

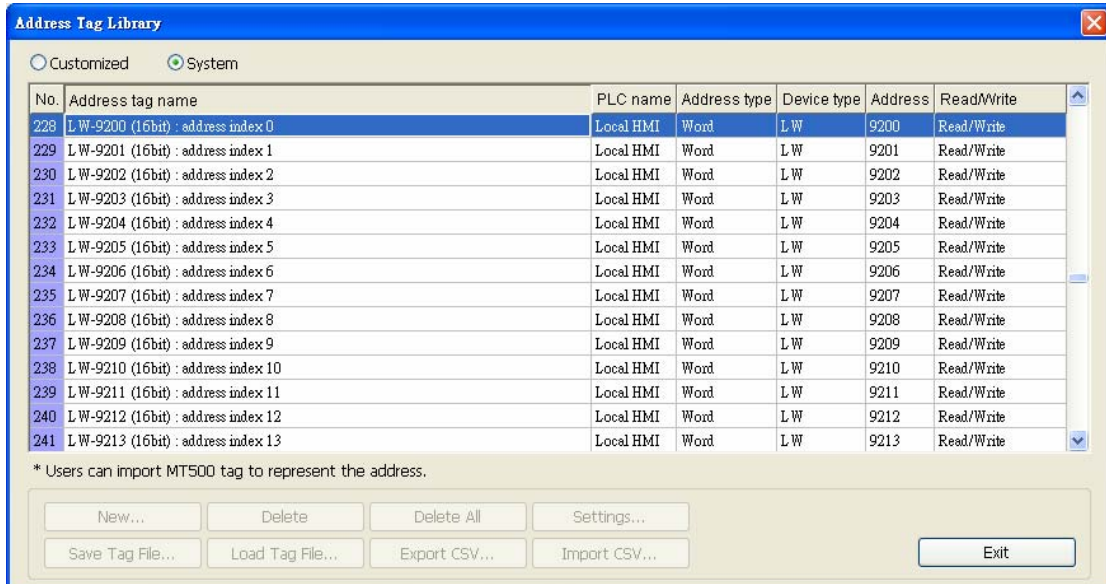
Demo Project for Index Function

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1. Overview and Operation

EB8000 provides 32 index registers for users to use addresses more flexibly. Via index register, users can update object's read / write address without changing content of the object when the machine is still in operation.



2. Setting Up the Screen

1. Create ASCII and Numeric Input objects from LW0~19. These objects must be set with the same index register (INDEX 0).

ASCII Input Object's Properties

General | Data Entry | Security | Shape | Font | Profile

Description : |

☐ Use UNICODE ☐ Reverse high/low byte

Read address

1. PLC name : Local HMI

Device type : LW

Address : 0 ☐ System tag

2. Address format : ddddd [range : 0 ~ 10255]

Index : INDEX 0 (16-bit) ☒ Index register

No. of words : 5

Notification

☐ Enable

Numeric Input Object's Properties

General | Data Entry | Numeric Format | Security | Shape | Font | Profile

Description : |

Read address

1. PLC name : Local HMI

Device type : LW

Address : 5 ☐ System tag

Address format : ddddd [range : 0 ~ 10255]

2. Index : INDEX 0 (16-bit) ☒ Index register

Notification

☐ Enable

2. Repeat the first step again. Create ASCII and Numeric Input objects from RW0~19. These objects must be set with the same index register (INDEX 1).

ASCII Input Object's Properties

General Data Entry Security Shape Font Profile

Description :

☐ Use UNICODE ☐ Reverse high/low byte

Read address

1. PLC name : Local HMI

Device type : RW

Address : 0 ☐ System tag

2. Address format : ddddd [range : 0 ~ 65535]

Index : INDEX 1 (16-bit) ☒ Index register

No. of words : 5

Notification

☐ Enable

Numeric Input Object's Properties

General Data Entry Numeric Format Security Shape Font Profile

Description :

Read address

1. PLC name : Local HMI

Device type : RW

Address : 5 ☐ System tag

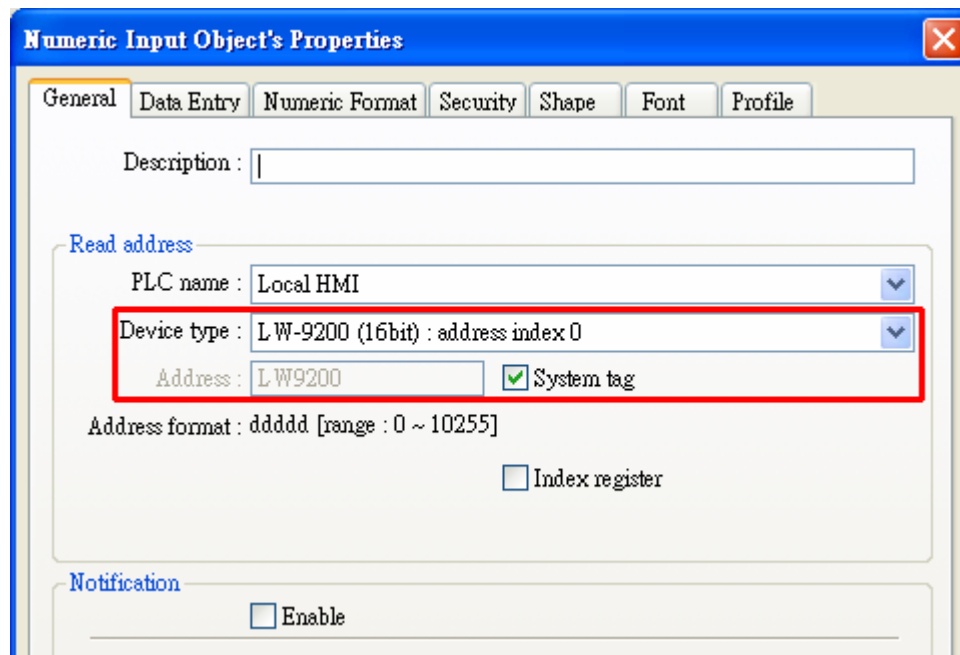
Address format : ddddd [range : 0 ~ 65535]

2. Index : INDEX 1 (16-bit) ☒ Index register

Notification

☐ Enable

3. Create Numeric Input object and set up the address as system tag (LW9200). Users can use this object to change the LW0~19 address offset.



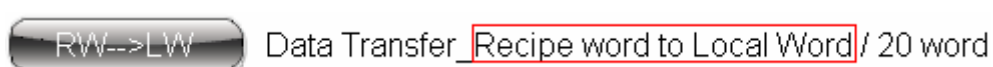
4. Users can create two Set Word objects to switch the address offset of Index 0. (Set Style: JOG-/JOG+ ; address offset: 20 words)



5. Repeat the step above again. Create two Set Word objects to switch the address offset of Index 1. (Set Style: JOG-/JOG+ ; address offset: 20 words)



6. Create two Data Transfer objects to transfer the data from source (RW) to destination (LW). For example: RW→LW, the RW register must be set to index 1; on the contrary the LW set to index 0.



Data Transfer (Trigger-based) Object's Properties

General Security Shape Label Profile

1. Description :

Source address

PLC name : Local HMI

Device type : RW

Address : 0 ☐ System tag

Address format : ddddd [range : 0 ~ 65535]

2. Index : INDEX 1 (16-bit) ☒ Index register

No. of words : 20

Destination address

3. PLC name : Local HMI

Device type : LW

Address : 0 ☐ System tag

Address format : ddddd [range : 0 ~ 10255]

4. Index : INDEX 0 (16-bit) ☒ Index register

Attribute

Mode : Touch trigger

7. Users can transfer the data from RW (LW) to LW (RW) by Data Transfer object. And also use the Set Word object or [Option List] object to choose the offset addresses of these index registers.

INDEX Function

RW-->LW Data Transfer: Recipe word to Local Word / 20 word

LW-->RW Data Transfer: Local word to Recipe Word / 20 word

0 0 0 0 0 LW-0~9

0 0 0 0 0 LW-10~19

JOG- JOG+ 0

Decrement / Increment 20 word INDEX_0

0 0 0 0 0 RW-0~9

0 0 0 0 0 RW-10~19

JOG- JOG+ 0

Decrement / Increment 20 word INDEX_1

Select Local Register offset 20 word

Test_1

Select Recipe Memory offset 20 word

Recipe_1
Recipe_2
Recipe_3
Recipe_4
Recipe_5

Rock Ink

3. Object

The objects used in this demo project are listed below.

Object	ID	Detail
Data Transfer	RP0/RP1	Transfer the RW/LW register data.
ASCII Input	AE0	RW0~4
	AE1	RW10~14
	AE2	LW0~4
	AE3	LW10~14
Numeric Input	NE0~9	LW5~9 /LW15~19
	NE10	INDEX 0
	NE11~20	RW5~9 /RW15~19
	NE21	INDEX 1
Set word	SW0	LW register (JOG-)
	SW1	LW register (JOG+)
	SW2	RW register (JOG-)
	SW3	RW register (JOG+)
Option List	OL0	Select Local Register
	OL1	Select Recipe Register