# 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 TOHO ELECTRONICS INC.

## 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.)**

## ■ Controllers

<TTM Series>

| Device | Max. No. of Consecutive Addresses |
|---|---|
| 00_ | |
| 10_ | |
| 100_ | |
| 110_ | |
| 120_ | |
| 300_ | |
| 1020_ | |
| Step Temperature Setting SSV | |
| Final Step Setting END | |
| Step time Setting STI | |
| Final Step Finish Condition Setting SOK | 1 word |
| Step Wait Zone SWZ | |
| Step Wait Time SWT | |
| Time Signal ON Time SON | |
| Time Signal OFF Time SOF | |
| Execution Time SRN | |
| End Signal ON Time SEO | |

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

## 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)

### ■ Controllers

<TTM Series>

| | Device | Word Address | Device Code (HEX) | Address Code |
|---|---|---|---|---|
| | 00_ | 00_0000 ~ 0075 | 8000 | Word Address |
| | 10_ | 10_0000 ~ 0025 | B000 | Word Address |
| | 100_ | 100_0000 ~ 0032 | B200 | Word Address |
| | 110_ | 110_0000 ~ 0041 | 8200 | Word Address |
| | 120_ | 120_0000 ~ 0043 | 8400 | Word Address |
| | 300_ | 300_0000 ~ 0067 | 8600 | Word Address |
| | 1020_ | 1020_0000 ~ 0077 | 8800 | Word Address |
| | Step Temperature Setting | SSV0000 ~ 2047 | 9000 | Word Address |
| | Final Step Setting | END0000 ~ 2047 | 9200 | Word Address |
| Word Device | Step time Setting | STI0000 ~ 2047 | 9400 | Word Address |
| | Final Step Finish Condition Setting | SOK0000 ~ 2047 | 9600 | Word Address |
| | Step Wait Zone | SWZ0000 ~ 2047 | 9800 | Word Address |
| | Step Wait Time | SWT0000 ~ 2047 | A000 | Word Address |
| | Time Signal ON Time | SON0000 ~ 2047 | A200 | Word Address |
| | Time Signal OFF Time | SOF0000 ~ 2047 | A400 | Word Address |
| | Execution Time | SRN0000 ~ 2000 | A600 | Word Address |
| | End Signal ON Time | SEO0000 ~ 2000 | A800 | Word Address |
| | LS area | LS0000 ~ | 4000 | Word Address |