Pro-face

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 ▸ **FATEK**

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**

\<Facon FB 20MC (using CPU Direct Connection)\>

Device	Max. No. of Consecutive Addresses
X (Input points)	1 Words
Y (Output Relays)	
M (Internal Relays)	
SM (Special Relays)	
S (Step Relays)	
T (Timer Registers)	
C (Counter Registers)	
WX (Input points)	32 Words
WY(Output Relays)	
WM (Internal Relays)	
WSM (Special Relays)	
WS (Step Relays)	
TMR (Timer Registers)	
CTR (Counter Registers)	
HR (Data Register)	
IR (Input Registers)	
OR (Output Registers)	
HSC (HSC Registers)	
RTC (Calendar Registers)	
SR (Special Register)	
ROR (Read-Only Registers)	

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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

<Facon FB 20MC>

	Device	Word Address	Device code (HEX)	Address code
Bit Device	Input points	WX000 ~	0400	Save as word address value divided by 16.
	Output Relays	WY000 ~	0800	Save as word address value divided by 16.
	Internal Relays	WM0000 ~	1000	Save as word address value divided by 16.
	Special Relays	WSM1912 ~	2000	Save as word address value divided by 16.
	Step Relays	WS000 ~	4200	Save as word address value divided by 16.
Word Device	Timer Registers	TMR000 ~	4400	Word Address
	Counter Registers	CTR000 ~	4800	Word Address
	Data Register	HR0000 ~	0000	Word Address
	Input Registers	IR3840 ~	5000	Word Address
	Output Registers	OR3904 ~	6000	Word Address
	HSC Register	HSC4096 ~	0600	Word Address
	Calendar Register	RTC4128 ~	0C00	Word Address
	Special Register	SR4136 ~	1800	Word Address
	Read-Only Registers	ROR5000 ~	3000	Word Address
	LS Area	LS0000 ~	4000	Word Address