



SCIGATE AUTOMATION (S) PTE LTD

No.1 Bukit Batok Street 22 #01-01 Singapore 659592

Tel: (65) 6561 0488

Fax: (65) 6562 0588

Email: sales@scigate.com.sg

Web: www.scigate.com.sg

Business Hours: Monday - Friday 8.30am - 6.15pm

# 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

## Matsushita Electronics Industrial

## 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.)

## ■ PLC

< MEWNET Series >

| Device              | Max. No. of consecutive Address | Device                                  | Max. No. of Consecutive Address |
|---------------------|---------------------------------|---|---------------------------------|
| Input Relay X       | 27 Words                        | Link Register Ld                        | 27 Words                        |
| Output Relay Y      |                                 | Data Register /Special Data Register DT |                                 |
| Internal Relay R    |                                 | File Register FL                        |                                 |
| Link Relay L        |                                 | Timer/Counter (setup value) SV          | 24 Words                        |
| Special Relay R     |                                 | Timer/Counter (elapsed value) SV        |                                 |
| Timer (contact) T   | 8 Words                         | /                                       |                                 |
| Counter (contact) C |                                 |   |                                 |

## ■ Servos

< MINAS-A/MINAS-S Series >

| Device | Max. No. of consecutive Address |
|--------|---------------------------------|
| 05_    | 6 Words                         |
| 20_    | 1 Word                          |
| 21_    | 2 Words                         |
| 22_    | 2 Words                         |
| 24_    | 1 Word                          |
| 25_    |                                 |
| 26_    | 2 Words                         |
| 27_    | 2 Words                         |
| 28_    | 3 Words                         |
| 29_    | 4 Words                         |
| 2A_    | 6 Words                         |
| 2D_    | 5 Words                         |
| 80_    | 1 Word                          |
| 90_    |                                 |
| 91_    |                                 |
| 92_    | 14 Words                        |
| B0_    | 4 Words                         |
| B1_    | 64 Words                        |

**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

< MEWNET Series >

|             | Device                                  | Word Address | Device code (HEX) | Address code |
|-------------|---|--------------|-------------------|--------------|
| Bit Device  | Input Relay                             | WX000~       | 8000              | Word Address |
|             | Output Relay                            | WY000~       | 8800              | Word Address |
|             | Internal Relay                          | WR000~       | 9000              | Word Address |
|             | Link Relay                              | WL000~       | C 800             | Word Address |
|             | Special Relay                           | WR900~       | 9000              | Word Address |
| Word Device | Timer/Counter (elapsed value)           | EV0000~      | 6000              | Word Address |
|             | Timer/Counter (elapsed value)           | SV0000~      | 6800              | Word Address |
|             | Data Register/<br>Special Data Register | DT000~       | 0000              | Word Address |
|             | Link Register                           | Ld0000~      | 4800              | Word Address |
|             | File Register                           | FL00000~     | 5800              | Word Address |
|             | Special Data Register                   | DT90000~     | 7000              | Word Address |
|             | LS area                                 | LS0000~      | 4000              | Word Address |

## ■ Servos

< MINAS-A/MINAS-S Series >

|  | Device  | Word Address | Device code (HEX) | Address code        |
|--|---------|--------------|-------------------|---------------------|
|  | 05_     | 00           | 8600              | Word Address        |
|  | 20_     | 00           | 8E00              | Word Address        |
|  | 20_     | 01           | 9000              | Word Address        |
|  | 21_     | 00           | 9200              | Double-Word Address |
|  | 22_     | 00           | 9400              | Double-Word Address |
|  | 24_     | 00           | 9600              | Word Address        |
|  | 25_     | 00           | 9800              | Word Address        |
|  | 26_     | 00           | 9A00              | Double-Word Address |
|  | 27_     | 00           | 9C00              | Double-Word Address |
|  | 28_     | 00           | 9E00              | Double-Word Address |
|  | 28_     | 00           | A000              | Word Address        |
|  | 29_     | 00           | A200              | Word Address        |
|  | 29_     | 01           | A400              | Word Address        |
|  | 29_     | 02           | A600              | Double-Word Address |
|  | 2A_     | 00           | A800              | Word Address        |
|  | 2A_     | 01           | AA00              | Word Address        |
|  | 2A_     | 02           | AC00              | Double-Word Address |
|  | 2A_     | 03           | AE00              | Double-Word Address |
|  | 2A_     | 04           | B000              | Word Address        |
|  | 2D_     | 00           | B200              | Word Address        |
|  | 2D_     | 01           | B400              | Word Address        |
|  | 2D_     | 02           | B600              | Double-Word Address |
|  | 2D_     | 03           | B800              | Word Address        |
|  | 80_     | 000 ~ 0FF    | BA00              | Word Address        |
|  | 81_     | 000 ~ 0FF    | BC00              | Word Address        |
|  | 84_     | 00           | BE00              | Word Address        |
|  | 90_     | 00           | C000              | Word Address        |
|  | 91_     | 000 ~ 0FF    | C200              | Word Address        |
|  | 91_     | 100 ~ 1FF    | C400              | Word Address        |
|  | 92_     | 001 ~ 014    | C600              | Word Address        |
|  | 93_     | 00           | C800              | Word Address        |
|  | 94_     | 00           | CA00              | Word Address        |
|  | 9B_     | 00           | CC00              | Word Address        |
|  | B0_     | 000 ~ 07F    | CE00              | Word Address        |
|  |         | 100 ~ 17F    | DA00              |                     |
|  |         | 200 ~ 27F    | DC00              |                     |
|  |         | 300 ~ 37F    | DE00              |                     |
|  | B1_     | 000 ~ 07F    | D000              | Word Address        |
|  |         | 100 ~ 17F    | D400              |                     |
|  |         | 200 ~ 27F    | D600              |                     |
|  |         | 300 ~ 37F    | D800              |                     |
|  | B2_     | 00           | D200              | Word Address        |
|  | LS area | 0000 ~       | 4000              | Word Address        |