

# Device/PLC Connection Manuals

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## 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

## Koyo Electronics Industries

## 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

#### < KOSTAC SG Series >

Device	Max. No. of Consecutive Address
Input Relay I	128 Words
Output Relay Q	
Internal Relay M	
Stage S	
Link Relay (input) GI	
Specified Transfer Relay (output) GQ	
Timer (contact) T	
Counter (contact) C	
Data Memory R	
Timer (elapsed value) R	
Counter (elapsed value) R	

#### < KOSTAC SU Series >

Device	Max. No. of Consecutive Address
Input Relay I	128 Words
Output Relay Q	
Internal Relay M	
Stage S	
Link Relay (input) GI	
Timer (contact) T	
Counter (contact) C	
Data Memory R	
Timer (elapsed value) R	
Counter (elapsed value) R	

<KOSTAC SZ Series>

Device	Max. No. of Consecutive Address
Input Relay I	128 Words
Output Relay Q	
Internal Relay M	
Timer (contact) T	
Counter (contact) C	
Data Memory R	
Stage S	
Timer (elapsed value) R	
Counter (elapsed value) R	

<KOSTAC SR Series>

Device	Max. No. of Consecutive Address
Input/Output	128 Words
Internal Relay	
Timer/Counter (contact) R	
Timer/Counter (elapsed value) R	
Variable Register R	

<DL-405 Series>

Device	Max. No. of Consecutive Address
Input Relay (X)	128 Words
Output Relay (Y)	
Internal Relay (C)	
Stage (S)	
Link Relay (GX)	
Timer (contact) (T)	
Counter (contact) (CT)	
Data Memory (V)	
Timer (elapsed value) (V)	
Counter (elapsed value) (V)	

<DL-205 Series>

Device	Max. No. of Consecutive Address
Input Relay (X)	128 Words
Output Relay (Y)	
Internal Relay (C)	
Timer (current) (T)	
Counter (current) (CT)	
Data Memory (V)	
Stage (S)	
Timer (elapsed value) (V)	
Counter (elapsed value) (V)	

<DL-305 Series>

Device	Max. No. of Consecutive Address
Input / Output	128 Words
Internal relay	
Timer / Counter (contact) (V)	
Timer / Counter (elapsed value) (V)	
Data Register (V)	

**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

< KOSTAC SG Series >

	Device	Word Address	Device code (HEX)	Address code
Bit Device	Input Relay	R40400~	8100	Save as word address value minus 40400.
	Output Relay	R40500~	8900	Save as word address value minus 40500.
	Internal Relay	R40600~	9100	Save as word address value minus 40600.
	Stage	R41000~	A100	Save as word address value minus 41000.
	Link Relay (input)	R40000~	C900	Save as word address value minus 40000.
	Specified Transfer Relay (output)	R40200~	CD00	Save as word address value minus 40200.
	Timer (contact)	R41100~	E100	Save as word address value minus 41100.
	Counter (contact)	R41140~	F100	Save as word address value minus 41140.
Word Device	Timer (elapsed value)	R0000~	6000	Word Address
	Counter (elapsed value)	R1000~	7000	Save as word address value minus 1000.
	Data Memory 1	R400~	0800	Save as word address value minus 400.
	Data Memory 2	R1400~	0000	Save as word address value minus 1400.
	Data Memory 3	R10000~	5800	Save as word address value minus 10000.
	LS area	LS0000~	4000	Word Address

## &lt;KOSTAC SU Series&gt;

	Device	Word Address	Device code (HEX)	Address code
Bit Device	Input Relay	R40400~	8100	Save as word address value minus 40400.
	Output Relay	R40500~	8900	Save as word address value minus 40500.
	Internal Relay	R40600~	9100	Save as word address value minus 40600.
	Stage	R41000~	A100	Save as word address value minus 41000.
	Link Relay/Link Input	R40000~	C900	Save as word address value minus 40000.
	Special Relay	R41200~ R41215~	B100	Save as word address value minus 41200.
	Timer (contact)	R41100~	E100	Save as word address value minus 41100.
	Counter (contact)	R41140~	F100	Save as word address value minus 41140.
Word Device	Timer (elapsed value)	R0000~	6000	Word Address
	Counter (elapsed value)	R1000~	7000	Save as word address value minus 1000.
	Data Register	R1400~	0000	Save as word address value minus 1400.
	Special Register	R700~ R7400~	X	X
	Extended Register	R10000~	5800	Save as word address value minus 10000.
	LS area	LS0000~	4000	Word Address

## &lt;KOSTAC SZ Series&gt;

	Device	Word Address	Device code (HEX)	Address code
Bit Device	Input Relay	R40400~	8100	Save as word address value minus 40400.
	Output Relay	R40500~	8900	Save as word address value minus 40500.
	Internal Relay	R40600~	9100	Save as word address value minus 40600.
	Stage	R41000~	A100	Save as word address value minus 41000.
	Timer (contact)	R41100~	E100	Save as word address value minus 41100.
	Counter (contact)	R41140~	F100	Save as word address value minus 41140.
Word Device	Timer (elapsed value)	R0000~	6000	Word Address
	Counter (elapsed value)	R1000~	7000	Save as word address value minus 1000.
	Data Memory 2	R2000~	0000	Save as word address value minus 1400.
	LS area	LS0000~	4000	Word Address

## &lt;KOSTAC SR Series&gt;

	Device	Word Address	Device code (HEX)	Address code
Bit Device	Input/Output	R000~	9000	Save as word address value divided 2.
		R070~	9000	Save as word address value divided 2.
	Internal Relay	R016~	9000	Save as word address value divided 2.
		R076~	9000	Save as word address value divided 2.
	Shift Register	R040~	9000	Save as word address value divided 2.
	Timer/Counter (contact)	R060~	9000	Save as word address value divided 2.
Word Device	Timer/Counter (elapsed value)	R600~	6000	Save as word address value minus 600.
	Data Register	R400~	0000	Save as word address value minus 400 divided by 2.
	LS area	LS0000~	4000	Word Address

## &lt;DL-405 Series&gt;

	Device	Word Address	Device code (HEX)	Address code
Bit Device	Input Relay	V40400~	8100	Save as word address value minus 40400.
	Output Relay	V40500~	8900	Save as word address value minus 40500.
	Internal Relay	V40600~	9100	Save as word address value minus 40600.
	Stage	V41000~	A100	Save as word address value minus 41000.
	Link Relay/Link Input	V40000~	C900	Save as word address value minus 40000.
	Special Relay	V41200~ V41215~	B100	Save as word address value minus 41200.
	Timer (contact)	V41100~	E100	Save as word address value minus 41100.
	Counter (contact)	V41140~	F100	Save as word address value minus 41140.
Word Device	Timer (elapsed value)	V0000~	6000	Word Address
	Counter (elapsed value)	V1000~	7000	Save as word address value minus 1000.
	Data Register	V1400~	0000	Save as word address value minus 1400.
	Special Register	V700~ V7400~	X	X
	Extended Register	V10000~	5800	Save as word address value minus 10000.
	LS area	LS0000~	4000	Word Address

<DL-205 Series>

	Device	Word Address	Device code (HEX)	Address code
Bit Device	Input Relay	V40400~	8100	Save as word address value minus 40400.
	Output Relay	V40500~	8900	Save as word address value minus 40500.
	Internal Relay	V40600~	9100	Save as word address value minus 40600.
	Stage	V41000~	A100	Save as word address value minus 41000.
	Timer (contact)	V41100~	E100	Save as word address value minus 41100.
	Counter (contact)	V41140~	F100	Save as word address value minus 41140.
Word Device	Timer (elapsed value)	V0000~	6000	Word Address
	Counter (elapsed value)	V1000~	7000	Save as word address value minus 1000.
	Data Memory 2	V2000~	0000	Save as word address value minus 1400.
	LS area	LS0000~	4000	Word Address

<DL-305 Series>

	Device	Word Address	Device code (HEX)	Address code
Bit Device	Input/Output	V000~	9000	Save as word address value divided 2.
		V070~	9000	Save as word address value divided 2.
	Internal Relay	V016~	9000	Save as word address value divided 2.
		V076~	9000	Save as word address value divided 2.
	Shift Register	V040~	9000	Save as word address value divided 2.
	Timer/Counter (contact)	V060~	9000	Save as word address value divided 2.
Word Device	Timer/Counter (elapsed value)	V600~	6000	Save as word address value minus 600.
	Data Register	V400~	0000	Save as word address value minus 400 divided by 2.
	LS area	LS0000~	4000	Word Address