

Multi-Trend Display

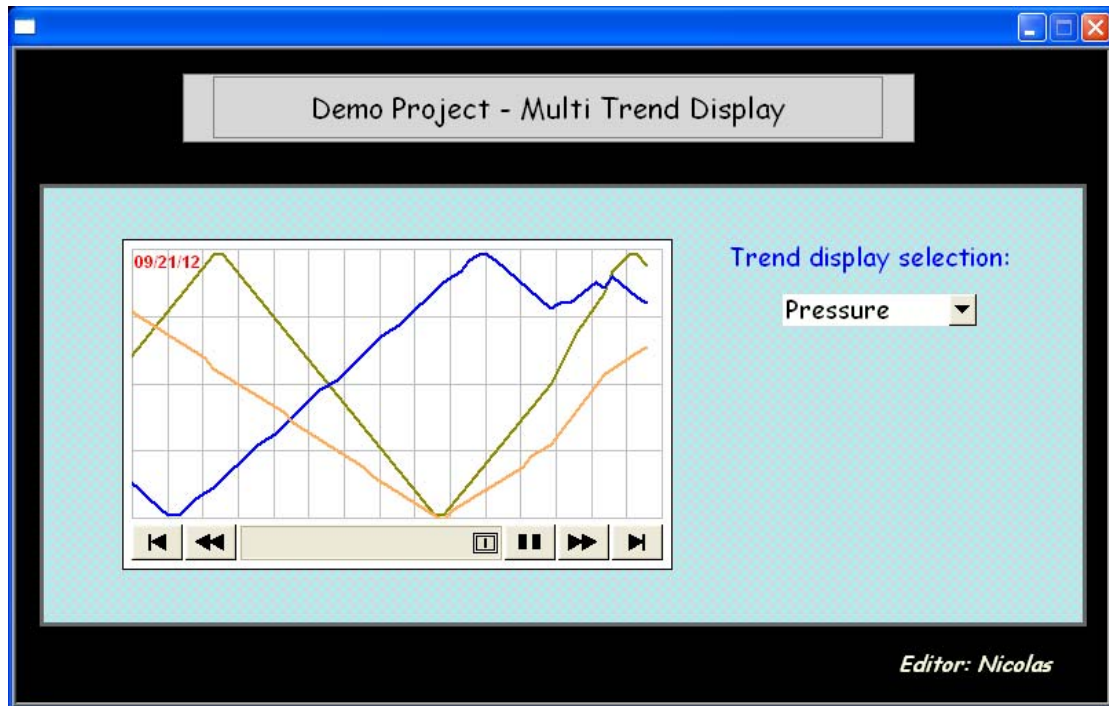
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1. Overview and Operation

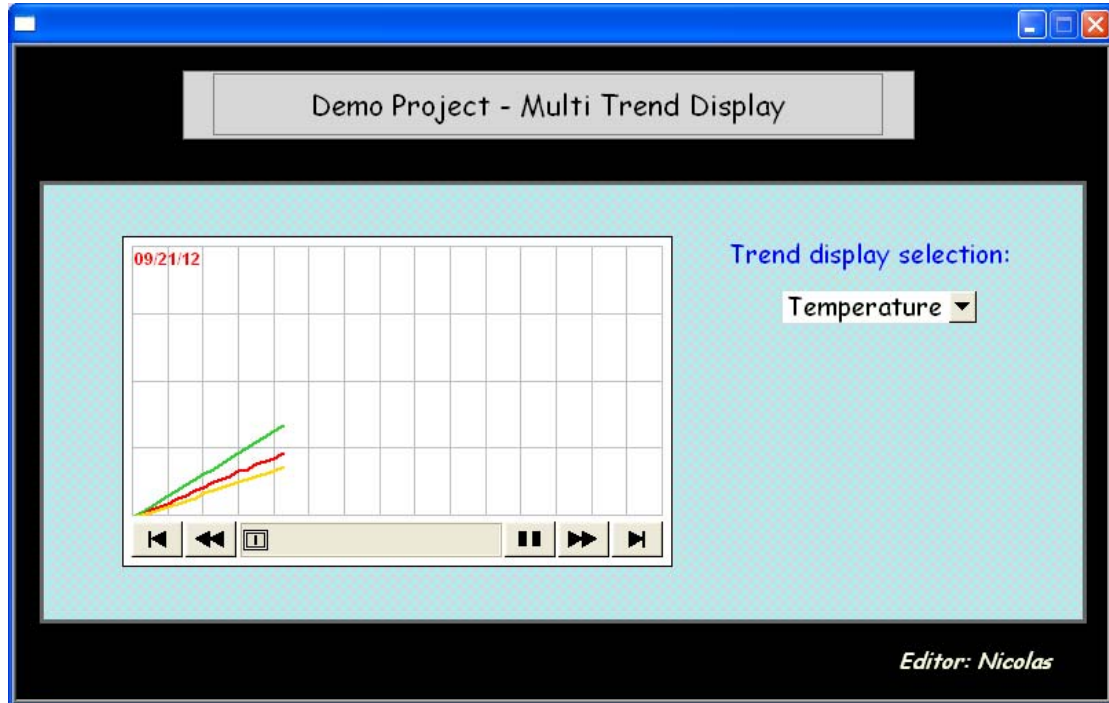
Overview

This demo project introduces how to use Indirect Window and Option List objects to display multiple real-time trend curves in one window.



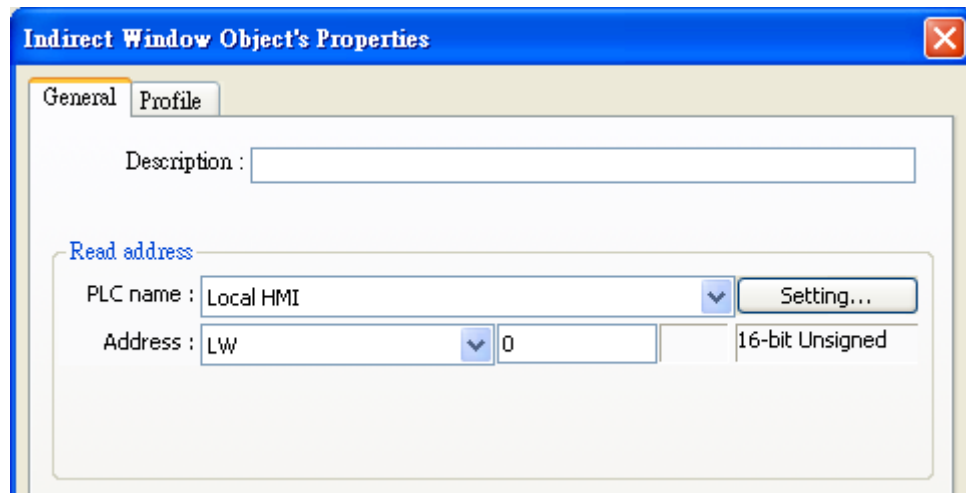
Operation

From the [Trend display selection] pull-down list select the desired trend to observe.

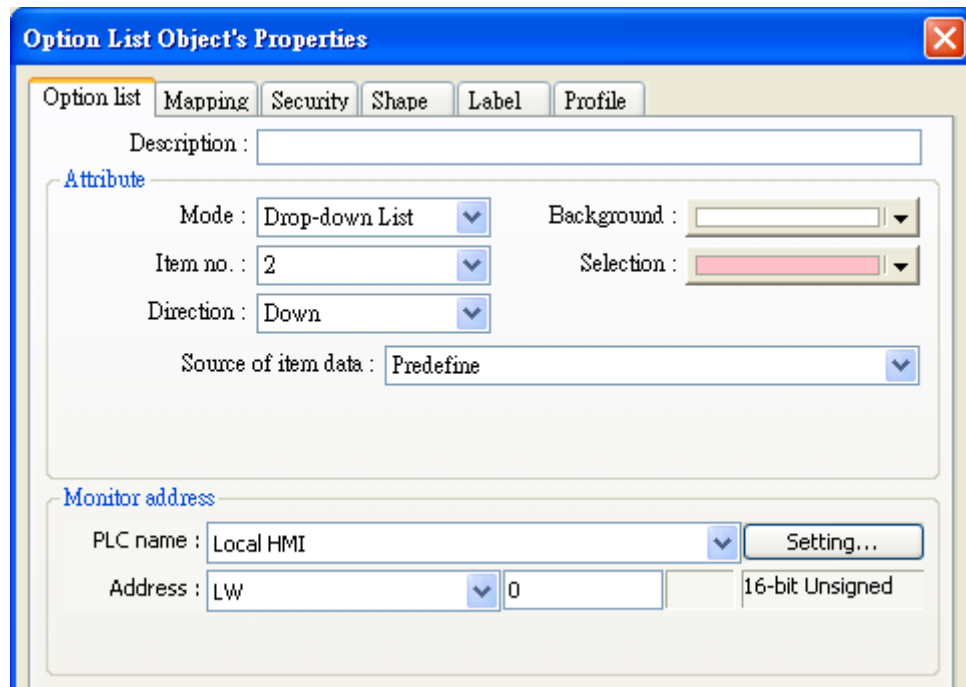


2. Setting up the Screen

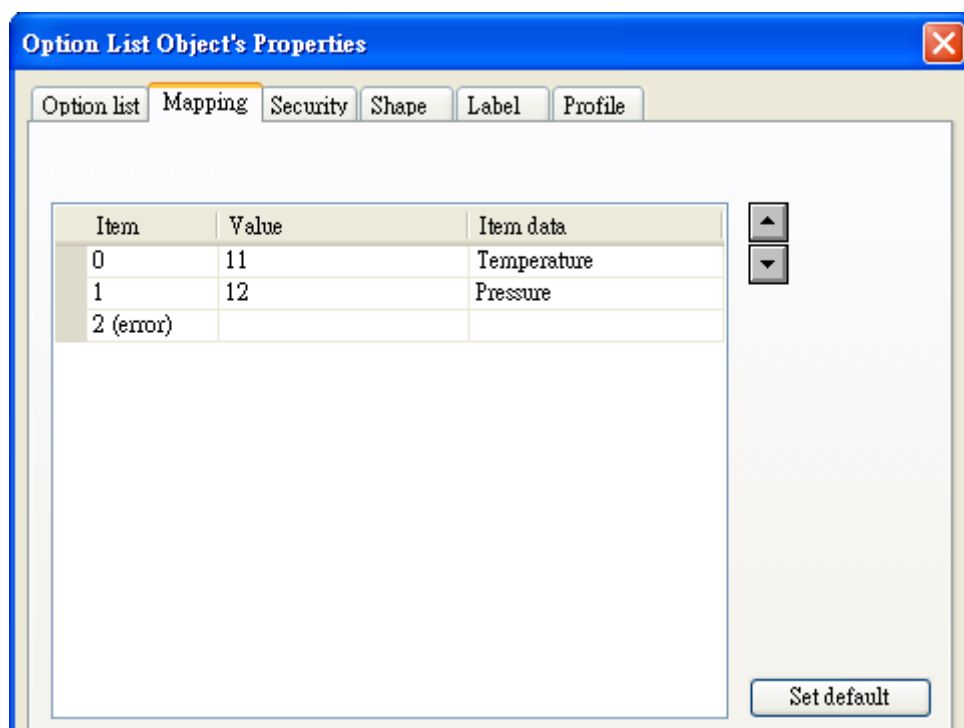
1. Create an Indirect Window object in window no. 10, set [Read address] to LW-0.



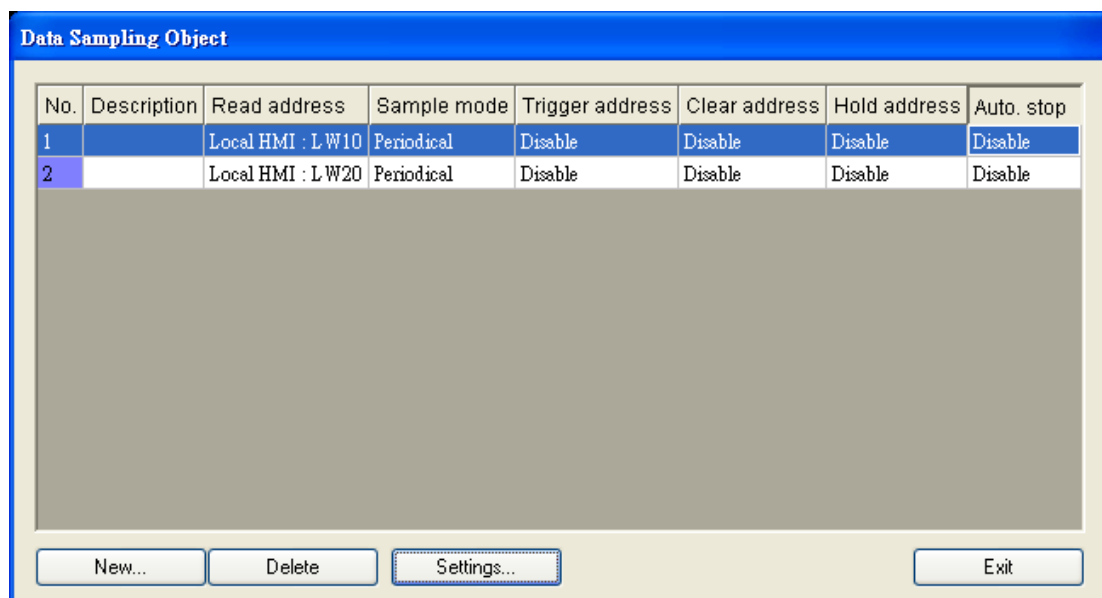
2. Create an Option List object in window no. 10, set [Monitor address] to LW-0, and configure the relevant settings as shown below.



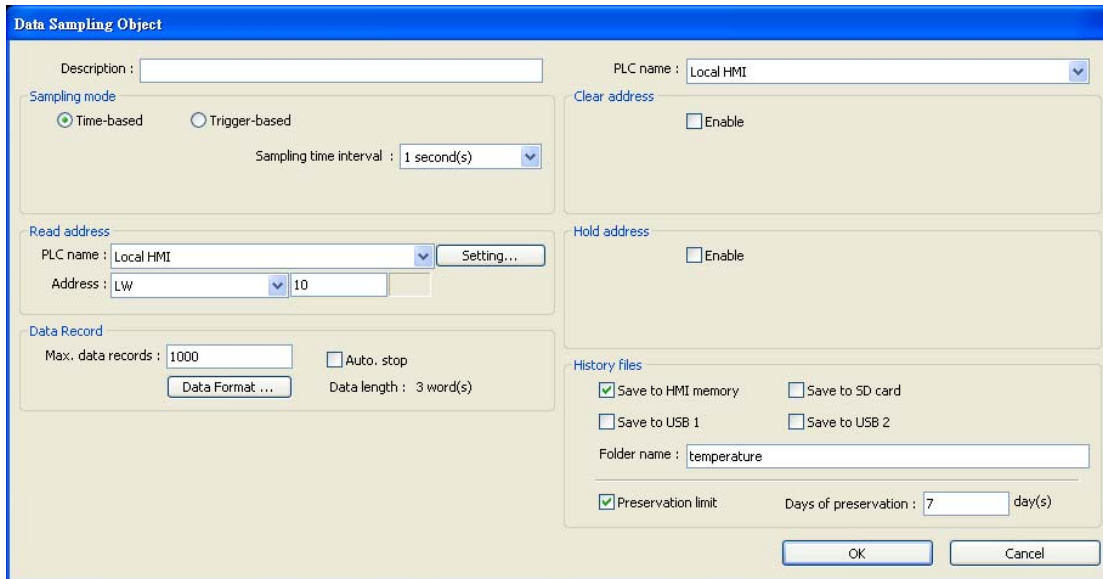
In Mapping tab set the corresponding values of items. The value represents the window no. in which the trend is located.



3. Add two data sampling records, each set as needed.



The following is an example of data sampling object index 1:



Data Sampling Object

Description :

PLC name : Local HMI

Sampling mode

☒ Time-based ☐ Trigger-based

Sampling time interval : 1 second(s)

Read address

PLC name : Local HMI

Address : LW 10

Data Record

Max. data records : 1000 ☐ Auto. stop

Data length : 3 word(s)

Clear address

☐ Enable

Hold address

☐ Enable

History files

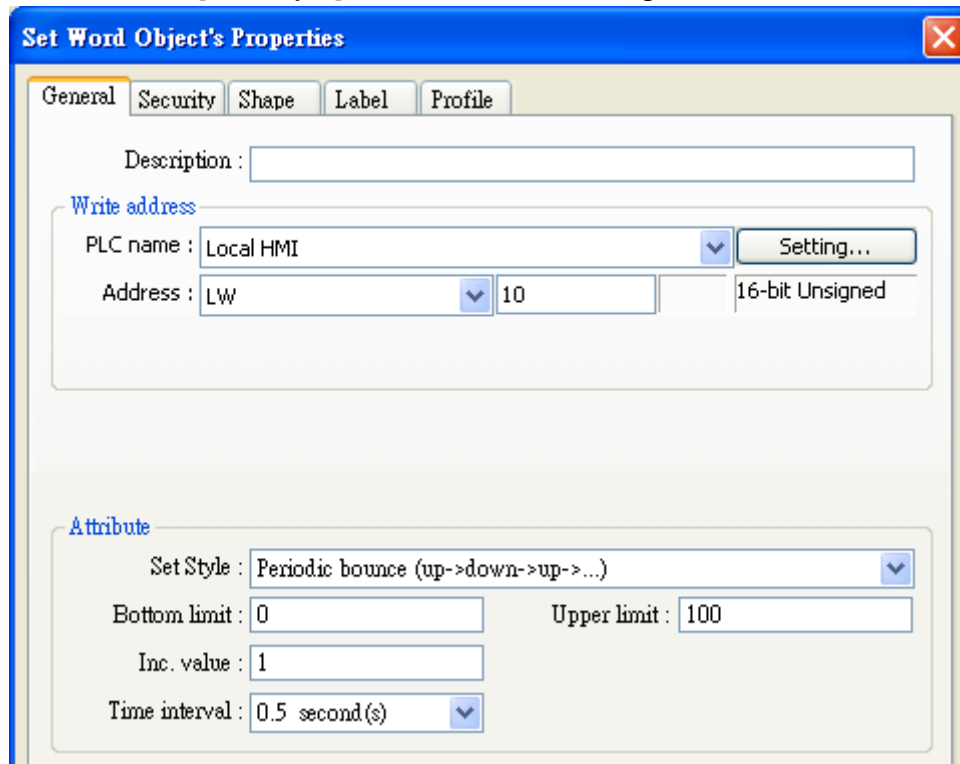
☒ Save to HMI memory ☐ Save to SD card

☐ Save to USB 1 ☐ Save to USB 2

Folder name : temperature

☒ Preservation limit Days of preservation : 7 day(s)

4. Create several Set Word objects in window no. 10 to change values.
Please set the [Set Style] based on actual usage.



Set Word Object's Properties

General Security Shape Label Profile

Description :

Write address

PLC name : Local HMI

Address : LW 10 16-bit Unsigned

Attribute

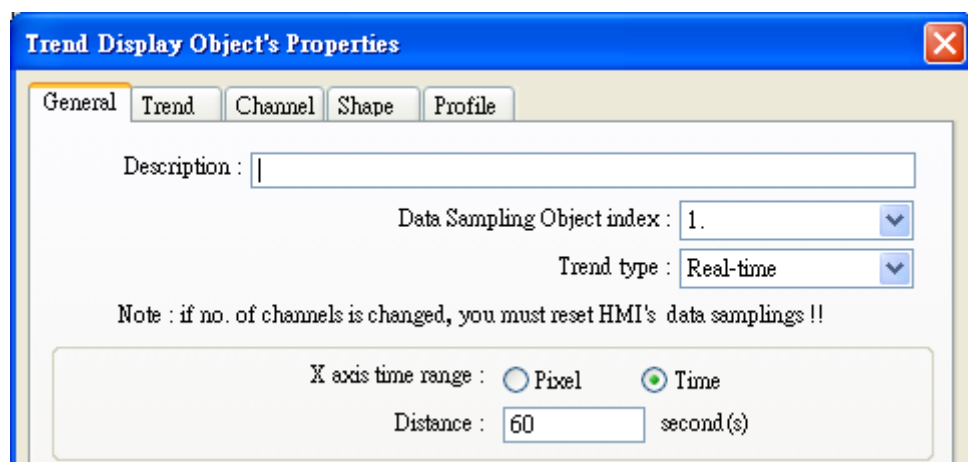
Set Style : Periodic bounce (up->down->up->...)

Bottom limit : 0 Upper limit : 100

Inc. value : 1

Time interval : 0.5 second(s)

5. Respectively create a Trend Display object in window no. 11 and 12, and set [Data Sampling Object index] to 1 and 2.



3. Addresses

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

Object	Address	Object ID	Description
Window 10			
Option List	LW-0	OL_0	Select the window in which the trend is located.
Indirect Window	LW-0	WP_0	Displays trend curve.
Set Word	LW-10~12 LW-20~22	SW_0 ~ SW_5	Sets the way the values change.
Window 11			
Trend Display		TD_0	Displays data sampling index 1.
Window 12			
Trend Display		TD_0	Displays data sampling index 2.