

WEINTEK LABS., INC.

# Media Player

Demo Project

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## 1. Overview and Operation

### Overview

eMT3000 Series supports Media Player which can read the video files stored in SD card or USB disk and play the video, in order to assist the user to solve the problem encountered on the production line.



### Operation

This demo project uses a control panel on the screen to play the video, also to adjust the volume, display screen size, time, and CPU loading.



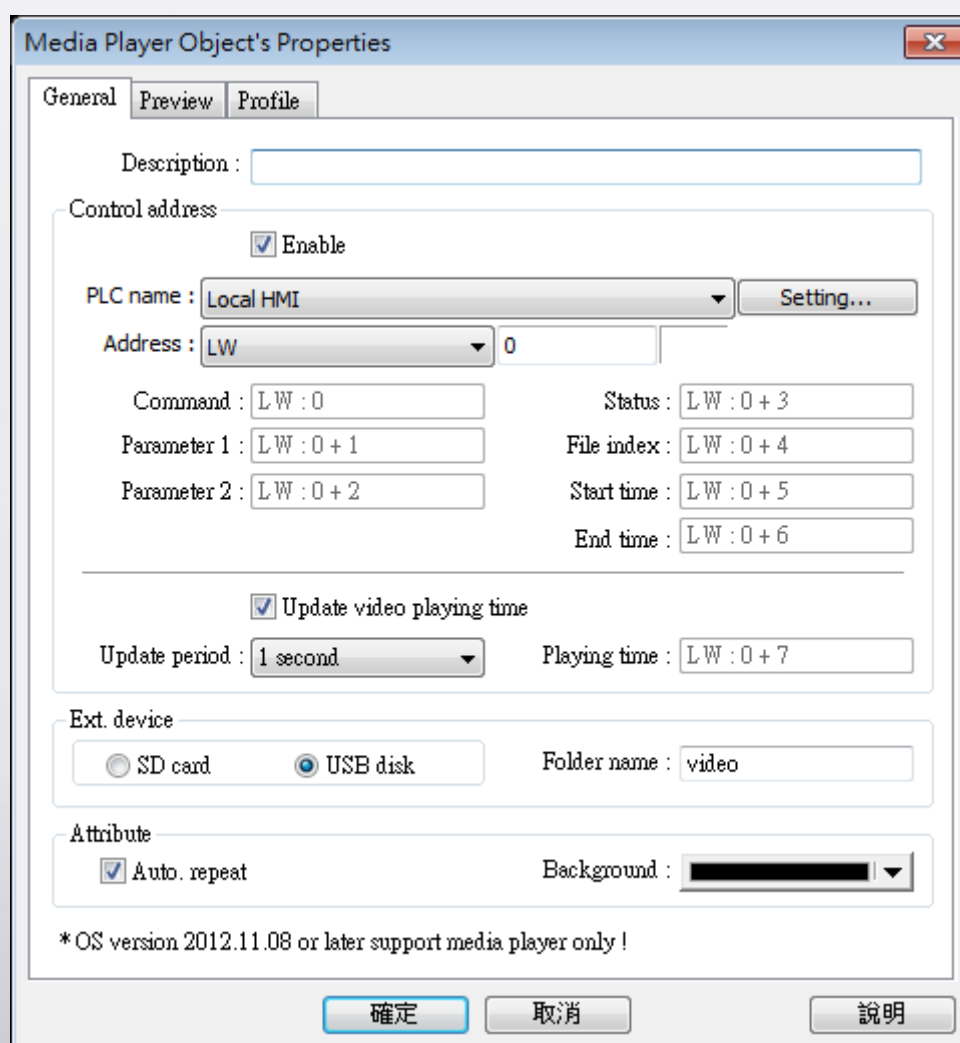
## 2. Setting up the Screen

### 1. Open Media Player

**Step 1.** Set [Control address] to LW-0.

**Step 2.** Read video file stored in USB disk \ video folder.

**Step 3.** Select [Auto. Repeat] to repeat playing video automatically.



The image shows the 'Media Player Object's Properties' dialog box with the 'General' tab selected. The 'Description' field is empty. The 'Control address' section has the 'Enable' checkbox checked. The 'PLC name' is set to 'Local HMI' with a 'Setting...' button next to it. The 'Address' is set to 'LW' and '0'. Below this, there are fields for 'Command' (LW : 0), 'Status' (LW : 0 + 3), 'Parameter 1' (LW : 0 + 1), 'File index' (LW : 0 + 4), 'Parameter 2' (LW : 0 + 2), 'Start time' (LW : 0 + 5), and 'End time' (LW : 0 + 6). The 'Update video playing time' checkbox is checked, with an 'Update period' of '1 second' and a 'Playing time' of 'LW : 0 + 7'. The 'Ext. device' section has 'SD card' and 'USB disk' radio buttons, with 'USB disk' selected, and a 'Folder name' of 'video'. The 'Attribute' section has the 'Auto. repeat' checkbox checked and a 'Background' color selector. At the bottom, there is a note: '\* OS version 2012.11.08 or later support media player only !'. The dialog has three buttons at the bottom: '確定' (OK), '取消' (Cancel), and '說明' (Help).

Media Player Object's Properties

General Preview Profile

Description :

Control address

☒ Enable

PLC name :

Address :

Command :  Status :

Parameter 1 :  File index :

Parameter 2 :  Start time :

End time :

☒ Update video playing time

Update period :  Playing time :

Ext. device

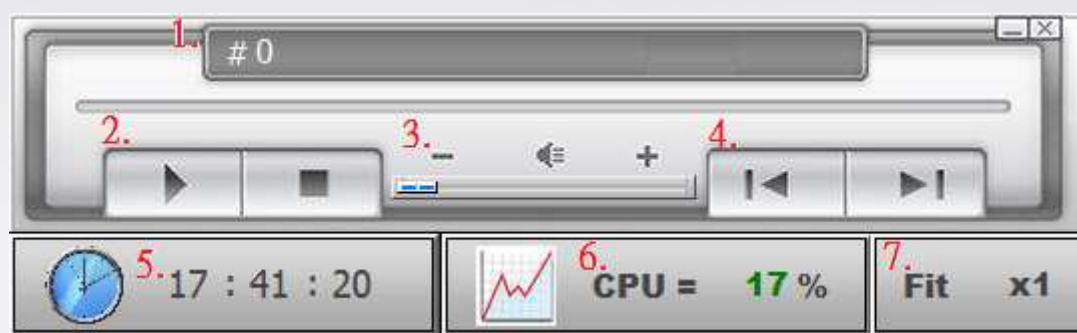
☐ SD card ☒ USB disk Folder name :

Attribute

☒ Auto. repeat Background :

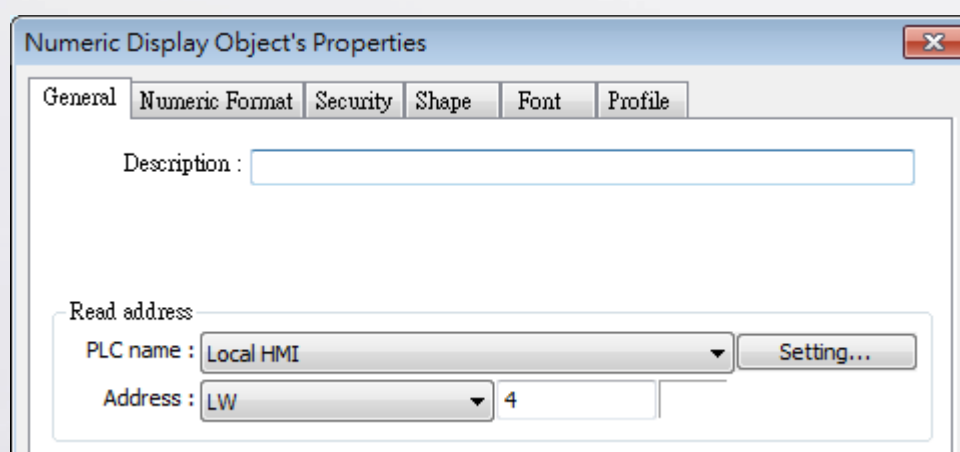
\* OS version 2012.11.08 or later support media player only !

## 2. Set Control Panel



## Step 1.

Create a Numeric Display object, set address to LW-4, to display which number of video is currently playing.

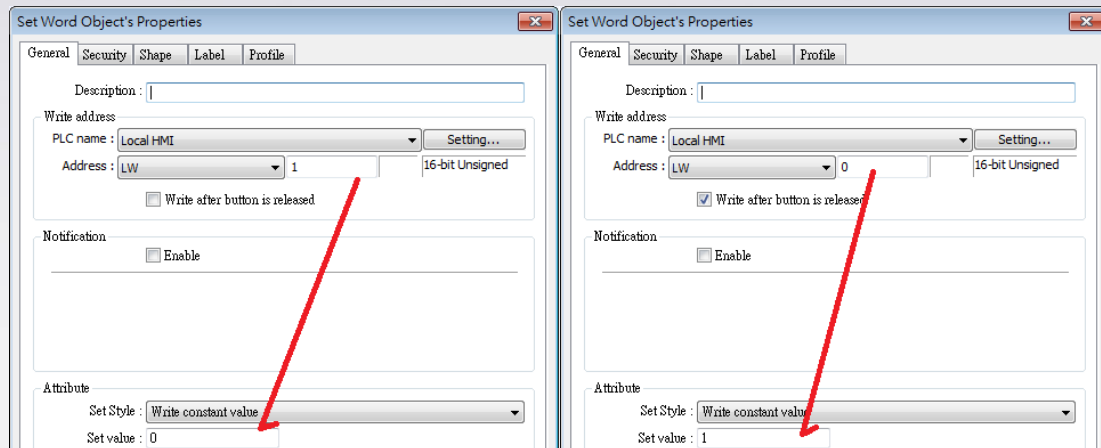


## Step 2.

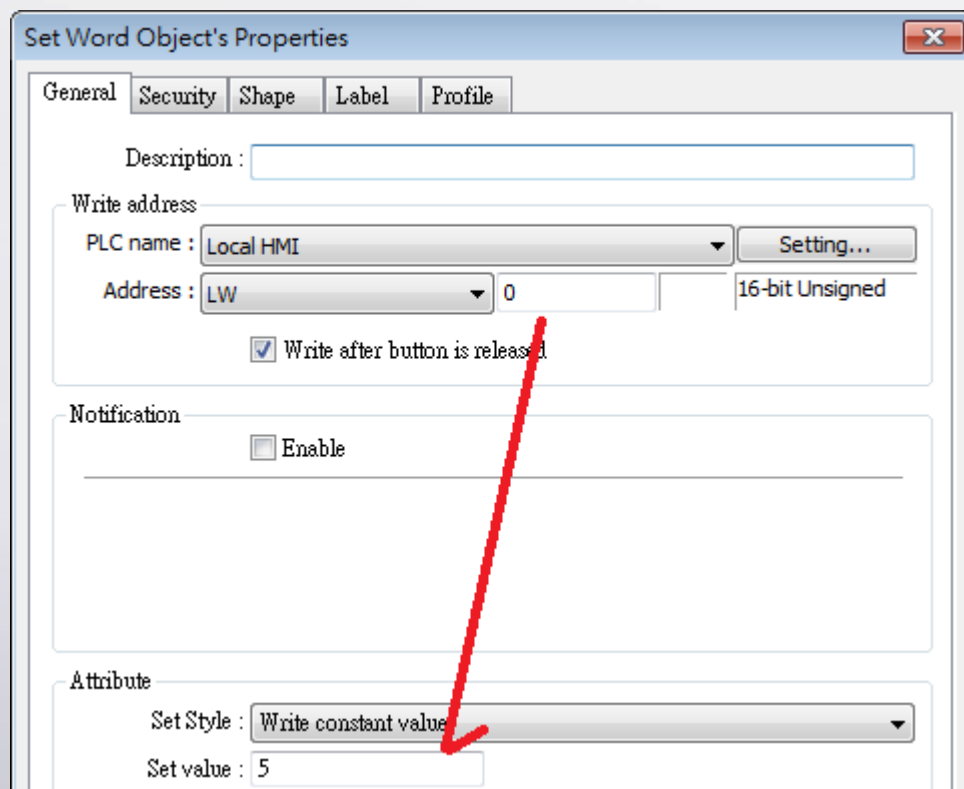
Create two Set Word objects, and place them on the ► (Play) button.

The first Set Word object uses address LW-0, and in [Set style] select [Write constant value], in [Set value] enter "1".

The second Set Word object uses address LW-1, and in [Set style] select [Write constant value], in [Set value] enter "0".

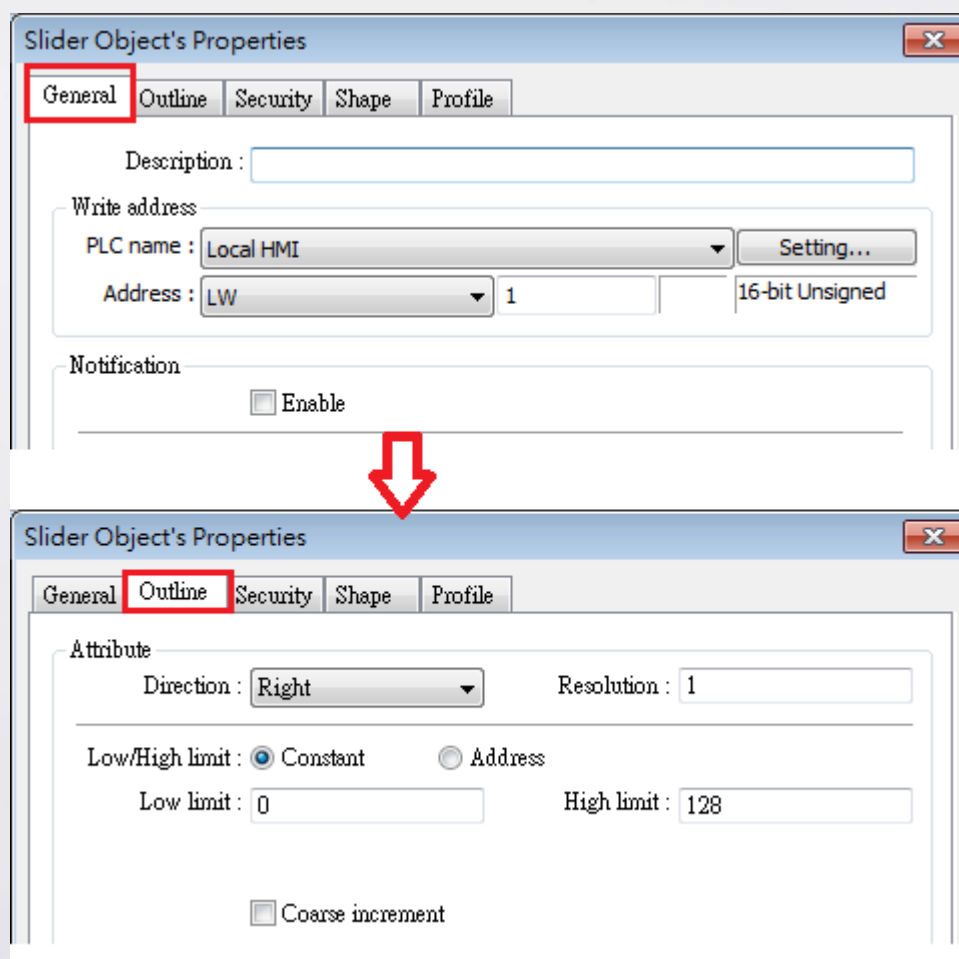


Create a Set Word object, and place it on the ■ (Stop) button. The Set Word object uses address LW-0, and in [Set style] select [Write constant value], in [Set value] enter “5”.



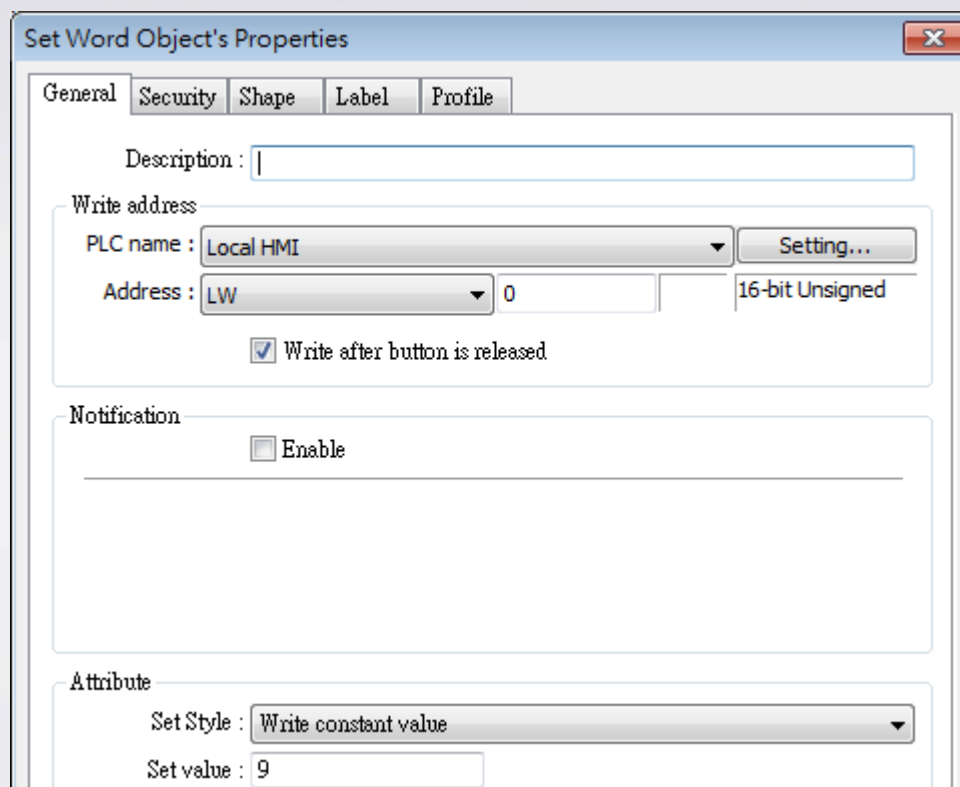
### Step 3. Adjust Volume

Create a Slider object, in General Tab set address to LW-1, in Outline Tab set [Low limit] to “0”, [High limit] to “128”.




Create a Set Word object, set address to LW-0, in [Set style] select [Write constant value], and in [Set value] enter “9”.




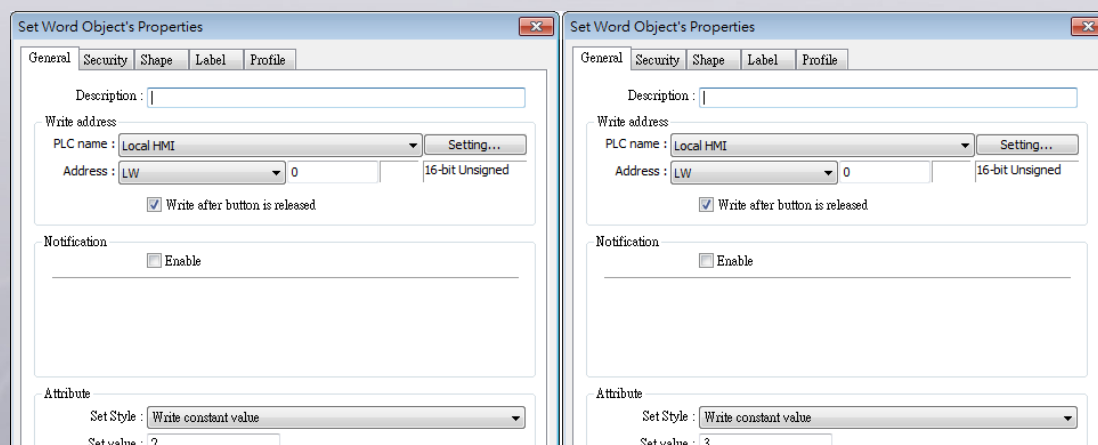


The image shows the 'Set Word Object's Properties' dialog box with the 'General' tab selected. The 'Description' field is empty. Under 'Write address', the 'PLC name' is 'Local HMI', the 'Address' is 'LW' with a value of '0', and the data type is '16-bit Unsigned'. The checkbox 'Write after button is released' is checked. Under 'Notification', the 'Enable' checkbox is unchecked. Under 'Attribute', the 'Set Style' is 'Write constant value' and the 'Set value' is '9'.

#### Step 4. Switch Between Videos

Create a Set Word object, and place it on the  (previous) button. Set address to LW-0, in [Set style] select [Write constant value], and in [Set value] enter "2" to switch to the previous video file.

Create a Set Word object, and place it on the  (next) button. Set address to LW-0, in [Set style] select [Write constant value], and in [Set value] enter "3" to switch to the next video file.



The image shows two side-by-side 'Set Word Object's Properties' dialog boxes. Both have the 'General' tab selected. The left dialog box has 'Set value' set to '2', and the right dialog box has 'Set value' set to '3'. All other settings are identical to the first dialog box shown.

**Step 5.** Time Display

Create Numeric Display objects LW-9017 to LW-9019 to display time.

**Step 6.** CPU Loading

Create a Numeric Display object LW-9025 to display CPU loading.

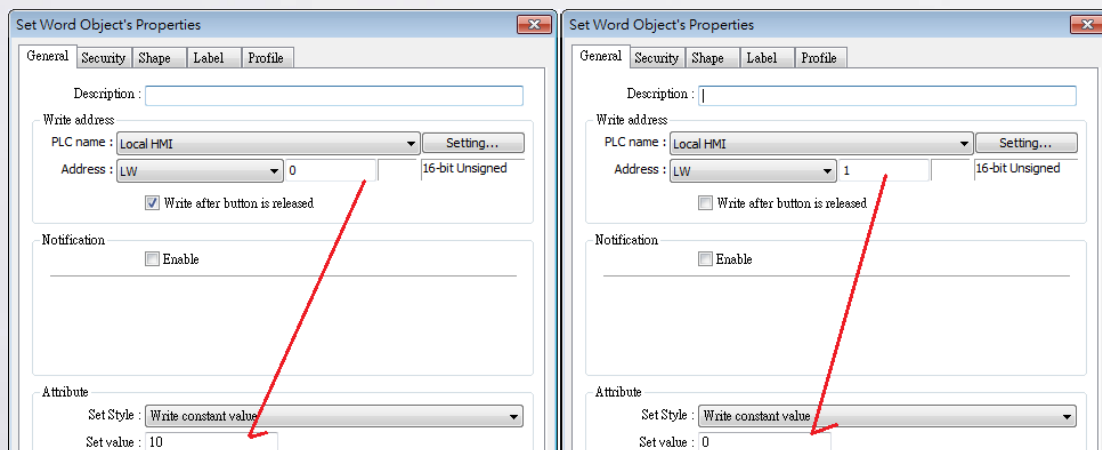
**Step 7.** Screen size adjustment

Fit (to full screen)

Create two Set Word objects.

The first Set Word object uses address LW-0, and in [Set style] select [Write constant value], in [Set value] enter "10".

The second Set Word object uses address LW-1, and in [Set style] select [Write constant value], in [Set value] enter "0".

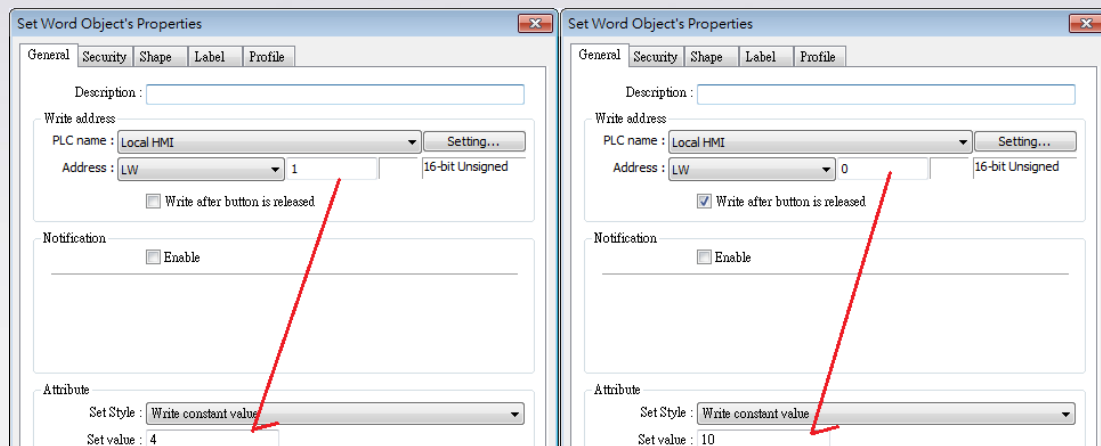


X 1 (keep original size)

Create two Set Word objects.

The first Set Word object uses address LW-0, and in [Set style] select [Write constant value], in [Set value] enter "10".

The second Set Word object uses address LW-1, and in [Set style] select [Write constant value], in [Set value] enter "4".



### 3. Addresses

The addresses of objects used in this demonstration are listed below.

| Object    | Address | Object ID | Description                   |
|-----------|---------|-----------|-------------------------------|
| Window 10 |         |           |                               |
| Word      | LW 4    | ND_0      | Video number currently played |
| Word      | LW 0    | MP_0      | Media Player                  |
| Word      | LW 0    | SW_0      | Stop playing video            |
| Word      | LW 0    | SW_1      | Play next video               |
| Word      | LW 0    | SW_2      | Play previous video           |
| Word      | LW 0    | SW_3      | Play video                    |
| Word      | LW 1    | SW_4      | Play video                    |
| Word      | LW 0    | SW_5      | Adjust volume                 |
| Word      | LW 1    | SL_0      | Adjust volume                 |
| Window 11 |         |           |                               |
| Word      | LW 9025 | ND_0      | CPU Loading                   |
| Word      | LW 9019 | ND_1      | Time display                  |
| Word      | LW 9018 | ND_2      | Time display                  |
| Word      | LW 9017 | ND_3      | Time display                  |
| Word      | LW 0    | SW_0      | Display screen size           |
| Word      | LW 0    | SW_1      | Display screen size           |
| Word      | LW 1    | SW_2      | Display screen size           |
| Word      | LW 1    | SW_3      | Display screen size           |