Pro-face

Digital
Human Machine Interface

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   Toshiba

A.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*.

Note: **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

<PROSEC EX Series>

Device	Max. No. of Consecutive Address
External Input X	
External Output Y	
Auxiliary Relay R	
Link Register Relay Z	
Timer (contact) T	
Counter (contact) C	32 Words
Data Register D	
Timer (current value) T	
Counter (current value) C	

<PROSEC T/V Series>

Device	Max. No. of Consecutive Address
External Input 1 X	
External Output 1 Y	
External Input 2 I	
External Output 2 O	
Internal Relay R	
Special Relay S	
Link Register Relay Z	
Link Relay L	32 Words
Timer (contact) T	
Counter (contact) C	
Data Register D	
Link Register W	
File Register F	
Timer (current value) T	
Counter (current value) C	

<PROVISOR B Series>

Device	Max. No. of Consecutive Address	Device	Max. No. of Consecutive Address
Input Relay X		Edge Relay E	
Output Relay Y		Timer (contact) T	
Internal Relay M		Counter (contact) C	
Extended Internal Relay 1 G		Generic Register 1	
Extended Internal Relay 2 H	16 Words	Generic Register 2	16 Words
Special Auxiliary Relay A		Timer/Counter (current value)	
Latch Relay L		Timer/Counter (current value)	
Shift Register S			

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

<PROSEC EX Series>

	Device	Word Address	Device code (HEX)	Address code
Bit Device	External Input	XW0000~	8040	Word Address
	External Output	YW0000~	8840	Word Address
	Auxiary Relay	RW0000~	9040	Word Address
	Link Register (relay)	ZW0000~	C840	Word Address
Word Device	Timer (current value)	T0000~	6000	Word Address
	Counter (current value)	C0000~	7000	Word Address
	Data Register	D00000~	0040	Word Address
	LS area	LS0000~	4040	Word Address

<PROSEC T/V Series>

	Device	Word Address	Device code (HEX)	Address code
Bit Device	External Input	XW000~	8000	Word Address
	External Output	YW000~	8800	Word Address
	Internal Output	RW000~	9000	Word Address
	Special Relay	SW000~	B000	Word Address
Word Device	Timer (current value)	T000~	6000	Word Address
	Counter (current value)	C000~	7000	Word Address
	Data Register	D0000~	0000	Word Address
	Link Register	W0000~	4800	Word Address
	File Register	F0000~	5800	Word Address
	LS area	LS0000~	4000	Word Address

<PROVISOR B Series>

	Device	Word Address	Device code (HEX)	Address code
Bit Device	Input Relay	XW00~	8000	Word Address
	Output Relay	YW00~	8800	Word Address
	Internal Relay	RW00~	9000	Word Address
	Extended Internal Relay-1	GW00~	9200	Word Address
	Extended Internal Relay-2	HW00~	9400	Word Address
	Special Auxilary Relay	AW00~	B000	Word Address
	Latch Relay	LW00~	C000	Word Address
	Shift Register	SW00~	C200	Word Address
	Edge Relay	EW00~	C400	Word Address
	Timer (contact)	TW00~	E000	Word Address
	Counter (contact)	CW00~	F000	Word Address
Word Device	Timer/Counter (current value)	P000~	6000	Word Address
	Timer/Counter (set value)	V000~	7000	Word Address
	Generic Register 1	D000~	0000	Word Address
	Generic Register 2	B000~	2000	Word Address
	LS area	LS0000~	4000	Word Address

GP-PRO/PBIII for Windows Device/PLC Connection Manual