WEINTEK LABS., INC.

Trend Display Y Scale

Demo Project

Contents

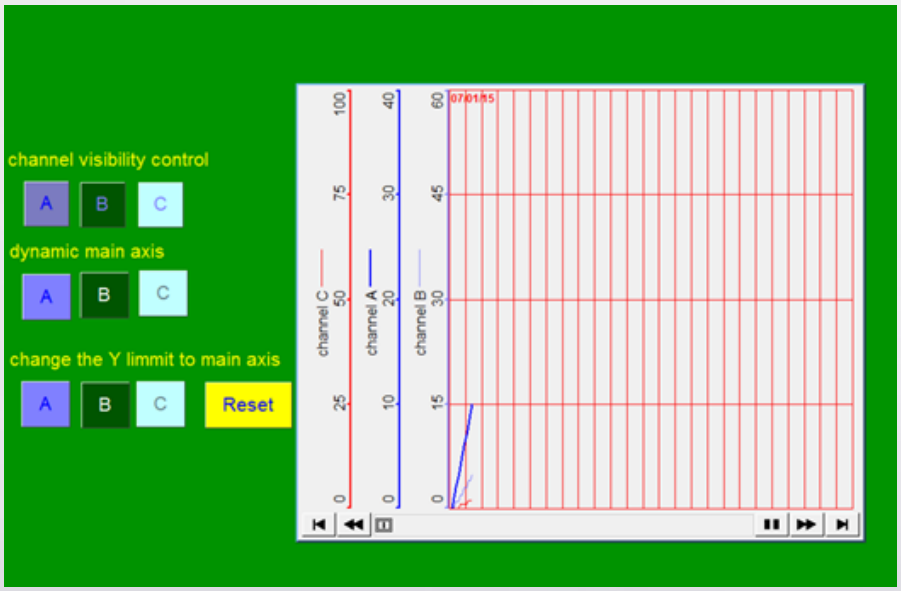
1. Overview and Operation

Overview

This demo project introduces how to use Trend Display Y-axis to set the visibility of each channel, and furthermore, to dynamically change the main axis and the limits on Y scale.

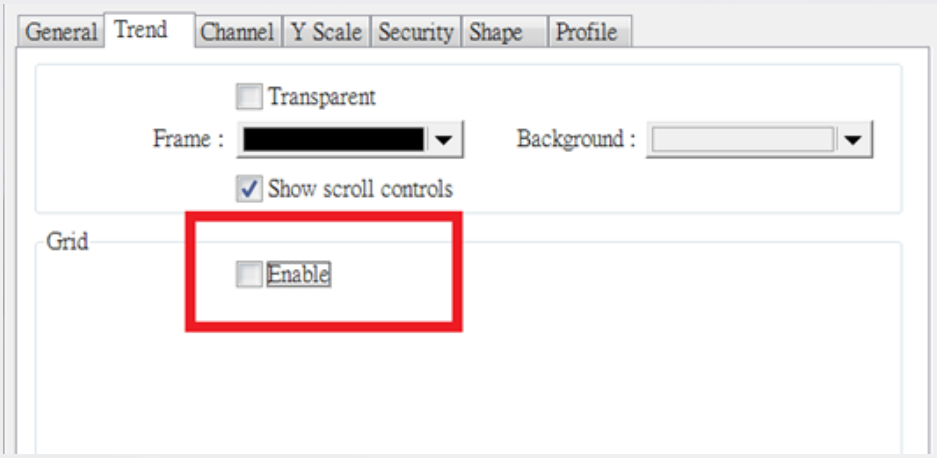
Operation

Tap the toggle switches on the left side to change the main channel, hide or show each channel and set the range of different channels.

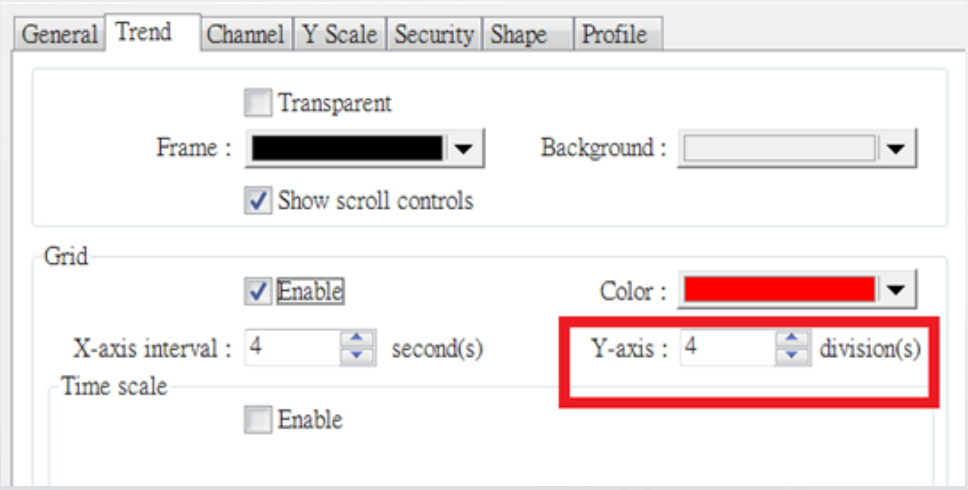


2. Setting up the Screen

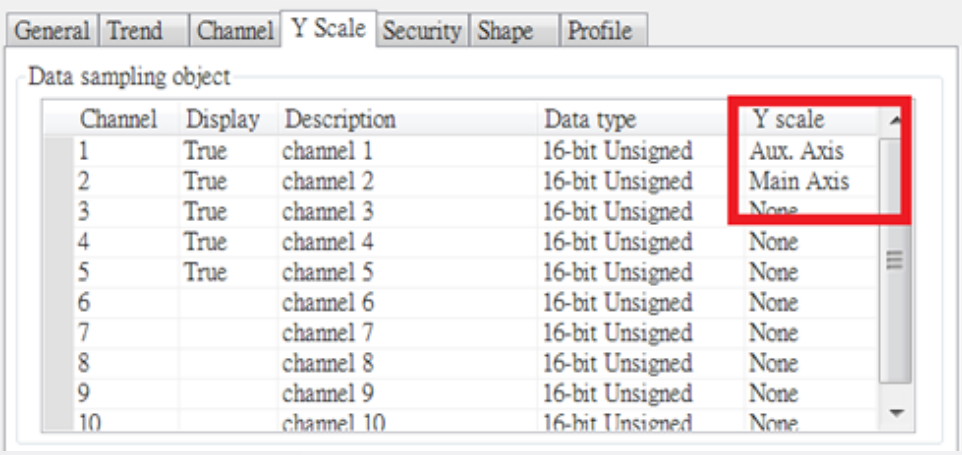
Step 1. Enable the Grid function to use the Y-scale.



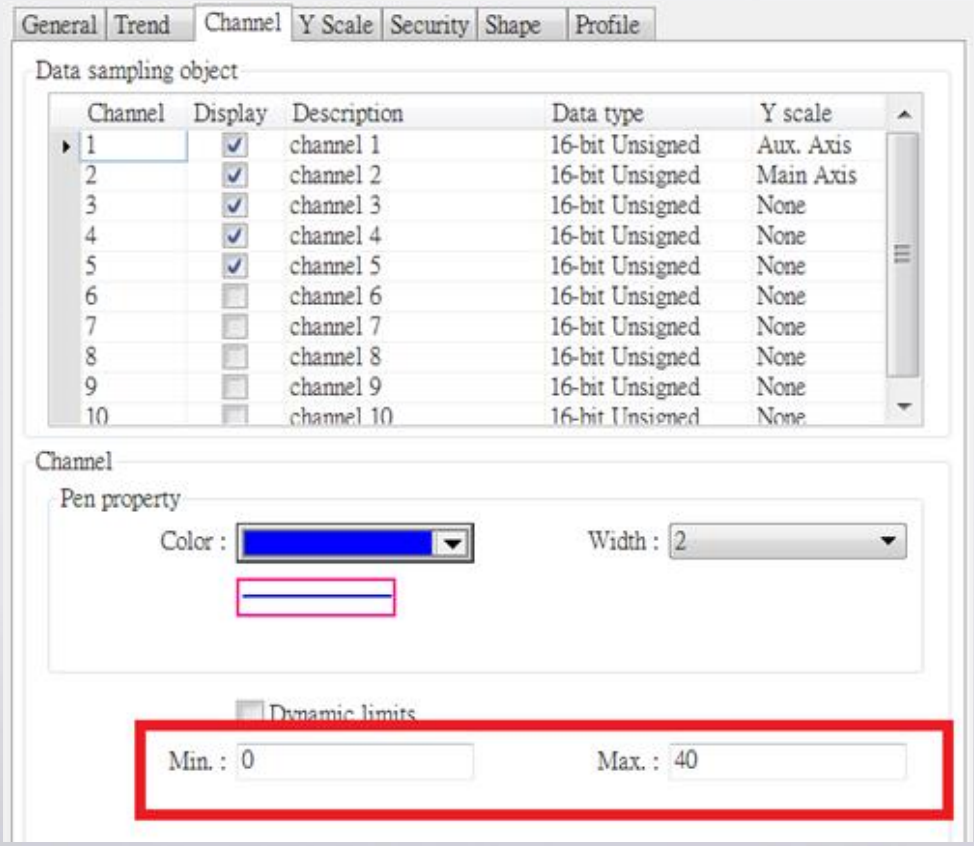
Step 2. Set the Y-axis division.



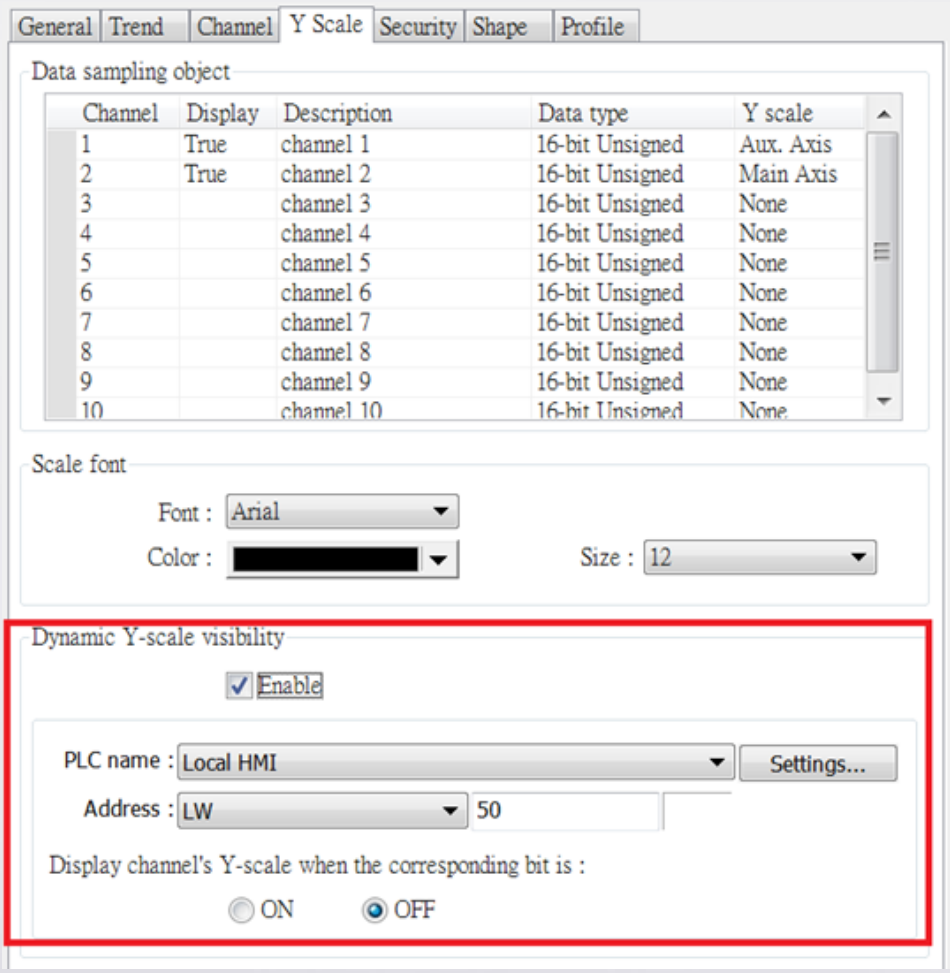
Step 3. Set each Y-axis as Main Axis or Aux. Axis



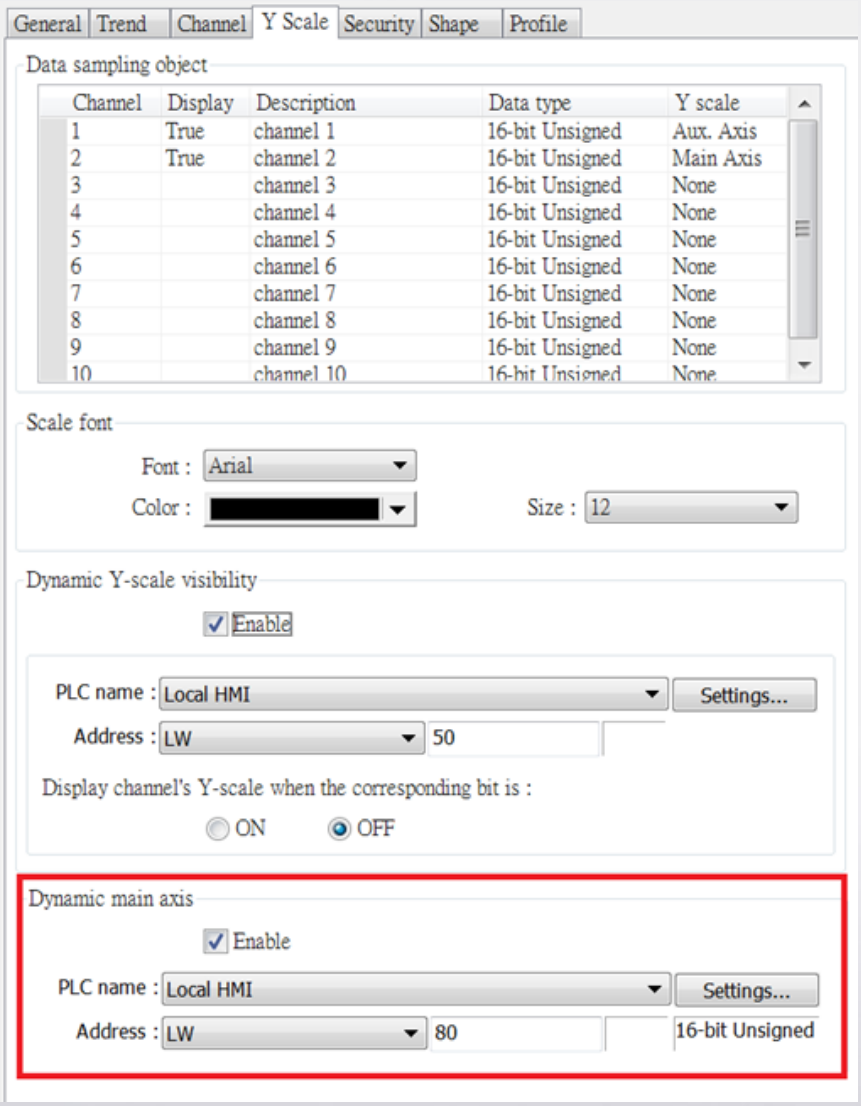
Step 4. The axis reference's up and low limits are set at each channel.



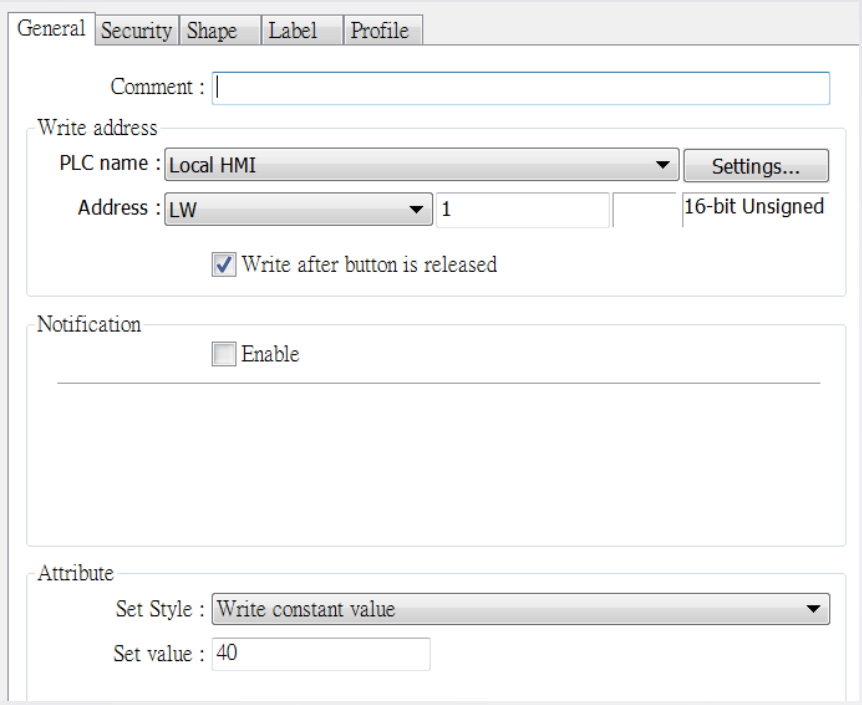
Step 5. In the Dynamic Y-scale Visibility group box, set the Y-scale to be shown or not. If the control address is LW-50, then the first axis is controlled by LW_Bit 5000, the second axis is controlled by LW_Bit 5001… and so on.



Step 6. The dynamic main axis allows the user to change the main axis. If the LW-80 is written into 1, the main axis will be channel 1, if it's set into 2, the main axis will be channel 2…and so on.



Step 7. Use [Write address] to write the constant value and change the maximum and minimum limits of different channels. Use LW-0 and LW-1 to control the minimum and the maximum limits of Channel 1. Use LW-2 and LW-3 to control the minimum and the maximum limits of Channel 2. And so on…


General
Security
Shape
Label
Profile
Comment :
Write address
PLC name :
Local HMI
Settings...
Address :
LW
1
16-bit Unsigned
Write after button is released
Notification
Enable
Attribute
Set Style :
Write constant value
Set value :
40

3. Addresses

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

Object	Address	Object ID	Description
		Window 10	
Trend Display	LW-50	TD_0	Controls Dynamic Y-scale visibility.
Trend Display	LW-80	TD_0	Displays trend curve.
Toggle Switch	LW_Bit 5000~ LW_Bit 5001	TS_0~ TS_2	Controls Dynamic Y-scale visibility.
Set Word	LW-80	SW_3~SW_5 SW_18~20	Selects the displayed trend curve.
Set Word	LW-0~LW-5	SW_7~SW_17 SW_21~SW_23	Sets the minimum and maximum value of each channel.