

Machine Controller MP9□□

プログラミング装置用ソフトウェア PROGRAMMING UNIT SOFTWARE

取扱説明書 INSTRUCTIONS

この取扱説明書は、最終的に本製品をお使いになる方のお手元に確実に届けられるよう、お取り計らい願います。

Upon receipt of the product and prior to installing the product, read these instructions thoroughly, and retain for future reference.



YASKAWA

株式会社 安川電機

資料番号 (MANUAL NO.) TOBZ-C887-1.4

INTRODUCTION

■ Manual Contents

This manual consists of Japanese Version and English Version.

- Japanese Version: Described on pages J-1 to J-30.
- English Version: Described on pages E-1 to E-33.

Use the Japanese Version or English Version as needed.

■ User Instructions

Use these instructions for the following jobs:

- Checking machine controller MP9□□ on delivery
- Installing machine controller MP9□□
- Wiring machine controller MP9□□
- Operating machine controller MP9□□
- Inspecting and maintenance of machine controller MP930

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INSTRUCTIONS

MACHINE CONTROLLER MP9□□

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Visual Aid

The following aid is used to indicate certain type of information for easier reference.

IMPORTANT

Indicates important information that should be memorized.

Overview

■ About this Manual

This manual describes the MC350 Unit for the MP930 Machine Controller.

Read this manual carefully to ensure the proper use of the MP930 Machine Controller.

Also, keep this manual in a safe place so that it can be referred to whenever necessary.

■ Related Manuals

Refer to the following related manuals as required.

Thoroughly check the specifications, restrictions, and other conditions of the product before attempting to use it.

Manual Name	Manual Number	Contents
MP9□□ Machine Controller User's Manual: Programming Panel Software	SIEZ-C887-2.2-1, SIEZ-C887-2.2-2	Describes the CP-717 Programming Panel software used for designing and maintaining the MP9□□.
Control Pack CP-9200SH Electronic Cam Data Preparation Tool Operation Manual	SIE-C877-17.6	Describes the procedures for operating CP-9200SH Electronic Cam Data Preparation Tool.

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SOFTWARE

■ Precautions on Use

- This software must be used only with one specified computer. To use it for other computers, contact your Yaskawa representative.
- It is strongly prohibited that this software be copied for any reasons other than for backup.
- Please keep the floppy disk in custody where this software is stored (original media).
- It is strongly prohibited that this software is to be inversely compiled or assembled.
- It is strongly prohibited that this software is to be transferred, exchanged or rented and that any third party is to use all or part of this software without a prior notice.

■ Registered Trade Mark

- Windows and Windows 95/NT are trademarks of Microsoft corporation, U. S. A.
- Pentium is a trademark of Intel Corporation.
- Ethernet is a registered trademark of Xerox Corporation.

Safety Precautions

■ General Precautions

Always note the following to ensure safe use.

- MP9□□ was not designed or manufactured for use in devices or systems directly related to human life. Users who intend to use the product described in this manual for special purposes such as devices or systems relating to transportation, medical space aviation, atomic power control, or underwater use must contact Yaskawa Electric Corporation beforehand.
- MP9□□ has been manufactured under strict quality control guidelines. However, if this product is to be installed in any location in which a failure of MP9□□ involves a life and death situation or in a facility where failure may cause a serious accident, safety devices **MUST** be installed to minimize the likelihood of any accident.
- Drawings in this manual show typical product examples that may differ somewhat from the product delivered.
- This manual may change without prior notice due to product improvements and specification changes or for easier use. We will update the manual number of the manual and issue revisions when changes are made. The revision number of the revised manual appears on the back of the manual.
- Contact your nearest Yaskawa sales representative or the dealer from whom you purchased the product and quote the manual number on the front page of the manual if you need to replace a manual that was lost or destroyed.
- Contact your nearest Yaskawa sales representative or the dealer from whom you purchased the product to order new nameplates whenever a nameplate becomes worn or damaged.
- Products modified by the customer are not covered by the Yaskawa warranty, nor does Yaskawa assume any liability for injury or damage that may result from such modifications.

1 CP-717

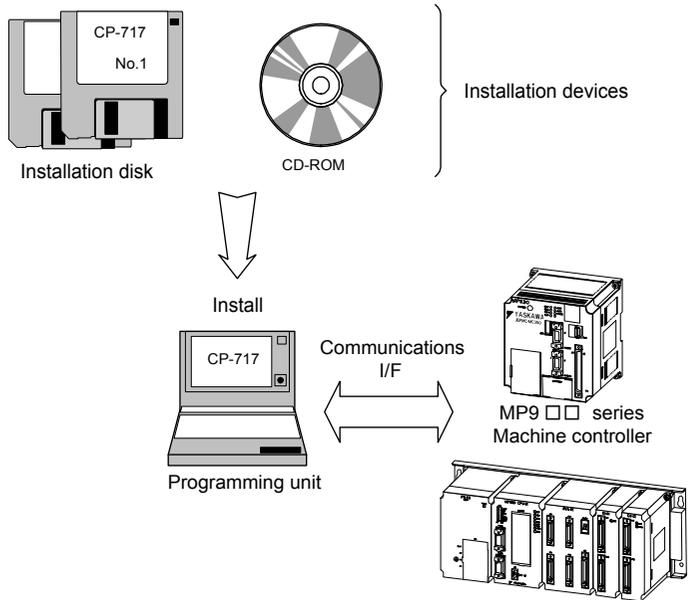
This section describes the overview of the CP-717 and specifications of the personal computer where the CP-717 is to be installed.

1.1 What is CP-717?

“CP-717” is the programming software to control and monitor the Machine Controller MP9□□ Series.

“CP-717” is software which operates on Windows 95/NT4.0; the Unit where the “CP-717” is installed in a personal computer (hereinafter called PC) is called “Programming Unit.”

CP-717 Programming Unit and the MP9□□ are normally connected by RS-232C Interface. For some MP9□□ models, ETHERNET (218IF) or real time core network (215F) can also be used. For details, refer to the User’s Manual “Design and Maintenance” of each model.



Note: Starting June, 1999, “CP-717” programming software is available on a CD-ROM. Previously available on floppy-disk. This manual can be used for both types.

1.2 Recommended Personal Computer for CP-717

The programming unit is required to have multifunctions such as high-speed data transmission with Machine Controller, control, or monitoring.

The following indicates the PC specifications for easy CP-717 operations. Check PC specifications before installing the CP-717.



Notebook-type
PC

or



Desk-top PC

Operating System

Windows 95

or

Windows NT4.0

PC Architecture	DOS/V ^{*1}
CPU	Pentium 200MHz or more ^{*2}
Memory	64M bytes or higher (128M bytes recommended) ^{*3}
Resolution	800×600 dots or higher
Hardware disk	200M bytes ^{*4}
Communications Port	RS-232C(19.2 Kbps)

*1: NEC 9800 Series PC can be used, however, in this case, communications with Machine Controller can be done only with RS-232C. High-speed communications port (215F) is not supported.

*2: Any product other than those made by Intel Corporation that is equivalent can be also used.

*3: To operate other applications simultaneously, add more memory. Otherwise, memory source is often fetched causing reductions in performance.

*4: Standard operating space after installation is also included.

2 INSTALLATION PROCEDURE

The following describes how to install the CP-717 system software.

2.1 Starting Installer

■ Using a CD-ROM

When the CP-717 software is supplied on a CD-ROM, follow the procedure described below to start up the Installer.

1. Insert the CD-ROM into the CD drive. The following window appears.



Note: When this window does not appear, start up Explorer and double-click “menu1.htm” in the saved file names to start up the window.

2. Click “CP-717 (English Version).” Use the English version of Windows for installation.
3. Double-click “Setup.exe” in the list to start up the Installer.

■ Using a floppy disk

When the CP-717 software is supplied on a floppy disk, follow the procedure described below to start up the Installer.

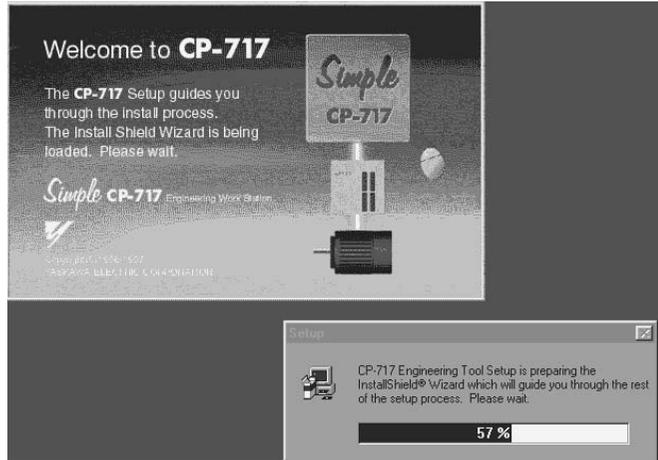
1. Insert the No. 1 disk into the floppy disk drive.
2. Display the saved file names in a list by Explorer.
3. Double-click “setup.exe” in the list to start up the Installer.

If “setup.exe” cannot be found, check the floppy disk and verify if a floppy disk other than the No. 1 disk has been set.

Note: “setup.exe” can be also started up from “Add/Remove Program” icon of the Control Panel.

2.2 Preparing Setup

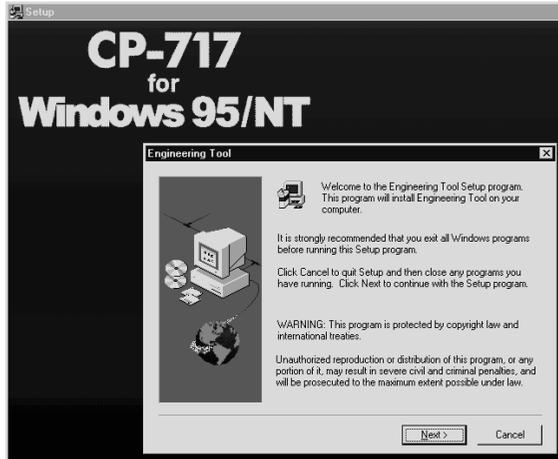
The window for setup preparation appears as shown below. While this window is given, installation is being prepared.



Time required until next window appears.

2.3 Starting Setup

The following window appears when preparation for setup has been completed, and installation can be started.



Click the [Next(N)] button after verifying the message. Then setup starts and the “User Information” window appears.

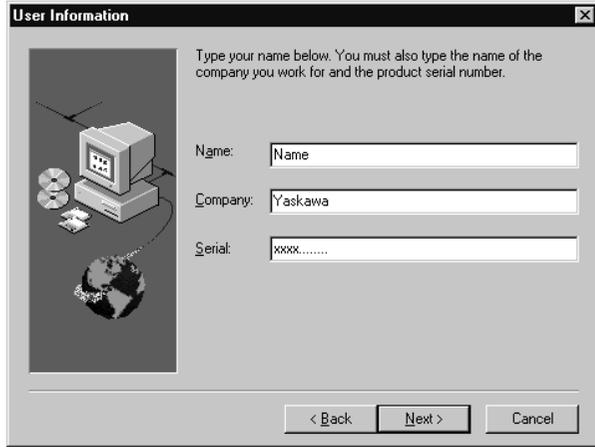
Clicking the [Cancel] button interrupts setup.

Clicking the [Next(N)] button executes processing to move to the next window. Clicking the [Back(B)] button returns to the previous display, which are common in the operations described hereinafter.

Clicking the “Cancel” button terminates the processing.

2.4 Entering User Information

1. In the “User Information” window, enter the user name, company name, and serial number as the user information.



2. After inputting the data, click the [Next(N)] button. The “Choose Destination Location” window appears.
Clicking the “Cancel” button terminates the setup operation.

2.5 Selecting Installation Destination

Select the installation destination directory.

“C:\YeTools” is the CP-717 default directory.

Clicking the [Browse...] button can change the installation destination directory, however, it is recommended that “C:\YeTools” be used.



After selecting the installation destination directory, click the [Next(N)] button. The “Select Program Folder” window appears.

2.6 Selecting Program Folder

In this window, specify and register the program folder to register the application group. Default is “YE_Applications.”

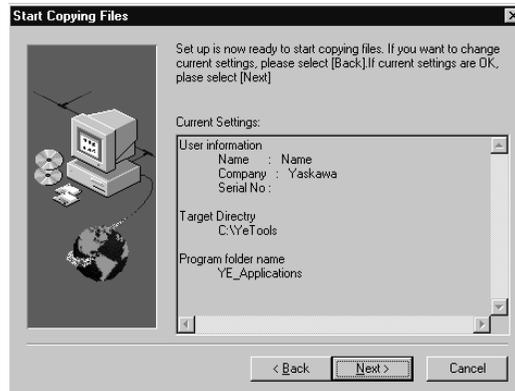
Any existing folder other than the default can be selected, however, it is recommended that “YE_Applications” be used.



When selecting the program folder, click the [Next(N)] button. The “Start Copying Files” window appears.

2.7 Verifying Setting Information

In this window, the information that have been input is displayed. To correct something, click the [Back(B)] button to return to the previous window and correct the relevant part.



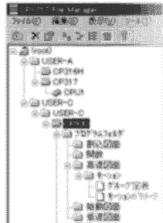
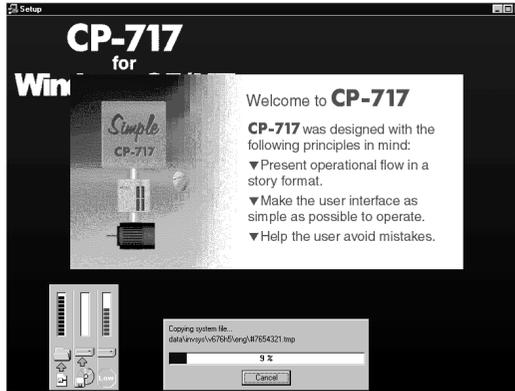
After setting is completed, click the [Next(N)] button to start copying a file.

2.8 Starting and Completing File Copy

File copy starts.

The copy progress status can be checked in the progress bar dialog and information gauge displayed at the lower part of the window.

Wait until copy is completed.



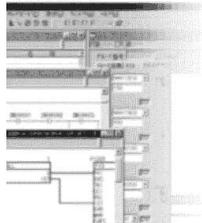
One Stop Data Management

All your data can be viewed from a single File Manager-like window. This gives you complete access to all your important information from a single location.



Setup Wizard

In Simple Operation Mode, a series of interactive screens guides you to proper configuration settings. You can begin using **CP-717** immediately, right out of the box.



Multiple Program Views

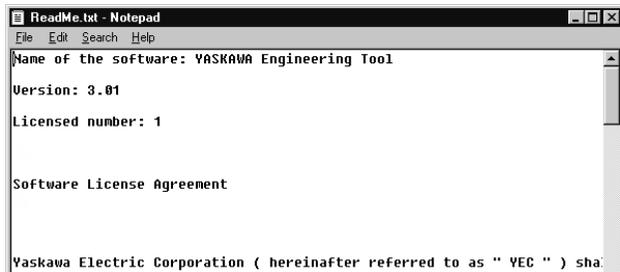
You can open many programs at once, allowing you to reference many programming windows, and work more efficiently.

2.9 Completing Setup

When copy is completed, the “Setup Complete” window appears.

There are two check boxes as follows. Mark the boxes the items whenever necessary, and click the [Finish] button.

- Selecting “Yes, Open the ReadMe file right away.” displays the Readme file (see below) which describes the “Software License Agreement.” If not necessary, remove the check mark.
- Selecting “Yes, Execute the File Manager right away.” starts up the application after completion of setup.



Readme File Window

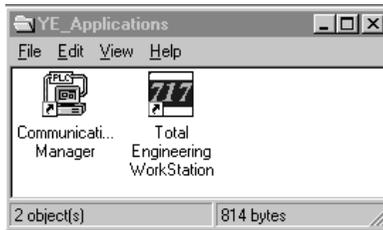
2.10 Verifying Setup Contents

When setup is completed, the common program folder (default:YE_Applications) which becomes a platform of the application groups is given on the desk top.



Perform the following steps to verify that the setup contents are executed correctly.

1. Double-click the “YE_Applications” program folder. The program folder is opened and the contents are displayed as follows.



2. Double-click the “Total Engineering WorkStation” icon to verify that the application is started up correctly.

Note: The application can also be started up by selecting this application from the program menu of the [Start] button at the left bottom on the desk top.

2.11 Folder to be Created at Installation

Installer creates a folder for each file component, and the relevant file is copied.
(File component indicates files classified into groups in the units of functions.)

	File Component	Folder to be Created
1	Readme (latest information) file, etc.	¥...¥YeTools *1
2	CP-717 program file	¥...¥YeTools¥Cp717Sys
3	CP-717 data file	¥...¥YeTools¥Cp717Usr
4	Windows communications driver	¥...¥WINDIR *2¥System
5	Common DLL	¥...¥WINDIR¥system
6	CP-717 communications program file	¥...¥YeTools¥CpComSys

*1: ¥...¥YeTools

The basic folder of the CP-717 system. Most files are installed under this folder. The folder name can be changed, however, it is recommended that the standard folder name "YeTools" be used.

*2: ¥...¥WINDIR

Indicates the folder where the Windows system has been installed. "C:¥Windows" is used for the standard installation of Windows 95. Files depending on the Windows system are installed, such as communications driver module or common DLL, for the CP-717 data transmission with Machine Controller.

3 COMMUNICATIONS SETTING

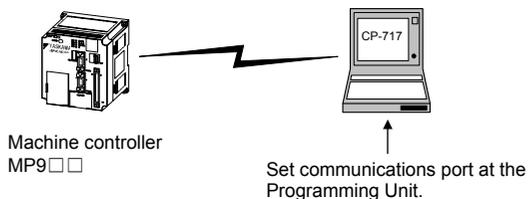
This section describes communications setting between the CP-717 and Machine Controller.

3.1 Outline of Communications Setting

When installation is completed, be sure to make communications setting for the CP-717 once. For communications medium, select the right one of the following three types and set the communications conditions.

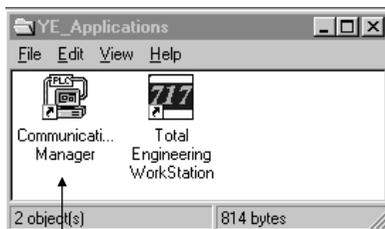
- Serial interface
- CP-215 high-speed communications interface
- CP-218 ETHERNET interface

Once setting is made, it is stored as CP-717 system information. No new setting needs to be made from the next operation, unless the setting is changed.



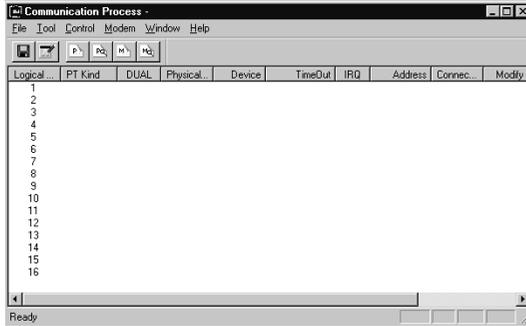
3.2 Calling Communication Process

1. Double-click the “Communication Manager” icon of the communication process in the “YE_Applications” program folder. The “Communication Process” window appears.

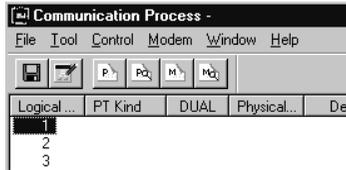


Double-click this icon.

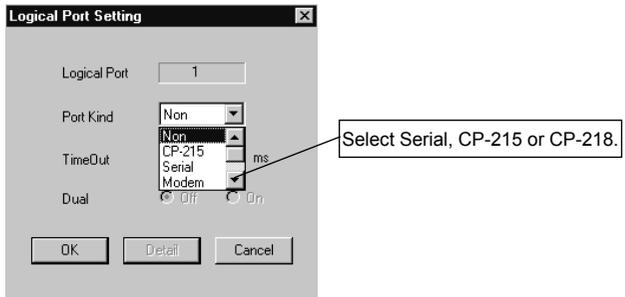
2. For communication process, logical ports up to 16 channels can be operated. Select and set an unused logical port from the top in order.



3. Double-click the relevant logical port number, or select relevant logical port number to select "Setting(E)..." from "File(F).". The following window appears when logical port number 1 has been selected.



4. Selecting the logical port calls up the following "Logical Port Setting" window. Select the relevant communications interface in "Port Kind" and go to the relevant setting process.

**IMPORTANT**

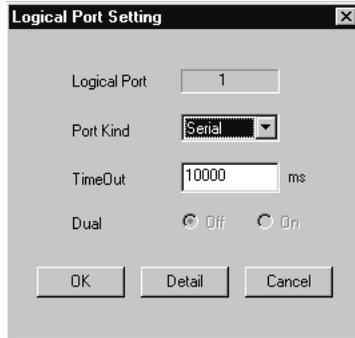
Do not set the logical port to any communications device (CP-215 or the like) which is not connected to the Programming Unit. Failure to observe this may make hardware operations unstable.

3.3 Setting of Serial Communications Port

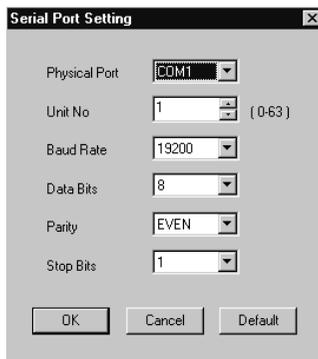
■ Setting Procedure

The following describes the setting procedure of the serial communications port.

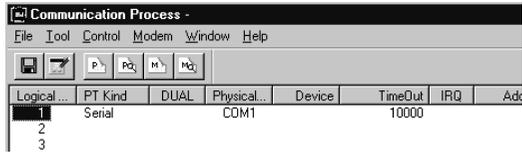
1. Select “Serial” as “Port Kind” in the “Logical Port Setting” window, and click the [Detail] button.



2. Clicking the [Detail] button calls up the “Serial Port Setting” window for the setting information; click the [OK] button after setting the serial port parameters. Normally, the following default values are entered.



3. When the “Logical Port Setting” window appears again, click the [OK] button again. The “Communication Process” window appears again, so that you can verify that “Serial” has been assigned to logical port 1.



Serial parameters have been set.

The setting contents are required to be saved in a file.

■ Saving Communications Port Set Values

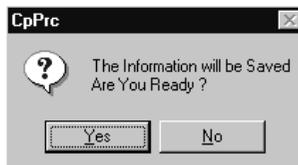
Save the set values of the communications port in a file. After that, this data is supplied as the communications port information when the communication process starts up.

The following describes how to save the communications port set values.

1. Select "Save(S)" from "File(F)."



2. The "CpPrc" (Communication process) window appears to verify whether the information is to be saved. Click the [YES] button to save it.



■ Completion of Communication process

Select "Exit(X)" from "File(F)" to close the "Communication Process" window.

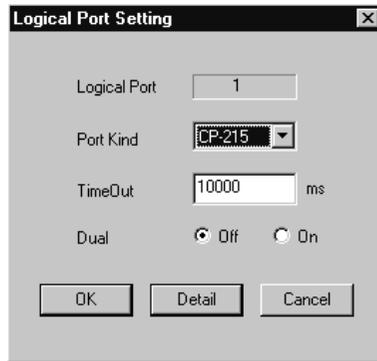


3.4 Setting of CP-215 Communications Port

■ Setting Procedure

The following describes the setting procedure of the CP-215 communications port.

1. Select “CP-215” as “Port Kind” in the “Logical Port Setting” window, and click the [Detail] button.



2. Clicking the [Detail] button calls up the “CP-215 Port Setting” window. Set the CP-215 parameters; “Hardware,” “Parameter,” “Channel” and “LinkMap” in this order which are indicated with four tabs. For “LinkMap” tab, no new setting is required.

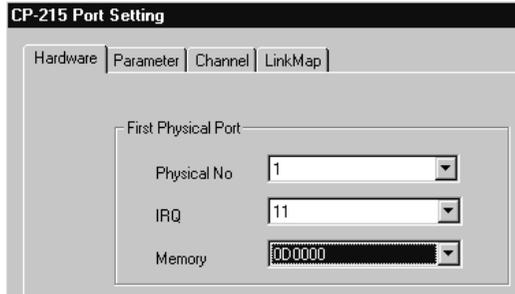


a) “Hardware” setting

Sets the operation conditions of the CP-215 PC/AT card which is mounted on the PC.

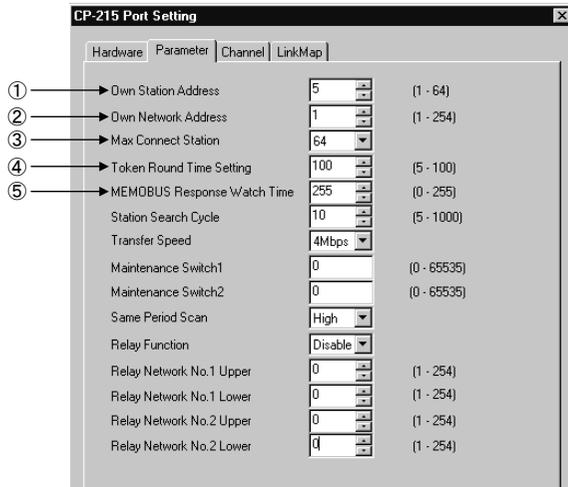
- “Physical No” (physical port)
Sets the I/O port number. If there is only one CP-215 PC/AT card, set “1.” When more than one CP-215 PC/AT card is used, assign 2, 3, 4 and so on in order.
- “IRQ” (interruption level)
Select a hardware interruption number which is currently not in use.

- “Memory” (common memory)
Sets the communications buffer address. Normally, set a memory address that is not used in UMB.



b) “Parameter” setting

Sets the CP-215 transfer parameters. Set from the “Own Station Address” to the “MEMOBUS Response Watch Time.” For parameters below the “MEMOBUS Response Watch Time,” use the default values.



① “Own Station Address”

Set the CP-717 station number.

② “Own Network Address”

Set the network number where the CP-717 is connected. Set “1” when there is only one network segment.

③ “Max Connect Station”

Set the number of the CP-215 network stations. The number of stations indicates the number of CP-215 interface modules incorporated into the Machine Controller, and the number of personal computers with CP-215 PC/AT card interface.

④ “Token Round Time Setting”

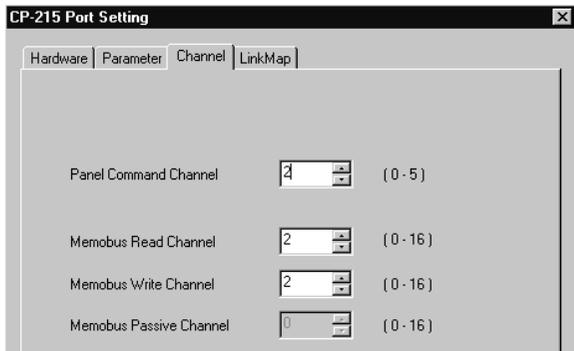
Sets the aimed time from when each station receives a token to when it receives the token again. Set “100.”

⑤ “MEMOBUS Response Watch Time”

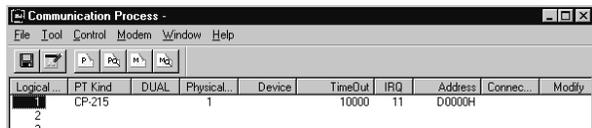
Sets the time until when a response is received at message sending. Set “255.”

c) “Channel” setting

Sets the number of panel command channels. Set “2” to the “Panel Command Channel.” Other parameters are not used with the CP-717. Use the default values. After completion of setting, click the [OK] button.



3. When the “Logical Port Setting” window appears again, click the [OK] button again. The “Communication Process” window appears again, so that you can verify that the “CP-215” has been assigned to logical port 1.



The CP-215 parameters have been set.

The setting contents are required to be saved in a file.

■ Saving Communications Port Set Value and Completing of Communication Process

Refer to paragraph 2.2.3 “Serial Communications Port Settings” of “MP9□□ Machine Controller User’s Manual (SIEZ-C887-2.2-1).”

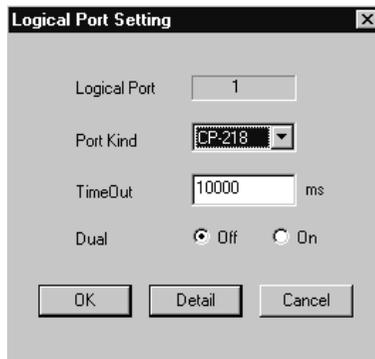
3.5 Setting of CP-218 Communications Port

The 10BASE ETHERNET is used for communications via the CP-218IF module mounted on the Machine Controller. In this case, general-purpose ETHERNET board or PCMCIA card is required to be provided for the personal computer which works as CP-717.

■ Setting Procedure

The following describes the setting procedure of the CP-218 communications port.

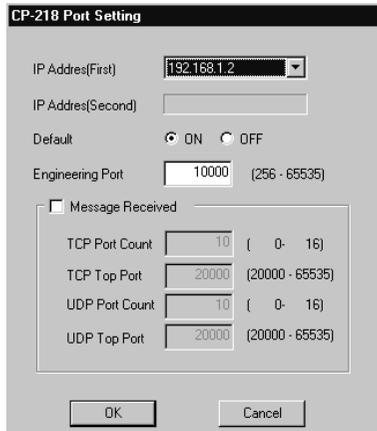
1. Select “CP-218” as “Port Kind” in the “Logical Port Setting” window, and click the [Detail] button.



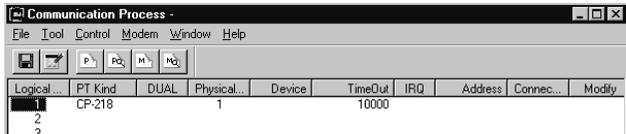
2. Clicking the [Detail] button calls up the “CP-218 Port Setting” window. Set only the “IP Address.” For other parameters, use the default values.

Set the IP address assigned to the ETHERNET board mounted on the personal computer that works as a programming unit or the PCMCIA card.

For the “IP Address,” either one of private addresses, “192.168.1.1” to “192.168.1.254” of class C are set automatically. Determine the IP address following the instructions of the personnel in charge of network management. IP address including the Machine Controller must be managed.



- When the “Logical Port Setting” window appears again, click the [OK] button. The “Communication Process” window appears again, so that you can verify that the CP-218 has been assigned to logical port 1.



The CP-218 parameters have been set.

The setting contents are required to be saved in a file.

■ Saving Communications Port Set Value and Completing Communication Process

Refer to paragraph 2.2.3 “Serial Communications Port Settings” of “MP9□□ Machine Controller User’s Manual (SIEZ-C887-2.2-1).”

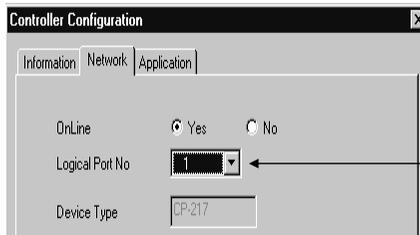
3.6 Adjustment of Logical Port Number with CP-717

Up to 16 logical ports can be registered by communication process. However, when the Machine Controller is engineered by the CP-717, you must specify which logical port is to be used.

Logical port to be used can be set for each Machine Controller. Normally, logical ports are set when registering a new Machine Controller to be used in the "File Manager."

Refer to paragraph 4.2.4 "Creating New PLC Folders" of "MP9□□ Machine Controller User's Manual (SIEZ-C887-2.2-1)."

When a new PLC folder is registered, or when the "Property" window is opened for a registered PLC folder, the following window appears. Click the "Network" tab.



This number corresponds to the logical port No. in the "Communication Process" window.

Set the logical port number to be used in the combo-box of "Logical Port No" in this window.

4 STARTING AND COMPLETING CP-717

This section describes the operation procedures to start and complete the CP-717 system.

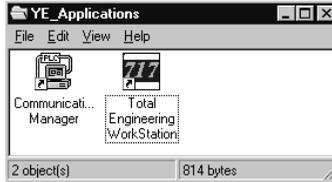
4.1 Starting CP-717

The following describes the operation procedure to start up the CP-717.

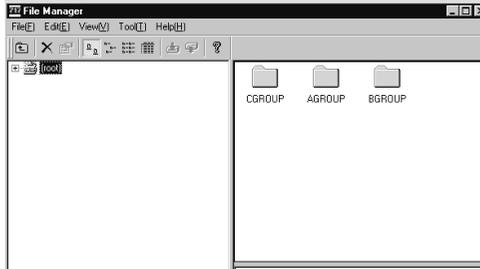
1. Turn ON the power supply to start up Windows 95.



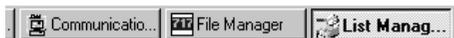
2. Double-click the program folder “YE_Applications” icon.



3. Double-click the “Total Engineering Workstation” icon of the “YE_Applications” group to start up the “File Manager.”
4. The “File Manager” window that is the main window of the CP-717 appears.

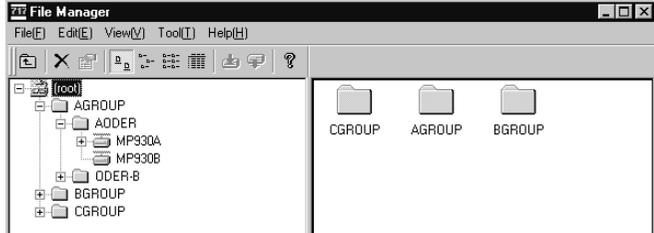


The “Communications Manager” is started up simultaneously with the “File Manager.” It can be verified with the following task bars.



4.2 Selecting Machine Controller

The “File Manager” window is the starting point for all operations. Select a Machine Controller by PLC to create a program or define data. After selecting a Machine Controller, CP-717 functions can be used. This paragraph describes the procedure until a Machine Controller is selected.



As shown in the “File manager” window, open the “AGROUP” (group folder) and “AODER” (order folder) in this order from the “root” folder, to display the system configuration. Clicking “+” (plus) sign displayed at the left side to the folder icons can develop the system configuration.

Double-click the “AODER” (order folder) to open it, and the Machine Controller name is displayed below.

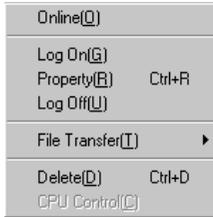


Before the Machine Controller name, a different icon from others is displayed, so that it can be verified easily.

- Logon

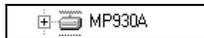
Double-clicking the Machine Controller name can control the Machine Controller by programming or monitoring. Logon indicates the status where the control is available.

Move the cursor to the Machine Controller name and right-click it before starting logon, the pop-up menu is displayed to switch online and offline modes.



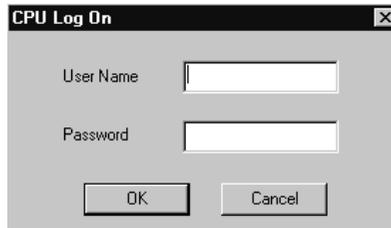
“Online(O)” without a check mark indicates the offline mode and “Online(O)” with it indicates the online mode. Clicking the “Online(O)” switches the mode.

When logon is successful, “+” is displayed in front of the icon, indicating that logon is being done.



- System Protection by User

Double-clicking the Machine Controller name for logon displays the following security dialog.



Security Dialog Box

Users that are allowed to operate must be limited at logon in order to protect the Machine Controller system during programming or running. The CP-717 protects the system by the user name and password input.

User management supports user privileged level in addition to new user registration and registered user deletion. For details, refer to paragraph 4.8 “User Management” of “MP9 □ □ Machine Controller User’s Manual (SIEZ-C887-2.2-1).”

1. User name input

Input a user name within 8 half block letters or 4 full block letters.

2. Password input

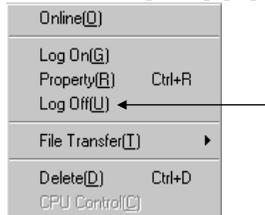
Input a password within 16 half block letters or 8 full block letters. For security, input letters are masked with “*.” Password can be input again up to three times. Inputting it more than three times cancels logon.

User registration is not made for the first logon. In this case, specified user name and password that are determined in the system are needed. Refer to “User Management.”

■ Logoff

Perform logoff after a series of operations is completed. Otherwise, anyone can operate the Machine Controller, may endanger the system. The status where the Machine Controller cannot be controlled is called logoff. Perform logon again to control the Machine Controller again. Logoff must always be done after logon.

Move the cursor to the Machine Controller name and right-click it. Clicking the “Log off(U)” in the displayed pop-up menu can perform logoff.



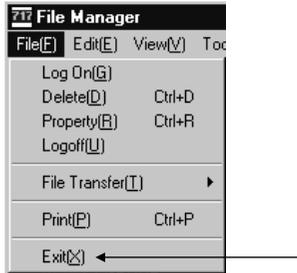
When logoff is successful, the items developed for the Machine Controller are closed. Mark “+” indicating logon that is displayed at the left to the Machine Controller name is gone.

4.3 Completing CP-717

Complete the CP-717 after logging off all the Machine Controllers that have been logged on. The CP-717 may not be completed if any windows other than the “File Manager” are opened. Therefore, close such windows.

■ Completing CP-717

Click the “Exit(X)” from “File(F)” of the “File Manager” to complete the CP-717.



Clicking the “x” mark at the right top of the “File Manager” window can also complete the CP-717.



■ Completing List Manager

Move the cursor to the “List Manager” displayed in the task bars and right-click it.

Select “Close” in the displayed pop-up menu to close the “List Manager.”

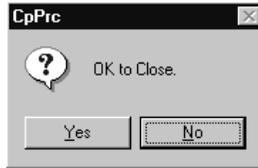


■ Completing Communication process

Move the cursor to the “Communication Process” displayed in the task bars and right-click it. Select “Close” in the displayed pop-up menu to close the “Communication Process.”



When the dialog box to verify completion of communications appears, click the [Yes] button after verifying that communications are not being done.



4.4 Turning OFF System

Windows 95 must be completed before turning OFF the power supply. Click the [Start] button of the task bars and select the "Shut Down..." in the displayed pop-up menu.

When Windows 95 is completed normally, a message "Ready to turn OFF power" is displayed. Then turn OFF the system power supply. For some personal computer specifications, the power supply is turned OFF automatically.

Machine Controller MP9

プログラミング装置用ソフトウェア PROGRAMMING UNIT SOFTWARE

取扱説明書 INSTRUCTIONS

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