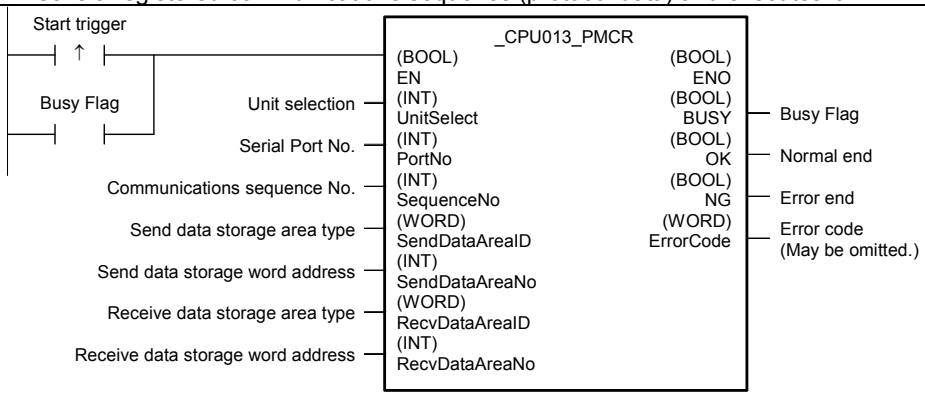
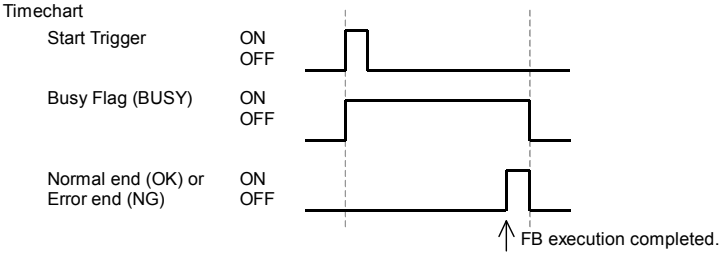
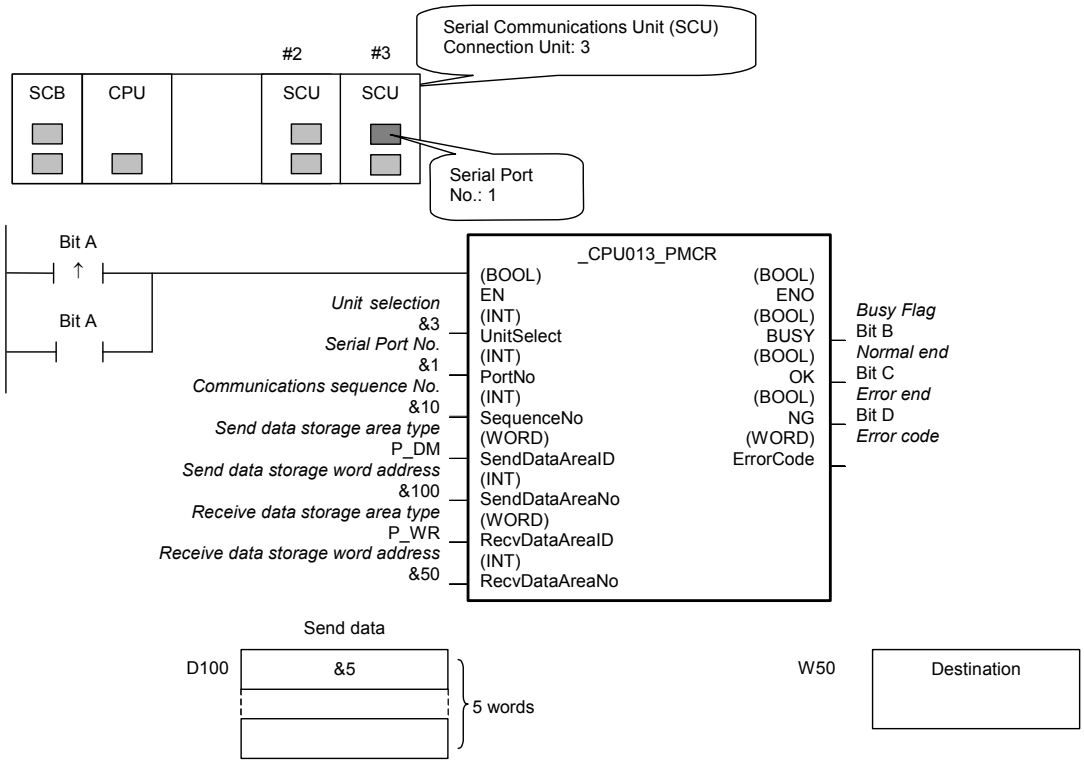
CPU -013	Execute Communications Sequence: _CPU013_PMCR

Basic function	CPU Unit Cannot be used for connection to the CPU Unit. Serial Communications Unit (SCU)/Board (SCB) Calls a registered communications sequence (protocol data) and executes it.	
Symbol		
File name	Lib\FLB\omronlib\PLC\CPU_CPU013_PMCR10.cxf	
Applicable models	CPU Unit	CS1*-CPU**H Unit version 3.0 or higher CJ1*-CPU**H Unit version 3.0 or higher CJ1M-CPU** Unit version 3.0 or higher CP1H
	Serial Communications Units/Boards	CS1W-SCU21-V1, CJ1W-SCU21-V1, CJ1W-SCU41-V1 CS1W-SCB21-V1 and CS1W-SCB41-V1
	CX-Programmer	Version 5.0 or higher
Conditions for usage	Shared Resources • Communications ports (internal logical ports) Other • Communications must be within one network and cannot cross to another network.	
Function description	The specified registered communications sequence (protocol data) is called and executed for the Serial Communications Unit (SCU) or Serial Communications Board (SCB) serial port for the specified *Connection Unit* and *Serial port No.* The word designation for storing the send/receive data is specified using the area type and beginning word address. For example, for D1000, the area type is set to P_DM and the beginning word address is set to &1000.	
FB precautions	• The FB is processed over multiple cycles. The BUSY output variable can be used to check whether the FB is being processed. • OK or NG will be turned ON for one cycle only after processing is completed. Use these flags to detect the end of FB processing. Timechart 	
EN input condition	Connect EN to an OR between an upwardly differentiated condition for the start trigger and the BUSY output from the FB.	
Restrictions **Input variables**	• Always use an upwardly differentiated condition for EN. • If the input variables are out of range, the ENO Flag will turn OFF and the FB will not be processed.	
Output variables	• This FB requires multiple cycles to process. Always connect an OR including the BUSY output variable to the EN input variable to ensure that the FB is processed to completion (see *Symbol*). • Do not turn the BUSY output variable ON or OFF outside the FB.	

Application example	When bit A turns ON, the send data in five words beginning with D100 is used and the protocol macro is executed. The receive data is stored in W50. (The size of the receive data depends on the protocol macro.)



■ **Variable Tables**

Input Variables

Name	Variable name	Data type	Default	Range	Description
EN	EN	BOOL			1 (ON): FB started. 0 (OFF): FB not started.
Unit selection	UnitSelect	INT	&0	At right.	Specify the Unit and the serial port.
Serial Port No.	PortNo	INT	&1	&1 to &2	■ Connected to CPU Unit Cannot be used. ■ Connected to Serial Communication Board(SCB) Model selection #BBBB Serial port No. &1: Port 1 &2: Port 2 ■ Connected to Serial Communication Unit(SCU) Model selection SCU Unit No. (&0 to &15) Serial port No. &1: Port 1 &2: Port 2
Communications sequence No.	SequenceNo	INT	&0	&0 to &999	
Send data storage area type	SendDataAreaID	WORD	#00B0	At right.	No Send data: #0000 P_CIO (#00B0): CIO Area P_WR (#00B1): Work Area P_HR (#00B2): Holding Area P_DM (#0082): DM Area P_EM0 (#0050) to P_EMC (#005C): EM Area bank 0 to C
Send data storage word address	SendDataAreaNo	INT	&0		
Receive data storage area type	RecvDataAreaID	WORD	#00B0	At right.	No Receive data: #0000 P_CIO (#00B0): CIO Area P_WR (#00B1): Work Area P_HR (#00B2): Holding Area P_DM (#0082): DM Area P_EM0 (#0050) to P_EMC (#005C): EM Area bank 0 to C
Receive data storage word address	RecvDataAreaNo	INT	&0		

Output Variables

Name	Variable name	Data type	Range	Description
ENO (May be omitted.)	ENO	BOOL		1 (ON): FB processed normally. 0 (OFF): FB not processed or ended in an error.
Busy Flag	BUSY	BOOL		Automatically turns OFF when processing is completed.
Normal end	OK	BOOL		Turns ON for one cycle when processing ends normally.
Error end	NG	BOOL		Turns ON for one cycle when processing ends in an error.
Error code (May be omitted.)	ErrorCode	WORD		Outputs the error code when execution ends in an error in the communications command level. Refer to the *FINS Command Reference Manual* (W227) for details on the error codes.

■ **Version History**

Version	Date	Contents
1.00	2004.6.	Original production

Note

This manual is a reference that explains the function block functions.
It does not explain the operational limitations of Units, components, or combinations of Units and components. Always read and understand the Operation Manuals for the system's Units and other components before using them.