

FP7 CPU Unit User's Manual

Security Functions

(MEMO)

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Introduction

Thank you for buying a Panasonic product. Before you use the product, please carefully read the installation instructions and the users manual, and understand their contents in detail to use the product properly.

Types of Manual

- There are different types of users manual for the FP7 series, as listed below. Please refer to a relevant manual for the unit and purpose of your use.
- The manuals can be downloaded from our website:https://industry.panasonic.com/global/en/downloads/?tab=manual

Unit name or purpose of use		Manual name	Manual code
FF	77 Power Supply Unit	FP7 CPU Unit Users Manual (Hardware)	WUME-FP7CPUH
		FP7 CPU Unit Command Reference Manual	WUME-FP7CPUPGR
FF	P7 CPU Unit	FP7 CPU Unit Users Manual (Logging Trace Function)	WUME-FP7CPULOG
		FP7 CPU Unit Users Manual (Security Function)	WUME-FP7CPUSEC
	Instructions for Built-in LAN Port	FP7 CPU Unit Users Manual (LAN Port Communication)	WUME-FP7LAN
	Instructions for Built-in COM Port		
	(Communication) Cassette (RS-232C and RS485 type)	FP7 series Users Manual (SCU communication)	WUME-FP7COM
	FP7 Extension (Communication) Cassette (Ethernet type)	FP7 series Users Manual (Communication cassette Ethernet type)	WUME-FP7CCET
	FP7 Extension (Function) Cassette Analog Cassette	FP7 Analog Cassette Users Manual	WUME-FP7FCA
FF	7 Digital Input/Output Unit	FP7 Digital Input/Output Unit Users Manual	WUME-FP7DIO
FF	77 Analog Input Unit	FP7 Analog Input Unit Users Manual	WUME-FP7AIH
FF	77 Analog Output Unit	FP7 Analog Output Unit Users Manual	WUME-FP7AOH
FF	7 High-speed counter Unit	FP7 High-speed counter Unit Users Manual	WUME-FP7HSC
FF	7 Pulse Output Unit	FP7 Pulse Output Unit Users Manual	WUME-FP7PG
FF	P7 Positioning Unit	FP7 Positioning Unit Users Manual	WUME-FP7POSP
	P7 Serial Communication nit	FP7 series Users Manual (SCU communication)	WUME-FP7COM
Pł	HLS System	PHLS System Users Manual	WUME-PHLS
Programming software FPWIN GR7		FPWIN GR7 Introduction Guidance	WUME-FPWINGR7

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Safety Precautions

- In order to prevent injuries and accidents, always adhere to the following.
- Always read this manual thoroughly before performing installation, operation, maintenance, and inspection, and use the device correctly.
- Ensure you are familiar with all device knowledge, safety information, and other precautions before use.
- In this manual, safety precaution levels are classified into "warnings" and "cautions".

MARNING

Cases where dangerous situations are expected to arise whereby the user could die or suffer serious injury if handled incorrectly

- Implement safety measures externally from this product so that the entire system can operate safely even if a failure occurs due to a fault in this product or some external factor.
- Do not use in an environment containing flammable gases.
 - Doing so could cause explosions.
- Do not dispose of this product by placing it in fire.
 - This could cause rupture of batteries, electronic components, etc.
- Do not apply force, electrical charge, fire or heat to the lithium batteries.
 It may lead to ignition and/or rupture.

⚠ CAUTION

Cases where dangerous situations are expected to arise whereby the user could suffer injury or physical damage could occur if handled incorrectly

- In order to prevent the product from generating abnormal heat or emitting smoke, use the product with some margin to the guaranteed characteristics and performance values.
- Do not disassemble or modify the product.
 - Doing so could cause abnormal heat generation or smoke.
- Do not touch electrical terminals while the power is on.
 - There is a risk of electrical shock.
- Construct external emergency stop and interlock circuits.
- · Securely connect wires and connectors.
 - Poor connections can cause abnormal heat generation or smoke.
- Do not perform work (connection, disconnection, etc.) while the power is on.
 - There is a risk of electrical shock.
- If methods other than those specified by our company are used when operating this product, the protection functions of the unit may be lost.
- This product was developed and manufactured for use in industrial environments.

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- Windows is a registered trademark of the USA Microsoft Corporation in the USA and in other nations.
- Ethernet is a registered trademark of Fuji Xerox Co., Ltd. and the Xerox Corporation in the USA.
- This product includes the following open-source software. Please refer to "Open Source Software Licenses" for information regarding open-source software (OSS).
- Other company and product names are trademarks or registered trademarks of their respective companies.

Handling Precautions

In this manual, the following symbols are used to indicate safety information that must be observed.



Indicates an action that is prohibited or a matter that requires caution.

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!	Indicates an action that must be taken.	
Indicates supplemental information.		
■ Note	Indicates details about the subject in question or information useful to remember.	
1 ₂ Procedure	Indicates operation procedures.	

FP7 Connector Compatibility

The connectors of old and new model FP7CPU units and add-on cassettes (hereinafter "cassettes") are shaped differently. Please use old model cassettes with old model units and new model cassettes with new model units as shown in the table below.

Old Model

Туре	Old Product No.	
CPU unit	AFP7CPS41ES, AFP7CPS41E, AFP7CPS31ES, AFP7CPS31E, AFP7CPS31S, AFP7CPS31, AFP7CPS21	
Serial Communication Unit	AFP7NSC	
Cassette	AFP7CCS1、AFP7CCS2、AFP7CCM1、AFP7CCM2、AFP7CCS1M1、AFP7CCET1、AFP7FCA21、AFP7FCAD2、AFP7FCTC2	

■ New Model

Туре	New Product No.
CPU unit	AFP7CPS4RES, AFP7CPS4RE, AFP7CPS3RES, AFP7CPS3RE, AFP7CPS3RS, AFP7CPS3R, AFP7CPS2R
Serial Communication Unit	AFP7NSCR
Cassette	AFP7CCRS1、AFP7CCRS2、AFP7CCRM1、AFP7CCRM2、AFP7CCRS1M1、AFP7CCRET1、AFP7FCRA21、AFP7FCRAD2、AFP7FCRTC2

□ Note

- Each FP7 unit can be connected to the CPU unit of a new or old model.
- Firmware version upgrades for the CPU unit are available for both new and old models.
- When attaching expansion cassettes to the FP7CPU unit, please use only old models, or only new models. Trying to attach a combination of old models and new models may cause damage.

Selection of CPU Units

Note the following points when selecting a CPU unit.

Specification changes of CPU unit

• The firmware version of CPU units has been changed in accordance with the extension of the specifications. Specify units with new model numbers.

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		Existing model number (Ver. 1)		New model number (Ver. 2/Ver. 3)	
Program capacity	Ethernet function	With Encryption function		No Encryption function	With Encryption function
196K steps	Available	AFP7CPS4E	\rightarrow	AFP7CPS4RE	AFP7CPS4RES
120K steps	Available	AFP7CPS3E	\rightarrow	AFP7CPS3RE	AFP7CPS3RES
120K steps	Not available	AFP7CPS3	\rightarrow	AFP7CPS3R	AFP7CPS3RS

- The CPU units Ver.2 and Ver.3 are upward compatible with the conventional Ver.1.
- For using CPU units Ver.2, Ver.2.0 or later version of FPWIN GR7 is required.
- For using CPU units Ver.3, Ver.2.4 or later version of FPWIN GR7 is required.
- For using the projects (programs, comments and configuration data) created for the conventinal CPUs Ver.1, the projects must be converted to the projects for CPU units Ver.2 or Ver.3 using the "Convert PLC Type" function of the tool software.
- For information on the CPU versions and FPWIN GR7 version that can be used with each unit and extension cassettes, refer to "2.1 Unit to be Used and Applicable Versions".
- The layout of the operation monitor LEDs on Ver.1 of the CPU unit is different from that on Ver.2 or later.

■ Regulations on Encryption function in China

- Some CPU units have the encryption function which encrypts a part or all parts of programs in projects.
- In China, the types equipped with the encryption function cannot be used as they are subject to "Regulation of Commercial Encryption Codes". For using machines or systems incorporating FP7 series in China, or exporting and importing them, select the types without the encryption function.

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1 Security Function

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1.1 Overview of Security Function

1.1.1 Precautions on Using Security Function

- Security information set for each function can be cleared using the tool software, however, performing the clearing operation also deletes project data. Fully confirm before determining the operations of each security function.
- Although the encryption function encrypts programs to make them unreadable, it cannot
 protect projects from being read or rewritten. Use the password protection function in
 combination as necessary.

1.1.2 Type of Security Functions

■ Password function (1)

- This is a function to set a password for project data downloaded to the PLC for preventing data from being read and written. Using this function prevents unnecessary rewrting or leak of know-how.
- The password is valid for configuration data, ladder programs and comments.
- Operation memories can be read or written even when a password has been set.
- A project for which a password has been set is saved as a password-protected file even when it is saved on a PC. (Available in FPWIN GR7 Ver.1.3 or later)

Item	Specifications
No. of registerable passwords	16 (Settable as administrator or users) (Note 1)
No. of characters	8 to 16 characters
Open and close for each communication route	Only connected port is allowed to access.
Limit on number of failed open request	Access is blocked when opening operation failed three times. It is recovered when the power turns on again.
Status when power is on	All passwords are closed when the power turns on.

(Note 1) The number one password is set with administrator privileges.

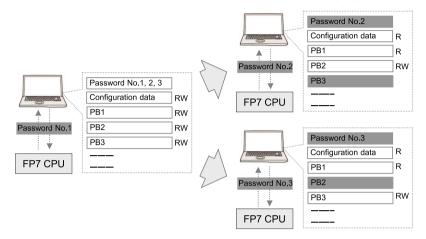


■ Password function (2) User-level password

- This is a function to set passwords for administrator or each user, which enables to change levels of access.
- All operations can be performed with administrative privileges as in the case no password is set.

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- For user-level passwords, it is possible to specify the allowable range of PB numbers of program blocks accessible when reading or writing.
- This function is available from FPWIN GR7 Ver.1.3 and CPU Ver.1.3.



	Privileges			
Item	Administr ator	User	Remarks	
Password registration, deletion, limited distribution settings, upload disabled settings, encryption settings and forcibly disable security	0			
Reading configuration data	0	0		
Writing or changing configuration data	0			
Reading files from PC	0	Δ		
Saving files into PC	0	Δ	With user privileges,	
Uploading program blocks from PLC	0	Δ	executable only in the range specified in the password	
Downloading program blocks to PLC	0	Δ	setting dialog box	
Converting program blocks	0	Δ		
Converting projects	0	0		
Reading operation memories	0	0		
Writing operation memories	0	0		

Upload protection function

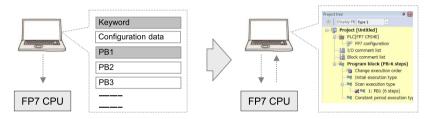
- This is a function to prevent downloaded projects from being uploaded. This function prevents the leak of programs and know-how.
- The upload protection function is valid for configuration data, ladder programs and comments.
- Even when the upload protection function has been set, projects can be downloaded and overwritten.
- This function can be used in combination with the password function.

1.1 Overview of Security Function



■ Encryption function (Models with the encryption function only)

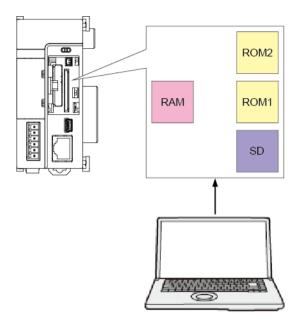
- This is a function to encrypt a part or all parts of programs in projects.
- Encryption is valid for ladder programs and comments.
- Encryption can be performed for each program block (PB).
- Encrypted programs become valid only when an encryption key has been set to the PLC and it matches.
- A project for which an encryption keyword has been set is saved as a file with the encrypted keyword even when it is saved on a PC.
- This function can be used in combination with the password function.



1.1.3 Target Items of Security Functions

Available operations for each security function vary depending on target memories.

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Operations for projects in operation program memories (RAM/ROM1)

- Downloading project data containing passwords
- Opening and closing password-protected items
- Setting and changing passwords
- Setting the read protection
- Downloading and uploading encrypted projects
- Canceling the security function

Operations for projects in program memories for backup (RAM/ROM2)

Backing up and restoring encrypted projects

Password-protected projects cannot be backed up and restored.

Operations for projects in operation program memories (RAM/ROM1) in SD memory card operation

- Opening and closing password-protected items
- Copying data from SD memory cards using limited distribution passwords to operation program memories (RAM/ROM1) and SD memory card operation

It is not possible to edit project data, set or delete passwords.

1.2 Password Protection Function

1.2.1 How to Set Password (1) Administrative Previleges

Setting Method

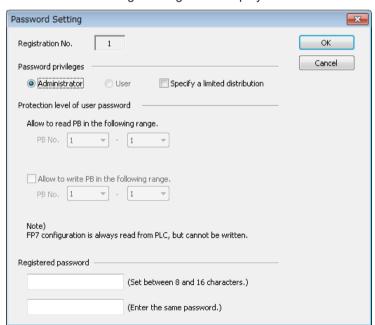
• The following procedure describes the case that a project is created offline with FPWIN GR7.

1₂ Procedure

Select Tools>PLC Security Settings>Register/Delete Password in the menu bar.
 The "Register/Delete Password" dialog box is displayed.



Select the desired number and double-click on it. The "Password Settings" dialog box is displayed.



3. Enter the desired password and press the [OK] button.

"Administrator" is displayed in the "Desayyord Settings" displayed.

"Administrator" is displayed in the "Password Settings" dialog box, and the password is registered.

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When it is online, the following message box is displayed.



f Info.

- Only an administrator password can be set in the password number one. User-level passwords cannot be set.
- An administrator password can be also set in numbers 2 to 16.
- If necessary, change passwords by a similar procedure as above.

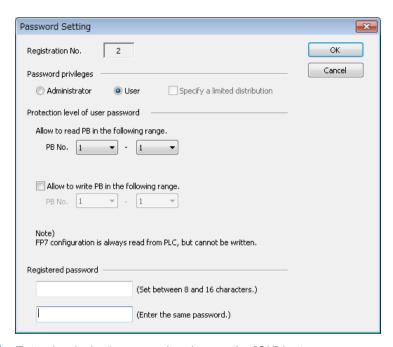
1.2.2 How to Set Password (2) User Privileges

Setting Method

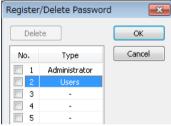
• The following procedure describes the case that an administrator password has been already set in the registration number one.

1₂ Procedure

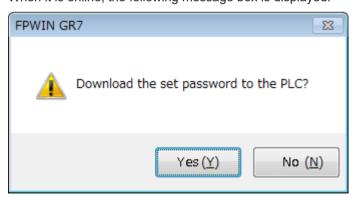
- 1. Select Tools>PLC Security Settings>Register/Delete Password in the menu bar.
- 2. Select the desired number and double-click on it. The "Password Settings" dialog box is displayed.
- 3. Change the password privileges to "User" and set the protection level.



Enter the desired password and press the [OK] button.
 "User" is displayed in the "Password Settings" dialog box, and the password is registered.



When it is online, the following message box is displayed.



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fi Info.

- User passwords and protection levels can only be set by those with administrator privileges.
- As for user passwords, the range of PB numbers that are readable or writable can be specified for each registration number.

1.2.3 Reading Project that Password Has Been Set (1) Administrative Previleges

Setting Method

 The following procedure describes the case that a project with a password is uploaded from the PLC.

1₂ Procedure

Select Online>Upload From PLC (Entire Project) in the menu bar.
 The "Input Password" dialog box is displayed.



2. Enter the registration number and the password, and press the [OK] button. When the password matches, the project is uploaded from the PLC.

"Input a Password" dialog box settings options

Item	Description	
After completion, the PLC will revert to the protected state.	Uncheck the box for canceling the protection of PLC temporarily or permanently after the completion of upload.	
Open time The PLC returns to the password protected state after the elapse of time.		
Number of retries	It indicates the allowable number of times for the entry of wrong password. The set value is always 3 times. If wrong passwords have been entered three times, you cannot enter a password any more unless the CPU unit is turned off and on again.	

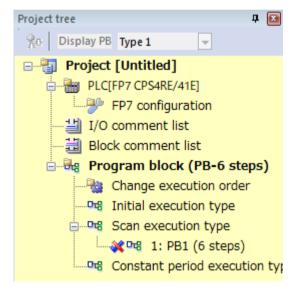


• When the read project has been changed, the "Input a Password" dialog box is displayed before downloading the changes to the PLC.

1.2.4 Reading Project that Password Has Been Set (2) User privileges

Operation when reading a project with user privileges

- Reads the program blocks in the range of PB numbers that are allowed to be read.
- The background color of the project tree is cream when the project is read with user privileges.
- A red line is displayed at the PB number of the project tree in the range of PB numbers that are not allowed to be written.



fi Info.

 When the read project has been changed, the "Input a Password" dialog box is displayed before downloading the changes to the PLC. With user privileges, only the range of program blocks that are allowed to be written is downloaded.

1.2.5 Canceling Password

Setting Method

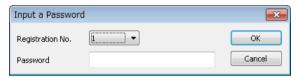
• The following procedure describes the case that a project with a password has been uploaded from the PLC.

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1₂ Procedure

1. Select Tools>PLC Security>Register/Delete Password in the menu bar.

The "Input a Password" dialog box is displayed.



Enter the password and press the [OK] button.The "Register/Delete Password" dialog box is displayed.



3. Select the No. of the password to be deleted, and press the [OK] button. When the password is that with the registration No. 1, the confirmation message box appears.



4. Press the [Yes] button.



- Even when a password is deleted, project information will not be deleted.
- If the password with registration No.1 is deleted, all other passwords will be deleted.

1.2.6 Limited Distribution Password

Overview

- Check the "Specify a limited distribution" box in the "Password Settings" dialog box to set the limited distribution password.
- Projects can be downloaded with the limited distribution password only when the same password has been set to the PLC in advance.

1.2 Password Protection Function

 This is used as a matching condition for the SD card operation and copying projects in a SD memory card to the operation program memories (RAM/ROM1).





- The limited distribution password is used for checking if the passwords for the project stored in the operation memory and the project in a SD memory card match in such case the SD memory card operation is performed using the password-protected project.
- The limited distribution password can be set with administrative privileges only.

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1.3 Upload Protection Setting

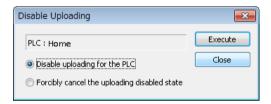
1.3.1 Operation When Upload Protection Has Been Set

- All project information stored in the PLC (programs, comments, and configuration data) cannot be read.
- It is possible to download or edit project information online.
- It can be used in combination with the password protection function as necessary.

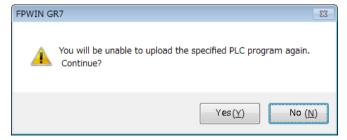
1.3.2 Setting Method

1₂ Procedure

Select Tools>PLC Security Settings>Disable Uploading in the menu bar.
 The "Disable Uploading" confirmation dialog box is displayed.



Select "Disable uploading for the PLC" and press the [Execute] button.The following confirmation message is displayed.



After confirming the message, press the [Yes] button.A message indicating the execution result is displayed.

☐ Note

 Once the above operation has been performed, project information cannot be uploaded. Fully confirm before determining the operation.

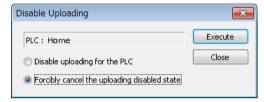
1.3.3 Canceling Upload Protection Setting

Overview

• The upload protection setting can be canceled by the following procedure.

1₂ Procedure

Select Tools>PLC Security Settings>Disable Uploading in the menu bar.
 The "Disable Uploading" confirmation dialog box is displayed.



2. Select "Forcibly cancel the uploading disable state", and press the [Execute] button. The following confirmation message is displayed.



After confirming the message, press the [Yes] button.A message indicating that the settings have been reverted to the factory defaults is displayed.

☐ Note

Performing the above operation erases not only the security setting information but also all
project information. Confirm if there is no problem erasing all the information before performing
the operation.

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1.4 Encryption Setting

1.4.1 Feature of Encryption Setting Function

- All or a part of project information is encrypted by an encryption keyword.
- Programs and comments can be encrypted for each program block (PB).
- The registered encryption keyword cannot be read.

□ Note

- The encryption keyword set in the PLC cannot be changed until it is canceled by "1.5 Canceling Security Setting". Executing the force cancel erases all project information.
 Please do not forget the encryption key.
- The encryption key must be registered in the PLC to enable the encryption function.

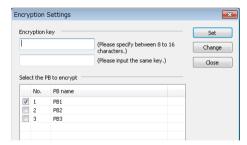
1.4.2 Encryption Setting for Program Blocks (PB)

- Program blocks (PB) to be encrypted are set with FPWIN GR7 online.
- The following procedure describes the case that three program blocks (PB) have been created in advance.

1₂ Procedure

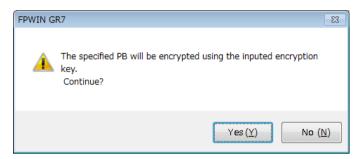
 Select Tools>PLC Security Settings>Encryption Settingsin the menu bar when the program blocks (PB) to be encrypted are active.

The "Encryption Settings" dialog box is displayed.

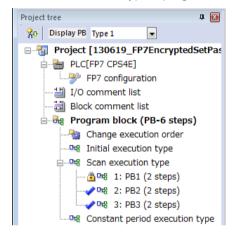


2. Select the PB to be encrypted, enter the encryption key and press the [Set] button. The following confirmation message is displayed.

1.4 Encryption Setting



After confirming the message, press the [Yes] button.
 The icon for the encrypted program block (PB) on the project tree changes to a key mark.



Repeat the "Encryption Setting" operation as necessary.

1.4.3 Confirming Encrypted State (Decryption)

• Confirm the contents of encrypted program blocks (PB) by the following procedure.

1₂ Procedure

Double-click on the icon for the encrypted program block (PB) on the project tree.
 The "Decryption" dialog box is displayed.

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Select a method of disabling encryption, enter the encryption key and press the [OK] button.

The corresponding program block (PB) is open and becomes editable.

f Info.

- By closing the program block (PB) whose encryption has been temporarily disabled, it returns to the encrypted state.
- The project cannot be downloaded to the PLC when a decrypted program block (PB) is open. Close the program block (PB), and download the project in the encrypted state.



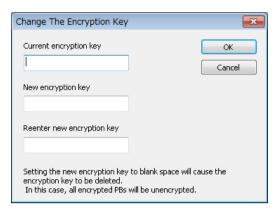
1.4.4 Changing or Deleting Encryption Key

- Changing encryption key
- The encryption key of the program block (PB) encrypted offline can be changed or deleted by the following method.

1₂ Procedure

- Select Tools>PLC Security Settings>Encryption Settings in the menu bar.
 The "Encryption Settings" dialog box is displayed.
- Enter the encryption key and press the [Change] button.The "Change The Encryption Key" dialog box is displayed.

1.4 Encryption Setting



- Enter the pre- and post-change encryption keys and press the [OK] button. If you are deleting an encryption key, leave "New Encryption Key" as blank.
 The confirmation dialog box is displayed.
- Press the [Yes] button.
 The encryption key is changed and the corresponding program block (PB) is closed.

1.4.5 How to Set Encryption Keyword for PLC (1)

- The encryption setting for the PLC can be set only in online.
- Also, set the same encryption key for downloading a project containing encrypted blocks (PB). The following procedure describes the case that each program block (PB) has been encrypted offline.

1₂ Procedure

Select Online>Download Project in the menu bar.
 The "Input Encryption Key" dialog box is displayed.



Enter the encryption key and press the [OK] button.Project information is transferred together with the encryption key.

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fi Info.

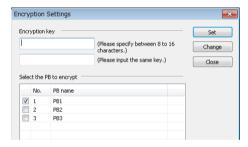
- When the encryption key does not match, "Passcode unmatch error" occurs.
- Double-clicking an encrypted program block (PB) while online displays the "Decryption" dialog box. As necessary, the contents of the program block (PB) can be confirmed by entering the encryption key.
- It is not possible to edit only encrypted program blocks (PB) online. For changing them, switch
 to offline mode, edit and download them again.

1.4.6 How to Set Encryption Keyword for PLC (2)

- The encryption setting for the PLC can be set only in online.
- For setting an encryption key before downloading a project containing encrypted program blocks (PB), the procedure is as follows.

1₂ Procedure

Select Tools>PLC Security Settings>Encryption Settings in the menu bar.
 The "Encryption Settings" dialog box is displayed.



Enter the encryption key and press the [Set] button.The "Change Encryption Key" confirmation dialog box is displayed.



3. Press the [Yes] button.

The encryption key is transferred to the PLC.

1.5 Canceling Security Setting

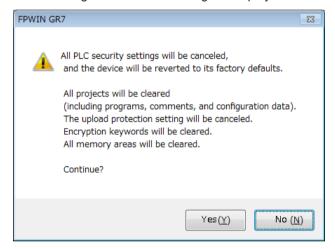
1.5.1 Setting Method

Overview

 Clears all password settings, upload protection settings and encryption keywords, and reverts them to the factory defaults.

1₂ Procedure

Select Tools>PLC Security Settings>Forcibly Disable Security in the menu bar.
 The following confirmation message is displayed.



Press the [Yes] button.

A message indicating that the settings have been reverted to the factory defaults is displayed.

■ Note

Performing the above operation erases not only the security setting information but also all
project information. Confirm if there is no problem erasing all the information before performing
the operation.

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1.6 Restrictions on SD Memory Card Operation and Copy Operation

1.6.1 SD Memory Card Operation and Copy Operation of SD Memory Card

SD memory card operation and execution project

	Project status in SD memory card			
roject status in PLC (ROM1)	Limited distribution password	Unlimited password	No password	
Limited distribution password	Operable when matched	Not operable 1	Not operable 2	
Unlimited password	Operable when matched	Operable when matched	Not operable 3	
No password	Not operable	Operable	Operable	

(Note 1) In the cases of the above "Not operable 1", "Not operable 2" and "Not operable 3", the operations become operable by disabling the password function of the execution project saved in the RAM/ROM1 of the CPU unit.

Copy operation of project in SD memory card

	Project status in SD memory card			
Project status in PLC (ROM1)	Limited distribution password	Unlimited password	No password	
Limited distribution password	Copiable when matched	Not copiable 1	Not copiable 2	
Unlimited password	Copiable when matched	Copiable when matched	Not copiable 3	
No password	Not copiable	Copiable	Copiable	

(Note 1) In the cases of the above "Not copiable 1", "Not copiable 2" and "Not copiable 3", the operations become operable by disabling the password function of the execution project saved in the RAM/ROM1 of the CPU unit.

fi Info.

 The download or online editing cannot be performed for the execution project memory (ROM1) during SD memory card operation regardless of the security function settings. Also, comments cannot be read when uploading.

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2 Appendix

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2.1 Unit to be Used and Applicable Versions

For using each unit, the following versions of CPU unit and FPWINGR7 are required.

■ CPU Unit and FPWIN GR7

	Unit type	Applicable version		Remarks
Unit type		CPU unit	FPWINGR7	Remarks
		Ver.1	Ver. 1.0 or later	
	CPS4R*/CPS3R*	Ver. 2 or later	Ver. 2.0 or later	
CPU unit	CF34K /CF35K	Ver. 3.0 or later	Ver. 2.4 or later	
		Ver. 3.2 or later	Ver. 2.5 or later	
	CPS2R	Ver. 1.0 or later	Ver. 2.7 or later	

⁽Note 1) For CPU units (CPS4R*/CPS3R*) that are Ver. 2 or later, the firmware of the CPU units can be upgraded with the "FP7 CPU Unit Upgrade Tool". For details, see our web site.

■ Intelligent Unit

Unit type	CPU unit		FPWINGR7	Remarks
	CPS4R*/CPS3R*	CPS2R	FFWINGK/	
FP7 High-speed counter Unit	Ver. 1.2 or later	Ver. 1.0 or later	Ver. 1.2 or later	(Note 1)
FP7 Serial Communication Unit	Ver. 1.2 or later	Ver. 1.0 or later	Ver. 1.3 or later	
FP7 Communication Cassette (Ethernet type)	Ver. 1.3 or later	Ver. 1.0 or later	Ver. 1.0 or later	(Note 2)
FP7 Analog I/O Cassette, Analog Input Cassette, Thermocouple Input Cassette	Ver. 2.0 or later	Ver. 1.0 or later	Ver. 2.0 or later	
FP7 Pulse Output Unit	Ver. 2.0 or later	Ver. 1.0 or later	Ver. 2.0 or later	
Thermocouple Multi-Analog Input Unit Resistance Temperature Detector (RTD) Input Unit	Ver. 2.0 or later	Ver. 1.0 or later	Ver. 2.3 or later	
FP7 Analog Input Unit (AFP7AD8)	Ver. 3.1 or later	Ver. 1.0 or later	Ver. 2.4 or later	
FP7 Expansion Master Unit FP7 Expansion Slave Unit	Ver.3.1 or later	-	Ver.2.4 or later	
Multi-wire Link Unit	Ver.4.4 or later	Ver.1.4 or later	Ver.2.17 or later	

⁽Note 1) For using the high-speed counter unit and the positioning unit in combination, and for using the interrupt function with the high-speed counter unit, the positioning unit Ver. 1.1 or later is required.

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⁽Note 2) FPWIN GR7 can be upgraded with the "FPWIN GR7 Difference File". For details, see our web site.

⁽Note 2) Configurator WD should be Ver. 1.7 or later.

Record of changes

Manual number can be found at the bottom of the cover page.

Date	Manual No.	Record of Changes
Dec. 2013	WUME-FP7CPUSEC-01	1st Edition
Nov. 2022	WUME-FP7CPUSEC-02	2nd EditionChanged product type following FP7 updateChanged manual formatting
Apr. 2024	WUME-FP7CPUSEC-03	3rd Edition • Change in Corporate name

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