





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.

A

Toyoda Machine Works

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.)

■ PLC

<TOYOPUC-PC2 Series>

Device	Max. No. of Consecutive	Device	Max. No. of Consecutive	
	Address	Device	Address	
Input Relay X		Timer (contact) T		
Output Relay Y		Counter (contact) C		
Internal Relay I		Data Register D	128 Words	
Keep Relay K	128 Words	Link Register R		
Link Relay L	120 0000	File Register B		
Edge Detect P		Current Value Register N		

<TOYOPUC-PC3J Series>

Device	Max. No. of Consecutive Address	Device	Max. No. of Consecutive Address
Input Relay X		Exp. Output Relay EY	
Output Relay Y		Exp. Internal Relay EM	7
Internal Relay R		Exp. Keep Relay EK	1
Keep Relay K	128 Words	Exp. Link Relay EL	1
Link Relay L		Exp. Special Relay EV	
Special Relay V		Exp. Edge Relay EP	
Edge Detect P		Exp. Timer ET	
Timer (contact) T		Exp. Counter EC	
Counter (contact) C		Exp. Special Register ES	128 Words
Data Register D		Exp. Current Value Register EN	
Link Register R		Exp. Setting Value Register H	1
Special Register S		Exp. Data Register U	1
Current Value		Eva 2 Input Polay CV	7
Register N		Exp. 2 Input Relay GX	
File Register B		Exp. 2 Output Relay GY	
Exp. Input Relay EX		Exp. 2 Internal Relay GM]

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)

■ PLC

<TOYOPUC-PC2 Series>

	Device	Word Address	Device code (HEX)	Address code
Bit Device	Input Relay	X0000~	8000	Word Address
	Output Relay	Y0000~	8800	Word Address
	Internal Relay	M0000~	9000	Word Address
	Keep Relay	K0000~	C 000	Word Address
	Link Relay	L0000~	C 800	Word Address
Word Device	Register (current value)	N 0000~	6000	Word Address
	Data Register	D0000~	0000	Word Address
	Link Register	R0000~	4800	Word Address
	File Register	B0000~	7800	Word Address
	Special Register	S0000~	5000	Word Address
	LS area	LS0000~	4000	Word Address

<TOYOPUC-PC3J Series>

	Word Device code			
	Device	Address	(HEX)	Address code
		1X0000~	8000	Word Address
	Input Relay	2X0000~	8200	Word Address
	,	3X0000~	8400	Word Address
		1Y0000~	8800	Word Address
	Output Relay	2Y0000~	8A00	Word Address
		3Y0000~	8C00	Word Address
		1M0000~	9000	Word Address
	Internal Relay	2M0000~	9200	Word Address
	internal result	3M0000~	9400	Word Address
	Keep Relay	1K0000~	C000	Word Address
		2K0000~	C 200	Word Address
		3K0000~	C 400	Word Address
		1L0000~	C800	Word Address
	Link Relay	2L0000~	CA00	Word Address
		3L0000~	CC00	Word Address
66		1V0000~	B000	Word Address
Bit Device	Special Relay	2V0000~	B200	Word Address
	·	3V0000~	B400	Word Address
		1T0000~	E000	Word Address
	Timer	2T0000~	E200	Word Address
		3T0000~	E400	Word Address
		1C 0000~	F000	Word Address
	Counter	2C 0000~	F200	Word Address
	o our nor	3C 0000~	F400	Word Address
	Exp. Input	EX0000~	8600	Word Address
	Exp. Output	EY0000~	8E00	Word Address
	Exp.Internal Relay	EM0000~	9600	Word Address
	Exp. Keep Relay	EK0000~	C 600	Word Address
	Exp.n Link Relay	EL0000~	CE00	Word Address
	Exp. Special Relay	EV0000~	B600	Word Address
	Exp. Timer	ET0000~	E600	Word Address
	Exp. Counter	EC0000~	F600	Word Address
	F	1D0000~	0000	Word Address
	Data Register	2D0000~	0200	Word Address
		3D0000~	0400	Word Address
	Link Register	1R0000~	4800	Word Address
		2R0000~	4A00	Word Address
		3R0000~	4C 00	Word Address
	Special Register	1S0000~	5000	Word Address
		2S0000~	5200	Word Address
		3S0000~	5400	Word Address
		1N0000~	6000	Word Address
Word Device	Register	2N 0000~	6200	Word Address
200.00	(current value)	3N 0000~	6400	Word Address
	File Register	B0000~	7800	Word Address
	Exp. Special Register	ES0000~	5600	Word Address
	Exp. Current Value Register	EN0000~	6600	Word Address
	Exp. Setting Value Register	H0000~	7600	Word Address
	Exp. Data Register		-	Word Address
		U0000~	6000	
	Exp. 2 Output	GX0000~	A600	Word Address
	Exp. 2 Output	GY0000~	AE00	Word Address
	Exp. 2 Internal Relay	GM0000~	BE00	Word Address
	LS area	LS0000~	4000	Word Address