

# **OP20** Software

User manual

WUXI XINJE ELECTRIC CO., LTD.

Data no. HOC02 20110705 8.0

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# 1 Introduction

# 1-1. Summarization

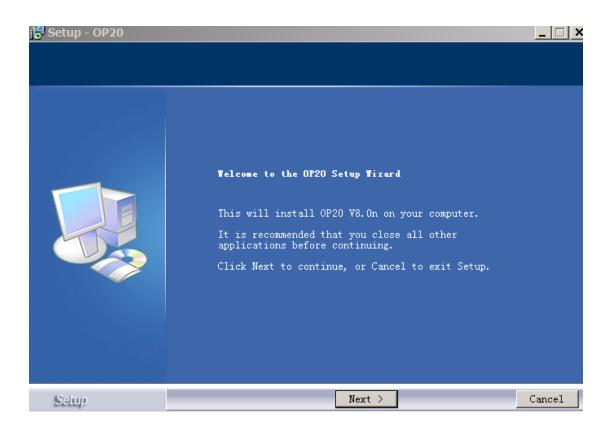
OP20 software is fit for OP operate panel, MP touch panel and XP HMI&PLC controller. The software running OS: Windows98/XP/Win7. The software is fit for the follow models:

es	software is fit for the follow models.		
_	OP	OP320, OP320-S	
		OP320-A, OP320-A-N, OP320-A-S	
		OP325-A, OP325-A-S	
		OP330, OP330-S	
-	MP	MP330, MP330-S	
_		MP325-A, MP325-A-S	
_	XP	XP1-18R\T\RT	
		XP2-18R\T\RT	
		XP3-18R\T\RT	
_		XP3-16R\T\RT	

The software is easy to learn and use. All the parts including lamp, text, buttons, trend map, data settings, etc. can be put into the OP screen. The OP project includes many screens; each screen can switch to another by jump screen button.

# 1-2. Install and uninstall

- 1. Get the OP20 software from www.xinje.com
- 2. OS requirements: Windows98/2000/XP/Win7.
- 3. Installation steps
- (1) Double click "setup.exe" to enter the installation guide.



(2) click next and "accept the agreement". Click next to enter the serial number. Open

🔬 Language	
📄 serial_no	
setup	

"serial\_no.txt" to know the serial number.

🚼 Setup - OP20		
<b>User Information</b> Please enter your info	ormation.	
	User Name: user name Organization: company name Serial Number: ThingetOP20	
Setup	< Back Next > Can	cel

(3) Click next until finish the installation.

**Note:** 1. If there is other version of OP20 in the PC, please choose different installation location. If the two versions are installed at the same location, the software cannot run normally.

2. Higher version of OP20 is compatible with lower version. But lower version isn't compatible with higher version.

4. Uninstall

Double click "Thinget/OP20/unins000.exe" in the installation folder and continue as the uninstall guide.

# 1-3. Using process

The using process of OP20 software:

Open OP20 software  $\rightarrow$  build a new project  $\rightarrow$  choose panel type  $\rightarrow$  choose PLC type  $\rightarrow$  make the screen  $\rightarrow$  save the project  $\rightarrow$  download project  $\rightarrow$  run the OP product

# 2 Edit screen

It will show the follow edit screen after running OP20 software:

💽 OP Series Edit Tool - Untitle		23
File Edit Tool Help		
Screen		
Scree Description	Α	, <b>F</b> <sup>f</sup> F
1		₽ <sup>3</sup> F
		4
	· · · · · · · · · · · · · · · · · ·	<u> 1</u>
		ABC
	Screen Attribute	
	Description:	
	Previous Screen No.: 1 🚖	
	Next Carera Maria	
	Next Screen No.: 2	
New Delete		

- Screen: display the screen no
- > Description: simple description for the screen function
- > New: build a new screen
- Delete: delete the current screen

The buttons in the tool bar:

Button	Function	
	Build a new project	
1	Open a project	
	Save the project	
Ж	Cut the contents in the text	
	Copy the contents in the text	
Control	Paste the contents in the text	
Ţ	Build a new screen	
<b></b>	The attribute of current screen	
1	Copy screen	
X	Delete screen	
Ż	Alarm list, each alarm message is related to an auxiliary relay	
<b>A</b>	The original screen. Press ESC on the panel to return to original screen. It can set	
<b>1</b> 1	the password and interactive register.	

5	Set the general function key. (for MP325/OP330/MP330)
	Download the program into the OP panel

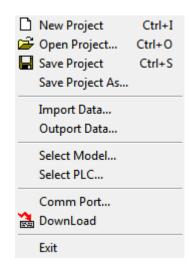
# The buttons on the right side of screen:

Button	Function	
Α	For text input	
ÂA	Dynamic text	
F <sup>f</sup> F	Text, support different fonts	
FF	Dynamic text, support different fonts	
	Set the register data	
٢	Lamp, to display the status of PLC auxiliary relay	
►	Function button. The function includes coil setting, screen jump, data setting	
1	Trend map. To show the trend of parameters	
1	Bar map. To show the flow, pressure, level and so on.	
	Insert bmp file.	
ABC	String. To show the contents in PLC register.	
<mark>18</mark>	Function button for touch operation (only for MP series panel)	

# 3 Menu

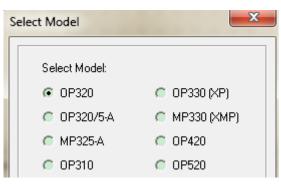
# 3-1. File

File menu:



1. New project

Click Click confile/new project to build a new project. Choose the OP model and PLC model in the list. The PLC will communicate with OP.



Select PLC		×
Select the type	of PLC connected	
PLC Type:	Xinje (XC)	-
Set communica	Xinje (XC) Xinje (FC) Mitsubishi (FX) Koyo (SG)	
ОК	Siemens (S7-200) Omron (CPM/CQM) Omron (CP/CJ/CS) Schneider (Micro/Neza/Twido)	

# 2. Open project

Click 🖻 or File/open to open the project.

## 3. Save project

Click 🖬 or file/save project to save the project. The current file will cover the former one.

4. Save project as...

Save the current file in another location but not cover the former file.

5. Import data... and export data...Protect the program. Please refer to chapter 5.

6. Select model Choose the OP model.

# 7. Select PLC

Choose the PLC model and set the PLC communication parameters.

Select PLC	Set Communication Parameter
Select the type of PLC connected PLC Type: Xinje (XC)	Baud Rate         Data Bits           2400         © 19200           4800         38400           9600         © 115200
Set communication parameter	Parity None Odd © Even
OK Cancel	OK Cancel

# 8. Comm port

Choose the PC COM port to download the program. The default port is COM1. The port range is from COM1 to COM8.

#### 9. Download

Download program from PC to OP panel. Click 🚵 for same function.

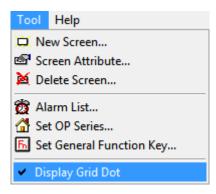
10. Exit Exit OP20 software.

# 3-2. Edit

Cut, Copy, paste and delete are for text operation.



# 3-3. Tool



1. New screen...

Build a new screen.

Note: please see the follow picture, suppose there are two screens in the project. Click screen2 and new button, it will build a new screen3. But click screen1 and new button, it still builds screen2 and the former screen2 will be covered.

OP Series Edit Tool - Untitle	ed 👘 mann tan	
File Edit Tool Help		
	- 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2	
Screen Scree Description 1 2 New Delete	Click screen1, and click new, it will build screen no.2 Click screen2, and click new, it will build screen no.3 Screen Attribute Description: Previous Screen No.: 1  € Next Screen No.: 3  €	

2. Screen attribute...

Add description for each screen.

Previous screen no: press  $[\Lambda]$  button, OP panel will jump to this screen.

Next screen no: press [V] button, OP panel will jump to this screen.

Press [ESC]  $[\Lambda]$  [V] button to switch the OP screen when it is running.

#### Note:

- (1) If  $[\Lambda]$  [V] is set to functional button, they cannot be used to jump screen.
- (2) If the jump screen doesn't exist, it will jump to the next or previous screen.
- (3) If there is data setting button in the screen,  $[\Lambda] [V]$  will be used to jump screen after exiting data setting function.

#### 3. Alarm list

Alarm list can show the alarm message of the machine. Each alarm message is related to an auxiliary relay. The relay address is continuous. The head address of the auxiliary relay can be set by user. OP panel will show the alarm message when the auxiliary relay is ON.

Click 0 button  $\rightarrow$  input the first message  $\rightarrow$  the coil ID will light  $\rightarrow$  set the head address of the auxiliary relay

Alarm List	
Alarm Lis PLC Stat Coil ID:	t Start Coil ID: ion 1 🗢 M 🖵 101 🜩 head address of auxiliary relay
Coil	Alarm Content
<b>M</b> 101	temperature high the first message
M102	overcurrent
M103	left position limit

User can take some action to solve the alarm problem. Press [ESC] to return to monitor screen. **Note:** for software version 8.0h and higher, please press ENT to return to main screen. Press ESC to return to the former screen.

If user wants to see the entire message in the alarm list, please put a function button on the screen, and set as the following picture. So you can press the function button and press UP DOWN button to check the alarm message.

1.0

	<b>.</b>	L ()		
Function Key Attri				
Coordinate X: 84 🗲	Function Key: Home Key	•	🔽 Hand 🔲 Dis	appeai 🥅 Encrypt
Y: 16 🚖	🖱 Set Coil (	Screen Jurr	💙 🦱 Set Data	
Special	Screen			
🔲 Double	Jump To:	C Screen	1 🗢	
🔲 Inverse		Password	Alarm List	

# 4. Set OP series

Click 🖾 button or Tool/set OP series...

Set OP Series	X
OP Series Parameter Master Screen 1	Password: 0
Screen Save:After3minu ▼ ,	<ul> <li>Display Scre</li> <li>Turn Off Back-Light</li> </ul>
Power Beep Exchange Word	
OP Series Control PLC Station 1 🚖 Reg	ister ID: D 🚽 O 🜲
Auto Change Display Sc Control Beeper	( OP <- PLC )
Report Current Screen N	( OP -> PLC )
Peripheral Control	
Module Num:	( OP <-> PLC )
🔲 Use Date/Time Module	( OP -> PLC )

- Master screen: the screen after OP panel electrified. Please choose the main menu or most frequently used screen for master screen. Press ESC button to jump to master screen.
- Password: one project can have one password. For example, when choose encrypt

function of register button *m*, this button can be used after inputting the password.

Password is also applied to function key, jump screen, coil settings and so on.

- Screen save: show certain screen or turn off the backlight if OP panel has no operation for long time. The default backlight time is 3 minutes.
- Power beep: choose this item to decrease the volume of beep.
- Exchange word: exchange the high byte and low byte of register. For example, Schneider PLC have to choose this item, otherwise, double-word displaying will be the messy code.
- Interactive control: generally, switch the screen by pressing the OP button. This item can switch the screen by PLC register. For example, D0=3, OP panel will jump to screen no.3. then D0 will be zero again. If D0≥32768, beep will always tweet.
- Report current screen: save the current screen no. in PLC register.
- Peripheral control/use date time module: OP320 doesn't have this item. This item is to save the OP time in PLC register.

OP Series Control	
PLC Station 1 🚖 🛛 Register ID:	D 🛛 3 🔹
Interactive Control	
🔽 Auto Change Display Sc 🔬 🛛	( OP <- PLC )
Control Beeper	
Report Current Screen N D4	( OP -> PLC )
Peripheral Control	
Analog Input/Output	( OP <-> PLC )
Module Num: 1	\$
☑ Use Date/Time Module i	(OP -> PLC )

For example, set register ID = D3. D5= Year and month, D6=date and hour, D7= minute and second.

Then use a function key to enter the RTC. Click **D**, and set it as the following picture:

Function Key Attribute         Coordinate         X:       64 +         Key:       Left Key         Y:       36 +         Coordinate       Set Coil         Set Coil       Set Data										
Special     Screen       Double     Jump To:     C Screen       Inverse     Password     Alarm List										
20FF FF FF FF FF FF										

If OP shows this screen, it means this OP model doesn't have RTC module. Press SET to set the RTC in the sequence of year/month/date/hour/minute/second. Press ENT to confirm the settings. Please note that don't set the RTC by PLC register.

#### 5. Set general function key

This key can be used for all the screens. Only OP330, MP330 and MP325-A has this key.

Click **b** it will show below window:

Set	Set General Function Key												
	Function	Key:											
	F1	F2	F3	F4	F5	F6	F7	F8					
	Functio	n ot Setted	C Se	t Coil	0 9	Screen Ju	mp 🤇	Set Data	Encrypt				

Function key includes eight keys (F1~F8). Each key has 4 functions(not setted/set coil/screen jump/set data) which can be used together with encrypt function.

If function key is displayed on the screen, it can realize these functions. If not, it is the same to normal keys (UP/DOWN/LEFT...).

After setting the function key, it can be operated in every screen of the OP project.

(1) Set coil

et General	Function	n Key							
Function I	Key:								
F1	F2	F3	F4						
Function	1								
C No	ot Setted	🖲 Se	t Coil	• •	Screen J	ump	🔿 Set [	Data	🔲 Encryp
Coil									
PL	C Station	1 🌲	Coil	ID: M	• 0		-		
G	Force Of	١	Force	OFF	C	Rever	se	Morr	entary ON

- ➢ Force ON Turn ON auxiliary relay after pressing the button
- ➢ Force OFF Turn OFF auxiliary relay after pressing the button
- ➢ Reverse Get the NOT of auxiliary relay after pressing the button
- Momentary Turn ON auxiliary relay when pressing the button, turn OFF the auxiliary relay when releasing the button
   Encrypt: choose this item to protect the button. You can operate the button after inputting the password
  - (2) Screen jump

Set General Fu	nction Key				×
Function Key	:				
F1 F	2 F3	F4			
Function Not S	etted C	Set Coil	Screen Jump	C Set Data	Encrypt
Jump	Гo:	Screen	1 🚖		
		Password	C Alarm List	C Date	/Time

- Screen
- > Password
- Choose the screen no. to jump when pressing the button Jump to the screen of password input when pressing the button
- Alarm list Jump to the screen of alarm list when pressing the button
- ➢ Date/time
- Jump to the screen of date/time when pressing the button Encrypt: choose this item to protect the button. You can operate the button after inputting the password.
  - (3) Set data

Set	General	Function	n Key						×
F	Function	Key:							
	F1	F2	F3	F4					
[	Function	n							
	💭 No	ot Setted	🔘 Se	t Coil	•	Screen Ju	ump (	Set Data	Encrypt
	Regi	ister							
	PL	C Station	1 韋	Register	ID: D	• 0	¢	Register Qty:	1 🚖
	Va	lue:	0	\$					

Set D0 to the value when pressing the button.

Encrypt: choose this item to protect the button. You can operate the button after inputting the password.

Click OK to confirm the settings for general function key. After downloading project to OP panel, press Fn to realize set function.

#### 6. Display grid dot

Display the grid dot in the screen if ticked this item. The OP panel will not display the dot whether tick this item. This item is only effective for the OP20 software.

·	÷	÷	÷	÷	÷		÷				÷			÷	÷	÷	
•	÷	·	·	·	·	÷	·	·	·	·	·	·	·	·	·	·	
•	·	·	·	·	·	·	·	·	·	·	·	·	·	·	·	·	
ŀ	÷	·	·	·	·	÷	·	·	·	·	·	·	·	·	·	·	
·	÷	·	·	·	·	÷	·	·	·	·	·	·	·	·	·	·	

# 3-4. Help

Check the OP20 software version in this item.



# **4** Part

# 4-1. Text and true type text

Click **A** button, it will show a rectangle, put it in the suitable place on the screen. Input words in the message frame.

. . .

-															 								_		
																									-
							-	-	-	-	-	-		-										ÂÀ	FF
	·	·	•	•	•	•	1	L .	ע ב	71	-				·	•	•	•	•	·	·	·		٢	9. s
			•	•	•	•				7 (	•	•	•	•			•	•	•	•	•	•		10000	1
		-							•																
																								₽	
																								Œ	ABC
-															 										
	ext A				-																				
Γ	Coor	rdina	te		[ ]	ext⊤																			
	X:	56	¢	1		Mes	sag	je: <b>(</b>	tex	t	)				 										
	Y:	20	¢	I					-	-															
		<u></u>																							
Г	Spe	cial-																							
		Do	uble	.																					
		Inv	erse	•																					

- > Coordinate Show the coordinate of the text. The original point is the top left corner.
- Special Double: zoom in the text 2-time Inverse: exchange the color of text and background
   Text Message: in the text, support copy, cut, delete
- $\mathbf{F}^{f_{\mathbf{F}}}$  true type text: the text which can change the font.

# 4-2. Dynamic text and dynamic true type text

dynamic text can display different text according to register value. For example: D0=0, it

	Xinje pro	-	A r <sup>f</sup> r AA r <sup>f</sup> r @ % I D L ABC
Dynamic Text Attrit			
Coordinate	Register	Display	
X: 44 🜩	PLC Station 1 🚖	Value Content	<b>^</b>
		0 Xinje products	
Y: 16 🚖	Register ID: D 💌 3 🛛 🜩	1 Xinje PLC	
		2 Xinje OP panel	
Special	Mode: 📧 Decimal	3 Xinje company	
Double	HEX/BCD		

shows Xinje products; D0=1, it shows Xinje PLC; D0=2.....

dynamic true type text: the dynamic text which can change the font.

# 4-3. Function key

Click **D** button to show the function key window:

Func	tion Key Atti	ribute				
Coc	ordinate	Function				
X:	80 🚖	Key: F1 Key	•	🔽 Hand	🔲 Disappear 🕅	Encrypt
Y:	32 🚖	Set Coil	🦱 Screen Jurr	🦱 Set Dat	a	
			<function ke<="" td=""><td>ey&gt;</td><td></td><td></td></function>	ey>		
	œ s	et Coil 🦱 🤅	Screen Jurr 🛛 🤅 S	et Data		
	-Coil PLC :	Station 1 🚖	Coil ID: M 💌 0	\$		
	@ F	orce ON 🦱	Force OFF	Reverse	Momentary ON	

<set coil>

	🥌 Set Coil	Screen Jun	🌀 Set Data	
-	Screen			
	Jump To:	Screen	1 🔹	
		Password	Alarm List	O Date/Time
		<screen j<="" td=""><td>jump&gt;</td><td></td></screen>	jump>	
C	) Set Coil	C Screen Jurr 🤇	Set Data	
Reg	gister			
P	LC Station 1 🚖	Register ID: 🛛 💌	0 ᅌ Reg	ister Qty: 📔 🚖
V	alue: 0	¢		

<set data>

# <function key>

⊳	Key	Choose function key during the buttons	
Hand Add hand beside the key			
$\triangleright$	Disappear	The function key will not display on the screen	
$\triangleright$	Encrypt	The function key will be available after input the correct password	
<se< td=""><td>t coil&gt;</td><td></td></se<>	t coil>		
$\triangleright$	Set coil	Set the auxiliary relay	
	Force ON	Set ON the auxiliary relay	
	Force OFF	Set OFF the auxiliary relay	
	Reverse	Set NOT the auxiliary relay	
	Momentary ON	Set ON the auxiliary relay when pressing the button, set OFF it when releasing	
		the button	
<sc< td=""><td>reen jump&gt;</td><td></td></sc<>	reen jump>		
$\triangleright$	Screen jump	Jump to set screen	
	Screen	The jump screen no.	
	Password	Jump to the password input screen	
Alarm list		Jump to the alarm screen	

# Date/time Jump to RTC screen to set the date and time

# <set data>

> Set data Set value for the register

# 4-4. Display and set the data

Register button can display and set 5-bit data.

· · ·		12								
	ster Attribute									
-Coc		Register								
X:	48 🚖	PLC Stat	ion 1 🖨 Register Qty: 1 🗢 🦳 Limited Upper: 0 🚖							
Y:	20 🚖	Register	ID: D 🗸 O 🗢 🗖 Set 🗖 Encrypt Lower: D 🜩							
Spe		Display								
Г	Double	Digits:	5 🜩 🔽 Pre-'0' Mode: 🕼 Decimal 🦱 HEX/BCD							
Г	Inverse	Decimal	DO 🗲 🗖 Float 🗖 Signed							
⊳	Register ID		PLC register address							
$\triangleright$	Register qty		The register quantity to display. The range is $1 \sim 2$ .							
$\triangleright$	Set		To set the value of register, it can set the data value and upper/lower							
			limit.							
Li	mited (upper/	lower)	Set the upper/lower limit of the value							
Encrypt			Enable to set the value by inputting correct password (see notes1)							
Digits The digits of the value										
Decimal D The digits of decimal										
$\triangleright$	Mode d	ecimal	Display the value in decimal (this mode is recommended for Mitsubishi							
			and Omron PLC)							
	S	Signed	Display the sign of the data (such as -10 or 10), only decimal mode							
			support signed.							
۶	HEX/BCD Display the data in hex									

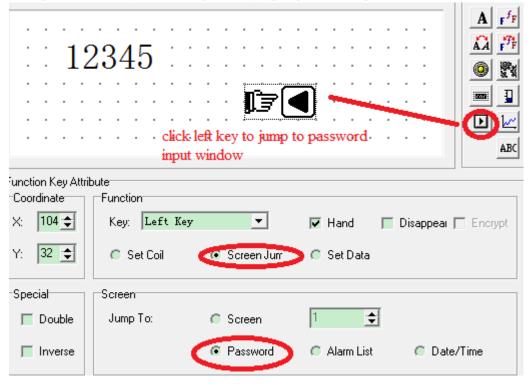
Notes1: How to use the encrypt function of register button?

Choose encrypt means user has to input password to operate the register button. Click Tool/Set OP series:

S	et OP Series	×
	OP Series Parameter	
	Master Screen 👖 🚖	Password: 155678
	Screen Save: After 3 minu 💌 ,	C Display Scre 1 🚖
		Turn Off Back-Light

Set the password as you need (no max limit for the password). This password is for all encrypt buttons. User has to input correct password to operate the encrypt buttons.

Please don't forget to set a jump screen button which can jump to password input window. Example: click left key on the OP panel to jump to password input window:

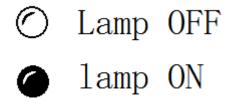


# 4-5. Lamp

lamp button can display the coil status on the screen.

		· · ·	- - - - - - -		C 	2	-	· · ·	-	-	-	-	-	- - - - -	· · ·	- - - - -	- - - - -	_	
X: 72 Y: 8 Special	Y: 8																		

- > PLC station PLC station no. communicating with OP panel
- ➢ Coil ID PLC auxiliary relay address
- > Type The appearance of lamp (circle or square)
- Positive Lamp ON----coil ON, lamp OFF----coil OFF
- ▶ Negative Lamp OFF----coil ON, lamp ON----coil OFF



Application: To control and show status of PLC coil M10.

Please see the settings:

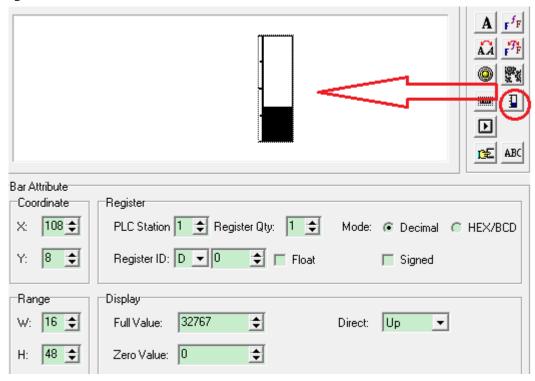
F1 button is used to control the ON/OFF of M10.

Lamp is used to show the status of M10.

	F1 A r <sup>f</sup> r A A A R <sup>f</sup> r A A A R <sup>f</sup> r A A A A A A A A A A A A A A A A A A A
Function Key Attr Coordinate X: 76 🜩 Y: 8 🌩	ibute Function Key F1 Key T Hand Disappear Encrypt Set Coil Screen Jurr Set Data
Special Double	Coil PLC Station 1
Lamp Attribute Coordinate X: 56 🜩 Y: 8 🜩	Coil PLC Station 1 🗢 Coil ID: M 🖵 10 🜩
Special	Display Type: Circle Positive Negative

# 4-6. Bar

Bar is used to show the analog parameters, such as flow, pressure, level and so on. The width, height and direction can be set.



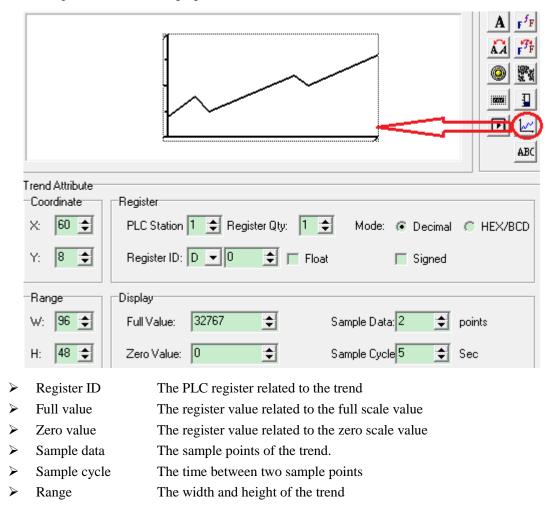
- Register ID PLC register address related to the bar
- > Full value The register value related to the full scale value
- > Zero value The register value related to the zero scale value
- Direct The display direction of bar
- ➢ Range W: width of the bar H:height of the bar

0i]	MPa 100 pressure 0	
Bar Attribute		
Coordinate	Register	
X: 112 🜩	PLC Station 1 🗢 Register Qty: 1 🗢 Mode:	Decimal C HEX/BCD
Y: 8 🚖	Register ID: D 🚽 300 🚖 🥅 Float	📕 Signed
Range	Display	
W: 16 🚖	Full Value: 100 🚖 Direct:	Up 💌
H: 48 🗲	Zero Value: 0	

This application will monitor the value of register D300. For example: when D300=100, the bar shows the full scale, D300=50, the bar shows the half scale.

# 4-7. Trend map

Trend map can show the changing trend of data.

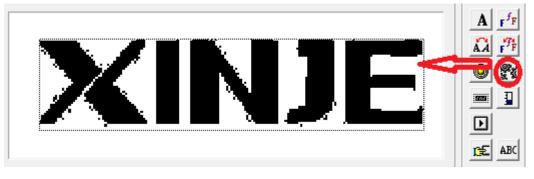


Note: one trend only can show one curve.

# 4-8. Picture

picture button can show the picture of bmp format in the OP project.

Note: the max pixel of the picture is 192\*64. The part which exceeds the range will be cut.



# 4-9. String

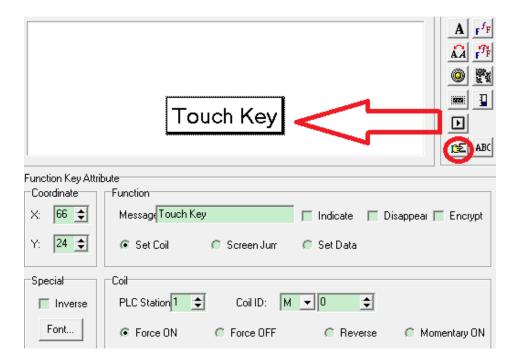
String button can show the register value in character.

**Note:** one register can show two characters. The ASCII of one character is a 2-bit hex number. for example: D0=4142 (hex), it will show AB.

	A	
ASCII Text Attribut		
X: 100 🜩	Register PLC Station 1 🗲 Register Qty: 1 🗲	
Y: 24 🚖	Register ID: D 💌 0 🜩	
Special	Display	
🔲 Double	Char Num: 1 🚖	
🔲 Inverse		

# 4-10. Touch key

This key is only useful for MP series products. The function of touch key is the same to function key. MP series has touch area. This key can be operated in touch area.



# **5** Make a project

# 5-1. Make a new project

- 1. Click D to build a new project.
- 2. Choose the OP model and PLC model:

Select Model: OP320 OP330 (XP) OP320/5-A MP330 (XMP) MP325-A OP420 OP310 OP520 MP311	Select PLC          Select the type of PLC connected         PLC Type:       Xinje (XC)         Set communication parameter       Setting

3. Click OK to confirm the settings.

# 5-2. Make a screen

OP Series Edit Tool - Untitled	
File Edit Tool Help	
D 🖻 🖬 👗 🖿 📾 📾 🚵 🛗 🔚 🚵	
Screen Screen I. click new to build a new screen New Screen Screen No.: 2 Discription: OK Cancel	2. choose the buttons you need and put in the screen area, then set the parameters

# 5-3. Download the project

First make sure the project has been saved in the PC. Click 📕 to save the project.

Then connect OP panel and PC serial port with OP cable. Turn on the +24V DC power supply of

OP panel. Click is to start download. At last it will show the message of "download succeed".

#### Note:

- 1. Do not cut the power supply during downloading. Otherwise OP will not start normally next time.
- 2. If the software show the message of "timeout, please check the cable". Please confirm:
  - (a) The software version is compatible with the OP hardware version (see the label at the back of OP product).

OP hardware version	OP software version
V3.6	V3.6
V4.0~V7.0(not include V7.0)	V6.5
V7.0~V8.0 (not include V8.0)	V6.5/V7.0/V8.0 and higher version
≥V8.0	≥V8.0

(b) Check the port of OP and PLC and cable.

3. OP software cannot upload the project from OP panel to the PC. Please save the project in your PC before downloading.

Next is to connect OP panel with the PLC. Please turn off all the power supply for OP and PLC. Connect them with PLC cable. Then turn ON the power.

If the communication is normal, it will not show any message. If OP shows the message of "communicating...", please check the reason as the following items.

- 1. PLC model is correct
- 2. The cable is good
- 3. The port of PLC and OP is good
- 4. Contact us for help

## 5-5. Project protection

If the user doesn't want other person to see the project contents, please use this function.

Click File/outport data..., save the project in odp format. Now the file.odp is protected.

Click File/import data.... to open the odp format file. All the screens and buttons are not applicable except download button. That mean you only can download the file.odp to OP panel.

File Edit Tool Help	
	Only download
Scree Description	button is useful

# **6** Q&A

# 1. How does PLC communicate with OP panel?

Please read chapter from 5-1 to 5-4.

## 2. How to change the screen?

Press  $[\Lambda]$  or [V] to change the screen. Function key also can change the screen, please read chapter 4-3.

# 3. How to use the password?

For some parameters or screen, user doesn't want other person to operate. User can set password for these buttons or screens.

Example: set password for the running frequency

Choose encrypt item for register button:

		Running frequency	A r <sup>f</sup> r AA r <sup>f</sup> r @ % D L ABC
-	Register Attribute Coordinate X: 76 € Y: 32 €	Register PLC Station 1	÷
Click Tool/set OP series, set the password:			
		OP Series Parameter Master Screen 1 + Password: 589923 + Screen Save: After 3 minu - , C Display Scre 1 +	

Set a jump screen button, to go to password input window:

	Ŭ	frequen d 🗊 💽	icy 123	
Function Key Attri Coordinate X: 92 🗲 Y: 32 🜩	bute Function Key: Left K C Set Coil	ey _▼	I Hand III I Set Data	Disappear 🥅 Encryp
Special Double	Screen Jump To:	C Screen	1 🚖	C Date/Time

When user press SET button on the OP panel, the register cannot be operated. User has to press left key to enter password window.

After inputting the correct password, the register can be operated again.

#### 4. How to set the value?

Runnin	ng frequen	cy 12345
Register Attribute		
Coordinate Regist	er	
X: 148 🗢 PLC	Station 1 🚖 Register Qty: 📋	🛨 🔲 Limited Upper: 🛛 🔶
Y: 26 🜩 Regi	ster ID: D 💌 100 🜩 🔽 🤋	Set 🔲 Encrypt Lower: 0 🚖

# In OP20 software:

Choose "set" item of register button. And set the register address (register ID).

OP panel:

User can press SET button on the OP panel to set the register value. Press UP/DOWN button to increase or decrease the value. Press left/right button to change the set bit of register. Press ENT button to confirm the settings.

#### 5. How to set the auxiliary relay?

Please refer to chapter 4-3 function key (set coil).

In OP20 software:

Choose set coil item of function key, set the coil address (coil ID) and the coil action (force ON/force off/reverse/momentary on).

Function Key Attrit	Function
X: 140 🚖	Key: 💶 🔽 🔽 Hand 🔲 Disappear 🔲 Encrypt
Y: 32 호	💿 Set Coil 🛛 🌀 Screen Jurr 💭 Set Data
Special	Coil
🔲 Double	PLC Station 1 🜩 Coil ID: M 🖵 0 🜩
🔲 Inverse	

Force ON: set ON the auxiliary relay

Force OFF: set OFF the auxiliary relay

Reverse: if coil is ON, set to OFF; if coil is OFF, set to ON

Momentary ON: set ON the auxiliary relay when pressing the button, set OFF it when releasing the button

OP panel:

Press left key(for example) on OP panel to control the auxiliary relay M0.

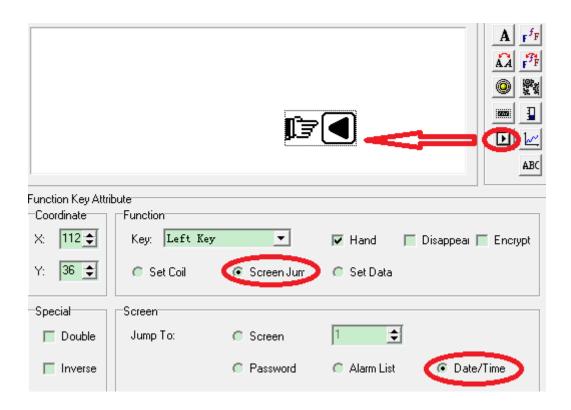
## 6. How to set the RTC of OP panel?

Set the function key in OP20 software:

Choose screen jump and date/time item.

OP panel:

Press left key (for example) to jump to RTC screen. Then user can set the date and time on that screen.





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