



# Combination Switch



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# 1. General

Individual functions can be added to one combination switch, to implement multiple tasks at the same time.

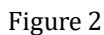
The object is in [Button/Switch] toolbar as Figure 1 shows, the objects library is on the left of screen.



Figure 1

## 2. Combination switch settings

This chapter introduces the setting of combinations. The general setting screen as Figure 2 shows, there are four parts for operations, [Bit operation], [Word operation], [Arithmetic] and [Screen change]. And one for settings, users can set the cycle operation time and operation trigger address.



The bit operation setting screen as Figure 3 shows. There are five operations for bit address, those operations can operate continuous bit addresses according to setting length, and the maximum length is 2048 bits

- 2

- 4) **Reset:** Reset target bit;
- 5) **Switch:** Change the state of target bit;

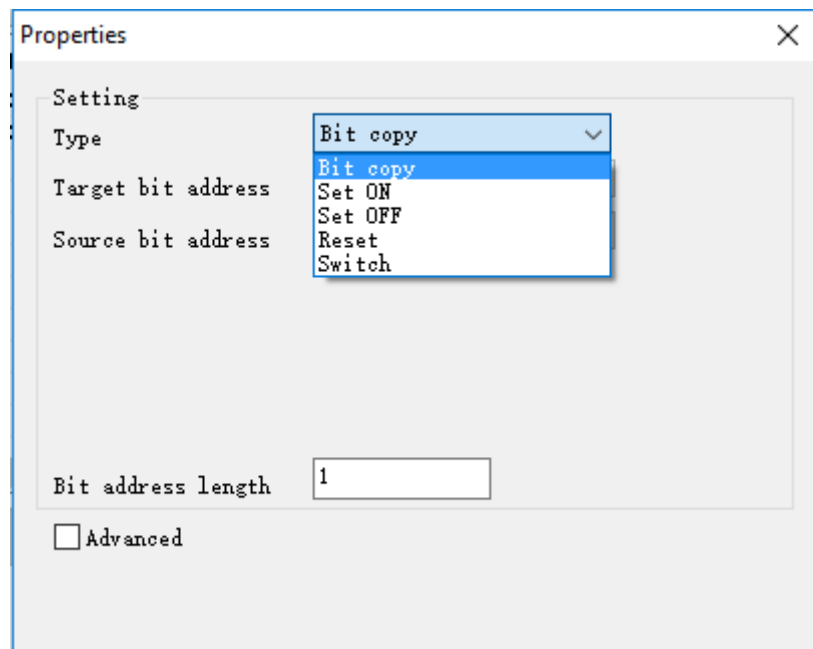


Figure 3

## 2.2 Word operation

The word operation setting screen as Figure 4 shows. There are four operations for word address, those operations can operate continuous word addresses according to setting length, and the maximum length is 2048.

- 1) **Word copy:** Copy value from source word to target word, for example, target word is HDW 100, source word is HDW0, length is 2, so when executing this setting HDW100=HDW0, HDW101=HDW1;
- 2) **Word set:** Set certain value to target word;
- 3) **Increase:** Increase the target word, but it requires to set limit value;
- 4) **Decrease:** Decrease the target word, but it requires to set limit value;

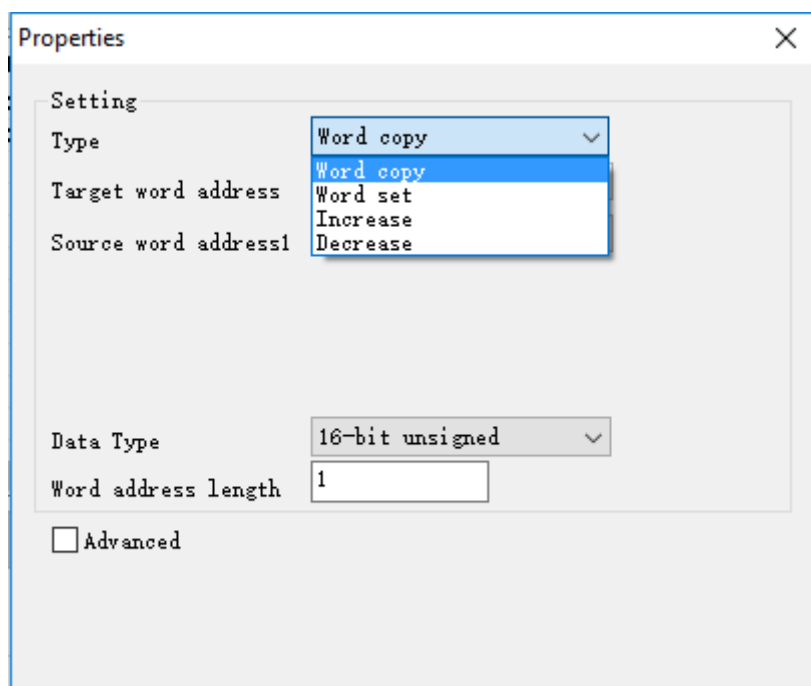


Figure 4

## 2.3 Arithmetic

Arithmetic provides six operations- Add, Subtract, Multiply, Divide, Mod and Power.

## 2.4 Screen change

The function is similar with Function screen change, but it only support basic screen switch. And one combination switch only supports one screen change operation.

# 3. Example

## 3.1 Word operation 1

The word operation 1 screen as Figure 5 shows, there are three combination switches.

1) [Set value]: it has six operations, when click it, the following operations will be executed.

- HDW10=10
- HDW11=11
- HDW13=13
- HDW14=14
- HDW16=HDW10

- HDW17=HDW13
- 2) [Change value]: It has six operations, when click it, the following operations will be executed.
- HDW10=HDW10+1, the high limit is 100;
  - HDW11=HDW11+2, the high limit is 100;
  - HDW13=HDW13-1, the low limit is 0;
  - HDW14=HDW14-2, the low limit is 0;
  - HDW16=HDW16+10, the high limit is 100;
  - HDW17=hdw17-10, the low limit is 0;

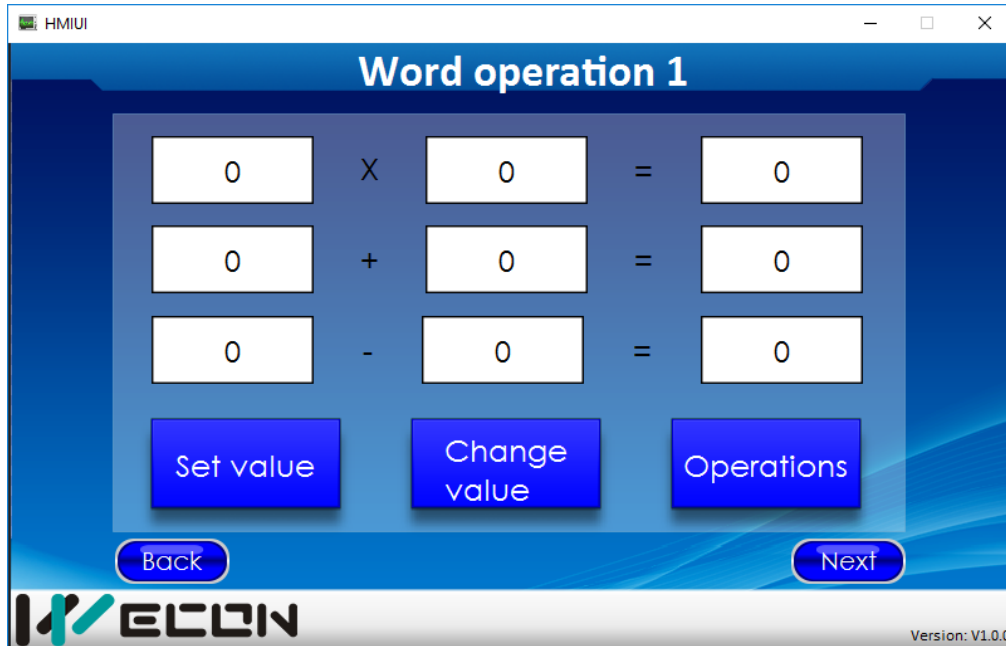


Figure 5

- 3) [Operations]: it has three operations, when click it; the following operations will be executed.
- HDW2= HDW10\*HDW11;
  - HDW15=HDW13+HDW14;
  - HDW18=HDW16-HDW17;

## 3.2 Word operation 2

The word operation 2 screen as Figure 6 shows, there is one combination switch. When click it, the following operations will be executed.

- HDW20=100;
- HDW21=HDW20;
- HDW20=HDW20+10;
- HDW22=HDW20;
- .....
- HDW20=HDW20+10;
- HDW28=HDW20;

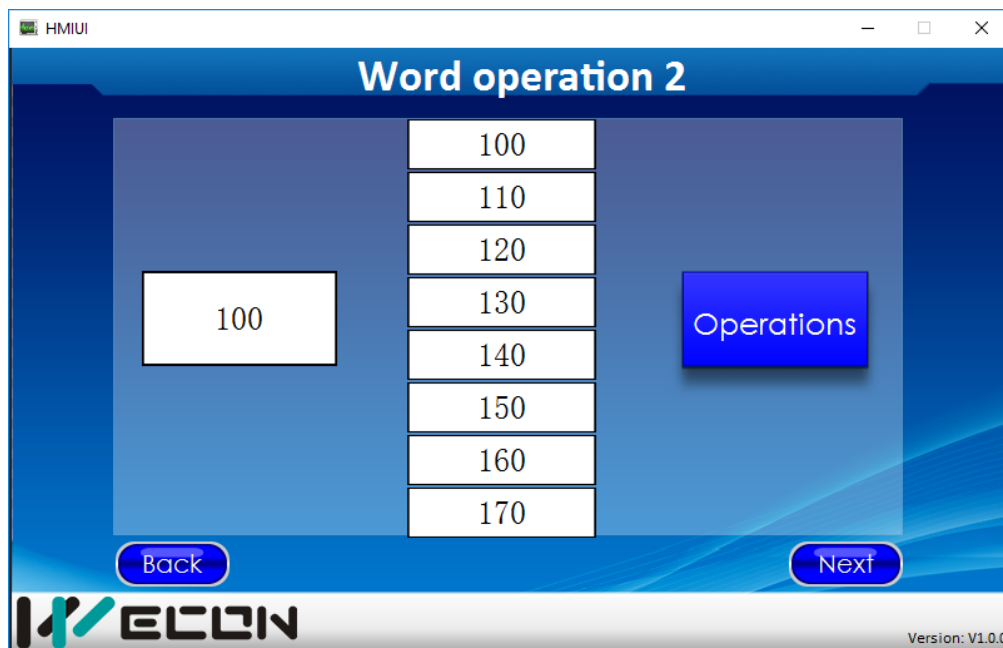


Figure 6

### 3.3 Bit operation

The Bit operation screen as Figure 7 shows, there are three combination switches.



Figure 7

- 1) [Set value]: It has two operations, when click it, the following operations will be executed.
  - Set ON HDX0.2;
  - Set ON HDX0.4;
- 2) [Operations]: It has seven operations, when click it, the following operations will be executed.
  - Set ON HDX0.0;

- HDX0.1 = HDX0.0;
  - Set OFF HDX0.0;
  - HDX0.2 = HDX0.0;
  - Switch HDX0.0;
  - HDX0.3 = HDX0.0;
  - HDX0.3 = HDX0.0;
- 3) [Reset]: when click it, reset HDX0.0;

## 4. Note

In this demo, the bit operations and word operations are separate, but in practical applications, they can be added in the same combination switch.