installed in the computer in order for the computer to use the Conversion Cable.

For details, refer to Installing the Driver on page 29.

4. Make an online connection to the CPU Unit through the computer software (when using the CX-Programmer.)

Select the COM port in the CPU Unit from the CX-Programmer and connect online. For details, refer to *Connecting Online from the CX-Programmer* on page 33.

Note

More than one USB-Serial Conversion Cable can be used at a time, so a single personal computer can be connected to several PLCs/PTs through two or more COM ports.

When more than one Conversion Cable is being used, connect the second and later Cables after the first Cable has been connected.

The communications driver is automatically installed for the second and later Cables, so it is not necessary to install the driver a second time. Each Cable must have its own unique COM port number. Allocate a different COM port to each Cable.

Cable Connections

Connecting the Cable

Connect the computer and CPU Unit with one of the cable configurations shown in the *USB to PLC/PT Connection Table* on page 22.

Installing the Drivers

When the USB-Serial Conversion Cable is connected to the computer, the operating system (OS) will recognize the Cable as a new device. At this point, the driver can be installed with the wizard.

The actual driver installation method depends on the OS being used. Windows 2000 is used in the examples in this section.

Note

The USB-Serial Conversion Cables are compatible with Windows XP. When you install the Conversion Cable's driver, a warning message will appear indicating that the driver software has not passed Windows Logo testing, but click *Continue Anyway* to proceed with the installation. We have thoroughly tested the driver on Windows XP and verified the it operates properly.

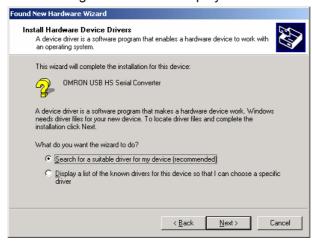
1. The following window will be displayed.



2. The following window will be displayed. Click the **Next** button.



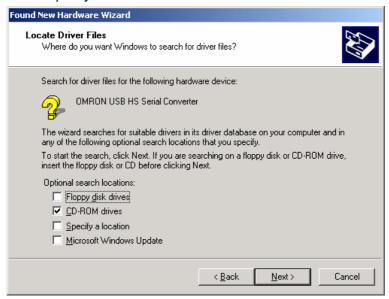
The following window will be displayed.



Installing the Drivers

3. Select Search for a suitable driver for my device (recommended) and click the **Next** button.

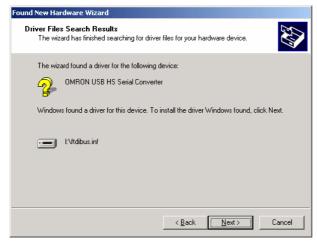
The following window will be displayed. Select *Specify a location* and click the **Next** button.



The following window will be displayed.



- 4. Insert the CD-ROM containing the driver (the CD-ROM is in the same package as the Conversion Cable) into the computer's CD-ROM drive. Click the **Browse** button, select the *ftdibus.inf* file, from the root directory of the CD-ROM and click the **OK** button.
 - If the window's *Copy manufacturer's files from* field shows the correct folder, click the **OK** button.
- 5. The following window will be displayed. Click the **Next** button to start the installing the driver.



6. The following window will be displayed if the driver was installed properly. Click the **Finish** button.

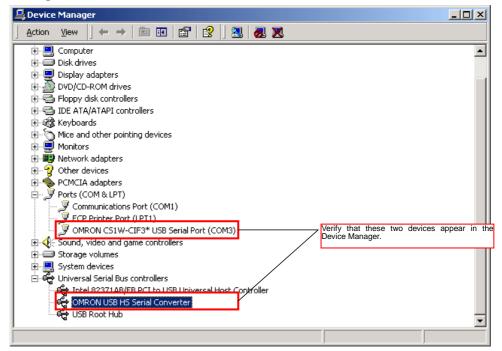


7. When the **Finish** button is clicked in step 6, the following window will be displayed for installation of the USB Serial Port driver.



Follow the same procedure in steps 1 through 7 to install the USB Serial Port driver. (Driver installation is completed after installation of the USB Serial Port driver.)

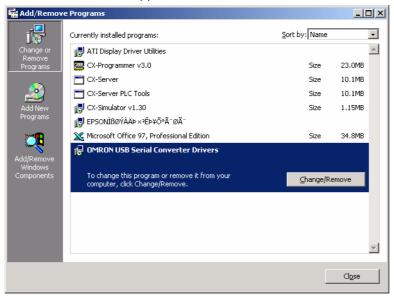
8. Verify that the drivers were installed properly with the Windows Device Manager, as shown in the following diagram. To access the Device Manager, open the Control Panel, open the System folder, click the Hardware tab, and click the Device Manager button.



Uninstalling the Drivers

Use the following procedure to delete (uninstall) the drivers for the USB-Serial Conversion Cable.

- 1. Disconnect the Conversion Cable from the computer.
- 2. Select Add or Delete Application from the Control Panel.

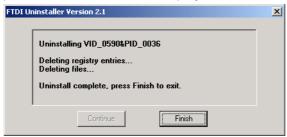


3. Select OMRON USB-to-Serial Converter Drivers and click the Delete button. The following window will be displayed.



4. Click the Continue button.

When the drivers have been successfully deleted, the message *Uninstall complete*, press Finish to exit will be displayed.



5. Click the Finish button.

This completes the deletion (uninstallation) of the Conversion Cable's drivers.

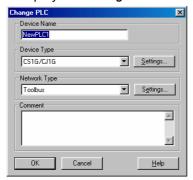
Connecting Online from the CX-Programmer

The USB-Serial Conversion Cable uses one of the computer's COM ports to communicate. The communications port (COM port) allocated to the Conversion Cable must be selected with the CX-Programmer in order to connect online to a PLC or PT.

■ Selecting the Cable's COM Port in CX-Programmer

Use the following procedure to select the COM port used by the Conversion Cable.

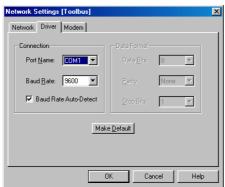
1. Display the Change PLC dialog box.



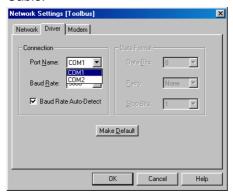
Click the **Settings** button in the *Network Type* area. Select the desired type of network.

The Network Settings dialog box will be displayed.

3. Click the **Driver** tab in the *Network Settings* dialog box.



4. Locate the *Port Name* setting and select the COM port being used by the Conversion Cable.



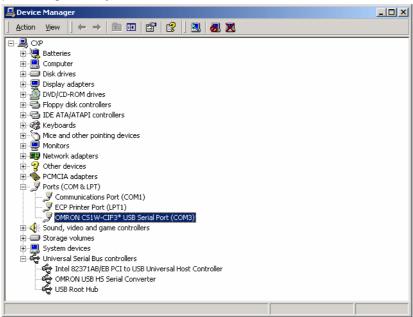
Connecting Online from the CX-Programmer

■ Verifying the Allocated Communications Port

The communications port (COM port) being used by the Conversion Cable can be verified/changed with the following procedure. The actual verification/change procedure depends on the operating system. This example shows the procedure for Windows 2000.

- 1. Open the Control Panel, open the System folder, and click the Hardware tab.
- 2. Click the **Device Manager** button.
- 3. Click the + symbol to the left of the *Ports(COM & LPT)* device icon to display the contents of that folder. Verify that there is an entry for the *OMRON CS1W-CIF3* USB Serial Port (COM*□) device.

A communications port name will appear in parentheses. This is the communications port being used by the Conversion Cable.

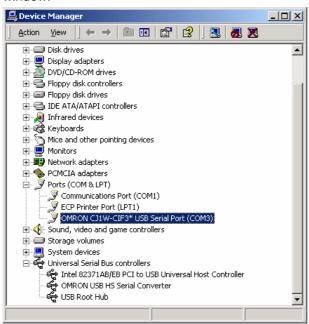


■ Changing the Allocated Communications Port

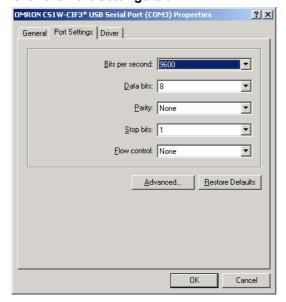
The communications port (COM port) being used by the Conversion Cable can be changed with the following procedure.

Note If the new COM port is being used by another driver, that driver must be uninstalled.

1. Double-click *OMRON CS1W-CIF3* USB Serial Port (COM*□) in the Device Manager window.

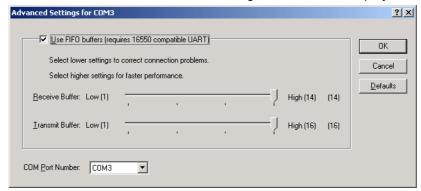


2. Click the Port Settings tab.



Connecting Online from the CX-Programmer

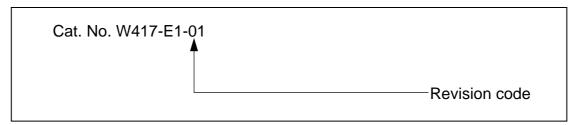
3. Click the **Advanced** button. The following window will be displayed.



- 4. Select the new COM port number from the COM Port Number list.
- 5. Click the **OK** button to change the COM port used by the Conversion Cable.

Revision History

A manual revision code appears as a suffix to the catalog number on the front cover of the manual.



The following table outlines the changes made to the manual during each revision. Page numbers refer to the previous version.

Revision code	Date	Revised content
1	November 2002	Original production

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CPM2A, and SRM117
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