



Device/PLC Connection Manuals



About the Device/PLC Connection Manuals

Prior to reading these manuals and setting up your device, be sure to read the "Important: Prior to reading the Device/PLC Connection manual" information. Also, be sure to download the "Preface for Trademark Rights, List of Units Supported, How to Read Manuals and Documentation Conventions" PDF file. Furthermore, be sure to keep all manual-related data in a safe, easy-to-find location.

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Δ.1

Maximum Number of Consecutive Device Address

The following lists the maximum number of consecutive addresses that can be read by each PLC. Refer to these tables to utilize *Block Transfer*.



When the device is setup using the methods below, the Data Communication Speed declines by the number of times the device is read.

- When consecutive addresses exceed the maximum data number range
- When an address is designated for division
- When device types are different

To speed up data communication, plan the tag layout in screen units, as consecutive devices. (Includes the Alarm and Trend screens.)

■ PLCs

<SYSMAC C Series (includes α Series)>

	Max. No. of	
Device	Consecutive	
	Address	
Input/Output Relay	19 Words	
Internal Hold Relay	17 Words	
Data Link Relay LR	10 Words	
Latch Relay HR	10 Words	
Auxilary Memory Relay	20 Words	
AR	28 Words	
Timer (contact) TIM		
Counter (contact)	48 Words	
CNT		
Data Memory DM	64 Words	
Timer (current value)		
TIM	48 Words	
Counter (current value)	TO WORLD	
CNT		

<SYSMAC CV Series>

	Max. No. of	
Device	Consecutive	
	Address	
Input/Output Relay		
Internal Hold Relay		
SYSMAC BUS/2 Remote I/O		
Relay	19 Words	
Data Link Relay		
Latch Relay		
SYSMAC Remote I/O Relay		
Special Auxilary Relay A	28 Words	
Timer (contact) T	48 Words	
Counter (contact) C	40 WOIUS	
Data Memory D	64 Words	
Timer (current value) T	48 Words	
Counter (current value) C	TO WORLD	

<SYSMAC CS1/CJ/CJ1M Series>

Device	Max. No. of Consecutive Addresses
Channel I/O	
Internal Auxiliary Relay	
Hold Relay	
Special Auxiliary Relay	
Timer(Contact)	
Counter(Contact)	
Timer(Current)	255 Words
Counter(Current)	
Data Memory	
Exp. Data Memory (E0 to EX)	
Exp. Data Memory	
(Current Bank)	
Task Flag	16 Words
Index Register	32 Words
Data Register	16 Words

◆ Ethernet Communication

<SYSMAC CS1 Series>

Device	Max.No.of
Device	Consecutive Addresses
Channal I/O	
Internal Auxilary Relay	
Latch Relay	
Special Auxilary Relay	
Timer (Contact)	
Counter (Contact)	400 words
Timer (Current Value)	
Counter (Current Value)	
Data Memory	
Extended Data Memory	
(E0 ~ EC)	
Extended Data Memory	
(Current Bank)	
Task Flag	16 words
Index Register	32 words
Data Register	16 words

■ Controllers

Device	Max. No. of Consecutive Address		
C0	2 Double Words		
C1			
C3			
А	1 Word		

A.2 Device Codes and Address Codes

Device codes and address codes are used to specify indirect addresses for the E-tags or K-tags.

The word addresses of data to be displayed are coded and stored in the word address specified by the E-tags and K-tags. (Code storage is done either by the PLC, or with T-tag and K-tags)

PLCs

<SYSMAC C Series>

	Device	Word Address	Device code (HEX)	Address code
	Input Relay	000~	9100	Word Address
	Internal Auxilary Relay	000	7100	Word Addices
	Analog Setup Value Storage Area	220~	9100	Word Address
Bit Device	Data Link Relay	LR00~	C 900	Word Address
	Special Auxilary Relay	244~	9100	Word Address
	Auxilary Memory Relay	AR00~	B000	Word Address
	Latch Relay	HR00~	C 100	Word Address
	Timer (current value)	TIM0000~	6000	Word Address
Word	Counter (current value)	CNT0000~	7000	Word Address
Device	Data Register	DM0000~	0000	Word Address
	LS area	LS0000~	4000	Word Address

<SYSMAC a Series>

	Device	Word Address	Device code (HEX)	Address code
	I/O Relay I	000~	9100	Word Address
	I/O Relay II	300~	9100	Word Address
	Internal Auxilary Relay I	030~	9100	Word Address
	Internal Auxilary Relay II	310~	9100	Word Address
Bit Device	Special Auxilary Relay I	236~	9100	Word Address
	Special Auxilary Relay II	256~	9100	Word Address
	Latch Relay	HR00~	C 100	Word Address
	Auxilary Memory Relay	AR00~	B000	Word Address
	Link Relay	LR00~	C 900	Word Address
	Timer (current v alue)	TIM000~	6000	Word Address
Word	Counter (current value)	CNT000~	7000	Word Address
Device	Data Memory	DM0000~	0000	Word Address
	LS area	LS0000~	4000	Word Address

<SYSMAC CV Series>

	Device	Word Address	Device code (HEX)	Address code
	Input Relay	000~	9100	Word Address
	Internal Auxilary Relay	1000	7100	Word Address
	SYSMAC BUS/2 Remote I/O Relay	0200~	9100	Word Address
Bit Device	Data Link Relay	1000~	9100	Word Address
Dit Device	Special Auxilary Relay A000~ B000	Word Address		
	Latch Relay	1200~	9100	Word Address
	Internal Auxilary Relay 1900~ 9100	Word Address		
	SYSMAC BUS/2 Remote I/O Relay	2300~	9100	Word Address
	Timer (current value)	T0000~	6000	Word Address
Word	Counter (current value)	C 0000~	7000	Word Address
Device	Data Memory	D0000~	0000	Word Address
	LS area	LS0000~	4000	Word Address

<SYSMAC CS1/CJ/CJ1M Series >

Device	Word Address	Device Address	Address Code
Channel I/O	CIO000000 -	CIO9000	Word Address
Internal Auxiliary Relay	W00000 -	B200	Word Address
Hold Relay	H00000 -	C000	Word Address
Special Auxiliary Relay	A00000 -	B000	Word Address
Timer(Current)	T0000 -	6000	Word Address
Counter(Current)	C0000 -	7000	Word Address
Data Memory	D0000 -	0000	Word Address
Exp. Data Memory (E0 to EC)	E000000 -	9200	Word Address
(E100000 -	9400	Word Address
	E200000 -	9600	Word Address
	E300000 -	9800	Word Address
	E400000 -	9A00	Word Address
	E500000 -	9C00	Word Address
	E600000 -	9E00	Word Address
	E700000 -	A000	Word Address
	E800000 -	A200	Word Address
	E900000 -	A400	Word Address
	EA00000 -	A600	Word Address
	EB00000 -	A800	Word Address
	EC00000 -	AA00	Word Address
Exp. Data Memory (Current Bank)	EM00000 -	1000	Word Address
Task Flag	TK0 -	5000	Save as word address value divided by 2.
Index Register	IR0 -	2000	Word Address
Data Register	DR0 -	3000	Word Address
LS area	LS0000 -	4000	Word Address

◆ DeviceNet Communication

	Device	Word Address	Device code (HEX)	Address code
Word Device	LS area	LS0000 ~	4000	Word Address

■ Controllers

	Device	Word Address	Device Code (HEX)	Address Code
Variable Areas	C00000 ~	80E0	Word Address	
		C10000 ~	82E0	Word Address
Word Device		C30000 ~	84E0	Word Address
VVOI Q DEVICE	Operation Commands	A0000 ~	8660	Word Address
	LS Area	LS0000 ~	40E0	Word Address