

XY trend & history curve setting



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I. General

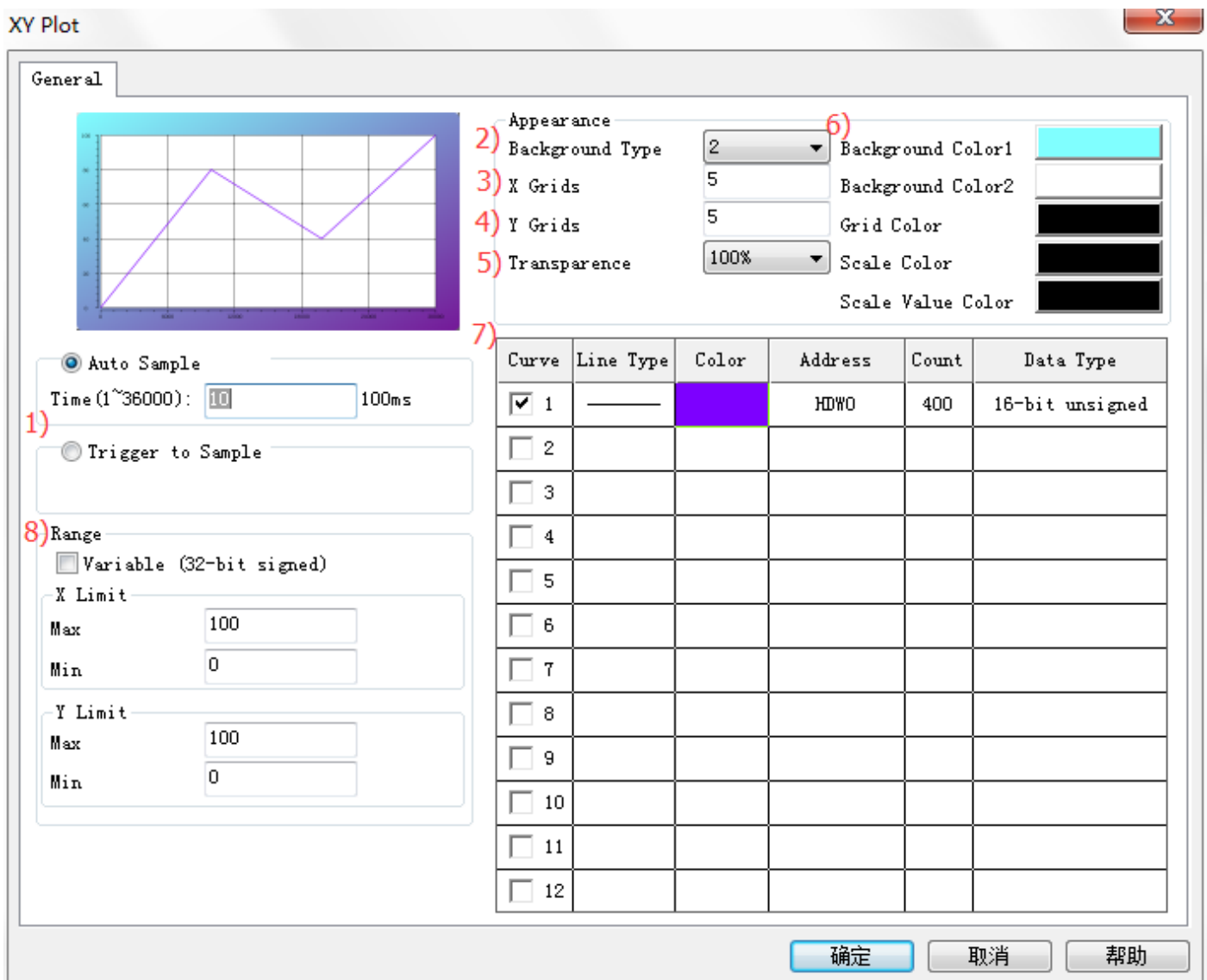
In PI series HMI, there is XY curve function, it divided into two types, one is XY current curve, and the other is XY history curve. This demo shows how to set the XY current curve and history curve.

II. Trend curve

The real time data in cache will display as continuous curve, and each point in XY plot needs 2 addresses to set a point.

2.1 XY plot object settings

The XY plot is in “Object library”->”Chart”->”XY Plot”, please put this object in screen, and double click it to open the setting screen, as FIG 1 shows.



XY Plot

General

Appearance

2) Background Type: 2

3) X Grids: 5

4) Y Grids: 5

5) Transparence: 100%

6) Background Color1: Cyan

Background Color2: White

Grid Color: Black

Scale Color: Black

Scale Value Color: Black

7)

1) Auto Sample

Time (1~36000): 10 100ms

Trigger to Sample

8) Range

☐ Variable (32-bit signed)

X Limit

Max: 100

Min: 0

Y Limit

Max: 100

Min: 0

Curve	Line Type	Color	Address	Count	Data Type
<input checked="" type="checkbox"/> 1	——	Blue	HDWO	400	16-bit unsigned
<input type="checkbox"/> 2					
<input type="checkbox"/> 3					
<input type="checkbox"/> 4					
<input type="checkbox"/> 5					
<input type="checkbox"/> 6					
<input type="checkbox"/> 7					
<input type="checkbox"/> 8					
<input type="checkbox"/> 9					
<input type="checkbox"/> 10					
<input type="checkbox"/> 11					
<input type="checkbox"/> 12					

确定 取消 帮助

FIG 1

1) Sample mode: users could select auto sample or trigger sample;

- 2) Background Type: there are four types for selecting;
- 3) X Grids: users could set how many grids display in X axis of object;
- 4) Y Grids: users could set how many grids display in Y axis of object;
- 5) Transparence: when select 0, the object display transparently;
- 6) The object display style setting;
- 7) Set curves parameters;
- 8) Object data range;

2.2 Screen settings

This demo uses ten digital input/display objects for current curve. So that there are five plots form a curve. As the FIG 2 shows.



XY trend curve

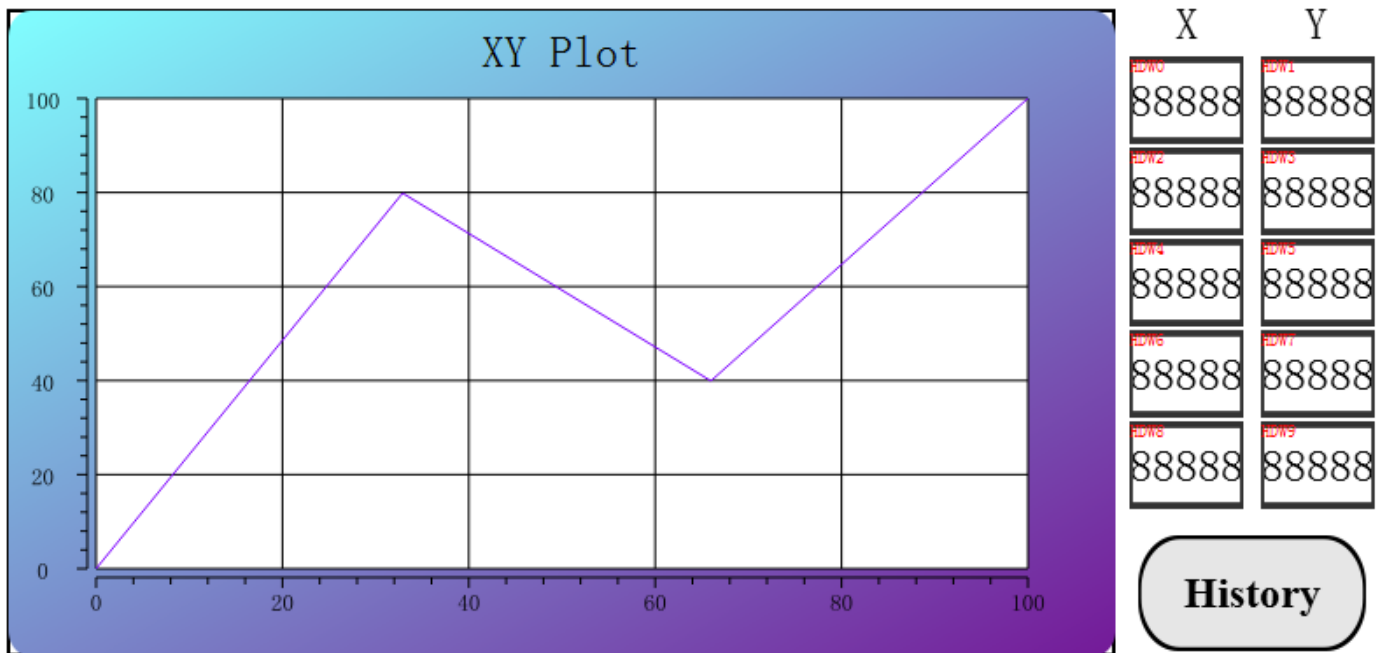


FIG 2

III. History curve

One point value will be display in this object by curve. One point needs 2 addresses in History XY plot.

3.1 History XY plot setting

Different from current curve, uses need to set history curve items in project. Please click “Project”->”History XY Plot” to open the setting screen;



FIG 3

The setting screen as FIG 4 shows.

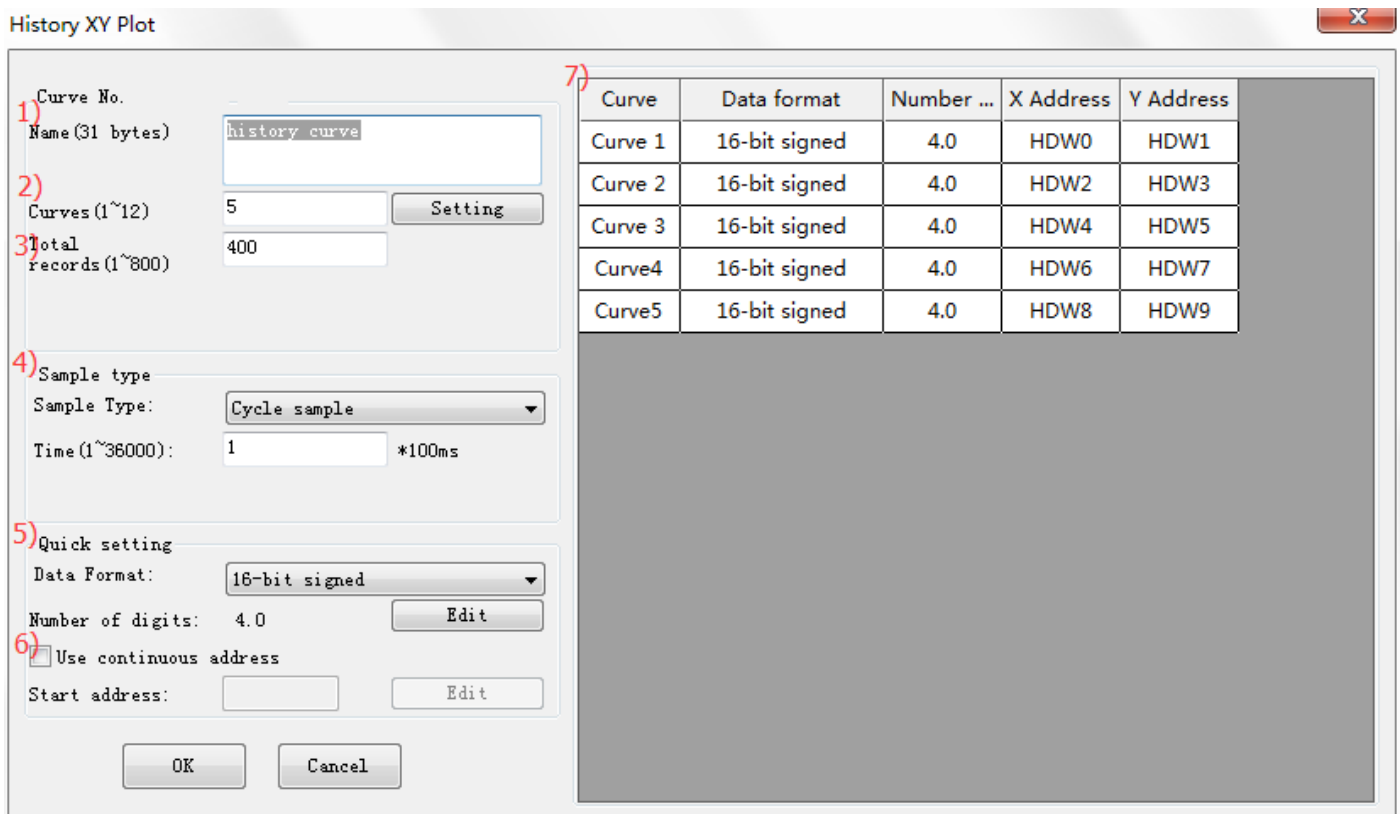


FIG 4

- 1) Name: users use it to name curve item;
- 2) Curves: it used to set how many curves in one item;
- 3) Total records: it used to set how many records in one curves;
- 4) Sample type: there are two modes for selecting.
- 5) Quick settings: it only used for all the curves are in the same data format;
- 6) Use continuous address: it only used for all the curves are read data from continuous addresses;
- 7) Curve setting: Users could set curve one by one with different data format and intermittent address.

3.2 History XY plot

The history XY plot is in “Object library”->”Chart”->”History XY Plot”, please put this object in screen, and double click it to open the setting screen, as FIG 5 shows.

- 1) Appearance: it used to set object appearance in screen;
- 2) Curve buffer: it is used for select History XY plot item; The item settings, please refer to 3.1;

- 3) Range: user could set range in here, there are two modes, one is fix range, and others is variable range;
- 4) Preview: it shows the object appearance;
- 5) Curves settings: users could set curves style;

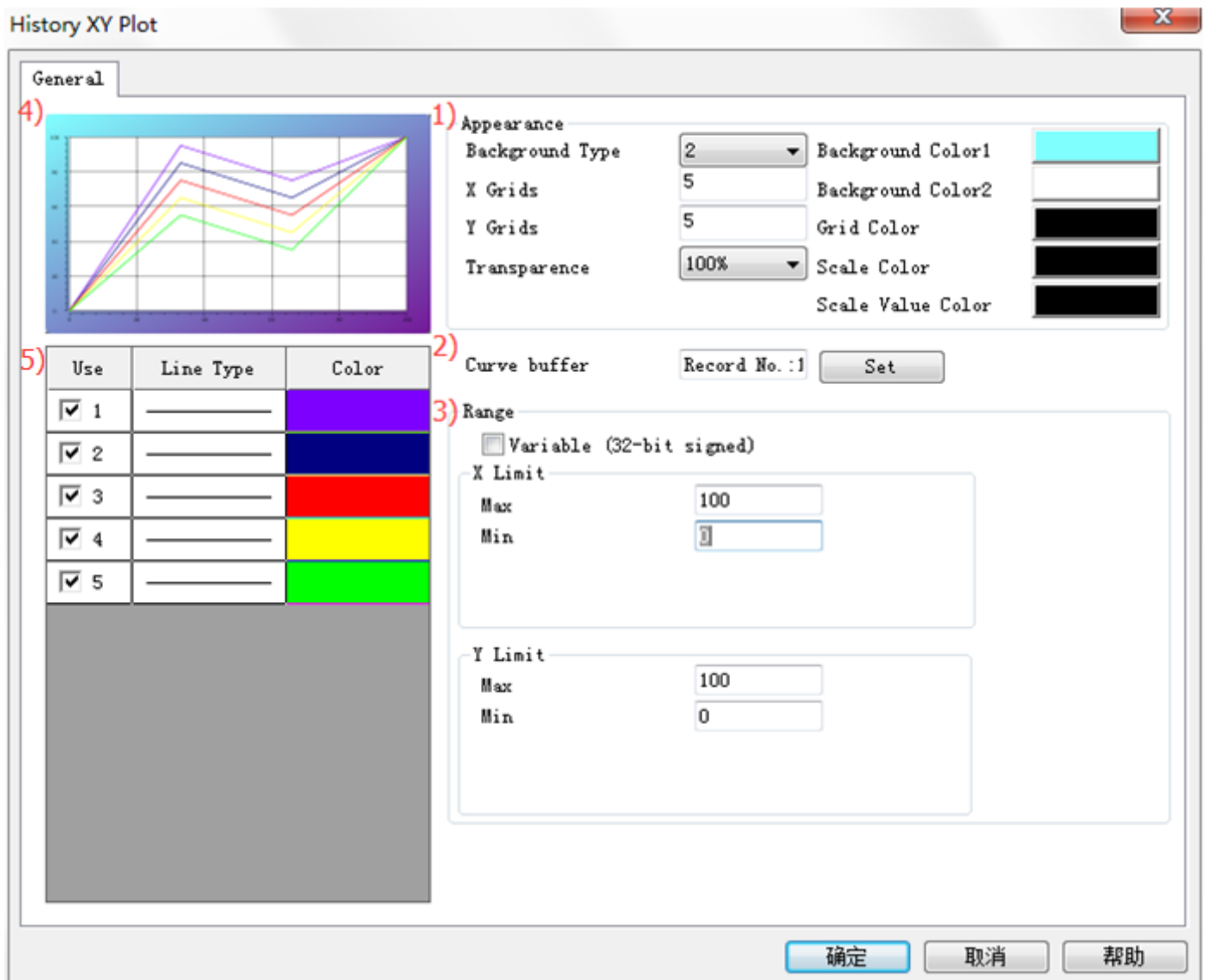


FIG 5

IV. Example

This example has two screens, one displays current curve, and second displays history curve. Both current and history read the data from the same addresses, so I put digital input/display objects in common screens.

