

New Functions of Kinco HMIware V2.0

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1 New Components

1.1 Pipeline



Pipeline component is used to build pipeline effect in the HMI program.

Basic Attributes of Pipeline

Basic Attributes of Pipeline		
Basic Attributes	Radius	Set the radius of pipeline.
	Thickness	Set the thickness of pipeline border.
	Body color	Set the color of pipeline(the first color)
	Border color	Set the color of pipe border.
	Body Color Changeable	If checked, the pipeline color can be changed by specified register.
		Body color 2 Set the second color of pipeline
		Body color 3 Set the third color of pipeline
		Default color View the display effect of pipeline
	Flicker	If checked, use specified register to switch on/off the flicker effect.
	Use Flow Effect	If checked, use specified register to control the flow effect.
Default Flow Effect	Symbol	Select the flow symbol
	Copy Symbol to All Pipe	Copy the current flow symbol to all the pipes
	Symbol Color	Set the color of flow symbol.
	Copy Color to All Pipe	Copy the current flow symbol color to all the pipes
	Display Length	Set the length percentage of flow symbol in the pipe, 1~100 are optional.
	Copy Length to All Pipe	Copy the length percentage to all the pipes
	User Flowinfo to All Pipe	Copy the flow effect to all pipes.
	Not use Flowinfo to All Pipe	All the pipes do not use flow effect.
Control Address	If the bit1 of specified register is ON, Pipeline uses the second color; if the bit2 is ON, Pipeline uses the third color; Bit3 is on, Pipeline starts to flicker(when the Flicker is checked), that is to say the pipeline switching displays the first color , second color(bit1 is ON) or third color(bit 2 is ON). If the bit3 is ON, the pipeline display the flow effect(the Use Flow Effect is checked). Note: if the bit1 and bit2 are ON or OFF at the same time, pipeline displays the first color, the flicker is invalid. For example, the Control Address is LW0 (HMI local address), word length is 1. When the LW0 =1 or LW.B0.0 is ON, the Pipeline display the second color; When the LW0 =2 or LW.B0.1 is ON, the Pipeline display the third color; When the LW0 =5 or LW.B0.0 and LWB0.2 are ON at the same time, the Pipeline switching display the first color and the second color. When the LW0 =8 or LW.B0.3 is ON, the Pipeline display the flow effect.	

Pipe Info

Description of Pipe Info		
Pipe List	Number	Number 0 is the first pipeline; Number 1 is the second pipeline and so on.
	Coordinates	The start coordinates of the pipeline component.
	Type	Display the current pipe type, there are HLNE (Horizontal), Bend Node (Bend), VLINE (Vertical).
Pipe Setting	Select the corresponding pipe number, and set its parameters.	
	Type	Set the type of current pipe.
	Coordinates	Set coordinates of current pipe.
Follow Effect	Select the corresponding pipe number, and set its flow effect.	
	Symbol	Set the flow symbol of current pipeline.
	Color	Set the color of flow symbol
	Display Length	Set the display percentage of current pipeline.

1.2 GIF



GIF component is used to display the gif picture, and the switching frequency of gif picture can be controlled.

GIF Attributes

Description of GIF Attributes		
Use Start Address	If checked, when the specified register is ON, GIF displays animation, when register is OFF, GIF displays static picture.	
Use GIF Default Freq	Use the default frequency of gif picture.	
Use defined Freq	User set frequency for the gif picture.	
	Switching Frequency	Different frequencies mean different switching speed of gif picture; the larger value means the slower switching speed. Unit: 100ms.
	Use Variable Frequency	The switching frequency is read from specified register. Unit: 100ms. Note: If the specified register is PLC register, but the HMI does not communication successfully with the PLC all the time, the gif use the default frequency. If the communication is cut off, the gif uses the latest historical value in the specified PLC register.
Load GIF	Load the gif picture from PC, and preview the loaded gif picture in Preview area.	
GIF Preview	Preview the loaded gif picture in this area.	
Use Original Size	If checked, the component size is the same as the gif original size.	



GIF component only support the gif format picture.

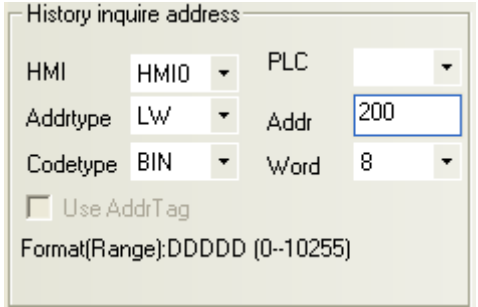
1.3 Data Report

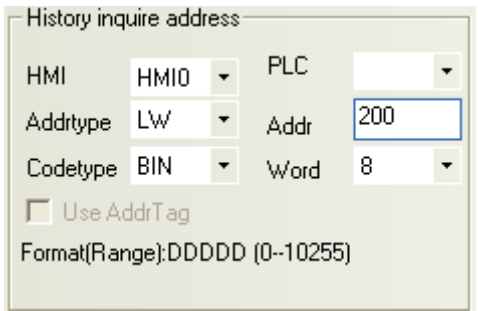
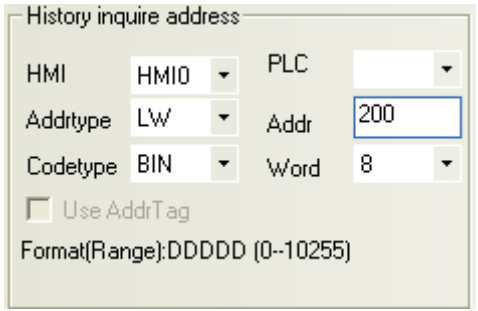
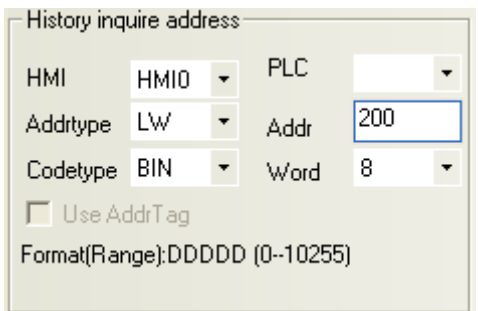


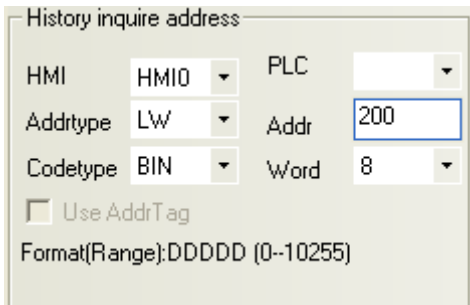
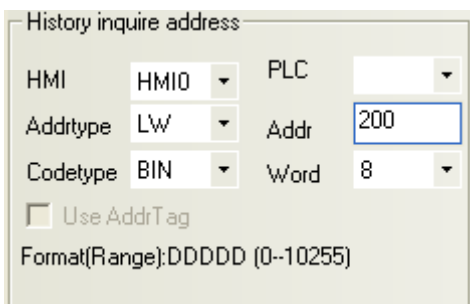
Data Report is used to display the data that is logged in the Data Logger and stored in external memory device on the HMI in report. The logged registers can be continuous or discontinuous registers.

Data Report

Detail Description of Data Report			
Data Report Attribute	Report mode	Real time	Update the report data timely according to the settings.
		History	Input the time range to query the historical report.
	Report type	Trigger Report	In the user defined time interval, trigger the sampling to get the instant data.
		Free Report	Display all the data in the user defined time interval. Note: In the real-time Report Mode, if the Free Report exceeds the user defined length, the earliest data will be deleted, then the whole report moves up
		Daily Report	Display the data of one day. Note: In the real-time Report Mode, the Daily Report is displayed in circle. The new data is displayed at the bottom of report. If the report exceeds the length of row number, the newest data displays at the top of report, and all the data in previous circle will be deleted, only the newest row data is reserved, and then start a new circle.
		Monthly Report	Display the data of the month
		Quarterly Report	Display the data of three months
		Annual Report	Display the data of a year.
	Dis. Order	By Order	The sampling data is sequenced by time order; the newest data is at the bottom.
		Reverse	The sampling data is sequenced by reverse time order, the newest data is at the top
	Report Line	Set the displaying lines of report, this parameter is only suitable for the Trigger Report and Free Report. Note: 1. The line number of Daily Report is created automatically according to the Timer Interval, for example, the time interval is 1 hour, so the line number is 24. 2. The line number of Monthly Report is 31, Quarterly Report is 3, and Annual Report is 12. 3. In the “History” Report mode, the line number of Free Report and Free Report depends on the user defined time interval.	
	Get Value Type	There are five options; they are Instantaneous Value, Min Value, Max Value, Average Value	

		and Added Value. When the Get value Type is one of Min Value, Max Value, Average Value or Added Value, the report displays the min value, max value, average value or added value of all the sampling values in a circle.
	Time Record	There are Begin Time, Mid Time, and End Time. The time that displayed in the report can be begin time, middle time or end time.
	Empty Data Process	Specified Value When there is no value in sampling register, the report displays specified value, the default value is 0. Last Valid Value When there is no value in sampling register, the report displays the last valid value.
	Time Interval	The time interval of report, there are two options, they are minute and hour. Note: This option is only suitable when the Free Report and Daily Report are selected. Because the time interval of Monthly Port and Quarterly Report are month, and time interval of Annual Report is year.
History Inquire Address 历史查询地址	History Inquire Address, the word length is 8.	
	Trigger Report	Start Date: specified address, word length is 2, input year and date in this address. Start Time: specified address +2, word length is 2, input time (hour, minute and minute) in this address. End Date: specified address +4, word length is 2, input year and date in this address. End Time: specified address +6, word length is 2, input time (hour, minute and second) in this address. Take the following picture for example, the specified address is LW200, and user wants to query the data between 9:30:40 14th, Aug, 2012 and 14:16:30 15th, Aug, 2012.  So the specified addresses are as follows: Start Date: LW200=20120814 Start Time: LW202=93040 End Date: LW204=20120815 End Time: LW206=141630
	Trigger Report	Start Date: specified address, word length is 2, input year and date in this address. Start Time: specified address +2, word length is 2, input time (hour, minute and minute) in this address. End Date: specified address +4, word length is 2, input year and date in this address. End Time: specified address +6, word length is 2, input time (hour, minute and second) in this address. Take the following picture for example, the specified address is LW200, and user wants to query the data between 9:30:40 14th, Aug, 2012 and 14:16:30 15th, Aug, 2012.

	 So the specified addresses are as follows: Start Date: LW200=20120814 Start Time: LW202=93040 End Date: LW204=20120815 End Time: LW206=141630
Daily Report	The specified address, word length is 2, and input year and date in this address. Take the following picture for example, the specified address is LW200, and user wants to query the data on 14th, Aug, 2012.  So the specified address is as follows : LW200=20120814
Monthly Report	The specified address, word length is 2, and input year and month in this address. Take the following picture for example, the specified address is LW200, and user wants to query the data in Aug, 2012.  So the specified address is as follows : LW200=201208
Quarterly Report	The specified address, word length is 2, and input year and quarter number in this address. Take the following picture for example, the specified address is LW200, and user wants to query the data of the third quarter 2012.

	 So the specified address is as follows : LW200=201203
Annual Report	The specified address, word length is 2, and input year in this address. Take the following picture for example, the specified address is LW200, and user wants to query the data of 2012.  So the specified address is as follows : LW200=2012
Trig history inquire	When the specified register satisfies the set condition, output report data.
	OFF→ON Only when the specified register changes from OFF to ON, HMI outputs report data.
	ON→OFF Only when the specified register changes from ON to OFF, HMI outputs report data.
	OFF↔ON Only when the specified register changes its status, HMI outputs report data.
	OFF→ON(reset)) Only when the specified register changes from OFF to ON, HMI outputs report data, and then reset the specified register automatically.
	ON→OFF(Reset)) Only when the specified register changes from ON to OFF, HMI outputs report data, and then reset the specified register automatically.

Data Report Channel

Detail Description of Data Report Channel		
Data Logger	Click this button to pop up Data Logger library.	
Data Report Channel List	Click this button pop up the dialog box to choose channels.	
	Data Sample List	Display all the sampling data in the Data Logger library.
	Data Sample Channel	Display all channel information of one sampling data.
	The data-report channel list	Display the selected channels of current report.
Data report channel.	Set the title, integer and decimal of report channel.	

Data report display attribute

Details of Data report display attributes		
Serial number	Display the serial number of sampling data or not.	
Display time	If checked, report displays the sampling time, and chooses the time format and separator. There are three formats optional, HH means hour, MM means minute, SS means second, MS means millisecond.	
Back color	Set the background color and title bar color.	
Display date	Date Format	Display sampling date, and choose the date format, there are three formats optional, YY means year, MM means month and DD means day.
	Separator	Select the date separator, three formats are optional, for example 12/07/19.
Separator border settings	Set the color, type and width of separating line, and set the width of each row and column, the unit is pixel If the Horizontal Line is checked, report displays horizontal separator, if the Vertical Line is checked, report displays vertical separator,	
Title bar settings	Set the display name and font of title bar.	

Data Report Control

Details of Data Report Control attributes		
Pause Address	In real-time report mode, use a bit register to pause data sampling, ON means pause, OFF means outputting data.	
Data clear address	In real-time report mode, use a bit register to clear the sampling data in Data Report Display.	
	OFF→ON	Only when the specified register changes from OFF to ON, HMI clears the sampling data in Data Report Display.
	ON→OFF	Only when the specified register changes from ON to OFF, HMI clears the sampling data in Data Report Display.
	OFF↔ON	Only when the specified register changes its status, HMI clears the sampling data in Data Report Display.
	OFF→ON(Reset)	Only when the specified register changes from OFF to ON, HMI clears the sampling data in Data Report Display, and then reset the specified register automatically.
	ON→OFF(Reset)	Only when the specified register changes from ON to OFF, HMI clears the sampling data in Data Report Display., and then reset the specified register automatically.
Sample Data Export	Export Dir	The subroutine name of the exported sample data file in the external memory device, the default name is ReportToCSV, user can modify it himself and the detail routine in external memory device is :\\external memory device\\export\\Export Dir, the file name is named according to the

	saving time: year-month-day, hour: minute: second: millisecond, for example 20120903-110552.csv File format: csv.	
Save Disk	Save the exported data to the external memory device: SD card, USB1 or USB2 .	
Export data Trigger Param.	When the specified register satisfies the set condition, HMI exports data.	
	OFF→ON	Only when the specified register changes from OFF to ON, HMI exports report data.
	ON→OFF	Only when the specified register changes from ON to OFF, HMI exports report data.
	OFF↔ON	Only when the specified register changes its status, HMI exports report data.
	OFF→ON (reset)	Only when the specified register changes from OFF to ON, HMI exports report data, and then reset the specified register automatically.
	ON→OFF (Reset)	Only when the specified register changes from ON to OFF, HMI exports report data, and then reset the specified register automatically.



1. Do not put multiple free reports in a same window, it will affect the communicate speed.
2. Do not add too many data channels in a signal Free Report.
3. If there are multiple free reports or multiple channels report in a same window, please use the minute or hour as Time Interval.
4. If you want to plug off the external memory device when HMI is in operation, we suggest using the safe mode, but not plug it off directly. Safe Mode: set the LB9153 (SD card), LB9154 (USB1), LB9155 (USB2) OFF first, then plug of the corresponding memory device.
5. When you download the project again, check the Clear data report option in KHDownload, or the residual information may cause the data error for the new sampling data.

Take the MT4522T for example, suppose the sampling address is Dword0, three channels' data, and the sampling data is stored in SD card, user can query the data in any time interval.

① Build a new project, and add a Data Logger, the parameters are as follows:

Data Sample HMI	HMI0	
Sample Point	10	
Sample Type	Circling Sample	
Get Data Type	Sample Continue	
Channel	3	
Sample Circle	10	
Sample channel	Data Type	16-bit signed/32-bit signed/float
	Description	Channel 0/Channel 1/Channel 2
Data Sample Control		
Sample Address	D0	
Sample Data	Save Disk	SD Card

Save	Save Dir	SampleDataStore
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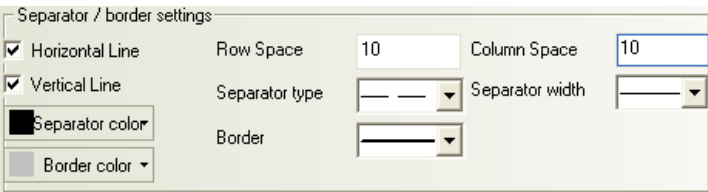
② Build a Data Report in Frame0 to display data in the Data Logger , the attributes setting is as follows :

Data report attribute	Report mode	History
	Report type	Trig type
	Disp.type	By order
	Get value type	InstantaneousValue
	Empty data process	0
History inquire address	LW0	
Trig history inquire	LB0, Trigger type: OFF>>ON, Reset	

Data report channel:

The data-report channel list	Add channel 0 and chann2 to this list			
Data report Channel	Integer	4	Decimal	2

Data report display attribute

Serial Number	Checked
Display time	Checked, the format is HH:MM:SS
Back color	Back:  (light yellow); title:  (light blue)
Display date	Date format: YY*MM*DD; separator: /
Separator/border setting	
Title Bar Setting	Default setting.

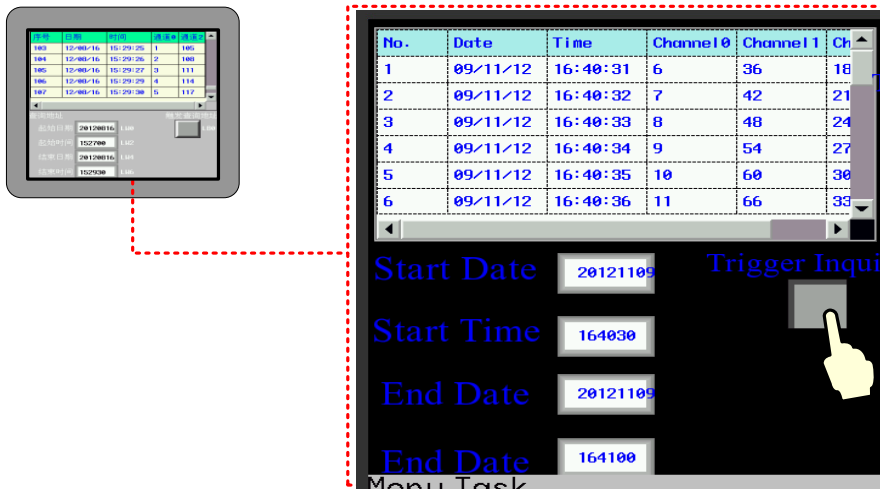
③ Put 4 Number Input components and a Bit State Switch in frame0:

Start Date	LW0, DWORD
Start Time	LW2, DWORD
End Date	LW4, DWORD
End Time	LW6, DWORD
Inquire Trigger	LB0; Switch Type: toggle.

④ Put 3 Timer components in frame0 to simulate the change of D_Word registers, the attributes setting are as follows:

Mode	Periodical Jog++(circle)
Data Type	Word
Asc Value	1/6/3
Upper	100/150/200
Addr.Type	D_word
Address	0/1/3
Value Type	Unsigned Int (word length 1)/Signed Int (word length 2)/float (word length 2)
Timer	Trigger mode: All time, Execution Cycle:10

After a period of time, suppose the HMI system time is 2012/11/09, 16:50:00, we want to query the data between 16:40:30 and 16:41:00, the operation is as follows.

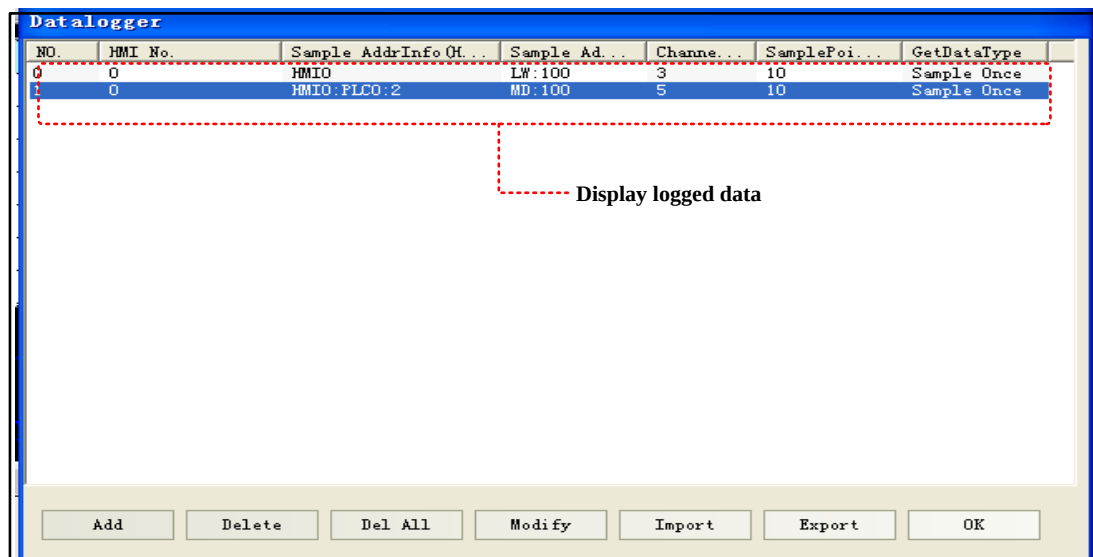


1.4 Data Logger



Data Logger is used to sample data and set sampling method, these data can be displayed on Data Report component.

●Interface of Data Logger



1. **Import:** Import the data sampling information in CSV file format to the Data Logger
2. **Export:** Export all logged in sampling data to a CSV file; this file is editable by Microsoft EXCEL.

● Data Logger Attributes

Click the **Add** to open the Data Logger attributes dialog window, the detail attributes are as follows:

Data sampling properties

Detail Description of Data sampling properties.		
Sample Point	The total sample point number, it ranges from 1~999999	
Sample Type	Circle Sampling	Sample the data periodically.
	Trigger Sampling	Trigger sampling when the specified register satisfies the condition.
Get Datatype	Sample Continue	The sampling continues even if all the sampling points are finished.
	Sample Once	The sampling stops when all the sampling points are finished, that is to say , the sampling is executed only once.
Channel	The continuous sampling registers number, 16 channels at most.	
Circle Sample Param	It is invalid if the Sampling Type is Circle Sampling.	
	Sample Circle	The time interval between each two sampling points, the unit is millisecond.
	Viable Circle	Read sample circle from specified register in circle sampling.
Trigger Type	It is invalid if the Sampling Type is Trigger Sampling.	
	OFF→ON	Only when the specified register changes from OFF to ON, HMI triggers the sampling..
	ON→OFF	Only when the specified register changes from ON to OFF, HMI triggers the sampling..
	OFF↔ON	Only when the specified register changes its status, HMI triggers the sampling..
	OFF→ON(reset)	Only when the specified register changes from OFF to ON, HMI triggers the sampling, and then reset the specified register automatically.
	ON→OFF(Reset)	Only when the specified register changes from ON to OFF, HMI triggers the sampling, and then reset the specified register automatically.
Sample Channel	Data Type	Set the display data format for the sampling data, there are six formats , they are 16-bit signed, 16-bit unsigned, 32-bit signed, 32-bit unsigned, float, and double.
	Description	Set the description name for the channel



If the Variable Circle is checked, the variable value is used preferentially, if the variable value cannot be get because of communication lost , HMI uses the default value(the Sample Circle) .

Data Sample Control

Detail Description of Data Sample Control	
Sample Address	Set the start address of sampling data, the word length depends on the channel and data type. Take the following picture for example: there are 4 channels, their data types are 16-bit

signed, 32-bit signed, float and double. So the word length is 9, because the 16-bit signed is one word, 32-bit signed is two words; float is two words and double is 4 words.

Sample channel		
No.	Datatype	Description
0	16-bit signed	Channel0
1	32-bit signed	Channel1
2	float	Channel2
3	double	Channel3

Sample Data Save	Save Disk	The external memory device of HMI, the SD Card, USB1 and USB2 are optional.
	Save Dir	The subdirectory where sampling data is saved in the external memory device. The default name is SampleDataStore, customers can change this name themselves, and the detail route of this file is \external device\database\subdirectory name\export file name.db. The file format is .db.
	Variable Dir	The subdirectory name is read from specified register, the max word length is 16.
Sample Data Clear	Use a bit register to clear the sample data and delete the file in the database.	
	OFF→ON	Only when the specified register changes from OFF to ON, HMI clears the sample data.
	ON→OFF	Only when the specified register changes from ON to OFF, HMI clears the sample data.
	OFF↔ON	Only when the specified register changes its status, HMI clears the sample data.
	OFF→ON(reset)	Only when the specified register changes from OFF to ON, HMI clears the sample data. and then reset the specified register automatically.
	ON→OFF(Reset)	Only when the specified register changes from ON to OFF, HMI clears the sample data., and then reset the specified register automatically.
Pause Sample	Use a specified bit register to pause the sampling, ON means HMI stops sampling and OFF means HMI starts sampling. Note: In Sample Once mode, this register will be set ON automatically when the sampling is finished, user can set this register OFF to trigger the sampling again.	

2 Components Improvement

2.1 Add Txtlib Type Lib to Components, like the Title Bar Setting of Operation Log, Historical Event Display and User Info Display

In Kinco HMIware V2.0, user can use the text library in the tile bar text. User defines the tile bar text and language in the text library, and chose the Use Lib in the Title Bar Setting. If these components use Txtlib Type in Title Bar Setting, when user uses system register LW9130 to switch the language, the text of the

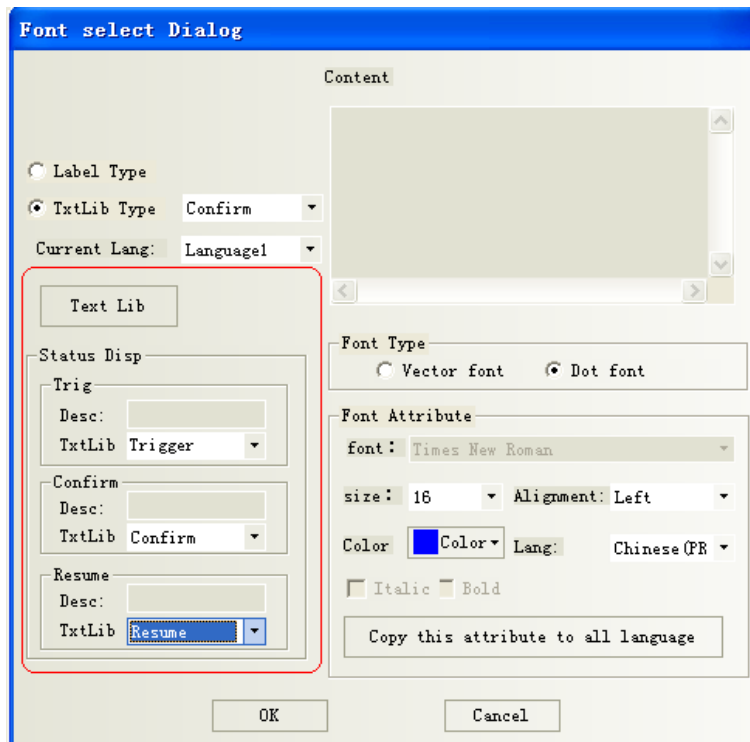
序号	日期	时间	用户名	日志
2	12/08/15	10:12		S B (O F F)
1	12/08/15	10:12		S B (O N)
0	12/08/15	10:10	A d m i n i s t	L o g i n

序号	日期	时间	状态	内容
2	12/09/28	12:12	恢复	水温过高!
1	12/09/28	12:12	触发	水温过高!
0	12/09/28	11:13	触发	水温过高!

序号	用户名	权限	注
0	Administrator	11000000000000000000000000000000	10
1	Guest	10000000000000000000000000000000	10



1. In Historical Event Display component, for the Status column, if the Column Font Setting uses Label Type, both the status title and status constant use label type; if the Column Font Setting uses Tetlib Type, both the status title and status constant use Tetlib Type, so user needs to set text library for trigger, confirm and resume separately.

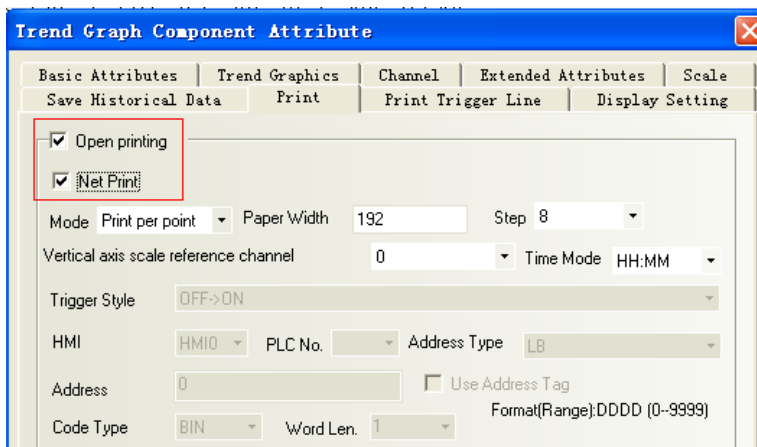


2. In Operation Log, Historical Event Display and User Info components , only the English word and Number support the vector font in title bar font , the Chinese character does not support.

2.2 Trend Curve

2.2.1 Real-time network printing function.

Add the network printing function to the Trend Curve component: check the Net Print option in the Trend Curve Attribute, choose a mode, then download program to HMI, and connect the remote printer via NetPrint software.





If the NetPrint is checked, the local printing is invalid. Even if the local printer is connected to HMI, the HMI still cannot print via local printer.

For example, use network printer to print real-time trend curve.

Preparing before network printing: a PC, a HMI with Ethernet port, a printer that can connect to PC directly.

In this example, we use HP LaserJet P2014, HMI model is MT5320T.

- 1) Install the printer driver on PC .In the Printer and Fax of Control Board of your Windows, find the network printer , right click it and set it as the default printer



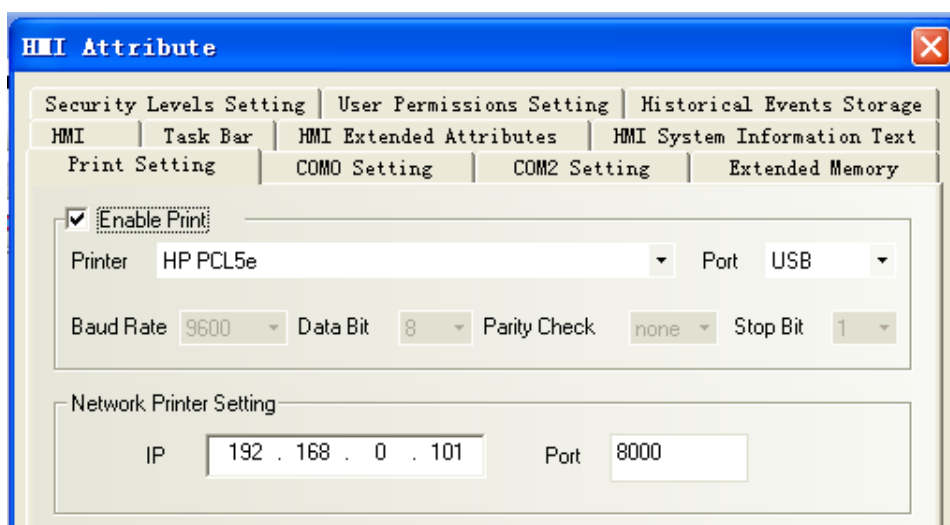
- 2) Run the print program Netprint.exe on PC.

The NetPrint.exe is in the HMIware installation file folder, its default route is C:\Program Files\Kinco\HMIWare

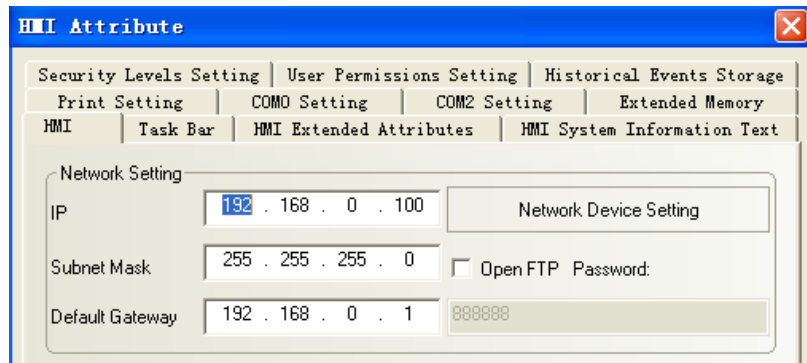


The NetPrint.exe should be in run state when printer is printing, and it will be minimized in the task bar ,

- 3) In the Print Setting of HMI Attributes, set the IP address of PC.

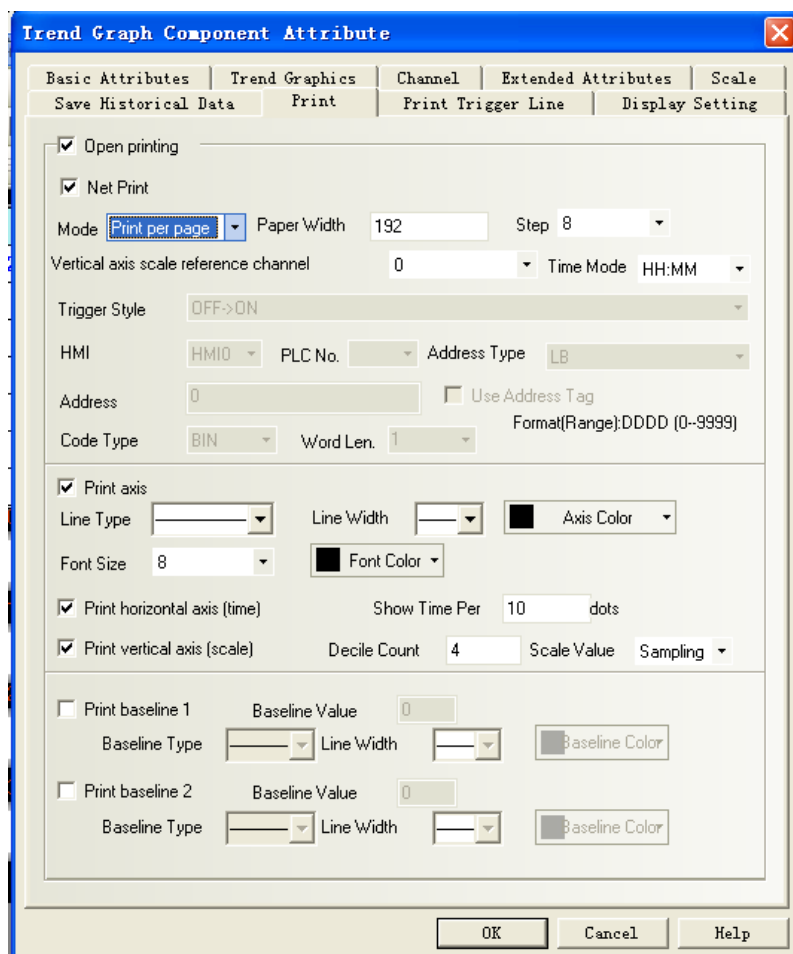


- 4) In the HMI option of HMI Attributes, set the HMI IP address.



5) Enable the network printing function of component

Put a trend curve component on frame0, check the Net Print in Print of Trend Curve Attribute, and choose the Print per page mode



6) Wiring

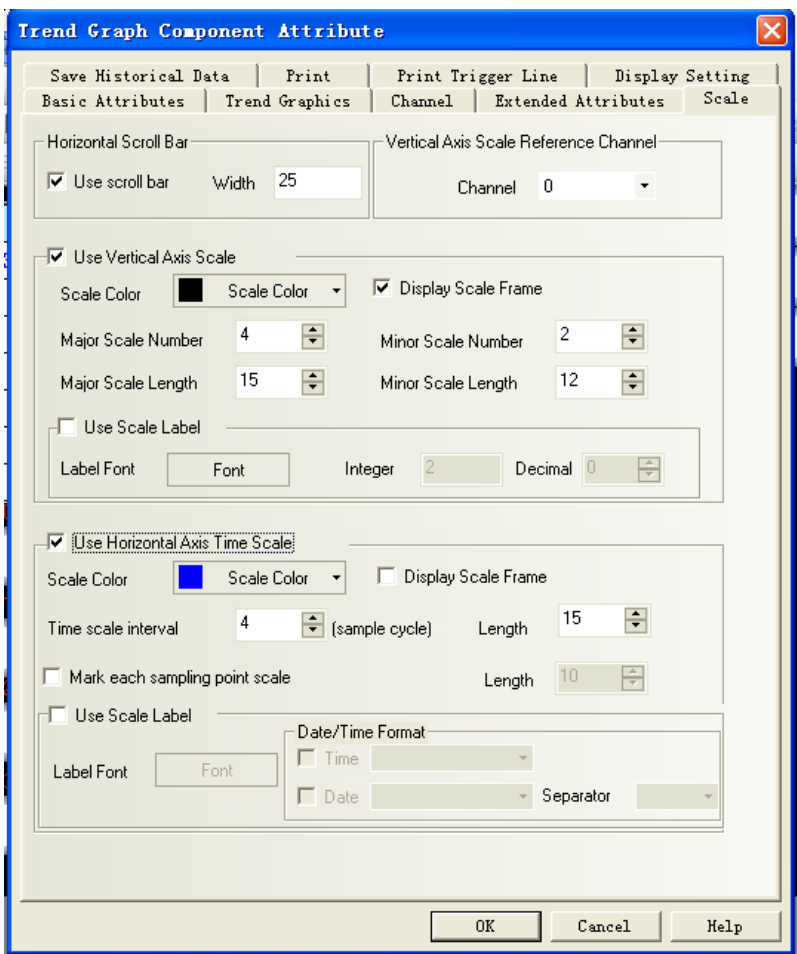
Connect HMI to the local area network (LAN) via cross or direct RJ45 cable.

7) Set the printing attributes

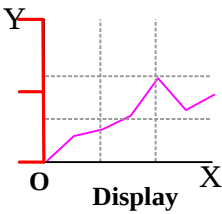
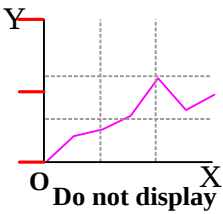
Click the netprint.exe icon in the task bar, and then set the printing.

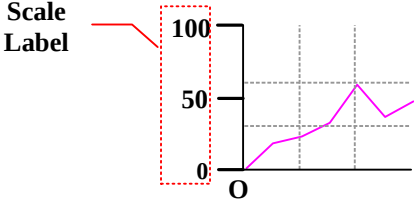
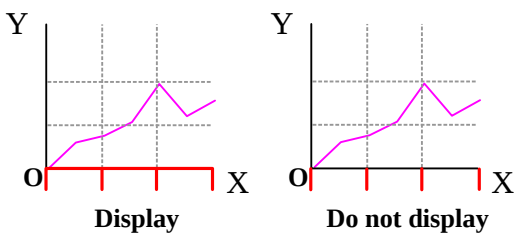
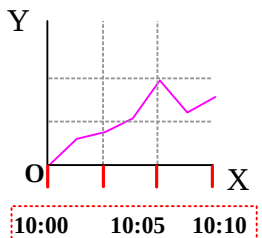
8) Print the trend curve after one page sampling points are finished

2.2.2 Vertical Axis Scale, Time Scale and Horizontal Scroll Bar.



Detail information of vertical axis scale, time scale and horizontal scroll bar in Trend Curve:

Description of Scale attributes		
Use Scroll Bar	The trend curve uses the system scroll bar, user can set the scroll bar width, the width range is 20~120, units is pixels.	
Use Vertical Axis Scale	The trend curve uses the system vertical axis scale.	
	Scale color	Set the color of vertical color.
	Display Scale Frame	Display the scale frame or not.  Display  Do not display
	Major Scale Number	Set the major scale number.
	Major Scale Length	Set the major scale length, the unit is pixels.
	Minor Scale Number	Set the minor scale number.
	Minor Scale Length	Set the minor scale length, the unit is pixels.

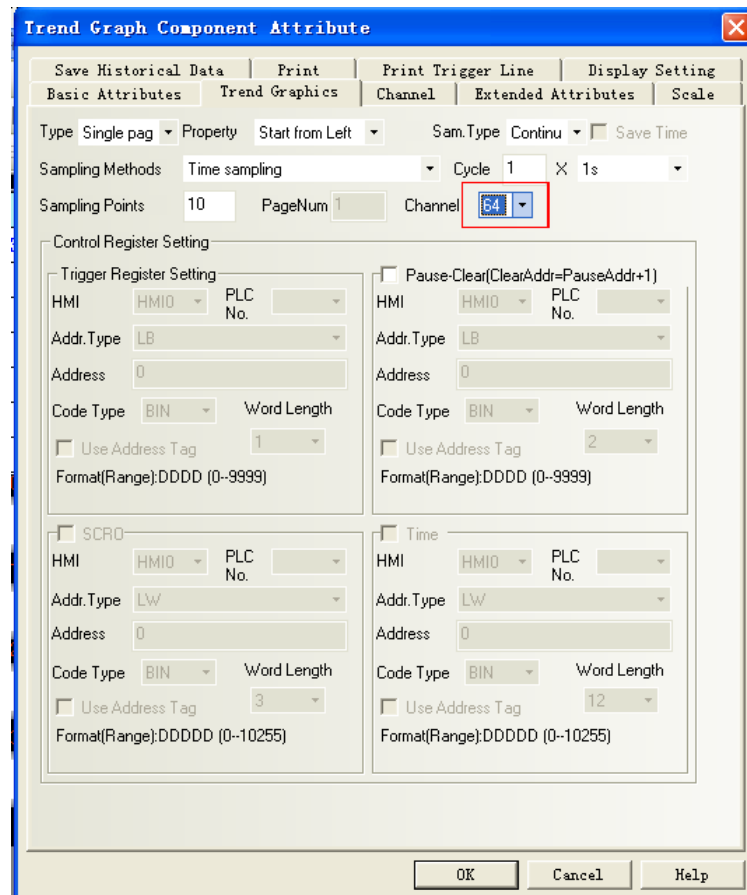
Use Scale Label		
	Label Font	Set the label font
	Integer	The integer number of scale (User cannot adjust it).
	Decimal	The decimal number of scale (User cannot adjust it).
Use Horizontal Axis Time Scale	Trend Curve displays the horizontal scale.	
	Scale Color	Set the vertical scale color.
	Display Scale Frame	Display the scale frame or not. 
	Time scale interval	The time interval between two time scale point, the unit is sampling circle, for example, if the Time scale interval is 3, the time interval between two scale point is three sampling circles' time. So the displayed scale number depends on the sampling points number and time scale interval.
	Length	Set the length of time scale, the unit is pixel.
	Mark each sampling point scale	Mark a scale on each sampling point
Use Scale Label		
	Label Font	Set the scale label font
	Time	Display and set the time format, there are three formats: HH:MM:SS、HH:MM、HH:MM:SS:MS
	Date	Display and set the date format, there are three formats: DD*MM*YY、MM*DD*YY、YY*MM*DD. Separator: /_ —_ .
Vertical Axis Scale Reference Channel	Channel	The max/min of vertical axis is based on the max/min of specified channel.



If the Use scroll bar in Scale option is checked, please do not choose the “SCRO” function in the Trend Graphics

2.2.3 More Channels

In the Kinco HMIware the max channel number of Trend Curve is 64 V2.0, which is 16 in the old version.



2.3 Event Display Component

2.3.1 Background Setting

In Kinco HMIware V2.0, add background setting function to the Event Display component.

Event Display Component Attribute

Basic Attributes | Event Information | Display Setting

Display Type Range: To Sequence No. Length:

Row Space: CharacterSpace:

Acknowledge Type: Format:

Border Width:

☒ Background Color

Separator Setting

☒ Horizontal Line ☒ Vertical Line

Style:

Width:

Separator Color:

☐ Clear Event One By One

Trigger Type:

Trigger Address

HMI: PLC No.:

Addr. Type:

Address:

Code Type: Word Length:

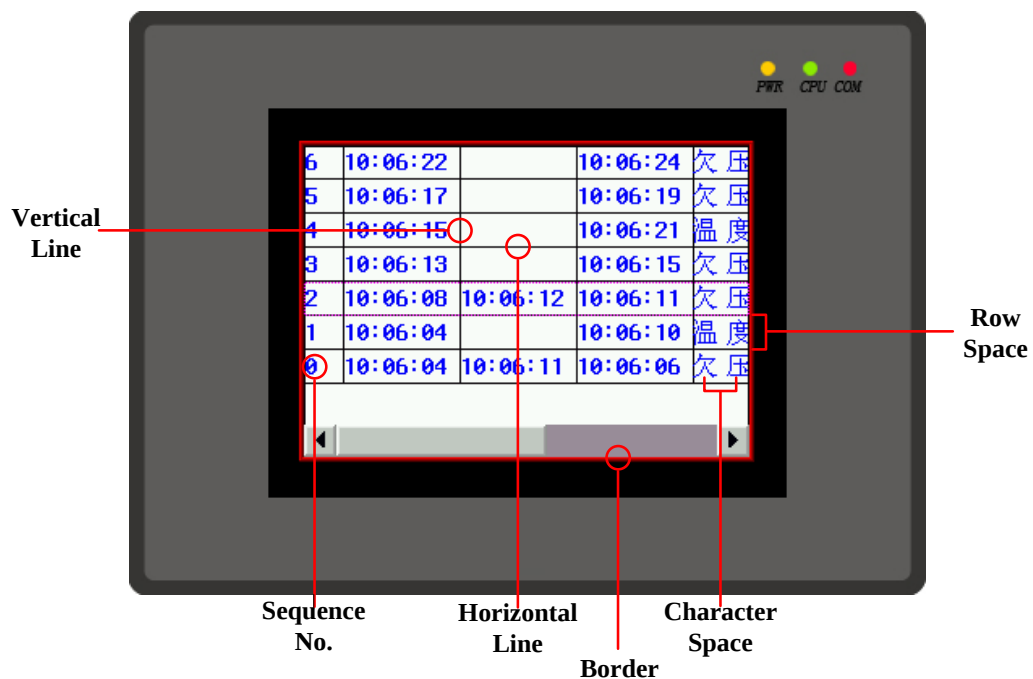
☐ Use Address Tag

Format(Range):DDDD (0-9999)

☐ Sequence No.
☐ Event Trig Time
☐ Acknowledge Time
☐ Return to Normal Time
☐ Extended Time Format(D/H:M)
☒ Short Time Format(H:M)
☐ Standard Time Format(H:M:S)
☐ Precise Time Format(H:M:S:MS)
☐ Extended Date Format(Y/M/D)
☐ Event Trig Date(M/D)
☐ Time ascending Order Display
☐ Only show the Event which doesn't recover

OK Cancel Help

Attributes description of Event Display component.



Sequence No. Length	The length of sequence No. the default is 3. For example: when the sequence No. is from 1~999, the length is 3, when the sequence No. changes from 999 to 1000, the sequence No. length is 4, and when the sequence No. changes from 9999 to 10000, the sequence No. length is 5, and so on.
Border Color/Border Width	Set the border color and width(the border width ranges from 0 to 8, 0 mean not border)
Background Color	Check the Background Color to set a color for grid.
Horizontal Line/Vertical Line	Display the horizontal line and vertical line.
Style/Width/Color/线型/宽度	Set the Style/Width/Color/ of horizontal line and vertical line.

2.3.2 Clear Event One by One

Check the Clear Event One by One in the Event Information of Event Display component, and use a bit register to clear the event one by one, there are 5 trigger types.

Event Display Component Attribute

Basic Attributes | **Event Information** | Display Setting

Display Type Range: 0 To 1 Sequence No. Length: 3

Row Space: 5 CharacterSpace: 5

Acknowledge Type: Click Format:

Border Color: [Cyan] Acknowledge Color: [Green]

Border Width: 3 Back to Normal Color: [Blue]

Select Area Color: [Red]

☒ Background Color Background Color: [Yellow]

Separator Setting:

☒ Horizontal Line ☒ Vertical Line

Style: [Dropdown] Width: [Dropdown]

Separator Color: [Black]

☒ **Clear Event One By One**

Trigger Type: OFF->ON

Trigger Address:

HMI: HMI0 PLC No.: [Dropdown]

Addr. Type: LB

Address: 0

Code Type: BIN Word Length: 1

☐ Use Address Tag

Format(Range):DDDD (0-9999)

Display Setting:

- ☐ Sequence No.
- ☐ Event Trig Time
- ☐ Acknowledge Time
- ☐ Return to Normal Time
- ☐ Extended Time Format(D/H:M)
- ☒ Short Time Format(H:M)
- ☐ Standard Time Format(H:M:S)
- ☐ Precise Time Format(H:M:S:MS)
- ☐ Extended Date Format(Y/M/D)
- ☐ Event Trig Date(M/D)
- ☐ Time ascending Order Display
- ☐ Only show the Event which doesn't recover

OK Cancel Help

Choose a event in the Event Display component, when the specified register satisfies the trigger condition, this event will be cleared.

2.3.3 Historical Event Storage supports variable sub director

When then historical event is stored in the external memory device, the subdirectory can be read from variable registers, the max word length is 16

HMI Attribute

Print Setting | COMO Setting | COM2 Setting | Extended Memory
HMI | Task Bar | HMI Extended Attributes | HMI System Information Text
Security Levels Setting | User Permissions Setting | **Historical Events Storage**

☐ Save to Recipe Data Field

Save Count: 0
Start Addr.: 0
End Addr.: 0
Addr.Format: DDDDDD
Event Length: 16 Words
Note: the data which saved to recipe data field are effectively only to event display elements

☒ Save to External Device

Storage Devices: USB DISK1
☐ Outage Keepin
☒ Export to CSV File ☐ Save MS
Subdirectory: Event
Storage Type: Daily File
Bulk Storage: Default
Max Storage: 0 Days
Note: there is no limit when The max storage is zero.

☒ Variable name of the subdirectory

HMI: HMI0 PLC No.:
Addr. Type: LW Addr.: 0
Code Type: BIN ☐ Use Address Tag
Word Length: 8
Format(Range): DDDDD (0-10255)

OK Cancel Help

2.4 Historical Data Display

2.4.1 The storage subdirectory of historical data can be read from variable registers, the max word length is 16

Historical Data Display Component Attribute

Basic Attributes | Display Properties | Background Attribute | Channel Properties
Save Historical Data | Background Print | Title Bar Properties | Display Setting

☐ Save to Recipe Data Field

Start Addr. 0
End Addr. 0
Addr. Format DDDDDD

☐ Save as CSV

External Device: SD Card
Subdirectory: HistoryDataToCSV

Trigger para

HMI HMI0 PLC No.
Addr. Type LB
Address 0
Code Type BIN Word Length 1
☐ Use Address Tag
Format(Range): DDDD (0-9999)
Trigger Style OFF->ON
☐ Ascending Order

☒ Save to External Device

Storage Devices SD Card
☒ Outage Keepin ☐ Data Encryptio
☒ Export to CSV File ☐ Save MS

Subdirectory HistroyData
Storage Type Daily File
Bulk Storage Default
Max Storage 0 Days

Note:
1 There is no limit when the max storage is zero.
2 Subdirectory name must be unique

☒ Variable Subdirectory:

HMI HMI0 PLC
Addr. Type LW Address 0
Code Type BIN ☐ Use Addr. Tag
Word Length 8
Format(Range): DDDDD (0-10255)

OK Cancel Help

2.4.2 Print function in the Historical Data Display component

The Historical Data Display component supports background data print function.

Historical Data Display Component Attribute

Basic Attributes | Display Properties | Background Attribute | Channel Properties
 Save Historical Data | Background Print | Title Bar Properties | Display Setting

☒ Use Background Data Print

Print Type
☐ Real-time ☐ Batch Point ☒ Trig ☒ Net Print

Print Content
☐ Print Serial Number ☐ Print Table Header ☐ Print Grid
☐ Print Date Date Format Date Separator
☐ Print Time Time Format

Trigger Print Address
 HMI PLC No.
 Addr. Type
 Address
 Code Type Word Length
☐ Use Address Tag
 Format(Range): DDD (0--9999)
 Trigger Type

Grid
 Line Type
 Line Width

Name	Title Display...	The column ...
Channel0	Channel0	Set Fonts

OK Cancel Help

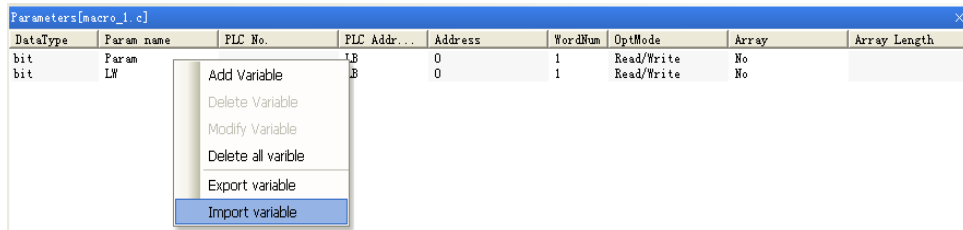
Description of Background Data Print		
Use Background Data Print	Enable the background data print	
Print Type	Real-time	Print every sampling data in real-time.
	Batch	Trigger printing when the sampling point number equals the set value.
	Point	Set the sampling points number in batch printing
	Trig	Trigger printing when the specified register satisfies the set condition.
Net Print	Enable the Net Print, download the program to HMI, and then run the Net Print.exe to connect the network printer to print historical data. Note: If the Net Print is checked, the local printing is invalid. Even if the local printer is connected to HMI, the HMI still cannot print via local printer.	
Print Content	Print Serial Number	Print serial number of each sampling point.
	Print Table Header	Print the table header of Historical Data Display component.
	Print Grid	Print the grid ground of Historical Data Display component.
	Print Date	Print date of each sampling data, and select the date format and separator. There are three date format and separator, YY means year , MM means month, DD means day.
	Print Time	Print time of each sampling data, and select the time format and separator. There are three date formats and separators, HH means



The default name of export csv file is MacroAddList, user can modify it when saving.

- Import Variable

Right click in the parameters window, and then choose the Import variable.



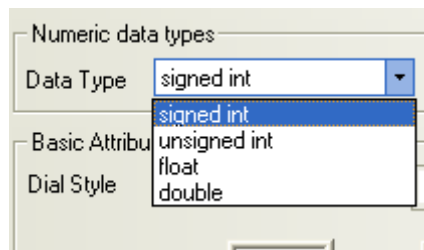
Then choose the csv file in your PC, click Ok to finish importing.



When you use Excel to edit the csv file, the table header ParamName~StationNumID are fixed formwork, if user changes them, it may cause problem when importing the csv file to macro.

2.6 Add data type in the Multiple States Setting, Timer, Combination, Meter and Bar Picture.

Multiple States Setting, Timer, Combination, Meter and Bar Picture support signed integer, unsigned integer, float and double,



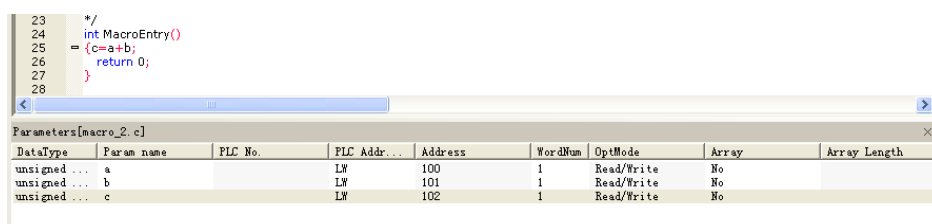
Note the input range of different data types.

2.7 PLC Control

Add the word register to trigger macro, when value in the specified register changes, the macro will be triggered.

For example, use a word register to trigger macro in the PLC Control.

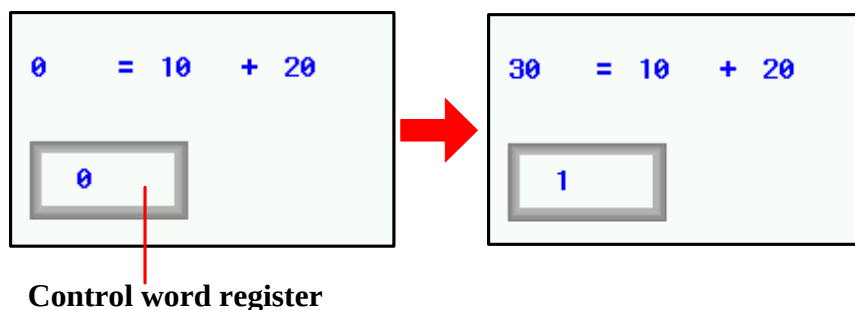
1. Build a macro named macro_0.c, and write the following macro code.



2. Set the Execute Method: Word Register Value Changed.PLC

The screenshot shows the 'PLC Control' dialog box. The 'Execute Method' dropdown is highlighted with a red box and contains the text 'Word register value changed'. Other settings include: HMI: HMIO, PLC No.: , Addr. Type: LW, Address: 0, Code Type: BIN, Format (Range): DDDDD (0--10255), Word Length: 1, Use Address Tag: , Control Type: Execute Macro Program, Macro ID: macro_0.c, Current Sound: , Select Sound, Play Sound, Stop Play, Custom Print Options: , Network Printing: , Printer Color: Monochrome, Magnification: 1.0, Print Page: Current Page, Horizontal Print, Change Page To Print, Vertical Print, Automatically Take The Paper: , Print Text: Print Text, Print All Bitmap, Print Meter, Print All The Vector Map, Print Trend Graph, Print Background Colors, Open The Address Tag Library, OK, Cancel.

3. Execution



2.8 Add data type to the Notification function

The detail data types are signed int, unsigned int and float, when the notification is triggered, the value will be written in specified data type.



Note the ranges of different data types.

3 New Functions

3.1 The timeout time of KHDownload can be set by user.

In the KHDownload of Kinc HMIware V2.0, there is an option to set the timeout time. This function can improve download timeout error of serial port, USB and Ethernet port.

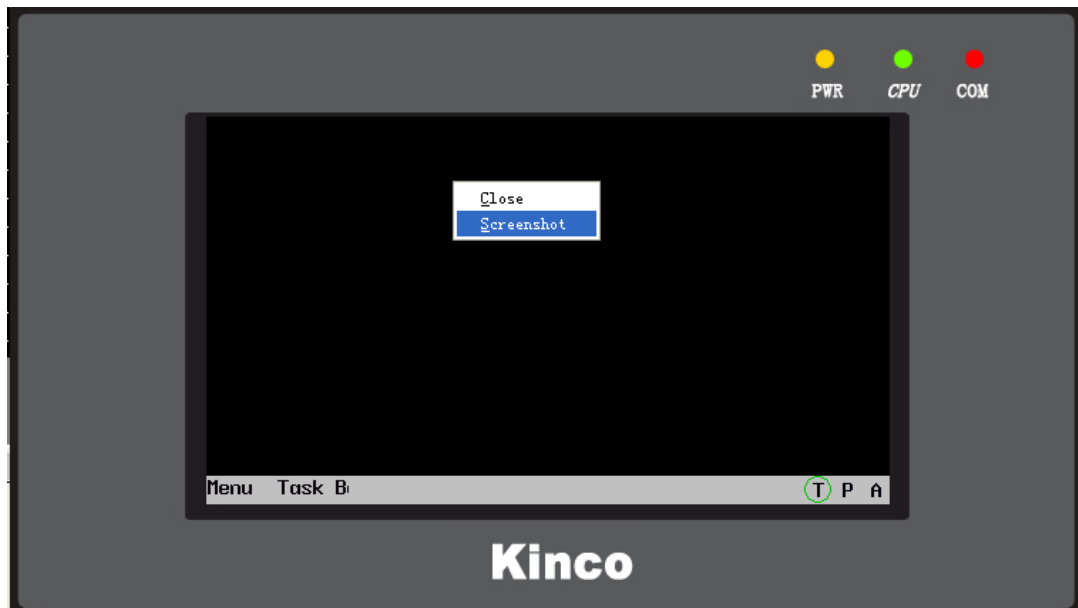
If the Timeout option is checked, user can set the timeout time of download , the unit is millisecond, and it ranges from 0~65535.

3.2 The screenshots of simulation mode can be saved.

In the Kinco HMIware V2.0, the screenshots of offline, indirect online and direct online simulation can be saved as bmp picture.

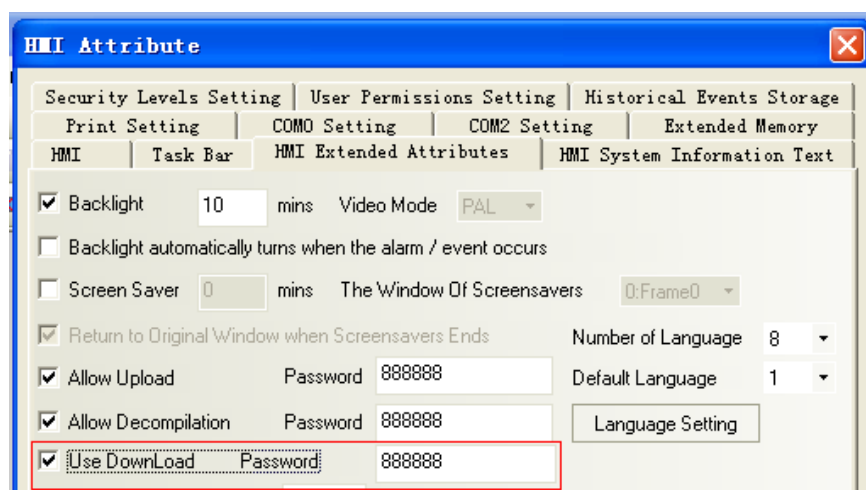
Take the offline simulation for example:

Right click the screen in offline mode, choose the “Screenshot” to save the screen in bmp formats picture, the file is saved in the “screenshot” file folder of the Kinco HMIware installation file folder, and it is named after the save time.



3.3 Download Password

Add the download password in the Kinco HMIware V2.0; this function is used to protect the project from being covered by mistake.



- Do not use the download password

The Use Download in the HMI attributes is not checked in default setting, that is to say download password in default setting, user can download the project to HMI directly.

- Use Download password

If the Use Download in the HMI Attributes is checked, the default password is 888888.

If the Use Download in the HMI Attributes is checked, and download this project to HMI, the download password dialog will be popped up in the next time downloading, see as follows:



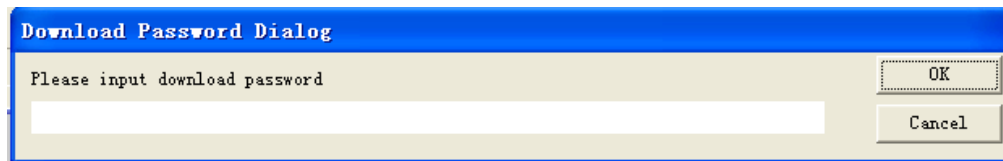
If the password is wrong, there will be a password checksum error dialog box popped out.



If the password is correct, then the program will be downloaded to HMI.



If the Use Download is checked in the program, the following operations need password: download project, download recipe, download FRW, clear recipe data, clear FRW data, clear history record data, clear data report, clear ERW data, clear history event data, write kernel, write rootfs. Only the user input the correct password, they can continue the operations.



Please remember the password set in the HMI, or the operation to the HMI may fail, and the OEM will not provide the universal password.

3.4 Export the recipe data in CSV file.

In the Historical Data Display, Trend Curve, and XY port, the data that saved in the HMI recipe area can be export in csv file.

Basic Attributes	Trend Graphics	Channel	Extended Attributes	Scale
Save Historical Data	Print	Print Trigger Line	Display Setting	
☒ Save to Recipe Data Field ☐ Save to External Device Start Addr. 0 End Addr. 69 Addr. Format DDDDDD ☒ Save as CSV External Device: USB DISK1 Subdirectory: TrendToCSV Trigger para HMI HMIO PLC No. Addr. Type LB Address 0 Code Type BIN Word Length 1 ☐ Use Address Tag Format(Range): DDDD (0-9999) Trigger Style OFF->ON ☐ Ascending Order Storage Devices SD Card ☐ Outage Keepin ☐ Data Encryptio ☐ Export to CSV File ☐ Save MS Subdirectory HistoryTrend Storage Type Daily File Bulk Storage Default Max Storage 0 Days Note: 1 There is no limit when the max storage is zero. 2.Subdirectory name must be unique ☐ Variable Subdirectory HMI HMIO PLC Addr. Type LW Address 0 Code Type BIN ☐ Use Addr. Tag Word Length 8 Format(Range): DDDDD (0-10255)				

Description of detail attributes		
Save as CSV	Export the data that saved in the HMI recipe area to a csv file, the csv file is saved in the route: export/subdirectory/file name, and the file is named after current time ,	
	 20120629-163746.csv Microsoft Office... 1 KB	
External Device	SD card, USB DISK1, USB DISK2.	
Subdirectory	Set the subdirectory name of csv file route, the default subdirectory name is DataToCSVe	
Trigger para	When the specified bit register is triggered, the data will be exported to CSV file.	
Trigger Style	OFF→ON	When the specified bit register changes from OFF to ON, the data will be exported to CSV file.
	ON→OFF	When the specified bit register changes from ON to OFF, the data will be exported to CSV file.
	OFF↔ON	When the specified bit register changes its state, the data will be exported to CSV file.
	OFF→ON, Reset	When the specified bit register changes from OFF to ON, the data will be exported to CSV file. And the register is reset at the same time.
	ON→OFF, Reset	When the specified bit register changes from ON to OFF, the data will be exported to CSV file. And the register is reset at the same time.
Ascending order	The data in csv file is arranged in ascending order, if not checked, the data in csv file is arranged	

in descending order.



The new sampling data will cover the first sampling data if data overflows in the recipe area. That is to say the data in CSV file is the latest data all the time.

3.5 New Special Registers

Add the following special registers in Kinco HMIware V2.0

- Status of external memory devices

Address	Description	Read/Write
LB9220~9222	They indicate SD card, USB1, and USB2. ON means HMI reads external memory device.	Read
LB9230~9232	They indicate SD card, USB1, and USB2. ON means HMI writes external memory device.	Read

- Set the transparency of popped up window.

Address	Description	Read/Write
LW9611	Set the window number popped up window, which needs to change its transparency	Read&Write
LW9612	Set the transparency percentage of popped up window, ranges 0~100%, 0% means completely transparent and 100% means nontransparent.	Read&Write
LB9210	Set it ON to enable the transparency setting	Write



If user sets the transparency in the window attribute, and set the window transparency via special registers too, the window transparency is subject to the transparency in special registers.

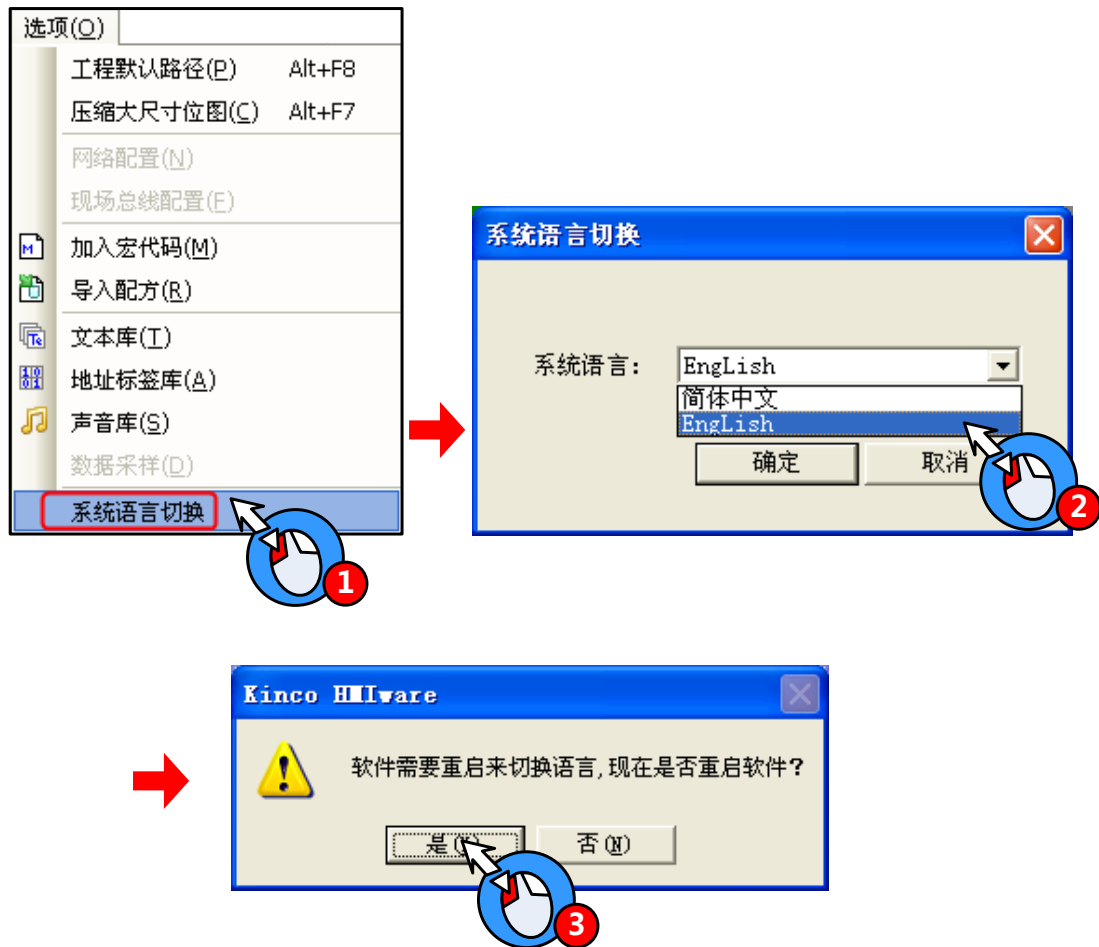
- PrintOut

Address	Description	Read/Write
LB9200	Output a picture: when the LB9200 is set on, the printing content will be saved as a picture.	Read&Write
LW9558	Set the route of target picture: 0-SD card, 1-U disk1, 2-U disk2.	Read&Write
LW9560~9575	Set the file name of the target picture	Read&Write
LB9201	Print the target which needs printing picture when the LB9201 is set ON.	Read&Write
LW9559	Set the route of target picture which needs printing: 0-SD card, 1-U disk1, 2-U disk2	Read&Write
LW9580~9595	Input the file name of the target picture which needs printing	Read&Write
LW9603	The storage address of print order, for example, when the LW9603 is 200, the storage address is LW200.	Read&Write
LW9604	The byte number of printing order, write the printing number to LW(the detail address depends on LW9603) and the order byte number is write to LW9604, when the GUI detects that the LW9604 is larger than 0, the GUI will send printing order to printing port directly, at the same time set the LW9604 to 0 automatically. Note: this function does not support simulation.	Read&Write

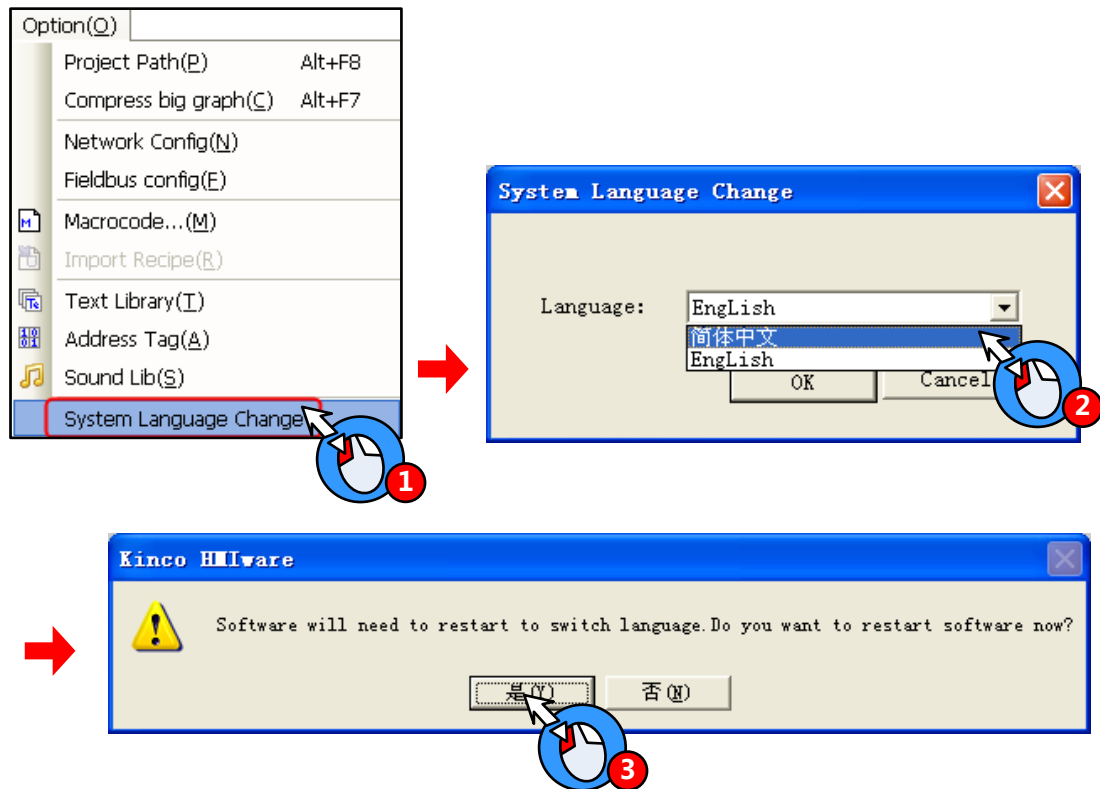
3.6 Multiple Languages switching

Kinco HMIwareV2.0 supports switching multiple languages; user can switch the software language by the **System**

Language Change of Option (O) in the software menu bar. It supports Chinese and English switching at this moment.
Switch the Chinese version to English version.



- Switch the English version to Chinese version



3.7 F1 Help

In Kinco HMIware V2.0, there is a Help option in the component attribute, user can click the Help button or press F1 on the keyboard to pop up the help menu.

Take the Bit State Setting component for example: ,

Bit State Setting Component Attribute

Graphics	Control Setting	Display Setting
Basic Attributes	Bit State Setting	Tag

Priority: Normal

Read Address

HMI: HMIO PLC No.:

Port: None

☐ Change Station Num: 0

Addr. Type: LB

Address: 0 ☐ System Register

Code Type: BIN Word Length: 1

☐ Use Address Tag

☐ Use the index register

Write Address

HMI: HMIO PLC No.:

Port: None

☐ Change Station Num: 0

Addr. Type: LB

Address: 0 ☐ System Register

Code Type: BIN Word Length: 1

Format(Range): DDDD (0-9999)

☐ Use Address Tag

☐ Use the index register

Description:

OK Cancel **Help**

Click the Help button in component attribute; the help file for this component will be popped up. Use can find the help content in the **Catalog**, or search the corresponding help in the **Search** or **Index**

Note: the English help file is under construction.