

Historical curve control applications

category	content
Key words	Historical curve screen controls to configure the serial port control
summary	



revise history

version	date	the reason	prepared by	Examine
V1.0	2016/2/22	Create documents	Xie upheld as	
V1.1	2017/4/5	Add command value transmitted	Xie upheld as	
V1.2	2017/6/3	Modify part	Chien	



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1. Scope

Documentation for budget, basic, business type, object linking, 86 Serial screen box series products.

2. Development Environment version

1. VisualTFT Software version: V3.0.0.749 And above;

View version: (1) Open the software, the software version number displayed in the lower right corner. (2) turn on VisualTFT Click Help ->

About VisualTFT You can view the current software version number. The latest version can be found at www.gz-dc.com Download



2. Serial screen hardware version: V2.22.915.XXX And above.

View version:

(1) Check the version number sticker on the back screen.

(2) VisualTFT After the success of the online screen, the version number displayed in the lower right corner.

3. Properties window

Usage history curve recorded data changes a certain period of time, such as the greenhouse temperature, humidity, carbon dioxide and other data changes as 3-1 As shown, the historical curve control properties.

属性窗口

采样设置

采样点数

1024

使能采样

是

数据格式

UINT8

采样周期

1

数据存储

否

范围设置

最大值

100

最小值

0

时间轴宽度

100

曲线设置

曲线宽度

2

通道数

1

通道0

0; 0; 255

外观设置

字体

GBK-16*16

显示边框

是

边框宽度

2

边框颜色

255; 255; 255

显示背景

是

背景颜色

200; 200; 200

水平延伸

35

垂直延伸

35

显示滚动条

是

滚动条颜色

128; 128; 128

网格颜色

255; 255; 255

文字颜色

255; 255; 255

显示时间刻度

下边显示

刻度数

10

显示网格

是

显示日期

YYYY-MM-DD

显示时间

HH:MM:SS

显示垂直刻度

是

刻度数

11

显示网格

是

Map 3-1 Properties window

3.1 Sampling Set

采样设置

采样点数

1024

使能采样

是

数据格式

UINT8

采样周期

1

数据存储

否

Map 3-2 Sampling Set

- 1 , Sampling points: a single channel over the entire width of the control range, a number of points from left to right.
- 2 , Enable sampling: whether to allow the initial state of the sample can be controlled by an instruction.
- 3 , Data format: Optional UINT8 , INT8 , UINT16 , INT16 , UINT32 , INT32 , FLOAT .
- 4 , Sampling period: take a cycle point, here in seconds.
- 5 , Data storage: whether the stored user FLASH in.

Note: Historical control data recording block curve shared memory, data storage is turned on, the memory address should be set. Data storage address calculation: A, Control data storage size = maximum number of records a single record size * +24 (unit: byte);

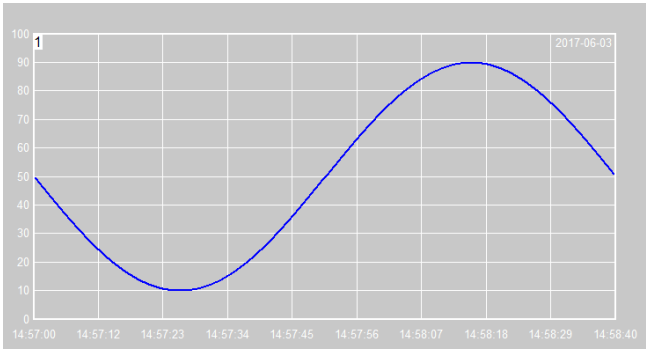
B, Storage size history curve +30 = number of samples (unit: bytes).

3.2 Setting range

范围设置	
最大值	100
最小值	0
时间轴宽度	100

Map 3-3 Setting range

- 1. Maximum: a value corresponding to the top value axis, default 100 ;
- 2. Minimum: a value corresponding to the top value axis, default 0 ;
- 3. Axis width: sampling points within the screen horizontal display range, a value 100 . Figure 3-4 Fig.



Map 3-4 Curve range

3.3 Curve settings

曲线设置	
曲线宽度	2
通道数	1
通道0	0; 0; 255

Map 3-5 Curve settings

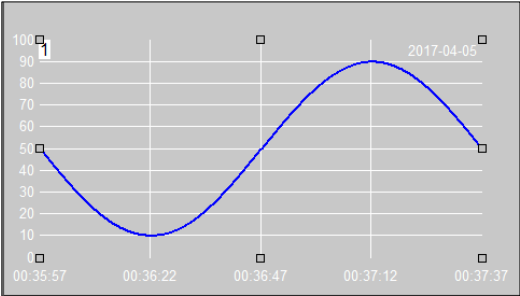
- 1 , Curve width: curve line width, optional 1 , 2 , 3 , 4 level.
- 2 , Number of channels: channel number of the curve, a control is displayed on the control up optional 8 Channels, and each color channel is adjustable.

3.4 Appearance settings

外观设置	
字体	GBK-16*16
显示边框	
边框宽度	2
边框颜色	255; 255; 255
显示背景	
背景颜色	200; 200; 200
水平延伸	35
垂直延伸	35
显示滚动条	
滚动条颜色	128; 128; 128
网格颜色	255; 255; 255
文字颜色	255; 255; 255
显示时间刻度	
刻度数	5
显示网格	是
显示日期	YYYY-MM-DD
显示时间	HH:MM:SS
显示垂直刻度	
刻度数	11
显示网格	是

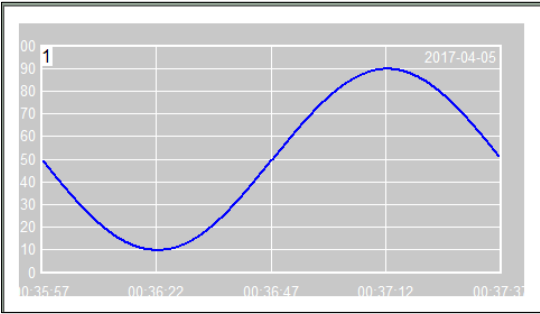
Map 3-6 Appearance settings

- 1 , Font: Set the font and font size.
- 2 , Show Border: border width can be set, border color, alternative "Yes" or "No", the default "Yes" when "No", the four sides without border effects FIG. 3-7 Fig.



Map 3-7 Do not show border

- 2 , BACKGROUND Display: controls the background color may be provided, extending horizontally, vertically extending, select "Yes" or "no."
- BACKGROUND → setting display, the horizontally extending → 20 , Vertically extending → 20 , As 3-8 Fig.

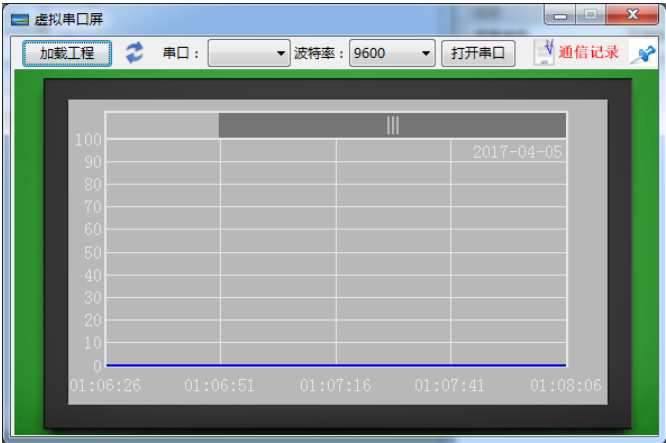


Map 3-8 Set Background

3 , Scroll bars: select "Yes" or "No", when the opening scroll bar, a scroll bar may be provided a color, grid color, text color. Set scrollbar attributes, as 3-9 Shown, running virtual screen, the scroll bar displayed at the top, view all time points can drag curve obtained results in Figure 3-10 Fig.

<input checked="" type="checkbox"/> 显示滚动条	是
滚动条颜色	<div><div></div></div> 128; 128; 128
网格颜色	<div><div></div></div> 255; 255; 255
文字颜色	<div><div></div></div> 255; 255; 255

Map 3-9 Scroll bars

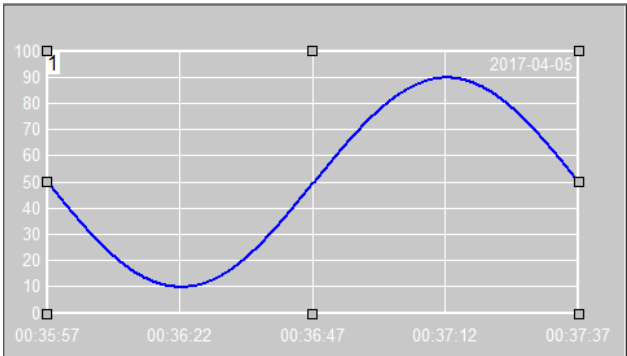


Map 3-10 Run the virtual screen

4 , Display Time Scale: Optional "No", "below Display "or" display the top "(when the display is turned on, the number of scale may be provided, whether to display a grid, whether to display the date, whether the display time.) Set the time scale in FIG. 3-11 , The effect of control, as shown in 3-12 Fig.

<input checked="" type="checkbox"/> 显示时间刻度	下边显示
刻度数	5
显示网格	是
显示日期	YYYY-MM-DD
显示时间	HH:MM:SS


Map 3-11 Time scale display



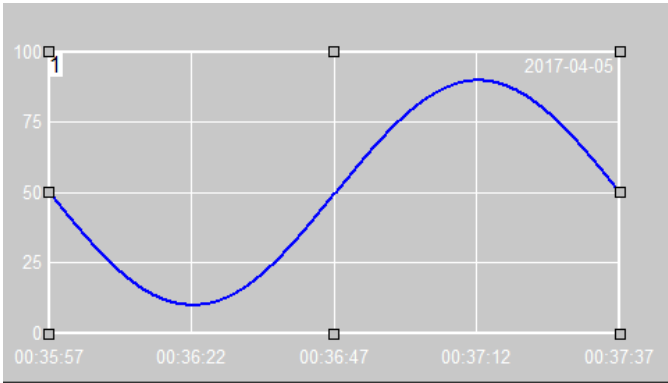
Map 3-12 Control effect

5 , Display vertical scale: Optional "Yes" or "No", the display is turned on, the number of scale may be provided, if the display grid.

Setting the vertical scale in FIG. 3-13 , The effect of control, as shown in 3-14 Fig.

 显示垂直刻度	是
刻度数	5
显示网格	是

Map 3-13 Vertical scale display



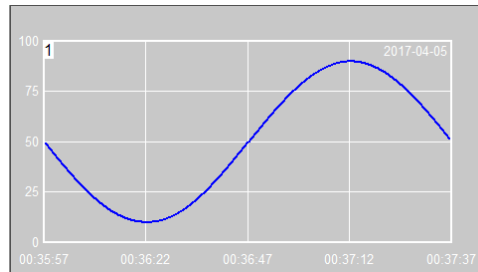
Map 3-14 Control effect

4. Historical curve control applications

4.1 Example Operation

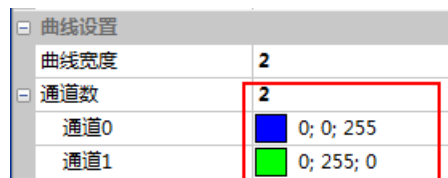
use 2 Data channel, to transmit data by instructing the assistant to control history curve, as follows:

1 , New construction, adding the historical curve covering the entire screen. Figure 4-1 Fig.



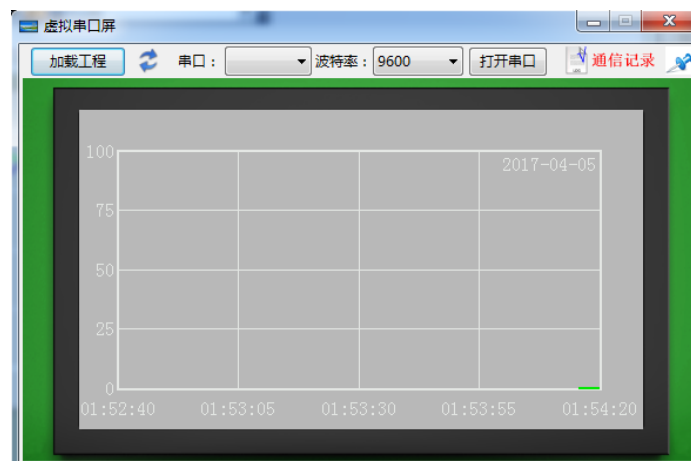
Map 4-1 New Construction

2 , Number of channels provided → 2 On the channel 0 , 1 Set different colors, as shown in 4-2 Fig.



Map 4-2 Set the number of channels

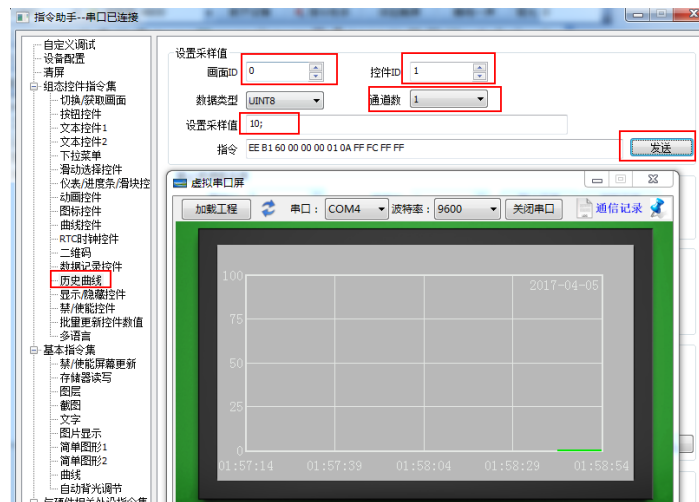
3 , After compiling correct, click to run the virtual screen, as 4-3 Fig.



Map 4-3 Run the virtual screen

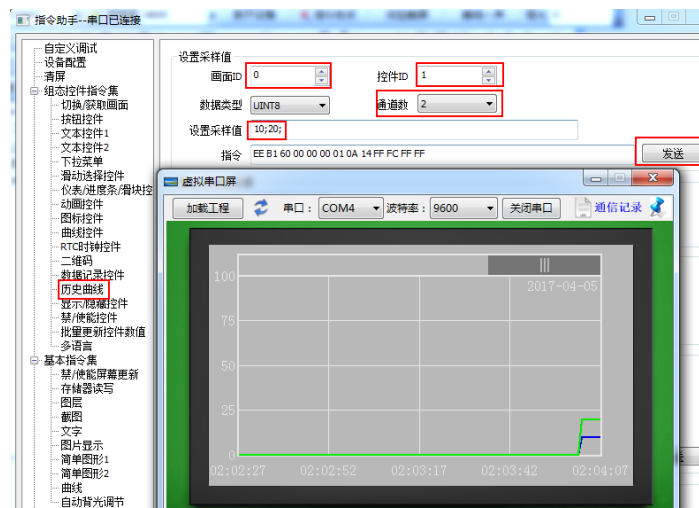
NOTE: When setting the number of channels n, transmission of n sampling values required, otherwise set invalid sample values, Figures 4-5 demonstrate the following.

4 , Use instruction assistant, screen ID → 0 , Control ID → 1 , Channels → 1 ,sample value 10 After transmission results in Figure 4-4 Fig. Curve was observed, the sample value is not changed.



Map 4-4 Select the number of channels 1

5 Use instruction assistant, screen ID → 0 , Control ID → 1 , Channels → 2 ,sample value 10; 20 After transmission results in Figure 4-5 Fig. Curve was observed, the sample value changes.



Map 4-5 Select the number of channels 2