

24 Hours Trend Display

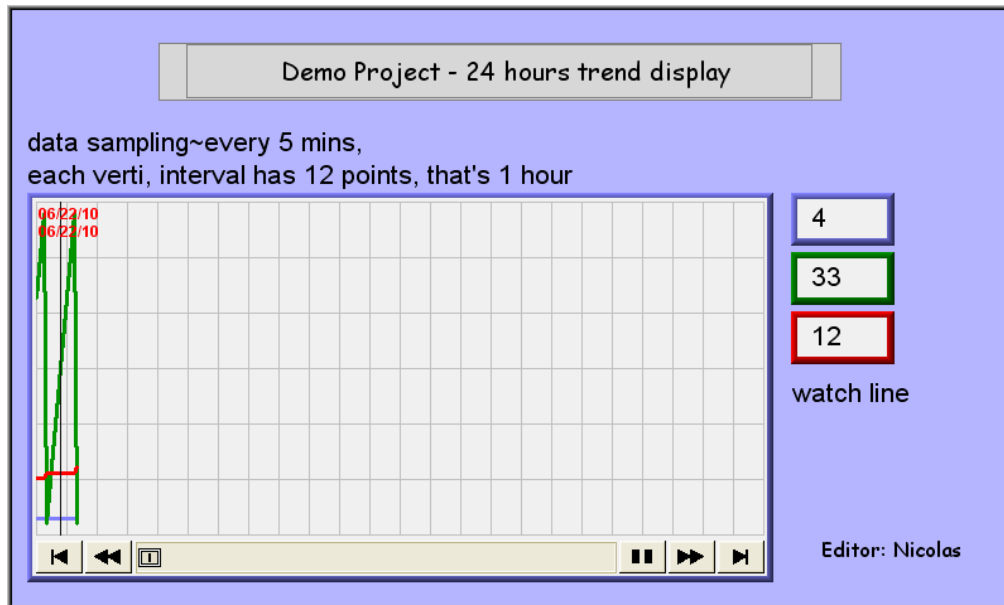
Table of Contents

1. Overview and Operation	3
2. Setting Up the Window	4
3. Addresses	7

1. Overview and Operation

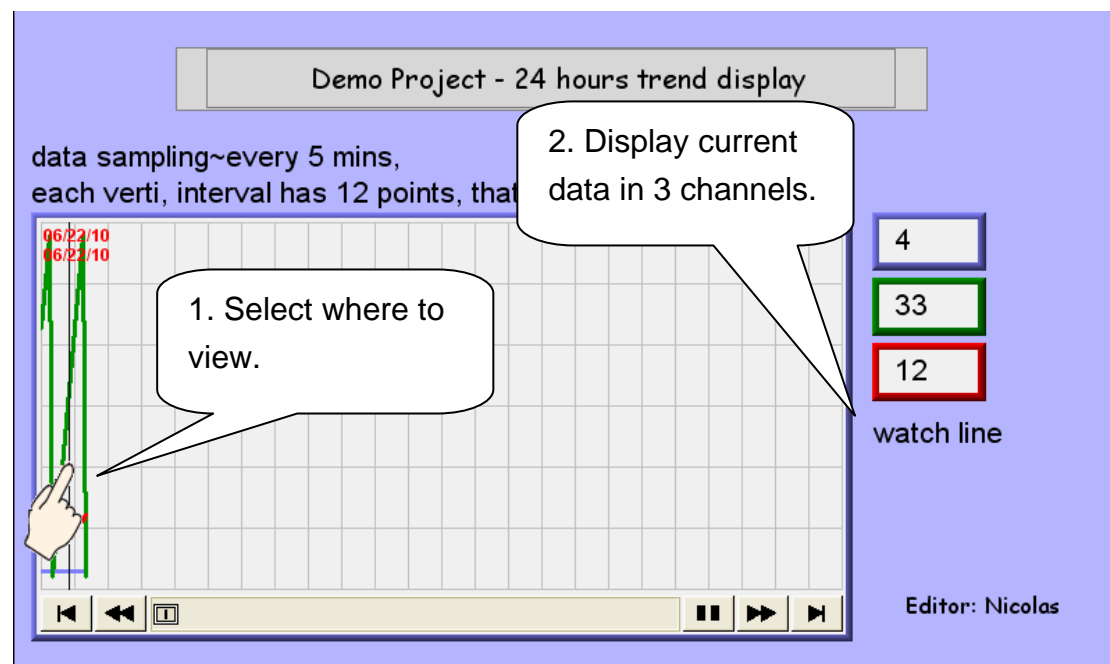
Overview

This Demo Project will introduce users how to display data over (include) 24 hours with **[Trend Display]** object that has a time limit.



Operation

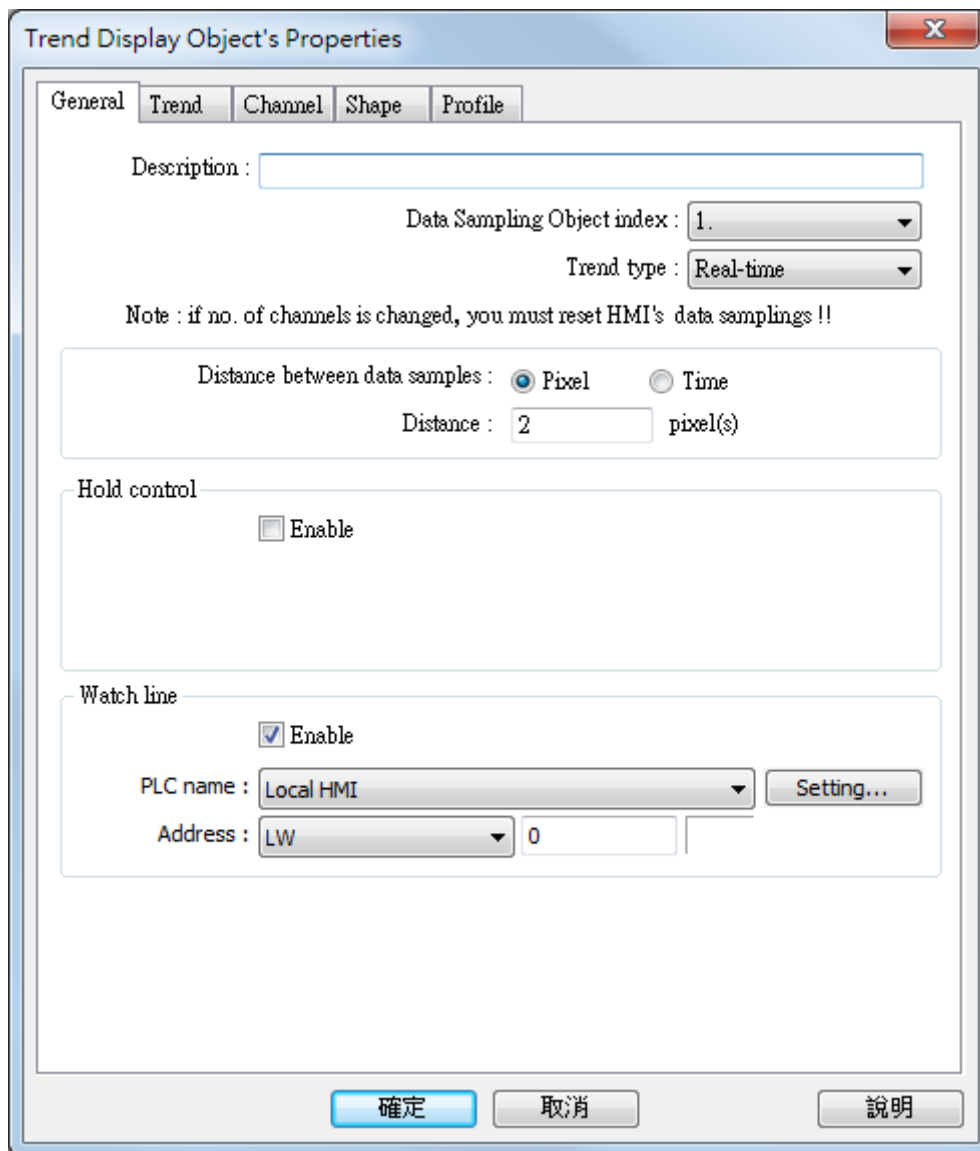
Users can view current value in the channel through **[watch line]** function.



2. Setting Up the Window

1. Users should build the data source for trend display first. That is to set the read address of **[data sampling]**, time interval and data format...etc.
(Ex: L-W9017, LW-9018, LW-9019, set **[sampling time interval]** as “5 minutes”, or any other interval users need.)

2. Once the **[trend display]** object is built, users should set **[Distance between data samples]** to be calculated as **[Pixel]** or **[Time]** (seconds). This demo illustrates a 24 hours trend display, but it doesn't make the **[Time]** here to be 86400 seconds (86400 points in one trend display). Take MT8100i series as an example, the resolution is 800 x 480 that means its X coordinate can't exceed 800 points. It is impossible to display every second in one day. The maximum is 65535 seconds. Therefore, here we select **[Pixel]** and set the distance "2".



Trend Display Object's Properties

General Trend Channel Shape Profile

Description :

Data Sampling Object index : 1.

Trend type : Real-time

Note : if no. of channels is changed, you must reset HMI's data samplings !!

Distance between data samples : ☒ Pixel ☐ Time

Distance : 2 pixel(s)

Hold control

☐ Enable

Watch line

☒ Enable

PLC name : Local HMI

Address : LW 0

確定 取消 說明

3. Enable **[Grid]** in **[Trend]** tab. Set **[Horiz.]** as "6" divisions and **[Verti. interval]** as "12" points. Since we set "5" minutes to be **[Sampling time interval]**, "12" points indicate 1 hour (12 times x 5 minutes = 1 hour) per grid. In this demo there will be 24 grids in X axis that indicate 24 hours.

Trend Display Object's Properties

General Trend Channel Shape Profile

Frame : Background :

☒ Show scroll controls

Grid

☒ Enable Color :

Horiz. : 6 division(s) Verti. interval : 12 point(s)

Time/Date

☐ Time ☒ HH:MM:SS ☐ HH:MM Color :

☒ Date ☒ MM/DD/YY ☐ DD/MM/YY ☐ DD.MM.YY ☐ YY/MM/DD

確定 取消 說明

3. Addresses

The addresses used in this demo project are listed below; users can define different addresses or object ID to meet the demand.

Object	Address	Object ID	Description
Window 10			
Numeric Display	LW-0	ND_0	Watch Channel 0
	LW-1	ND_1	Watch Channel 1
	LW-2	ND_2	Watch Channel 2
Trend Display		TD_0	Real Time Mode, Read Address LW-0