



# **MP series HMI**

**User manual**

**XINJE Electric Co., Ltd.**

Data No. HMC 01 20110520 3.0

**All copyrights reserved by Xinje Electric Co., Ltd.**

Any copying, transferring or any other usage is prohibited. Otherwise Xinje will have the right to pursue legal responsibilities. All rights including patent and permission of modules and designs are reserved.

**January, 2010**

---

# Catalog

Preface.....	1
Safety caution.....	2
1. MP introduction.....	3
1-1. Features.....	3
1-1-1. Features.....	3
1-1-2. Name rule.....	3
1-1-3. Types.....	4
1-2. General specifications.....	4
1-3. Structure.....	5
1-3-1. Structure.....	5
1-3-2. Buttons.....	9
1-3-3. Download and com port.....	11
1-4. Dimension.....	13
1-4-1. Product Dimensions.....	13
1-4-2. Mounting dimensions.....	14
2. Software and programming.....	16
2-1. OP20 software.....	16
2-1-1. About the software.....	16
2-1-2. Install and uninstall.....	16
2-1-3. Using steps.....	18
2-1-4. Buttons and parts.....	18
2-2. TouchWin software.....	19
2-2-1. About the software.....	19
2-2-2. Install and uninstall.....	19
2-2-3. Using steps.....	20
2-2-4. Tools and parts.....	20
2-3. Make the program.....	24
2-3-1. MP330(-S)/MP325-A(-S).....	24
2-3-2. MP360-L/MP760-T.....	25
2-3-3. Communication.....	27
3. Connection diagram of MP and other devices.....	28
3-1. Xinje FC/XC series PLC.....	28
3-2. FX/Q series of Mitsubishi.....	32
3-3. Siemens S7-200/300/400 series.....	35
3-4. Omron C series.....	37
3-5. KOYO S series.....	39
3-6. Delta DVP series.....	40
3-7. LG Master-K series.....	42
3-8. Panasonic FP series.....	44
3-9. Schneider Micro/Neza/Twido series.....	46

---

3-10. Facon FB series.....	47
3-11. Vigor VB series.....	50
3-12. Keyence KV series.....	52
3-13. Emerson EC20 series.....	55
3-14. OPTO22 series.....	57
3-15. SAIA-Burgess PCD series.....	59
3-16. Fuji SPB series.....	64
3-17. Bosch Rexroth IndraControl L40 series.....	66
3-18. OEMax NX7 series.....	67

## Preface

Thank you for buying MP series HMI, this manual should be read and understood before doing relative operation.

### Purpose

- This manual will guide readers in the correct operating and maintaining MP series HMI. Also, this manual refers to the application situations, operations, transportation, storage, set up, installation, maintaining and so on.
- This manual contains three parts: product introduction, wiring, HMI programming.

### Users

This manual is fit for following personnel:

- End Users
- Engineers
- Technicians

Please read the safety notes carefully before using the products.

### Get the manual

Please download all the manuals, catalogs from Xinje website:  
[www.xinje.com](http://www.xinje.com).

### Contact us

If you have any questions, please contact us as the following methods:

Tel: 86 510 85134139

Fax: 86 510 85111290

Mail: [sales@xinje.com](mailto:sales@xinje.com)

Address: 4<sup>th</sup> Floor, Building 7, Original Industrial Park, No.100 Dicui Road, Wuxi, Jiangsu province, China

---

## Safety caution

Please read the manual carefully before using. Make sure your operation is correct and safety. The following contents are only aimed at MP series products.

Please keep the manual properly, put in the location easy to get and read, hand the manual to the end users.



### NOTICE

- Please do not bundle power line with communication cable or let them too close, keep at least 10cm.
- Please do not install module or change the wire. Otherwise it may cause malfunction, error action, damage or fire.
- Please shut off the power when there is abnormal smell or voice in MP products. (The short sound made by buzzer after power on is normal)
- Do not strike the HMI with a hard or sharp object, or press on the touch panel with too much force or with pen, screw, since it may damage the HMI and cause damage.
- Please tighten the screws when install the products to prevent from falling off.
- Please transport, store, set up, install and maintain the products correctly, otherwise the HMI may be damaged.



### DANGERS

- Confirm the rated voltage of MP and connect correct before power on.
- Please do not touch the terminals after power on to avoid electric shock.
- Please do not open the cover board.
- Please cut off all the power when installing or disassembling the products, or it may cause error action and malfunction.
- Please use MP series HMI in suitable environment conditions according to instructions, otherwise it may cause accident.
- Please do not use the products where there is high frequency radiate, high magnetic field or other interferences.

---

# 1.MP introduction

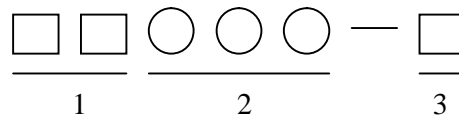
## 1-1. Features

MP series integrate the features of OP and TP series HMI. It has more choices and solutions for your machine.

### 1-1-1. Features

- ◆ Display:  
Size 3.7" and 7", blue LCD, 256 true color TFT LCD;  
Display area is touch screen;
- ◆ Screen:  
Support Multi-language, any font and size, word art;  
Support BMP pictures, user can add picture library;
- ◆ Control:  
Dynamic data display, bar map, trend map;  
Real-time alarm, history alarm information;  
9 levels password protection;
- ◆ Buttons:  
Up to 26 function buttons, the function can be set freely;  
Sensitive and accurate buttons;
- ◆ Communication:  
Support various brands of PLC, inverter, meter;  
Support free format communication, self-defined protocol;  
Support micro-printer
- ◆ Debug:  
Simulate online/offline, SCADA

### 1-1-2. Name rule



1: series name	MP series
2: LCD size	330: 3.7" 325: 3.7" 360: 3.7" 760: 7"
3: LCD type	L: blue LCD T: 256 true colours TFT S: RS485 communication A/vacant: kelly LCD

### 1-1-3. Types

Model	Description
MP330	3.7", Kelly LCD, 192*64, 26 function buttons, touch screen, RS422
MP330-S	3.7", Kelly LCD, 192*64, 26 function buttons, touch screen, RS485
MP325-A	3.7", Kelly LCD, 192*64, 20 function buttons, touch screen, RS422
MP325-A-S	3.7", Kelly LCD, 192*64, 20 function buttons, touch screen, RS485
MP360-L	3.7", blue LCD, 192*64, 26 function buttons, touch screen
MP760-T	7", 256 true colours TFT, 480*234, 26 function buttons, touch screen

### 1-2. General specifications

Electric specifications:

Item		Specification			
		MP330(-S)	MP325-A(-S)	MP360-L	MP760-T
Electric	Input voltage	DC24V			
	Consumption current	<140mA		<240mA	
	Allowable power-off	<10s (less than 1s in fact)			
	Withstand voltage impact	AC1000V, 20mA, less than 1 minute			
	Insulated resistor	10MΩ, DC500V (signal and ground)			
Ambient	Operate temperature	0°C~50°C			
	Storage temperature	-20°C~60°C			
	Ambient temperature	10~90% (no condensation)			
	Noise immunity	1000Vp-p, pulse period 1ms, last time 1 minute			
	Ambient air	No corrosive gas			
	Protection	IP20			
Structure	Cooling mode	Natural cooling			
	External dimension	172*121*56.5	172*94*40	172*121*56.5	214*200*60.3
	Mounting dimension	164*113	164.2*86.8	164*113	201*187
Port	Download port	RS232			
	Com port	RS232/422 (-S: RS232/485)	RS232/422 (-S: RS232/485)	RS232/422/485	

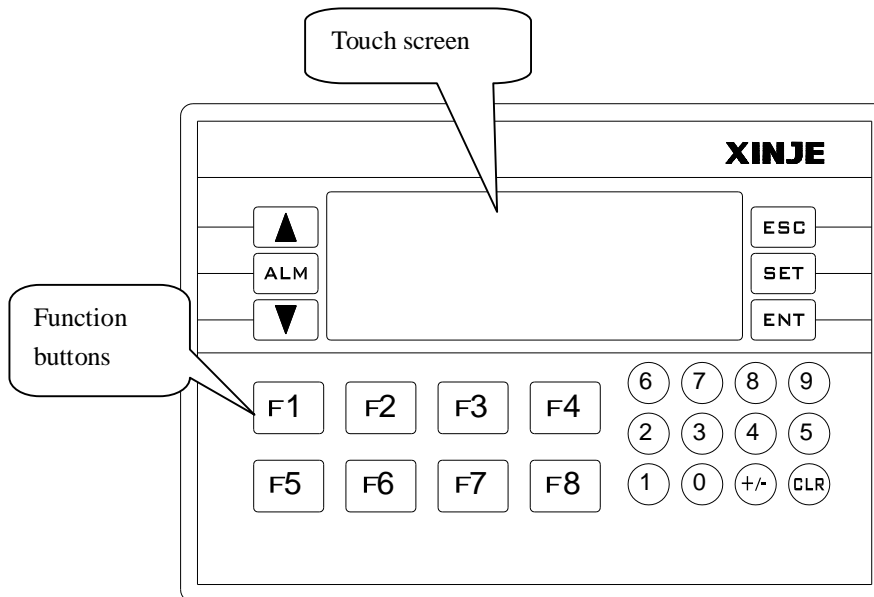
HMI specifications:

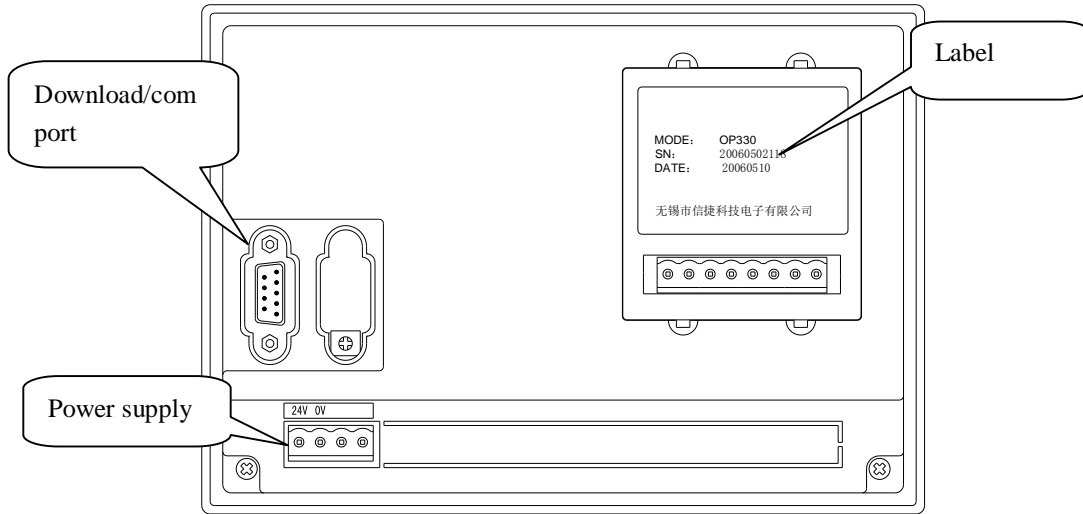
Item		Specification			
		MP330(-S)	MP325-A(-S)	MP360-L	MP760-T
Screen	LCD type	Kelly LCD		Blue LCD	256 colors TFT
	LCD size	3.7 inch			7 inch
	Using life	20000 hours, ambient temperature 25°C, 24 hours running			
	Resolution	192*64			480*234
	Contrast	Adjustable through potentiometer			Unadjustable
	Language	Chinese, English		Chinese, English	
	Character	Lattice font, vector font		Any size, any font	
	Touch mode	Matrix, resistor mode			
memory	Screen	64KB FlashROM		2MB FlashROM	4MB FlashROM
	Data	1KB SRAM		1KB SRAM	4KB SRAM

### 1-3. Structure

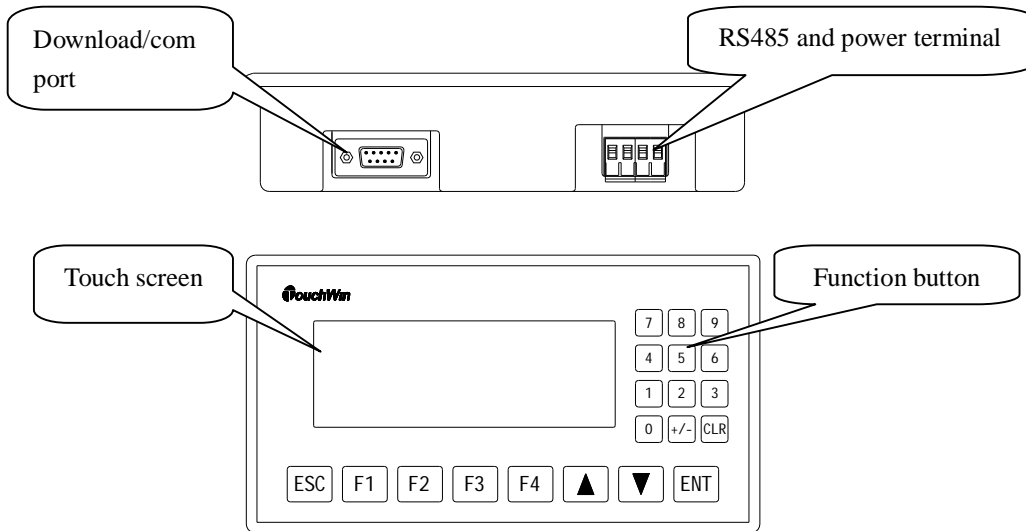
#### 1-3-1. Structure

##### MP330 (-S)

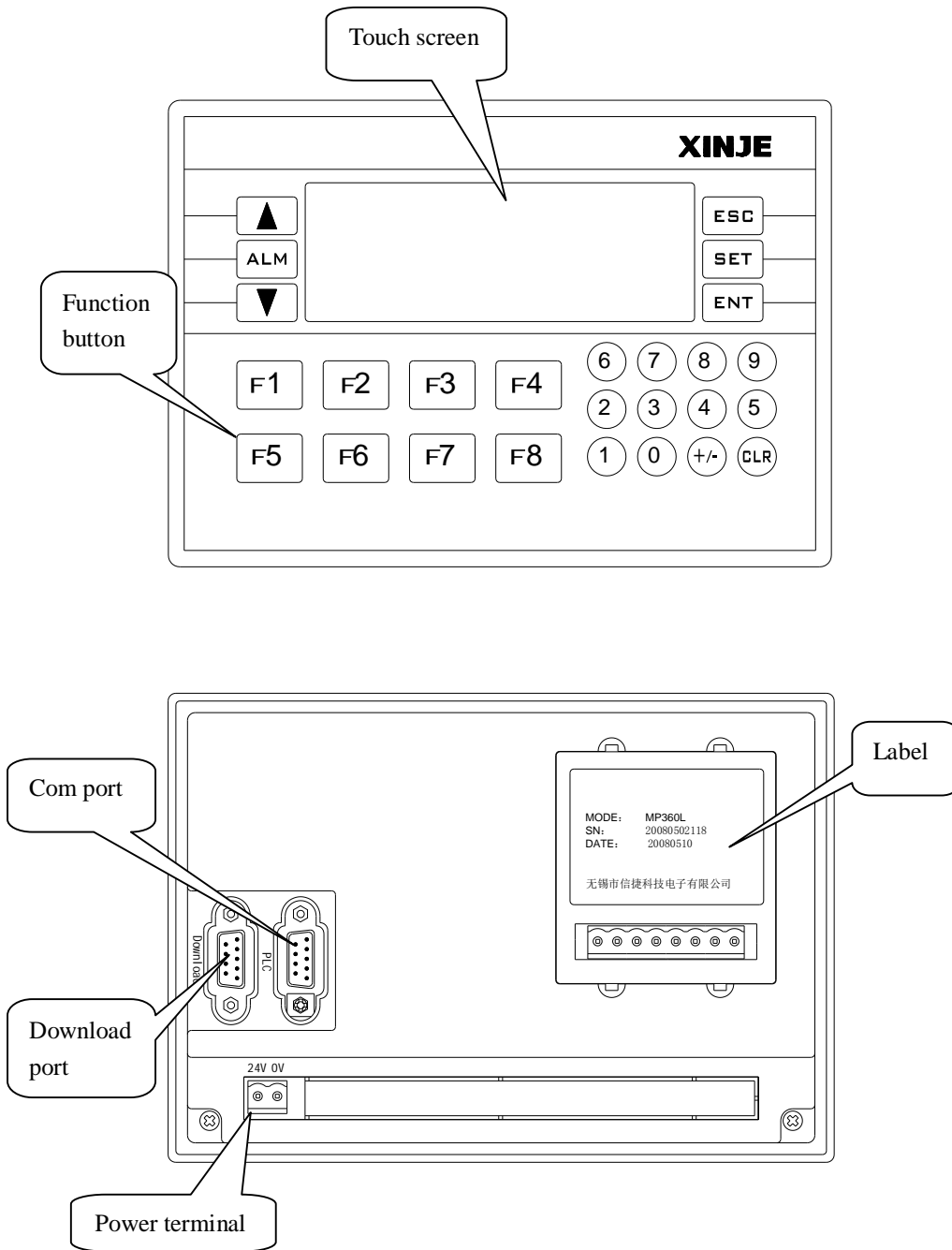




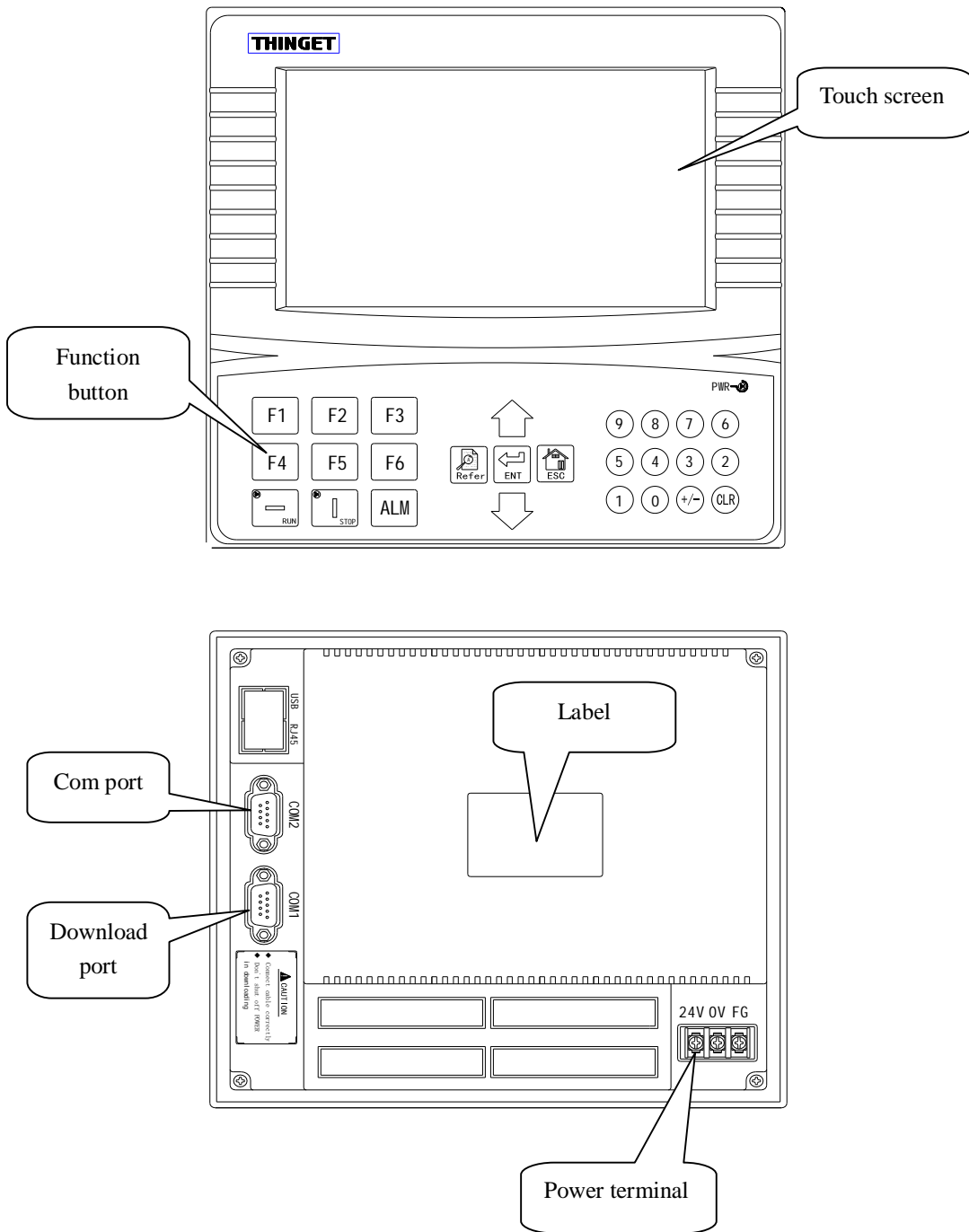
**MP325-A (-S)**



MP360-L













**MP760-T**



### 1-3-2. Buttons













#### MP330 (-S)/MP325-A (-S)/MP360-L

Key-press	Function
	Whatever the mode of the display is in, it will return to original system screen once you press the key (the defaulted screen is No.1). Generally, set the original system screen to be main menu or most used screen.
	Turn the screen to the last page
	Turn the screen to the next page
	Press the key to modify the register value. The register which is being modified will display in reverse color and the bit will twinkle. If there is no register component in the screen it will do vacancy operation once. Before pressing [ENT] key, press [SET] key again to cancel the setting and continue modifying the next data register.
	To write the modified value in the register and continue modifying next register. After the last register in the screen has been modified, it will quit the setting.
	Alarming list key. After setting the function of alarming list, press this key to jump to the alarming list screen.
	Clear the selected area when modifying the register data.
	Set the positive or negative of the data when modifying the register data.
	Number key 0-9, press the key to set the number you want
	Function key F1-F8

**Note:**

All the buttons can be defined to many functions, including set ON, set OFF, reverse, instant ON.

**MP760-T**

Key	Function
	Running the program, LED indication light
	Stop running the program, LED indication light
	Whatever the mode of the display is in, it will return to original system screen once you press the key (the defaulted screen is No.1). Generally, set the original system screen to be main menu or most used screen.
	Turn the screen to the last page
	Turn the screen to the next page
	Inquiry, jump to the user appointed screen
	To write the modified value in the register and continue modifying next register. After the last register in the screen has been modified, it will quit the setting.
	Alarming list key. After setting the function of alarming list, press this key to jump to the alarming list screen.
	Clear the selected area when modifying the register data.
	Set the positive or negative of the data when modifying the register data.
	Number key 0-9, press the key to set the number you want
	Function key F1-F6

**Note:**

All the buttons can be defined to many functions, including set ON, set OFF, reverse, instant ON.

### 1-3-3. Download and com port

#### MP330 (-S)/MP325-A (-S)

MP330 and MP325-A has one port. It can download and communicate with other devices.

MP330/MP325-A

Pin	Function
Pin1	TD+
Pin2	RXD
Pin3	TXD
Pin4	
Pin5	GND
Pin6	TD-
Pin7	RTS
Pin8	RDD-
Pin9	RDD+

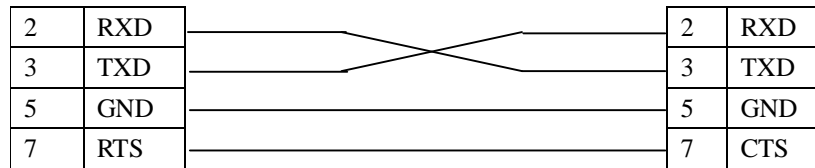
MP330-S/MP325-A-S

Pin	Function
Pin1	TD+
Pin2	RXD
Pin3	TXD
Pin4	
Pin5	GND
Pin6	TD-
Pin7	RTS
Pin8	B
Pin9	A

The diagram of connecting with PC

MP330(-S)/MP325-A(-S)

PC



#### MP360-L/MP760-T

MP360-L and MP760-T has two ports: download port and communication port.

Download port can download program. Communication port can connect to other devices such as PLC, inverter and so on.

Download port

Pin	Function
Pin1	NC
Pin2	RXD2
Pin3	TXD2
Pin4	A2
Pin5	GND
Pin6	TD-
Pin7	B2
Pin8	NC
Pin9	NC

Communication port

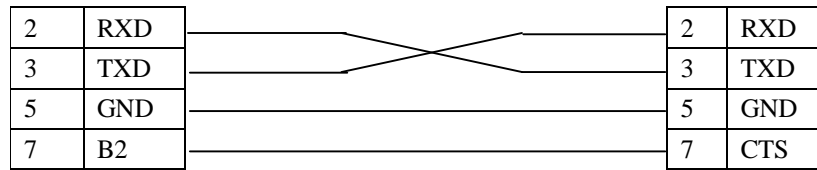
Pin	Function
Pin1	TD+
Pin2	RXD1
Pin3	TXD1
Pin4	A1
Pin5	GND
Pin6	TD-
Pin7	B1
Pin8	RDD-
Pin9	RDD+

---

The diagram of connecting with PC

MP360-L/MP760-T

PC



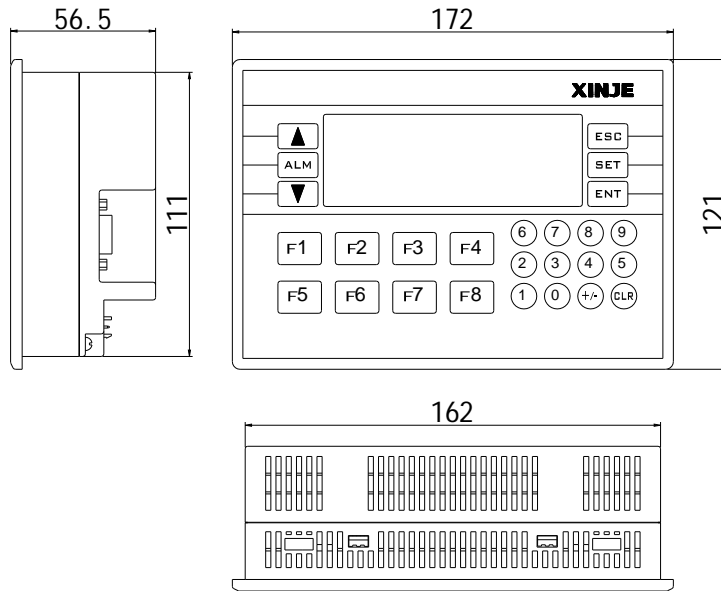
**Note:** Connect pin 5 and 8 is forced download mode.

## 1-4. Dimension

### 1-4-1. Product Dimensions

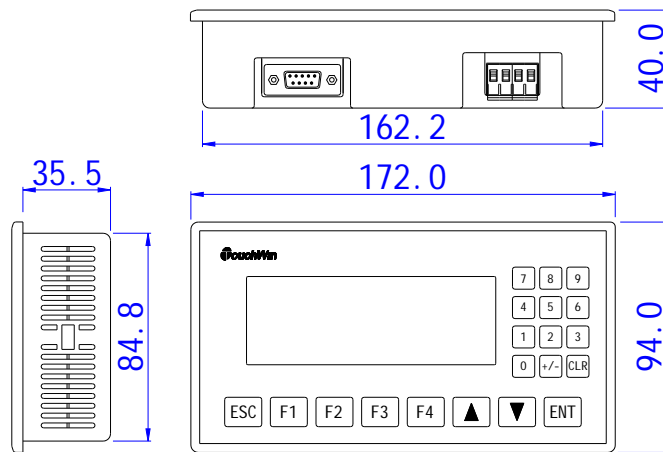
MP330(-S)/MP360-L

Unit: mm



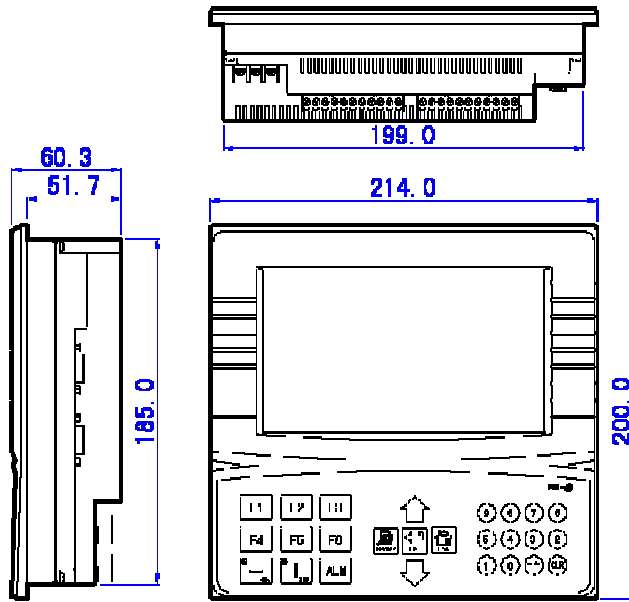
MP325-A(-S)

Unit: mm



MP760-T

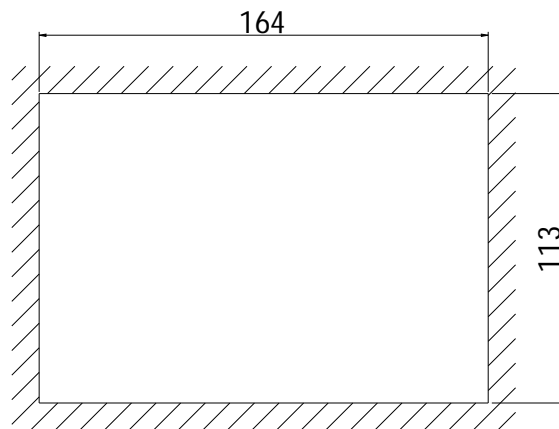
Unit: mm



#### 1-4-2. Mounting dimensions

MP330(-S)/MP360-L

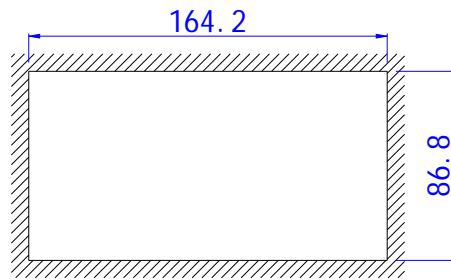
Unit: mm



---

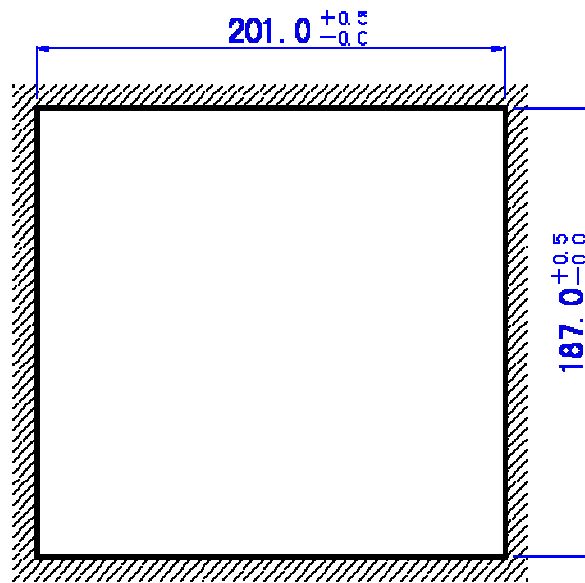
MP325-A(-S)

Unit: mm



MP760-T

Unit: mm



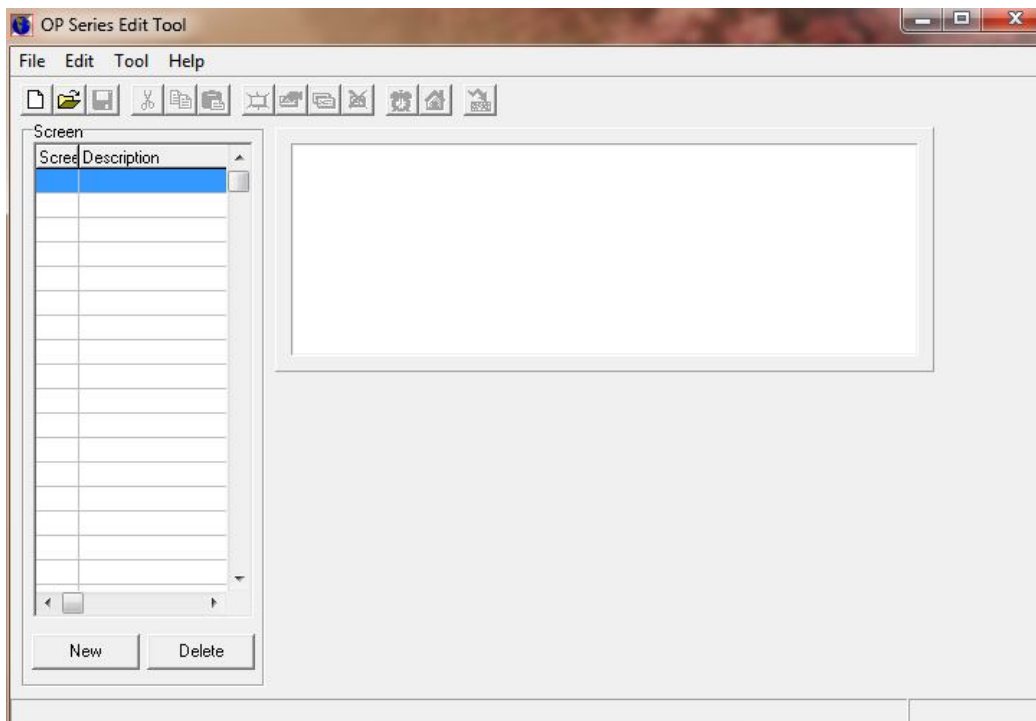
## 2. Software and programming

### 2-1. OP20 software

#### 2-1-1. About the software

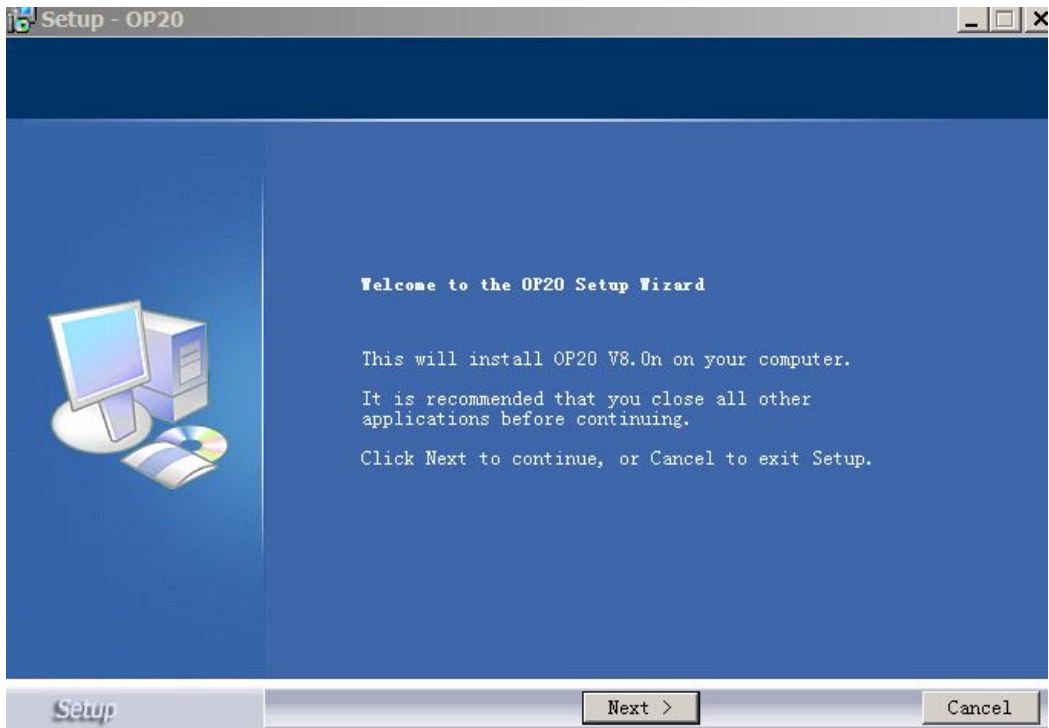
The program of MP330, MP330-S, MP325-A, MP325-A-S is made through OP20 software.

OP20 software:

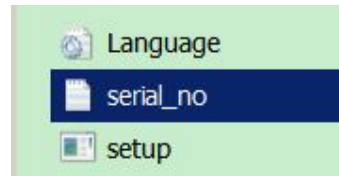


#### 2-1-2. Install and uninstall

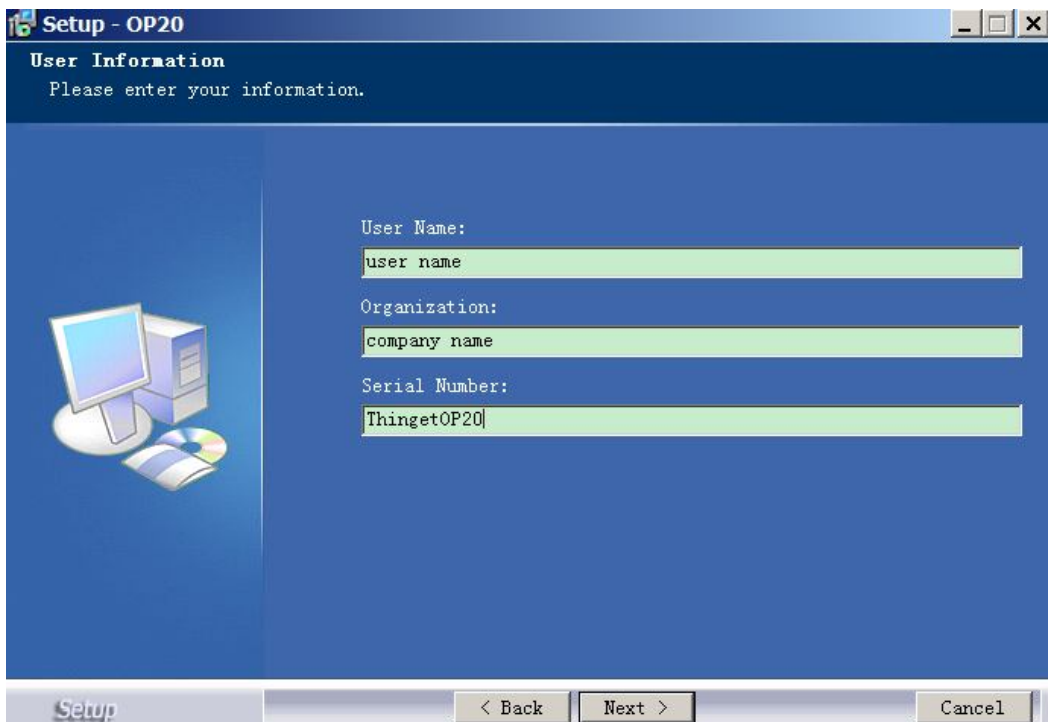
1. Get the OP20 software from [www.xinje.com](http://www.xinje.com)
2. OS requirements: Windows98/2000/XP/Win7.
3. Installation steps
  - (1) Double click "setup.exe" to enter the installation guide.



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



“serial\_no.txt” to know the serial number.



(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.















**2-1-3. Using steps**

The following is the basic steps to use the software:






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








**2-1-4. Buttons and parts**

**1. Buttons**

Button	Function
	Build a new project
	Open a project
	Save the project
	Cut the contents in the text
	Copy the contents in the text
	Paste the contents in the text
	Build a new screen
	The attribute of current screen
	Copy screen
	Delete screen
	Alarm list, each alarm message is related to an auxiliary relay
	The original screen. Press ESC on the panel to return to original screen. It can set the password and interactive register.
	Set the general function key. (for MP325/OP330/MP330)
	Download the program into the OP panel

**2. Parts**

Button	Function
	For text input
	Dynamic text
	Text, support different fonts
	Dynamic text, support different fonts
	Set the register data

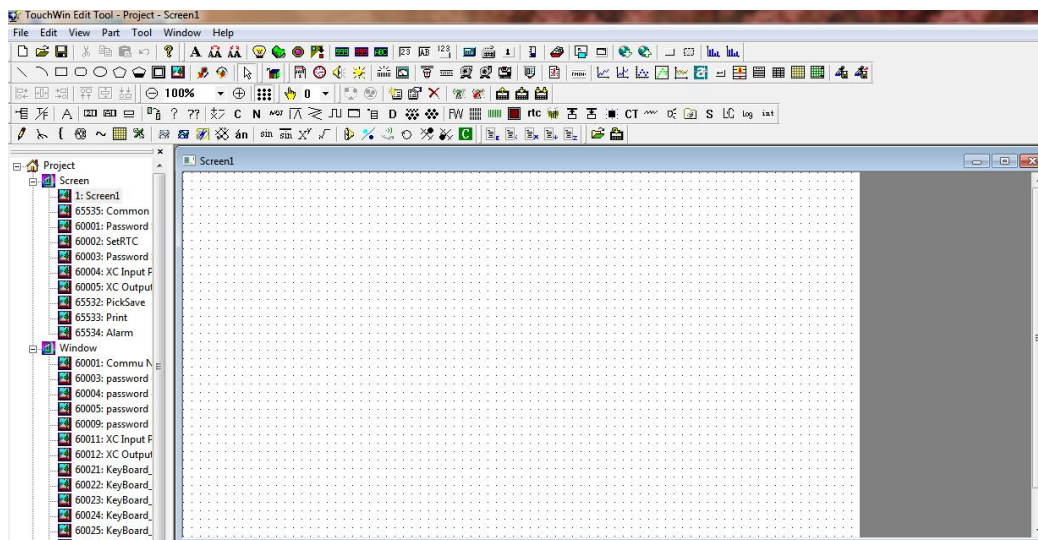
	Lamp, to display the status of PLC auxiliary relay
	Function button. The function includes coil setting, screen jump, data setting
	Trend map. To show the trend of parameters
	Bar map. To show the flow, pressure, level and so on.
	Insert bmp file.
	String. To show the contents in PLC register.
	Function button for touch operation (only for MP series panel)

## 2-2. TouchWin software

### 2-2-1. About the software

The program of MP360-L, MP760-T should be edited in Touchwin software.

The following is the Touchwin software:



### 2-2-2. Install and uninstall

Installation steps:

1. Double click setup.exe file.
2. Click next until finish the installation. Open serial\_no.txt to get the serial no.

Note:

1. please do not install two versions of Touchwin in the same location. Only one version of Touchwin software is recommended to install in the PC.
2. Higher version can open the program made in lower version. But lower version cannot open the higher version program.

Uninstallation steps:

Double click Thinget/TouchWin/unins000.exe to uninstall the software.




















### 2-2-3. Using steps























The basic using steps of TouchWin software:
























Run the software → build a new project → choose the panel type → choose the PLC port device  
 → choose the download port device → edit the project → save the project → download the  
 program into MP series products → communicate MP with other device
















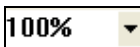





### 2-2-4. Tools and parts










The tools and parts in the software:

Icon	Name	Function
	New	Build a new project
	Open	Open the file
	Save	Save the file
	Cut	Cut the element
	Copy	Copy the element
	Paste	Paste the element
	Undo	Undo the operation
	Help	Check the software version information
	Text	Input static text
	Dynamic text	Display the text according to the value of register, support 16 texts, set register value as 0~15
	Variational text	Display the text according to the value of register, set register value as user need
	Lamp	Display the ON/OFF state of switch
	Button	ON/OFF the bit element
	Lamp button	Combine the function of lamp and button
	Screen jump	Jump to object screen
	Digital display	Display the register value
	Alarm display	Set the upper/lower limit of register value, when exceeding the range, twinkle display
	Text display	Display characters in multi-registers
	Digital input	Input the data in the register

	Text input	Input characters in the register
	Set data	Set data and used in arithmetic
	Digital keyboard	Digital input keyboard
	ASCII keyboard	Character input keyboard
	User input	One input button of keyboard
	Bar	Display the register value in bar picture
	Dynamic map	Display the map according to the register value, support 16 maps, the register value is 0~15
	Call window	Call window according to the value in the coil or register
	Window button	Control the open, close of the window
	Download recipe	Download the recipe into object device
	Upload recipe	Upload the recipe into TH register
	Function button	Realize multi-functions with this button
	Function field	Similar to function button, but the trigger condition is different.
	Discrete column map	Display the data in discrete column map
	Continue column map	Display the data in continue column map
	Line	Draw lines
	Arc	Draw arc
	Rectangle	Draw rectangle
	Ellipse	Draw ellipse
	Fold/polygon	Draw fold and polygon
	Polygon block	Similar to container
	Frame	Draw 3D rectangle

	Map	Add jpg or bmp format pictures
	Move animation	make the movement animation of object
	Rotate animation	Switch the picture
	Material library	The picture library
	Date	Display the date
	Clock	Display the time
	Buzzer	Control the buzzer by the coil
	LCD light control	Control the background light by the coil
	Scale	Display the value in scale
	Instrument	Display the value in the meter
	Valve	Simulate the state of valve
	Pipe	Simulate the liquid state in the pipe
	Pump	Simulate the pump running
	Auto wind	Simulate the auto wind
	Motor	Simulate the motor running
	Retort	Simulate the retort running
	Inverter alarm information	Display the inverter alarm information
	Scroll text	Display the text in scroll mode
	Real time map	Display the current value in curve
	History data map	Display the current and history value in curve
	XY curve	Display two curve in X, Y direction
	XY curve Ex	Display the value in line, point and line-point.
	Time trend control	Display value in certain time space

	Data moving button	Use with event, curve, alarm event, realize flip, confirm and clear operation
	Alarm list	Show the inverter alarm information in the list
	Display real time event	Display real time alarm information, when the alarm is free, the event will be deleted automatically
	Display history event	Display many alarm information and event happen time
	Common grid control	Display a group of register in the table
	Data grid control	Display a group of register in the table, support time information table
	Sample save	To collect the object data, no limit for the sample quantity and time, save the data in TH registers
	Sample export	Save the data in TH register and export to object device as CSV format file
	Align left	Align left the objects
	Align center	Align center the objects
	Align right	Align right the objects
	Align top	Align top the objects
	Align middle	Align middle the objects
	Align bottom	Align bottom the objects
	Zoom out	Zoom out the screen
	Zoom percent	Zoom percent
	Zoom in	Zoom in the screen
	Grid	Display grid in the screen
	State change	Switch button state display
	Dynamic picture state selection	Switch dynamic picture state display
	Public unit	Use the unit in all the screens


	Private unit	Use the unit in appointed screen
	New	Build a new screen
	Property	Screen name, author, remark...
	delete	Delete the current screen
	Simulate offline	Simulate the project in the TH
	Simulate online	Connect PLC and TH, simulate the project in TH online
	Download	Download the project in the TH
	Upload	Upload the project from TH to PC
	Debug download	Debug download

## 2-3. Make the program

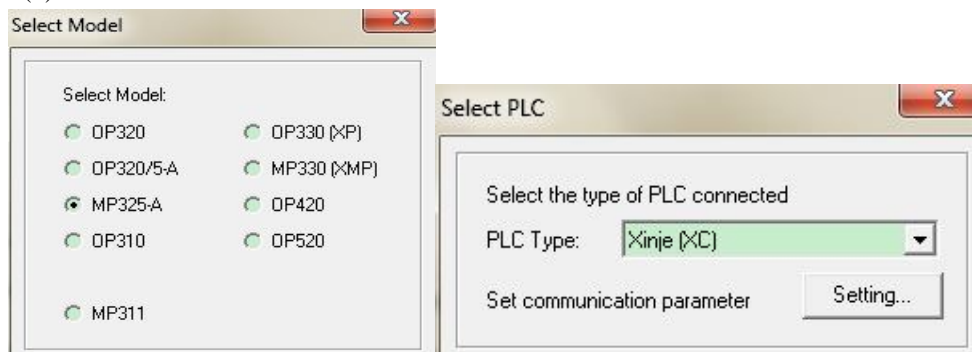
### 2-3-1. MP330(-S)/MP325-A(-S)

The program of MP330(-S) and MP325-A(-S) are edited in OP20 software.

#### 1. Build a new program

(1) Click  to build a new project.

(2) Choose the MP model and PLC model:



(3) Click OK to confirm the settings.

#### 2. Please refer to **OP software manual** for making and downloading the program.

The OP software manual download link:

<http://www.xinje.com/en/DownloadShow.asp?ID=232>

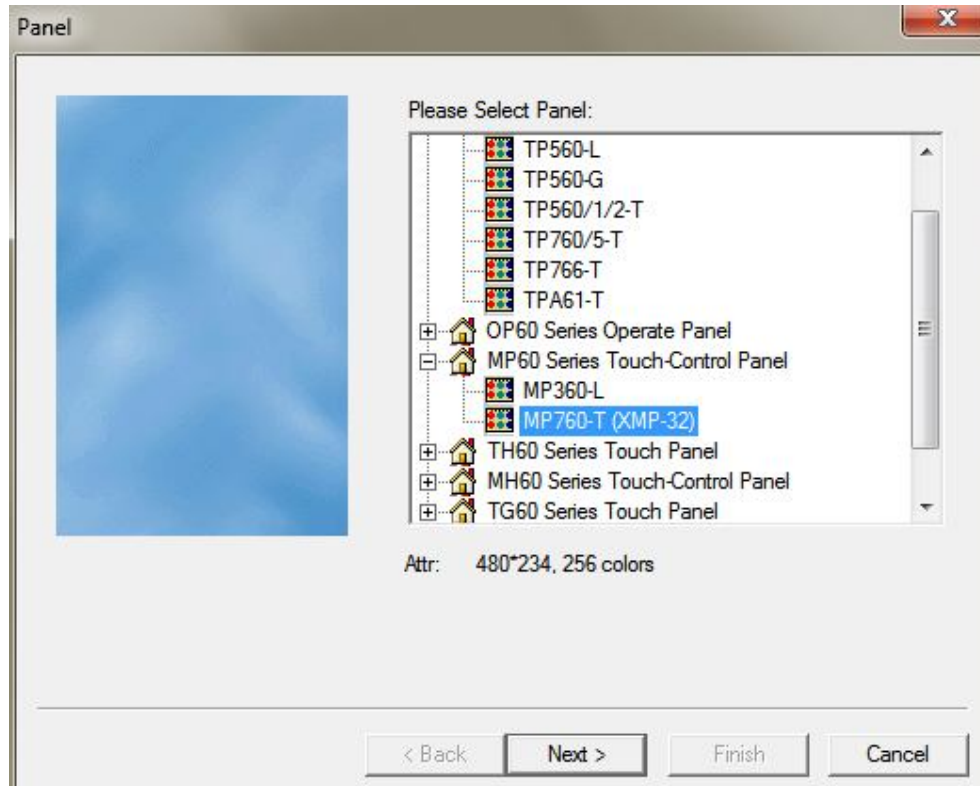
## 2-3-2. MP360-L/MP760-T

The program of MP360-L and MP760-T are edited in TouchWin software.

1. Build a new project

(1) Open the Touchwin software.

(2) Click File/New or  to build a new project.



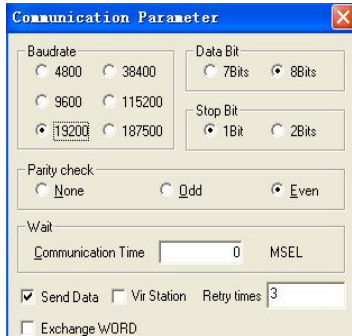
(3)

Select the correct MP type and com port device type



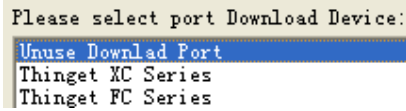
com port device type

(4) Set the com port device communication parameters according to PLC port device

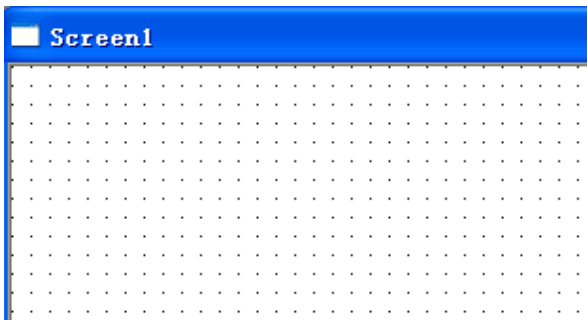



(5) When download port (COM1) is not used as communication port, please select unuse download port.

When use COM1 as com port, please select communication device.



(6) Finish the building process.




(7) Click  to save the project in the PC.

2. Edit the screen

Please refer to Touchwin software manual.

3. Download the project

---

Connect the MP series download port with PC, click  to download the program.  
Please don't cut the power when downloading. Please download again if the power is off.

### **2-3-3. Communication**

Connect MP with Xinje PLC through communication cable. Make sure the MP power supply is DC24V. Give the power for all the devices.

If the MP screen show communicating, please check the station no., baud rate of both devices.

The connection diagram of MP and other devices please refer to chapter 3.

# 3. Connection diagram of MP and other devices

## 3-1. Xinje FC/XC series PLC

### 1. Software settings

Parameters	Recommended Settings
Download Port	9-Pin communication port
PLC Port	Communication port
Communication Type	RS232
Communication Distance	15m
Data Bit	8
Stop Bit	1
Verification Mode	Odd
Baud Rate	9600
Modbus Number	1

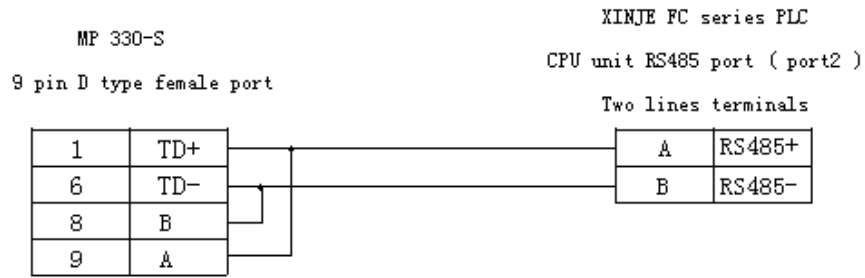
### 2. Operational Address

#### (1) FC Series

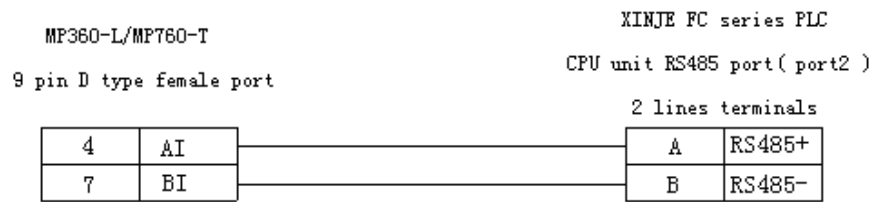
FC Address	Operational Range	Data Type	Description
X	0~337	Bit	External input coil
Y	0~337	Bit	External output coil
M	0~383	Bit	Internal coil
SM	0~96	Bit	Internal special register
T	0~128	Bit	Timer
C	0~128	Bit	Counter
W	0~2047	Word/DWord	Data register
FW	0~191	Word/DWord	FlashROM register
TW	0~127	Word/	Value of Timer
CW	0~127	Word/	Value of Counter
SW	0~111	Word//DWord	Special register
WX	0~13	Word//DWord	Input coil as a register
WY	0~13	Word//DWord	Output relay as a register
WM	0~23	Word//DWord	Internal relay as a register



(2) Connect to FC series CPU (RS485 port)

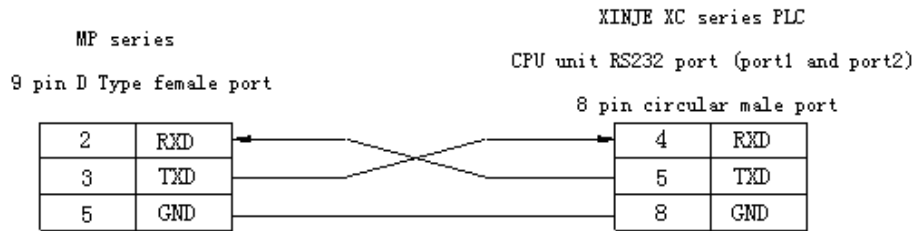


Suitable Model: MP330-S



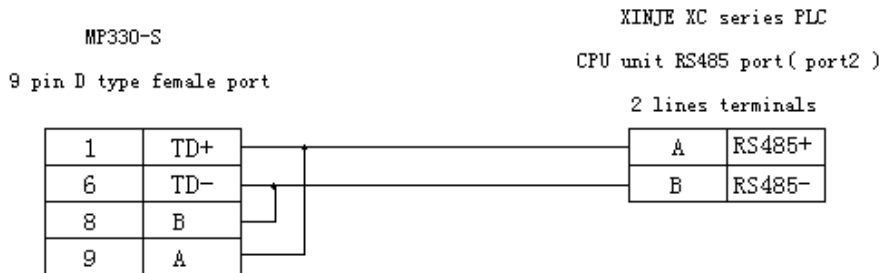
Suitable Model: MP360-L、MP760-T

(3) Connect to XC series CPU (RS232 port)

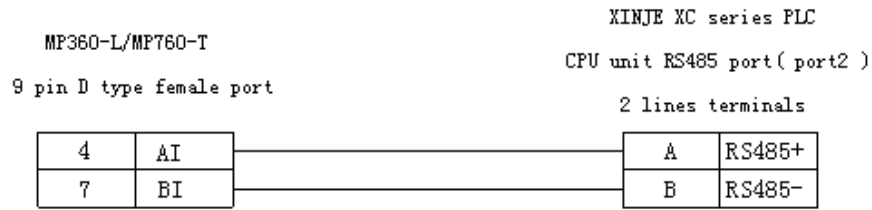


Suitable Model: MP330、MP330-S、MP360-L、MP760-T

(4) Connect to XC series CPU (RS485 port)

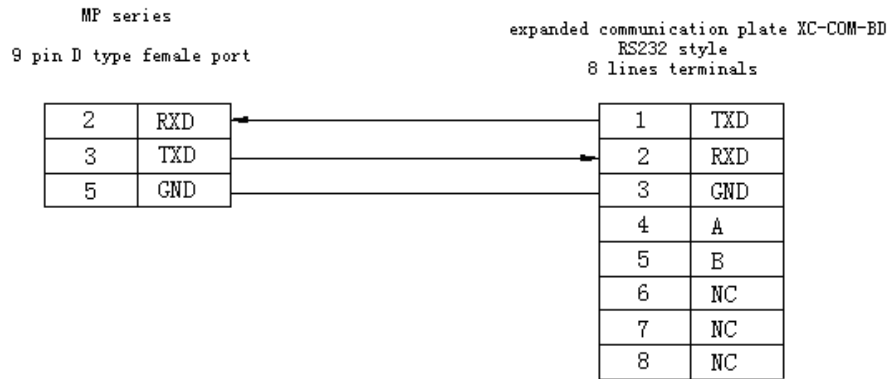


Suitable Model: MP330-S



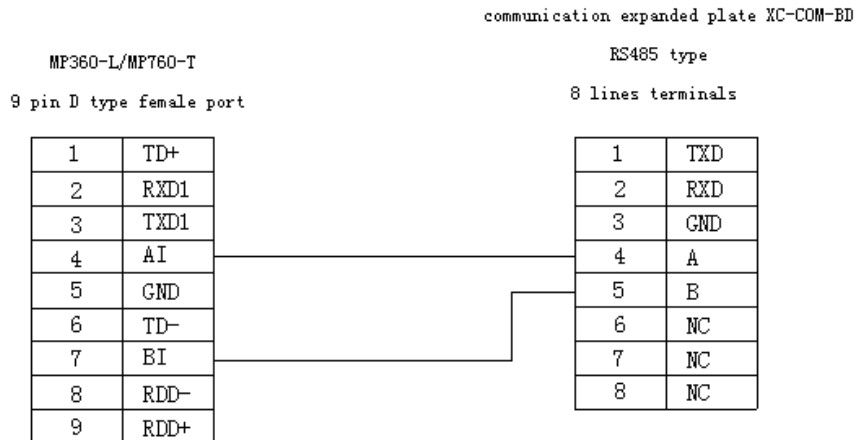
Suitable Model: MP360-L、MP760-T

(5) Connect to extend communication board XC-COM-BD( RS232 port)

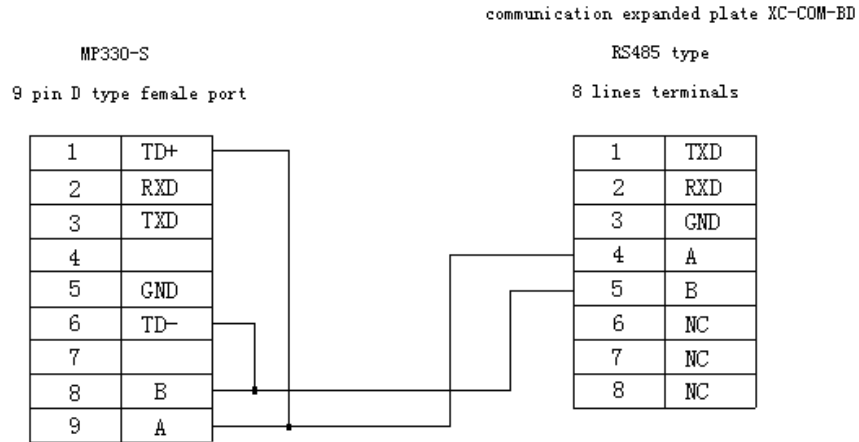


Suitable Model: MP330、MP330-S、MP360-L、MP760-T

(6) Connect to extend communication board XC-COM-BD( RS485 port)

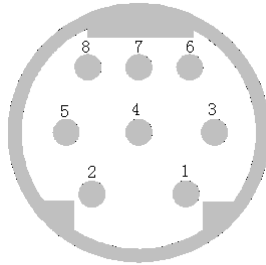


Suitable Model: MP360-L、MP760-T



Suitable Model: MP330-S.

4. 8-pin round male port of FC/XC series PLC (Port1、Port2)



### 3-2. FX/Q series of Mitsubishi

1. Software settings

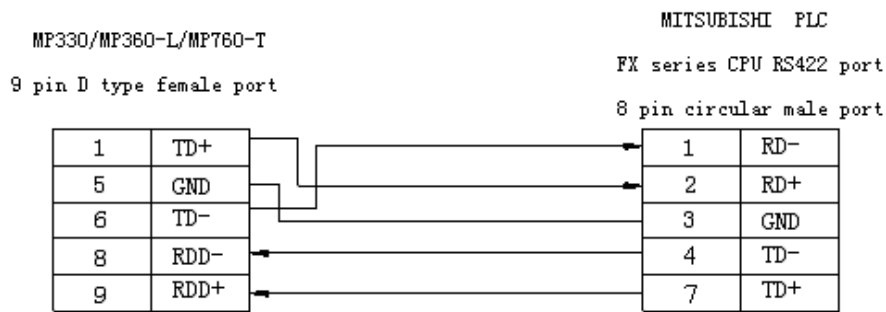
Parameters	Recommended Settings
Download Port	9-Pin communication port
PLC Port	Programming Port/FX-422BD
Communication Type	RS422
Communication Distance	70m
Data Bit	7
Stop Bit	1
Verification Mode	Even
Baud Rate	9600
Modbus Number	0

2. Address

XC Address	Operational Range	Data Type	Description
X	0~177	Bit	External input coil
Y	0~177	Bit	External output coil
M	0~8255	Bit	Internal coil
S	0~999	Bit	Stepping coil
T	0~255	Bit	Timer status
C	0~255	Bit	Counter
C16	0~199	Word/DWord	16-Bit Counter
C32	200~255	DWord	32-Bit Counter
D	0~8255	Word/DWord	Data register
T	0~255	Word/DWord	Current value
X	0~177	Word/DWord	Data register
Y	0~177	Word/DWord	Data register
M	0~8255	Word/DWord	Data register
S	0~999	Word/DWord	Data register

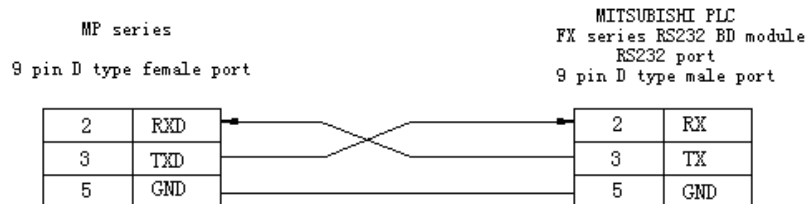
### 3. Connection Type

(1) connect to FX series CPU (RS422 port)



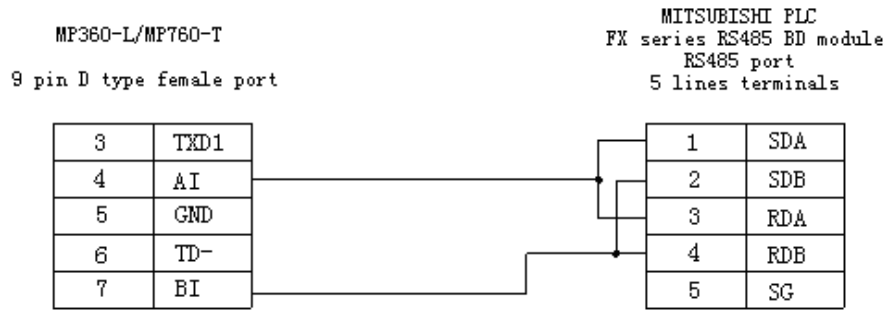
Suitable model: MP330、MP360-L、MP760-T

(2) connect to FX series communication module RS232BD

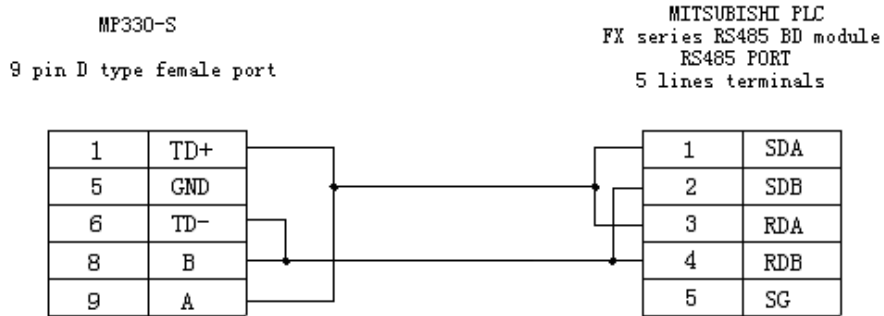


Suitable model: MP330、MP330-S、MP360-L、MP760-T

(3) connect to FX series communication module RS485BD

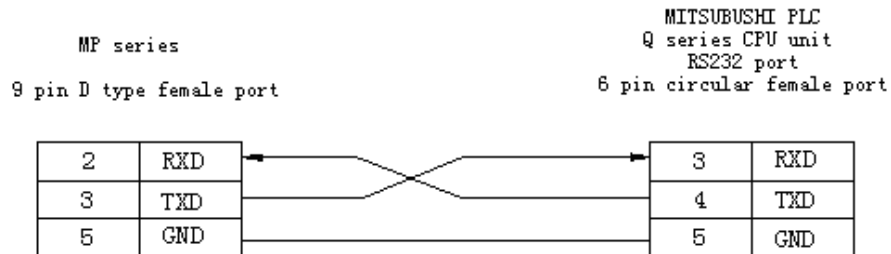


Suitable model: MP360-L、MP760-T



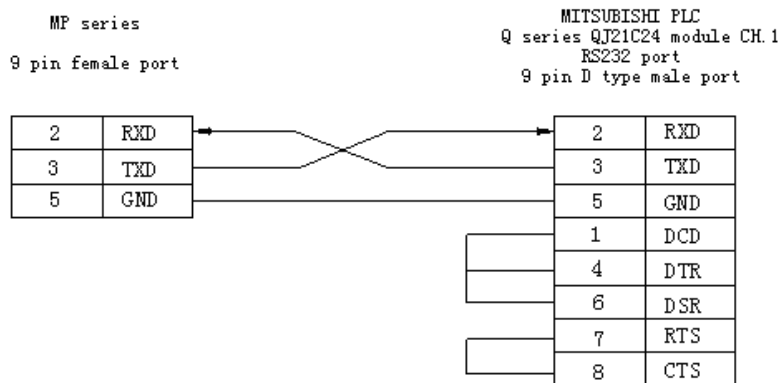
Suitable model: MP330-S

(4) connect to Q series CPU (RS232 port)



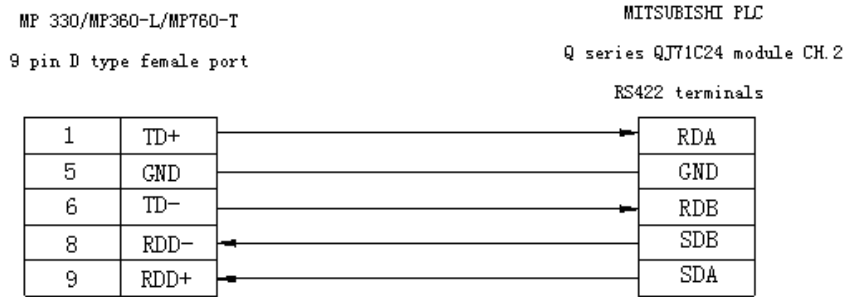
Suitable model: MP330、MP330-S、MP360-L、MP760-T

(5) connect to Q series module QJ71C24 (RS232 port)



Suitable model: MP330、MP330-S、MP360-L、MP760-T

(6) connect to Q series module QJ71C24 (RS422 port)



Suitable model: MP330、MP360-L、MP760-T

### 3-3. Siemens S7-200/300/400 series

#### 1. Software settings

Parameters	Recommended settings
MP communication port	RS485 port
PLC communication port	Terminal port or expanded communication port
Communication type	RS485
Communication distance	100m
Data bit	8
Stop bit	1
Verification mode	Even
Baud rate	9600
Modbus number	2

#### 2. Address

##### (1) S7-200 series

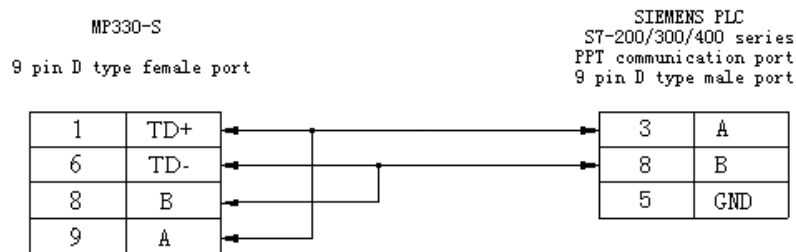
PLC address	Operational range	Data type	Description
VB	0~4095	Byte	Variable data bytes registers
VW	0~4095	Word	Variable data word registers
VD	0~4095	DWord	Variable double word data registers
IB	0~15	Byte	External input bytes image registers
IW	0~15	Word	External input word image registers
ID	0~15	DWord	External input double word image registers
QB	0~15	Byte	External output byte image registers
QW	0~15	Word	External output word image registers
QD	0~15	DWord	External output double word image registers

MB	0~31	Byte	Internal auxiliary bytes registers
MW	0~31	Word	Internal auxiliary word registers
MD	0~31	DWord	Internal auxiliary double word registers
SMB	0~299	Byte	Internal special auxiliary bytes registers
SMW	0~299	Word	Internal special auxiliary word registers
SMD	0~299	DWord	Internal special auxiliary double word registers
SB	0~31	Byte	Special auxiliary bytes registers
SW	0~31	Word	Special auxiliary word registers
SD	0~31	DWord	Special auxiliary double word registers
T	0~255	Word	Registers
C	0~255	Word	Registers
M	0~31	Bit	Bit storage
V	0~4095	Bit	Variable storage
I	0~15	Bit	External input coil
Q	0~15	Bit	External output coil
SM	0~299	Bit	Special relay
S	0~31	Bit	Sequential control relay
T	0~255	Bit	Timer status
C	0~255	Bit	Counter

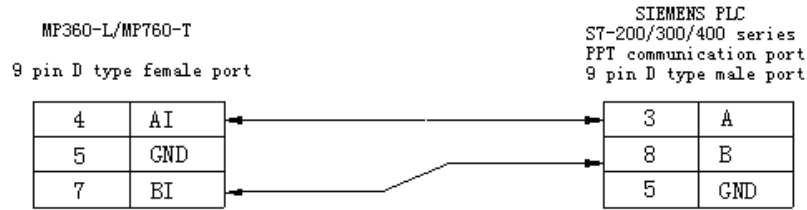
(2) S7-300/400 series

PLC address	Operational range	Data type	description
I	0~9999	Byte/Word/DWord	External input registers
Q	0~9999	Byte/Word/DWord	External output registers
M	0~9999	Byte/Word/DWord	Internal auxiliary registers
DB0~DB20	0~9999	Byte/Word/DWord	Data registers
I	0~9999	Bit	External input coil
Q	0~9999	Bit	External output coil
M	0~9999	Bit	Internal auxiliary relay
DB0~DB20	0~9999	Bit	Internal auxiliary relay

3. Connection Type



Suitable model: MP330-S



Suitable model: MP360-L、MP760-T

### 3-4. Omron C series

#### 1. Software settings

Parameters	Recommended settings
MP communication port	Communication port
PLC communication port	Terminal port or expanded communication port
Communication type	RS232
Communication distance	15m
Data bit	7
Stop bit	2
Verification mode	Even
Baud rate	9600
Modbus number	MP330/MP330-S: 0 MP360-L/MP760-T: 2

Notices: When MP series is in communication with Omron PLC, you need to set Omron PLC to 'Monitor Run' mode. Below is the operation method: Give power after setting the data in DM 6600 to H0201, then it will be ok.

#### 2. Address

##### (1) SYSMAC CPM/CQM series

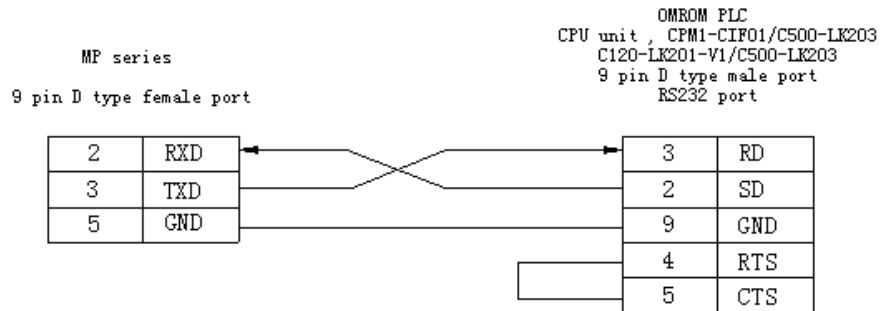
PLC address	Operational range	Data type	Description
IR	0~65535	Bit	I/O and internal relay
SR	244~65535	Bit	Relay
HR	0~65535	Bit	Keep type relay
AR	0~65535	Bit	Auxiliary relay
LR	0~65535	Bit	Connection relay
PV	0~65535	Bit	Timer / Counter current value
TC	0~65535	Bit	Timer / Counter
IR	0~65535	Word/DWord	Registers
SR	244~65535	Word/DWord	Registers

HR	0~65535	Word/DWord	Registers
AR	0~65535	Word/DWord	Registers
LR	0~65535	Word/DWord	Registers
PV	0~65535	Word/DWord	Registers
TC	0~65535	Word/DWord	Registers
DM	0~65535	Word/DWord	Words / double word data registers

(2) SYSMAC CP/CJ/CS series

PLC address	Operational range	Data type	Description
CIO	0~9999	Bit	
D	0~99999	Bit	
H	0~9999	Bit	
W	0~9999	Bit	
A	0~9999	Bit	
T	0~9999	Bit	Timer
C	0~9999	Bit	Counter
CIO	0~9999	Word/DWord	Registers
D	0~99999	Word/DWord	Registers
H	0~9999	Word/DWord	Registers
W	0~9999	Word/DWord	Registers
A	0~9999	Word/DWord	Registers
T	0~9999	Word/DWord	Registers
C	0~9999	Word/DWord	Registers

3. Connection Type



Suitable model: MP330、MP330-S、MP360-L、MP760-T

### 3-5. KOYO S series

#### 1. Software settings

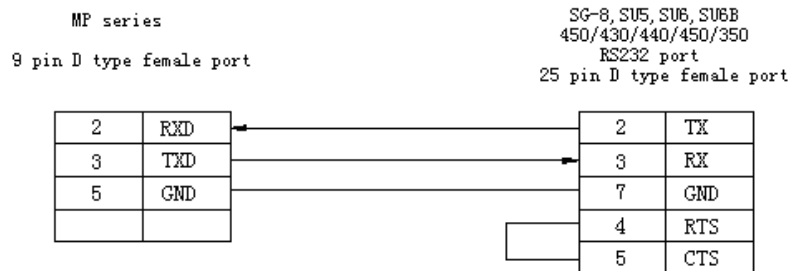
parameters	Recommended settings
MP communication port	Communication port
PLC communication port	Terminal port or expanded communication port
Communication type	RS232
Communication distance	15m
Data bit	8
Stop bit	1
Verification mode	Odd
Baud rate	9600
Modbus number	MP360-L/MP760-T: 1

#### 2. Address

PLC address	Operational range	Data type	Description
M	0~777	Bit	Internal auxiliary coil
I	0~777	Bit	External input coil
Q	0~777	Bit	External output coil
SP	0~777	Bit	Internal auxiliary coil
T	0~777	Bit	Timer coil
C	0~777	Bit	Counter coil
S	0~777	Bit	Stepping coil
R	0~41200	Word/D Word	Data registers

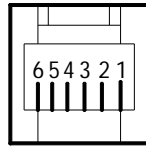
#### 3. Connection Type

(1) connect to CPU or communication unit 25 pin (RS232 communication serial port)



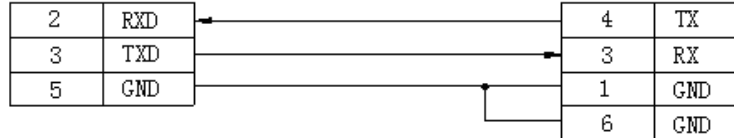
Suitable model: MP330、MP330-S、MP360-L、MP760-T

(2) connect to CPU unit 6 pins RJ-11 jack (RS232 communication serial port)



MP series  
9 pin D type female port

SZ-4, DL05/105/230/250  
RS232 port  
6 pin RJ-11 male port

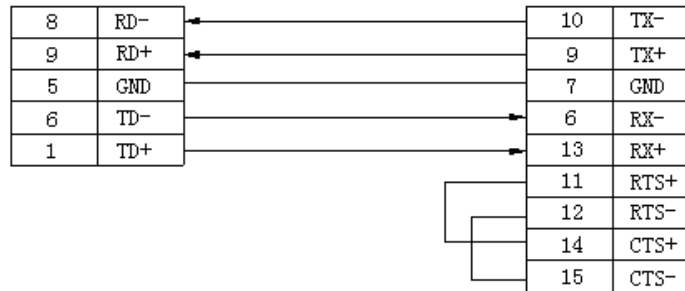


Suitable model: MP330、MP330-S、MP360-L、MP760-T

(3) RS422 communication type

MP330, MP360-LMP760-T  
9 pin D type female port

SU-6B, SG-8 (G01-DM),  
SR-21/SR-22 (E-02DM-R1), DL250  
RS422 port  
15 pin SVGA port male port



Suitable model: MP330、MP360-L、MP760-T

### 3-6. Delta DVP series

#### 1. Software settings

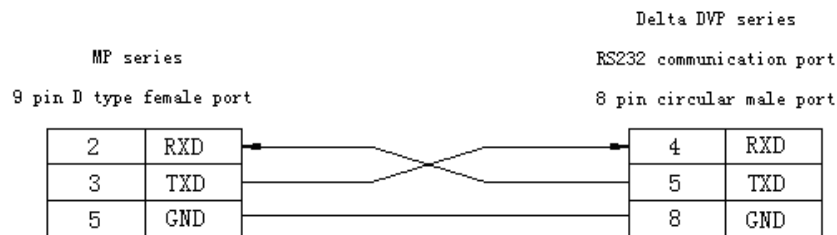
parameters	Recommended settings
MP communication port	Communication port
PLC communication port	terminal port
Communication type	RS232
Communication distance	15m
Data bit	7
Stop bit	1
Verification mode	Even
Baud rate	9600
Modbus number	1

## 2. Address

PLC address	Operational range	Data type	description
X	0~377	Bit	External input coil
Y	0~377	Bit	External output coil
M	0~1279	Bit	Internal auxiliary relay
S	0~1023	Bit	Stepping coil
T	0~255	Bit	Timer coil
C	0~255	Bit	Counter coil
D	0~1279	Word/D Word	Data registers
TD	0~255	Word/D Word	Timer current value
CD	0~255	Word/D Word	Counter current value
S	0~1023	Word/D Word	Registers
X	0~377	Word/D Word	Registers
Y	0~377	Word/D Word	Registers
M	0~127	Word/D Word	Registers

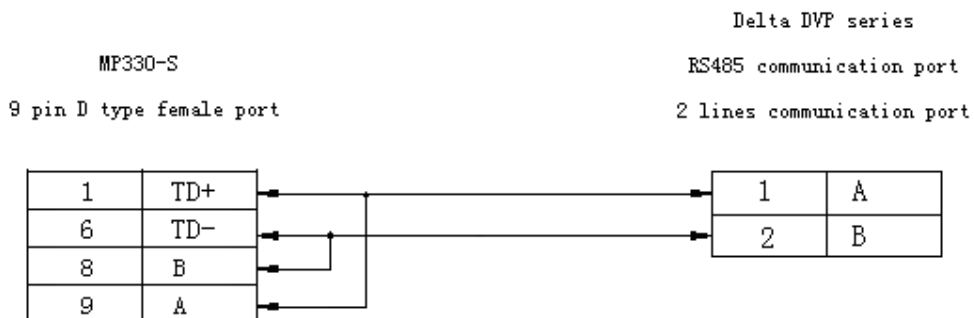
## 3. Connection type

(1) connect to CPU unit RS232 communication serial port

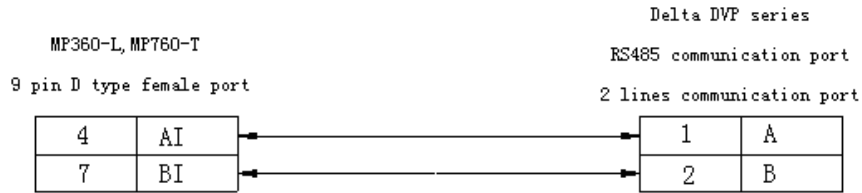


Suitable model: MP330、MP330-S、MP360-L、MP760-T

(2) connect to CPU unit RS485 communication serial port



Suitable model: MP330-S



Suitable model: MP360-L、MP760-T

### 3-7. LG Master-K series

#### 1. Software settings

Parameters	Recommended settings	
	Master-K80/120S	K80/120S (Cnet)
MP communication port	Communication port	
PLC communication port	Terminal port	Multifunctional port
Communication type	RS232	
Communication distance	15m	
Data bit	8	
Stop bit	1	
Verification mode	None	
Baud rate	38400	9600
Modbus number	1	

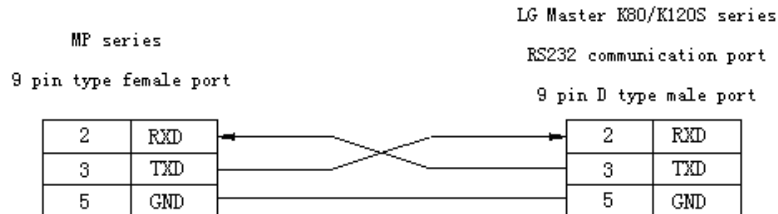
#### 2. Address

PLC address	Operational range	Data type	Description
M	0~9999F	Bit	Internal auxiliary coil
L	0~9999F	Bit	Connection relay coil
K	0~9999F	Bit	Hold relay coil
F	0~9999F	Bit	Read only data registers
T	0~9999	Bit	Timer coil
C	0~9999	Bit	Counter coil
D	0~9999	Bit	Data registers
P	0~9999F	Bit	Input / output coil
D	0~9999	Word/D Word	Data registers
TD	0~9999	Word/D Word	Timer current value
CD	0~9999	Word/D Word	Counter current value
S	0~9999	Word/D Word	Registers
K	0~9999	Word/D Word	Registers
M	0~9999	Word/D Word	Registers

L	0~9999	Word/D Word	Registers
F	0~9999	Word/D Word	Registers
P	0~9999	Word/D Word	Registers

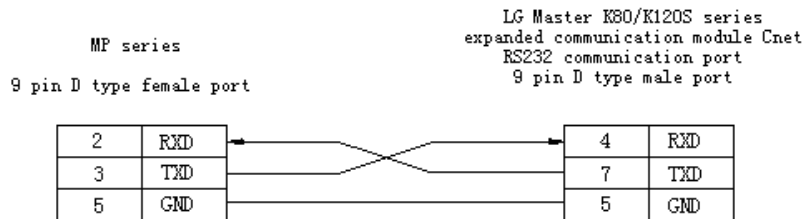
### 3. Connection type

(1) connect to CPU unit (RS232 communication serial port)



Suitable model: MP330, MP330-S, MP360-L, MP760-T.

(2) connect to CPU unit (use expanded communication module)

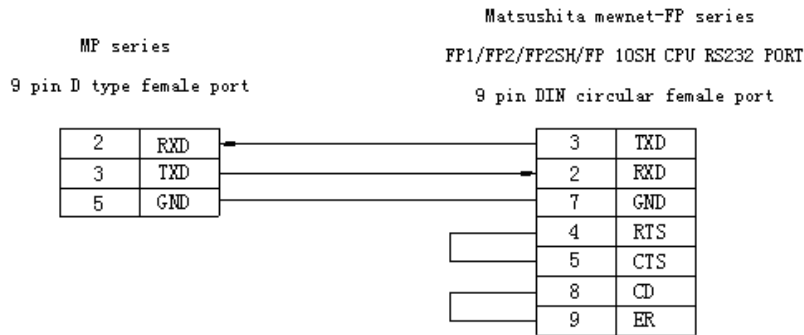


Suitable model: MP330, MP330-S、MP360-L、MP760-T.



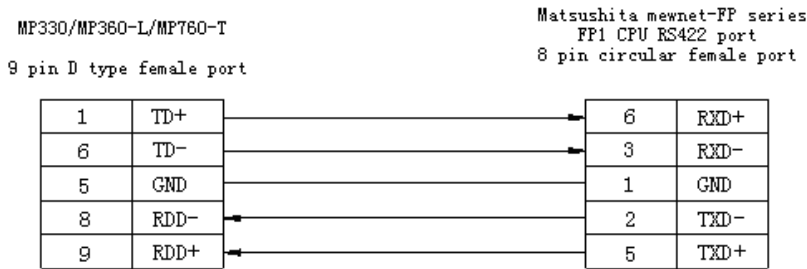
**Notice:** In the FP0 series, only the FP0-CXXCXX has the communication port 'RS232'.

(2) connect to CPU unit 9 pin D type male



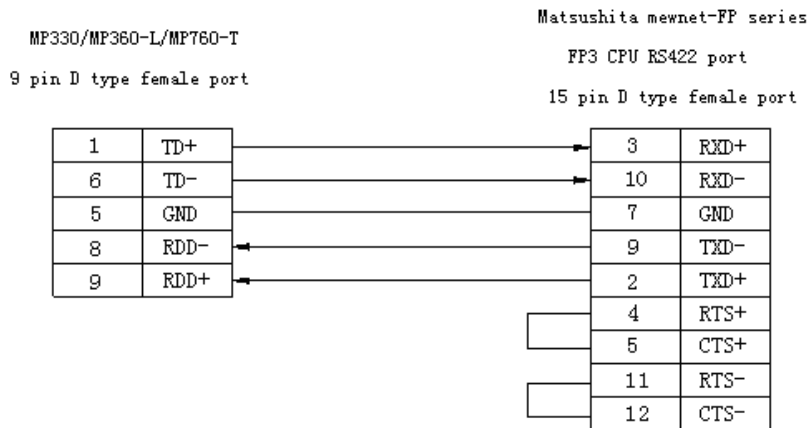
Suitable model: MP330、MP330-S、MP360-L、MP760-T

(3) connect to CPU unit 8 pin D type male



Suitable model: MP330、MP360-L、MP760-T

(4) connect to CPU unit 8 pin D type male



Suitable model: MP330、MP360-L、MP760-T

### 3-9. Schneider Micro/Neza/Twido series

#### 1. Software settings

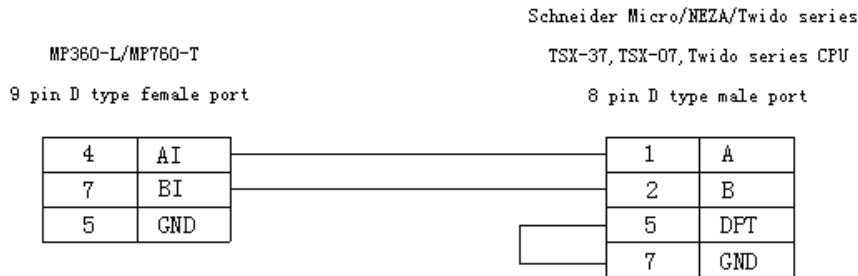
Parameters	Recommended settings
MP communication port	Communication port
PLC communication port	Communication port
Communication type	RS485
Communication distance	100m
Data bit	8
Stop bit	1
Verification mode	Even
Baud rate	9600
Modbus number	1

#### 2. Address

PLC address	Operational range	Data type	Description
M	0~2047	Bit	Internal coil
MW	0~2047	Word/D Word	Register coil

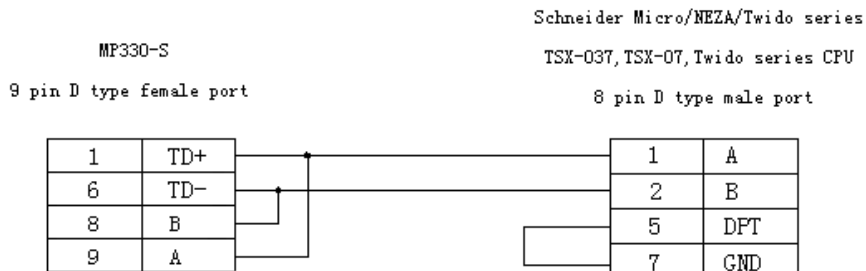
#### 3. connection type

(1) connect to CPU unit (RS485 type)



Suitable model: MP360-L、MP760-T

(2) connect to CPU unit (RS485 type)



---

Suitable model: MP330-S

### 3-10. Facon FB series

#### 1. Software settings

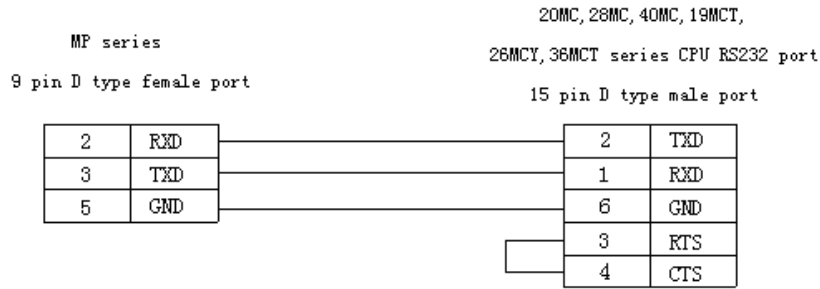
parameters	Recommended settings
MP communication port	Communication port
PLC communication port	Communication port/expanded communication port
Communication type	RS232
Communication distance	15m
Data bit	7
Stop bit	1
Verification mode	Even
Baud rate	9600
Modbus number	1

#### 2. Address

PLC address	Operational range	Data type	Description
M	0~2001	Bit	Internal auxiliary coil
X	0~255	Bit	External input coil
Y	0~255	Bit	External output coil
S	0~999	Bit	Sequential control coil
T	0~255	Bit	Timer
C	0~255	Bit	Counter
R	0~9000	Word/D word	Data registers
X	0~255	Word/D word	Registers
Y	0~255	Word/D word	Registers
M	0~2001	Word/D word	Registers
S	0~999	Word/D word	Registers
D	0~3071	Word/D word	Registers
TD	0~255	Word/D word	Registers
C16	0~199	Word/D word	16 counter
C32	200~255	Word/D word	32 counter
T	0~255	Word/D word	Designated timer status

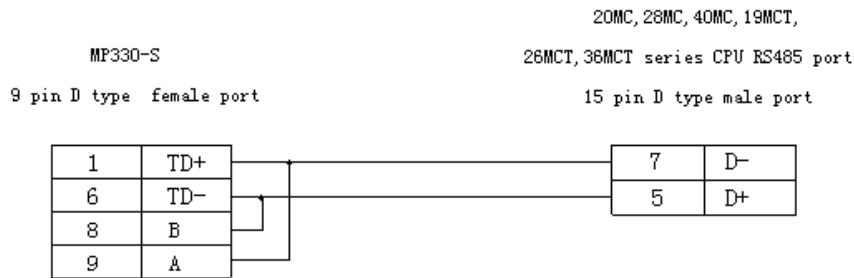
3. connection type

(1) connect to CPU unit (RS232 type)

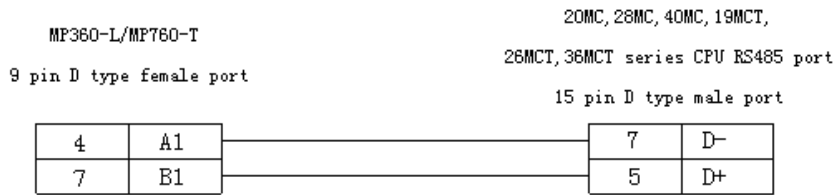


Suitable model: MP330、MP330-S、MP360-L、MP760-T

(2) connect to CPU unit (RS485 type)

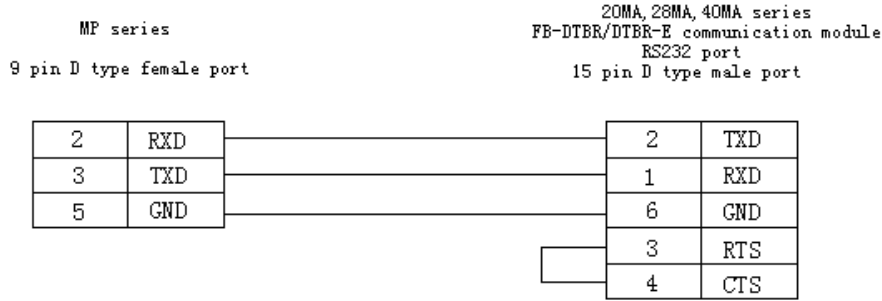


Suitable model: MP330-S



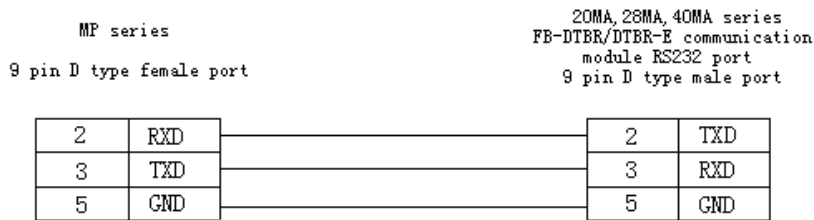
Suitable model: MP360-L、MP760-T

(3) connect to FB-DTBR/DTBR-E communication module (RS232) (15 pin D type male)



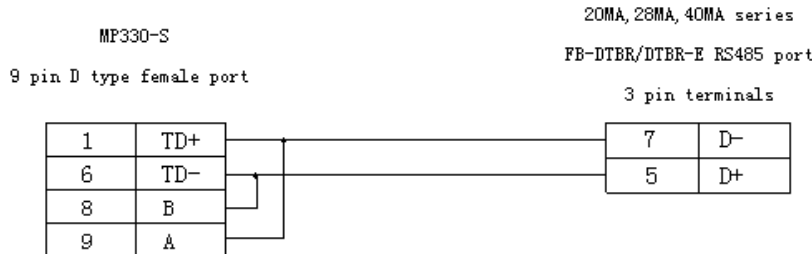
Suitable model: MP330、MP330-S、MP360-L、MP760-T

(4) connect to FB-DTBR/DTBR-E communication module (RS232) (9 pin D type male)

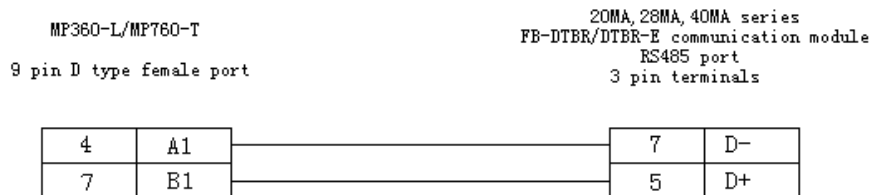


Suitable model: MP330、MP330-S、MP360-L、MP760-T

(5) connect to FB-DTBR/DTBR-E communication module (RS485)



Suitable model: MP330-S



Suitable model: MP360-L、MP760-T

### 3-11. Vigor VB series

#### 1. software settings

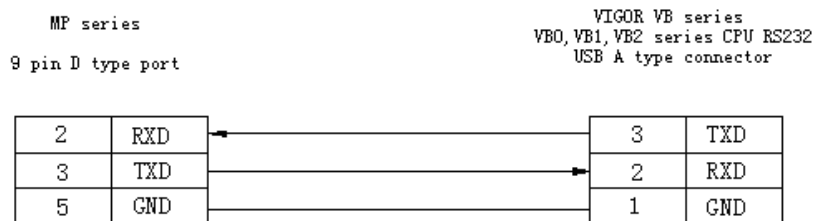
Parameters	Recommended settings
MP communication port	Communication port
PLC communication port	Communication port/expanded communication port
Communication type	RS232
Communication distance	15m
Data bit	7
Stop bit	1
Verification mode	Even
Baud rate	19200
Modbus number	1

#### 2. Address

PLC address	Operational range	Data type	Description
X	0~777	Bit	External input coil
Y	0~777	Bit	External output coil
M	0~9255	Bit	Internal auxiliary coil
S	0~999	Bit	Special auxiliary coil
TSTATUS	0~255	Bit	Timer status
CSTATUS	0~255	Bit	Counter status
TCOIL	0~255	Bit	Timer
CCOIL	0~255	Bit	Counter
C16	0~199	Word	16 counter
C32	200~255	D Word	32 counter
D	0~9255	Word/ D Word	Data registers
TW	0~255	Word/ D Word	Current value
X	0~777	Word/ D Word	Registers
Y	0~777	Word/ D Word	Registers
M	0~9255	Word/ D Word	Registers
S	0~999	Word/ D Word	Registers

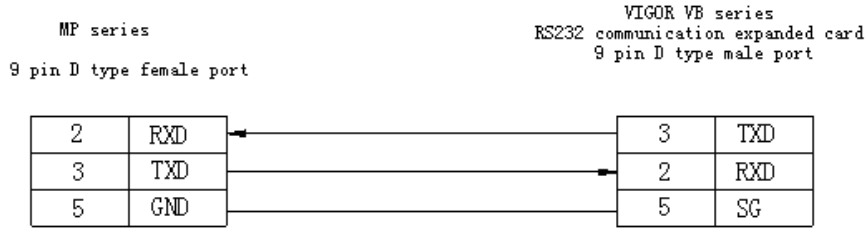
#### 3. connection type

(1) connect to CPU unit A type of USB connector communication (RS232)



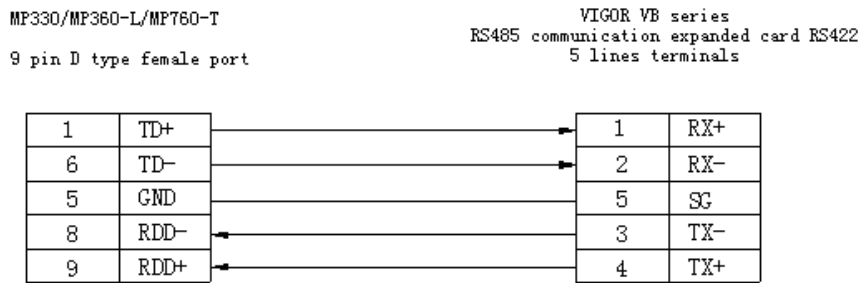
Suitable model: MP330、MP330-S、MP360-L、MP760-T

(2) connect to CPU unit through RS232 communicational expanded card



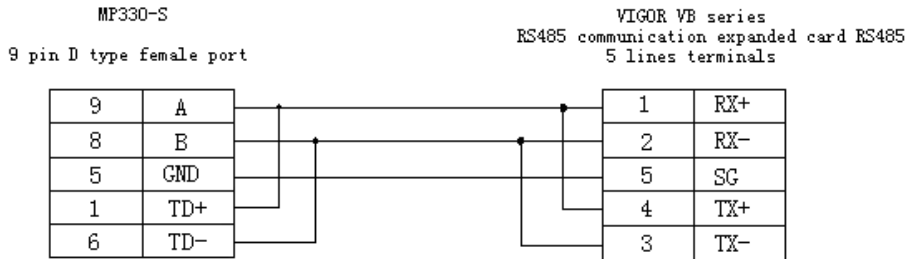
Suitable model: MP330、MP330-S、MP360-L、MP760-T

(3) connect to CPU unit through RS485 communicational expanded card by RS422

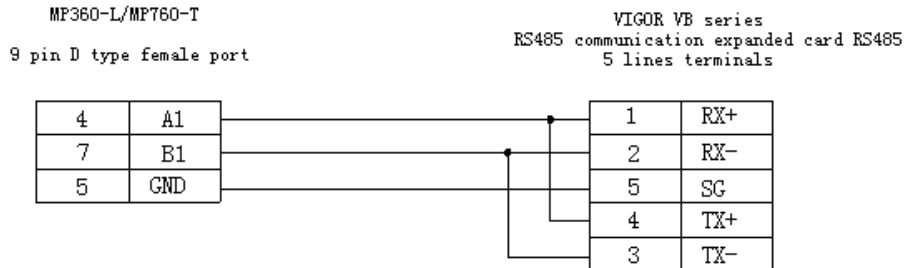


Suitable model: MP330、MP360-L、MP760-T

(4) connect to CPU unit through the RS485 communicational expanded card (RS485)



Suitable model: MP330-S



Suitable model: MP360-L、MP760-T

### 3-12. Keyence KV series

#### 1. Software settings

parameters	Recommended settings
MP communication port	Communication port
PLC communication port	Terminal port
Communication type	RS232
Communication distance	15m
Data bit	8
Stop bit	1
Verification mode	Even
Baud rate	9600
Modbus number	1

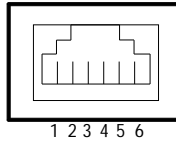
#### 2. Address

PLC address	Operational range	Data type	Description
R	0~999	Bit	Coil
DM	0~8000	word	Data registers

#### 3. connection type

(1) connect to CPU unit (RS232)

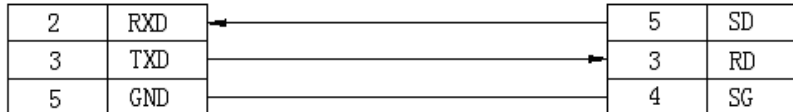
RJ-11 interface



MP series

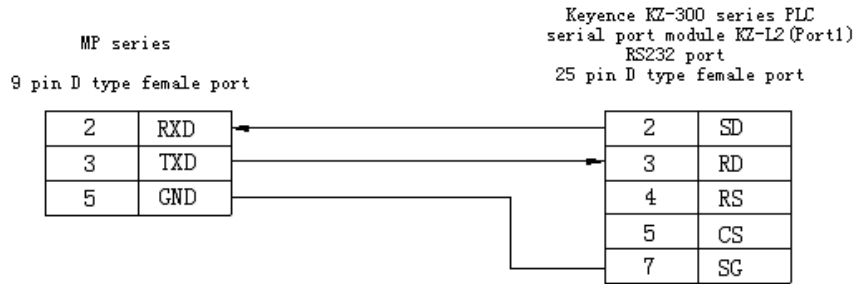
9 pin D type female port

Keyence KV-10/16/24/40 series PLC  
CPU unit RS232 port  
6 pin RJ11 receptacle



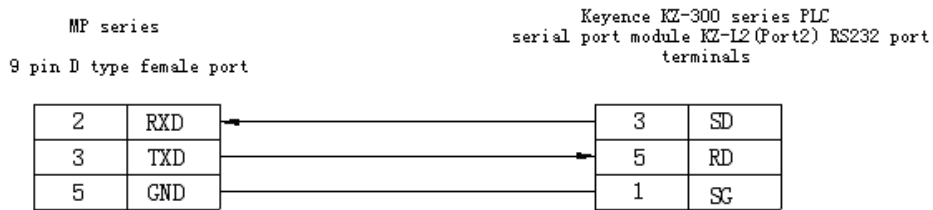
Suitable model: MP330、MP330-S、MP360-L、MP760-T

(2) connect to Keyence KZ-300 series through serial port module KZ-L2 (Port1, RS232)



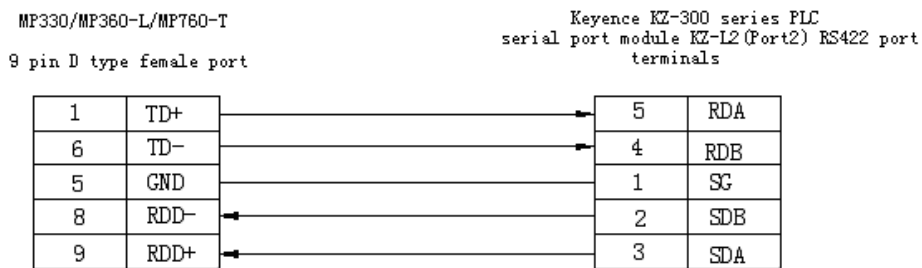
Suitable model: MP330、MP330-S、MP360-L、MP760-T

(3) connect to Keyence KZ-300 series through the serial port module KZ-L2 (Port2, RS232)



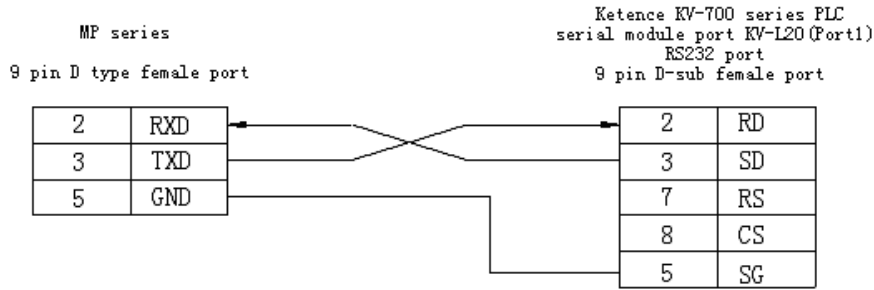
Suitable model: MP330、MP330-S、MP360-L、MP760-T

(4) Keyence KZ-300 series through the serial module KZ-L2 (Port2, RS422)



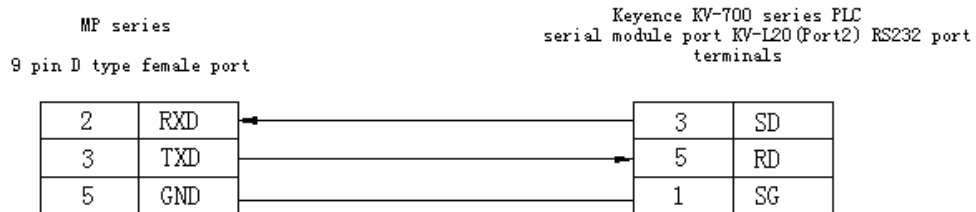
Suitable model: MP330、MP360-L、MP760-T

(5) Keyence KZ-70 series through the serial port module KV-L20 (Port1, RS232)



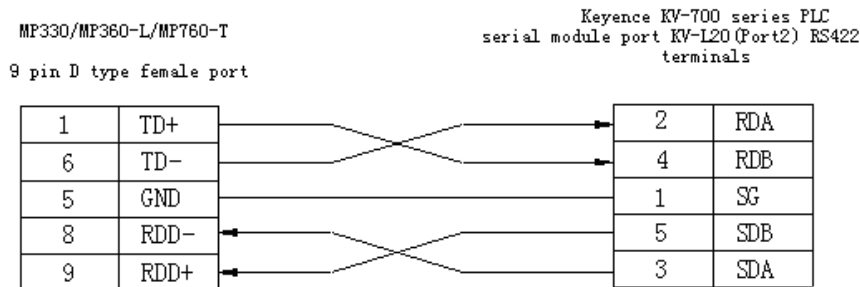
Suitable model: MP330、MP330-S、MP360-L、MP760-T

(6) connect to Keyence KZ-700 series through the serial port module KV-L20 (Port2, RS232)



Suitable model: MP330、MP330-S、MP360-L、MP760-T

(7) connect to the serial port module KV-L20 (Port2, RS422)



Suitable model: MP330、MP360-L、MP760-T

### 3-13. Emerson EC20 series

#### 1. software settings

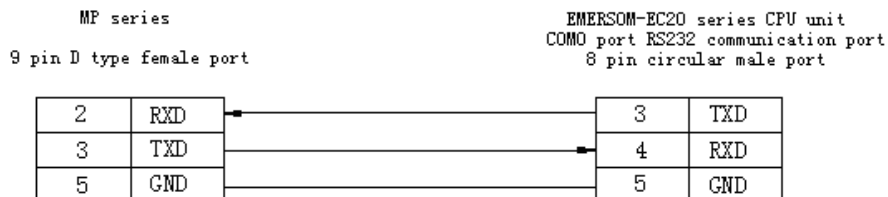
parameters	Recommended settings
MP communication port	Communication port
PLC communication port	Terminal port
Communication type	RS232
Communication distance	15m
Data bit	8
Stop bit	1
Verification mode	Even
Baud rate	19200
Modbus number	1

#### 2. Address

PLC address	Operational range	Data type	Description
X	0~377	Bit	External input coil
Y	0~377	Bit	External output coil
M	0~2047	Bit	Internal auxiliary coil
S	0~1023	Bit	Special auxiliary coil
T	0~255	Bit	Timer status
C	0~255	Bit	Counter coil
SM	0~9999	Bit	Special internal auxiliary coil
D	0~7999	Word/D Word	Data registers
SD	0~255	Word/D Word	registers
Z	0~15	Word/D Word	registers
T	0~255	Word/D Word	registers
C16	0~199	Word/D Word	16 counter
C32	200~255	Word/D Word	32 counter

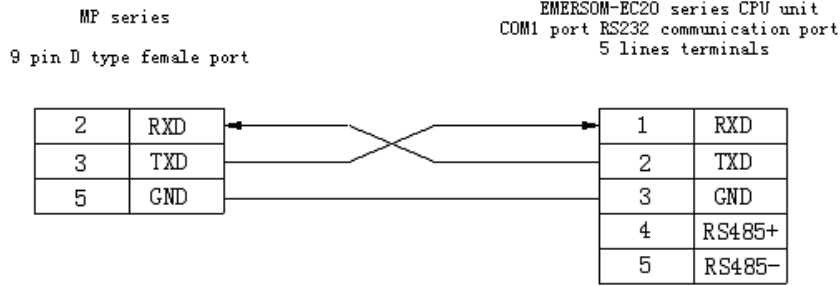
#### 3. Connection type

(1) connect to COM0 communication port (RS232)



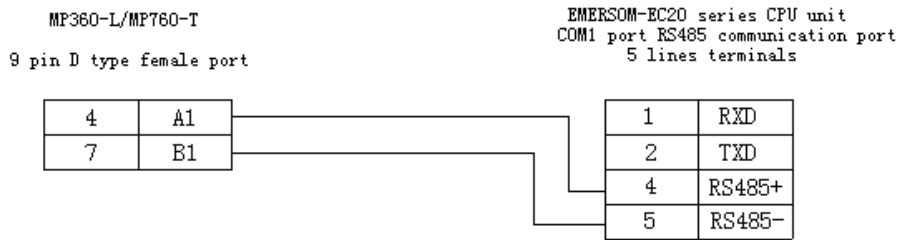
Suitable model: MP330、MP330-S、MP360-L、MP760-T

(2) connect to COM1 communication port (RS232)

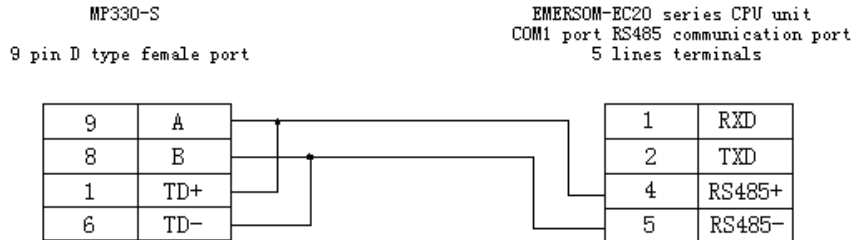


Suitable model: MP330、MP330-S、MP360-L、MP760-T

(3) connect to COM1 communication port (RS485)



Suitable model: MP360-L、MP760-T



Suitable model: MP330-S

**Notice:** The communication port ‘COM1’ of the Emerson EC20 series PLC contains a R232 and a RS485 communication port, and only one of the ports can be chosen. At the same time, the unused port can not be connected with other cables to avoid the communicational interference.

### 3-14. OPTO22 series

#### 1. software settings

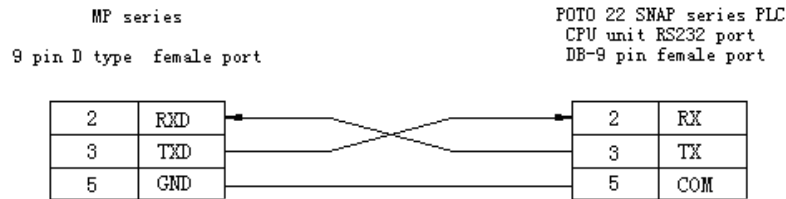
parameters	Recommended settings
MP communication port	Communication port
PLC communication port	Terminal port
Communication type	RS232
Communication distance	15m
Data bit	8
Stop bit	1
Verification mode	None
Baud rate	115200
Modbus number	1

#### 2. Address

PLC address	Operational range	Data type	Description
DI	0~9999	Bit	External input coil
DO	0~9999	Bit	External output coil
PID000~PID031	0~6	Bit	
I	0~9999	D Word	registers
F	0~9999	D Word	registers
AI	0~9999	D Word	registers
AO	0~9999	D Word	registers

#### 3. Connection type

##### (1) connect to CPU unit(RS232)

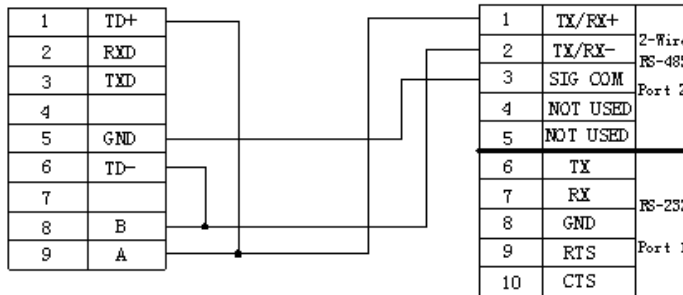


Suitable model: MP330、MP330-S、MP360-L、MP760-T

##### (2) connect to CPU unit RS232 or RS485 port (RS485)

MP330-S  
9 pin D type female port

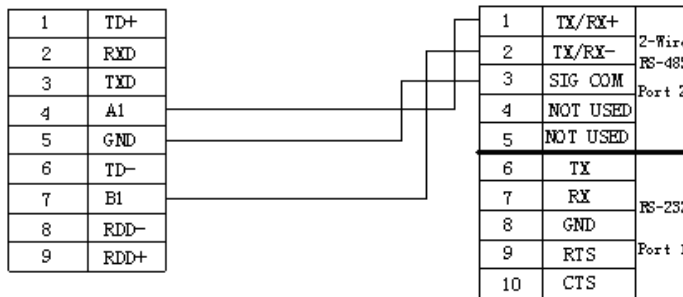
OPTO 22 SNAP series PLC  
CPU unit RS232 or RS485 port  
DB-9 pin female port



Suitable model: MP330-S

MP360-L/MP760-T  
TP series touch screen  
9 pin D type female port

OPTO 22 SNAP series PLC  
CPU unit RS232 or RS485 port  
DB-9 pin female port

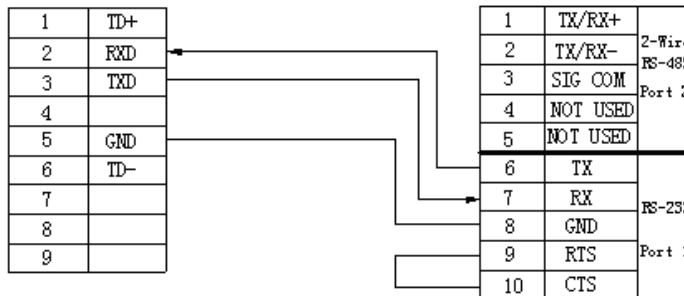


Suitable model: MP360-L, MP760-T

(3) connect to CPU unit RS232 or RS485 port (RS232)

MP series  
9 pin D type female port

OPTO 22 SNAP or PLC  
CPU unit RS232 or RS485 port  
DB-9 pin female port



Suitable model: MP330, MP330-S, MP360-L, MP760-T

### 3-15. SAIA-Burgess PCD series

#### 1. software settings

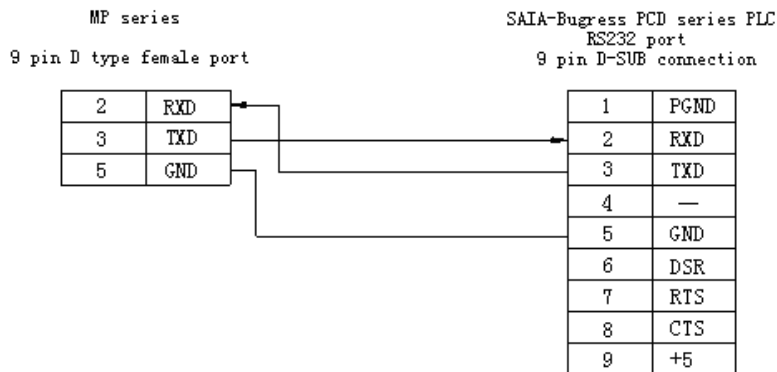
parameters	Recommended settings
MP communication port	Communication port
PLC communication port	Terminal port
Communication type	RS232
Communication distance	15m
Data bit	8
Stop bit	1
Verification mode	None
Baud rate	19200
Modbus number	1

#### 2. Address

PLC address	Operational range	Data type	Description
R	0~4095	D Word	Registers
T	0~1599	D Word	Registers
C	0~1599	D Word	Registers
F	0~8000	Bit	Auxiliary coil
I	0~1023	Bit	External input coil
O	0~1023	Bit	External output coil

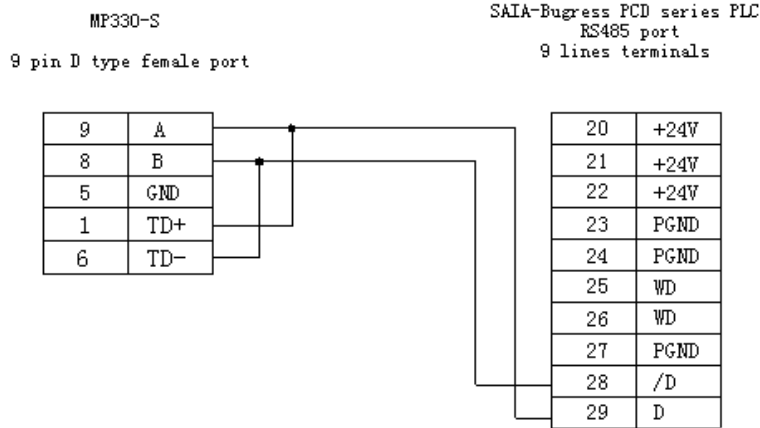
#### 3. Connection type

##### (1) connect to PGU (RS232)

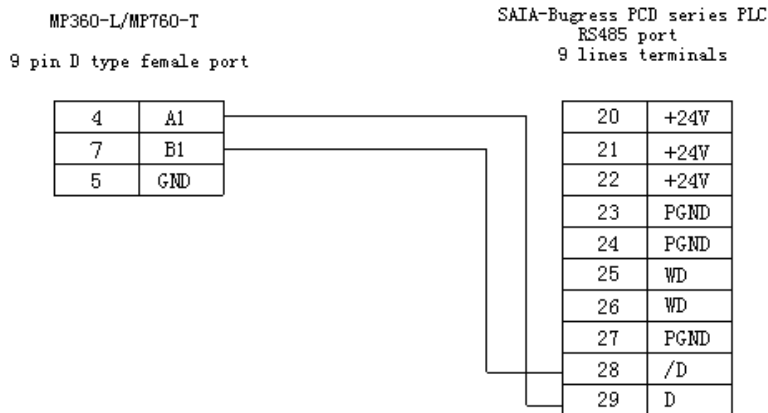


Suitable model: MP330、MP330-S、MP360-L、MP760-T

(2) connect to PGU (RS485)

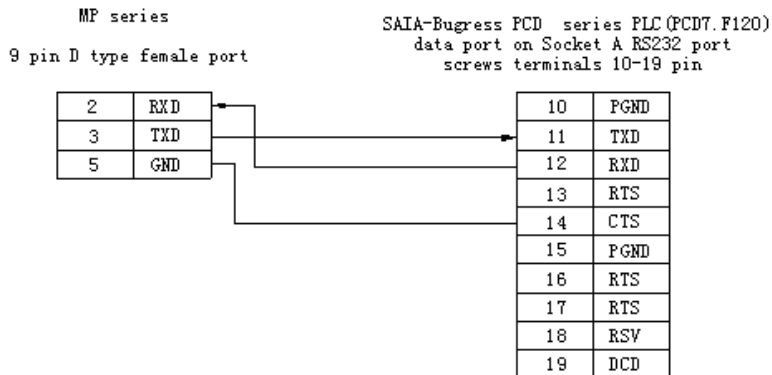


Suitable model: MP330-S



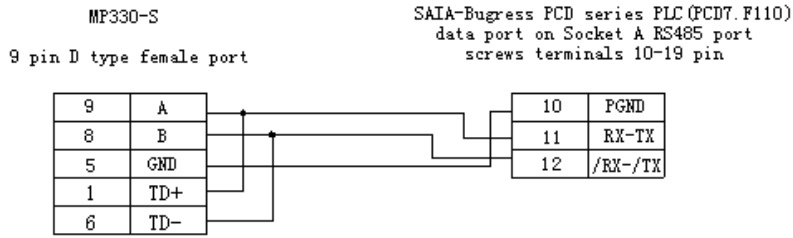
Suitable model: MP330、MP330-S、MP360-L、MP760-T

(3) connect to Socket A data port (PCD7.F120)

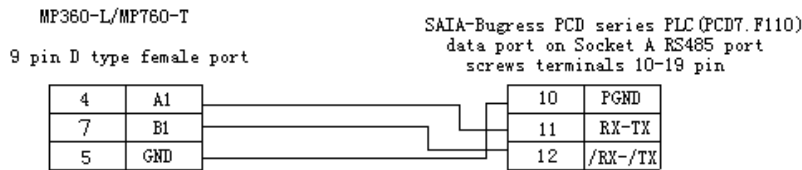


Suitable model: MP330、MP330-S、MP360-L、MP760-T

(4) connect to the serial data port of Socket A (PCD7.F110)

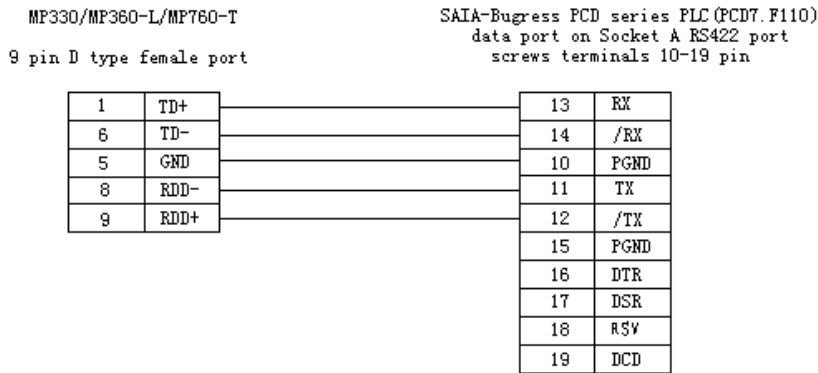


Suitable model: MP330-S



Suitable model: MP360-L、MP760-T

(5) connect to the serial data port of Socket A (PCD7.F110)

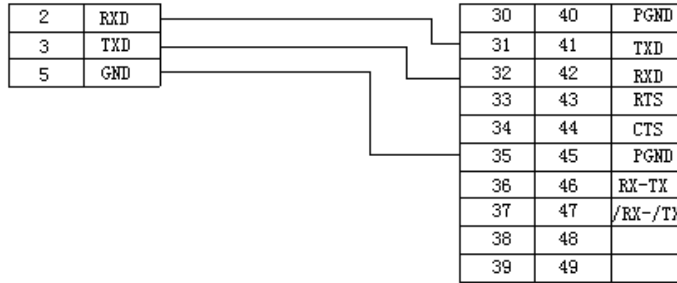


Suitable model: MP330、MP360-L、MP760-T

(6) connect to the serial data port of Socket B/B1 and B2 (PCD2.F520/F530)

MP series  
9 pin D type female port

SAIA-Bugress PCD series PLC (PCD2.F520/F530)  
serial data port on Socket B/B1 and B2 RS232 port  
screws terminals pin

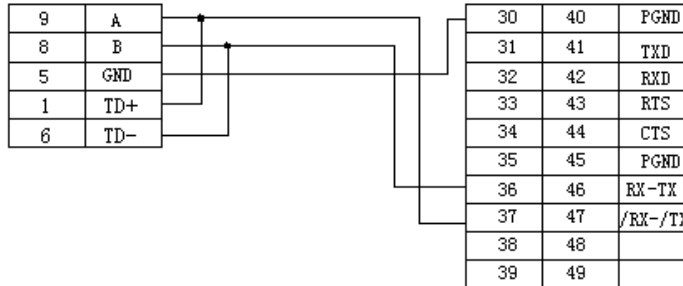


Suitable model: MP330、MP330-S、MP360-L、MP760-T

(7) connect to the serial data port of Socket B/B1 and B2 (PCD2.F520/F530)

MP330-S  
9 pin D type female port

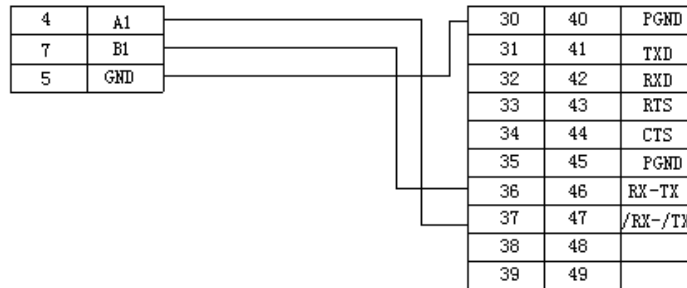
SAIA-Bugress PCD series PLC (PCD2.F520/F530)  
serial data port on Socket B/B1 and B2 RS485 port  
screws terminals pin



Suitable model: MP330-S

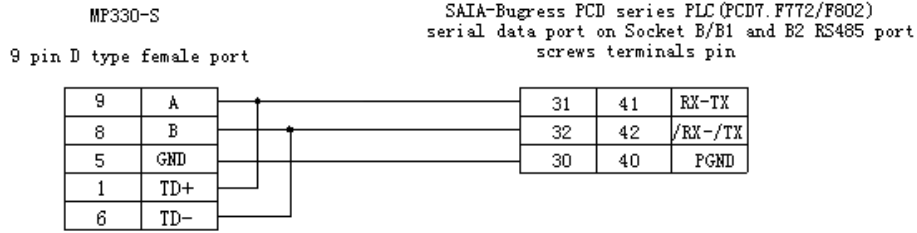
MP360-L/MP760-T  
9 pin D type female port

SAIA-Bugress PCD series PLC (PCD2.F520/F530)  
serial data port on Socket B/B1 and B2 RS485 port  
screws terminal pin

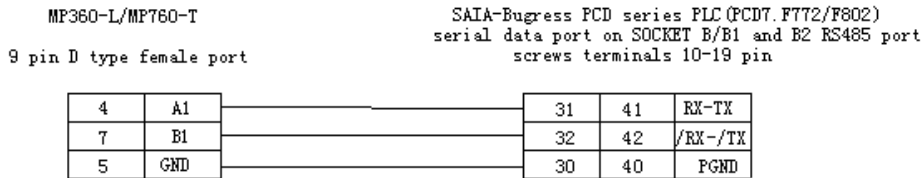


Suitable model: MP360-L、MP760-T

(8) connect to the serial data port of Socket B/B1 and B2 (PCD7.F772/F802)

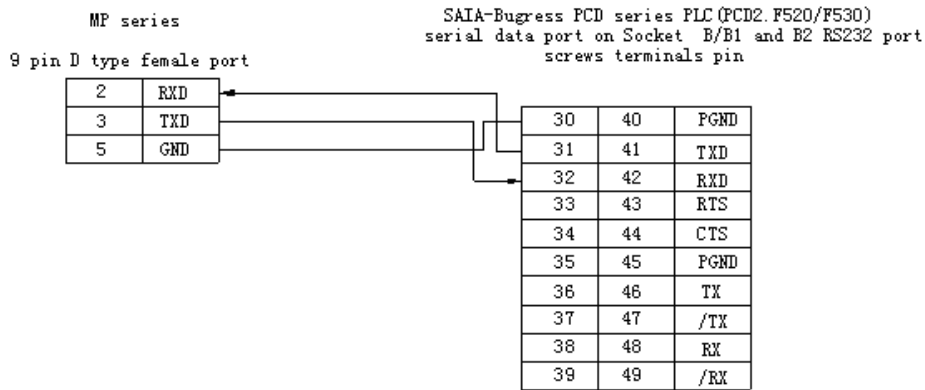


Suitable model: MP330-S



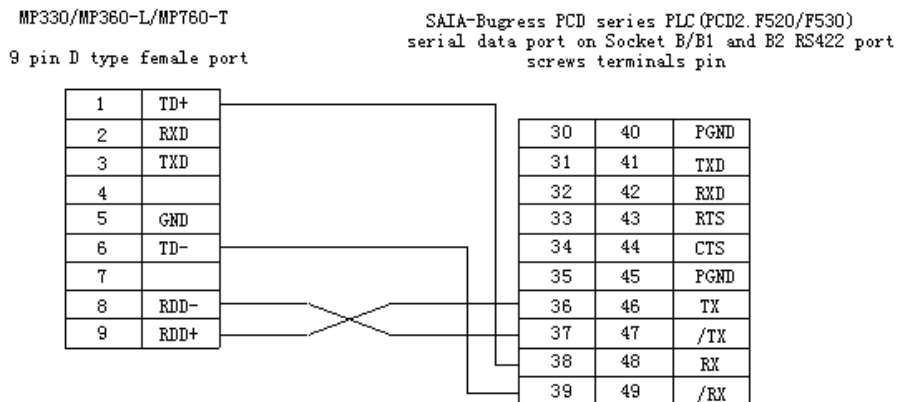
Suitable model: MP360-L、MP760-T

(9) connect to the serial data port of Socket B/B1 and B2 (PCD2.520/F530)



Suitable model: MP330、MP330-S、MP360-L、MP760-T

(10) connect to the serial data port of Socket B/B1 and B2 (PCD2.F520/F530)



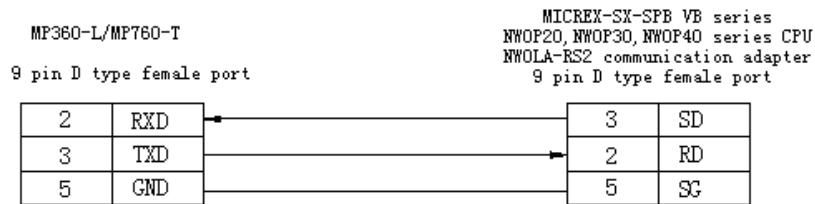
Suitable model: MP330、MP360-L、MP760-T



WL	0~255	Word/D Word	registers
WSM	32768~33023	Word/D Word	registers
D	0~8191	Word/D Word	registers
TW	0~511	Word/D Word	registers
CW	0~255	Word/D Word	registers
LD	0~10000	Word/D Word	registers
SD	32768~33023	Word/D Word	registers

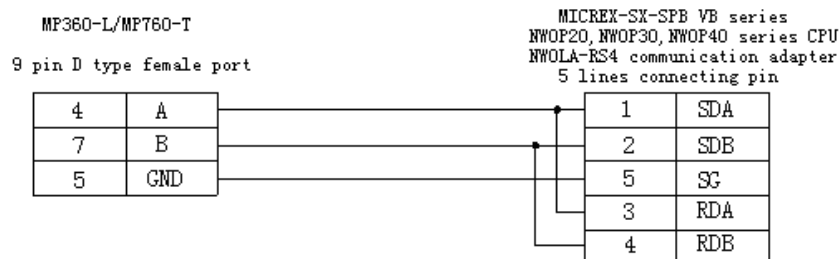
### 3. Connection type

#### (1) connect to NWOLA-RS2 (RS232)



Suitable model: MP360-L、MP760-T

#### (2) connect to NWOLA-RS4 (RS485)



Suitable model: MP360-L、MP760-T

### 3-17. Bosch Rexroth IndraControl L40 series

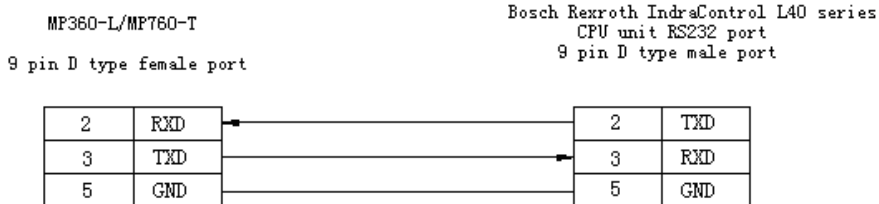
#### 1. Software settings

parameters	Recommended settings
MP communication port	Communication port
PLC communication port	Terminal port
Communication type	RS232
Communication distance	15m
Data bit	8
Stop bit	1
Verification mode	None
Baud rate	38400
Modbus number	1

#### 2. Address

PLC address	Operational range	Data type	Description
X	0~9999	Bit	External input and output coil
B	0~9999	Byte	Registers
W	0~9999	Word	Registers
D	0~9999	D Word	Registers
R	0~9999	D Word	Registers
SB	0~9999	Byte	Registers
SW	0~9999	Word	Registers
SD	0~9999	D Word	Registers

#### 3. Connection type



Suitable model: MP360-L、MP760-T

### 3-18. OEMax NX7 series

#### 1. Software settings

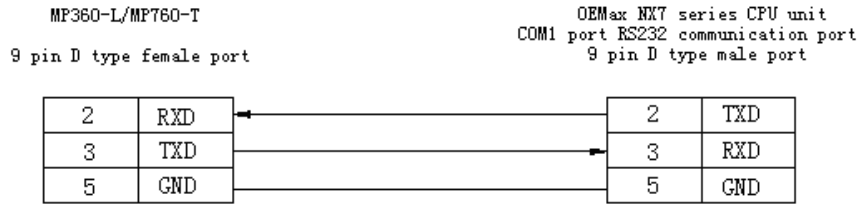
parameters	Recommended settings
MP communication port	Communication port
PLC communication port	Terminal port
Communication type	RS232
Communication distance	15m
Data bit	8
Stop bit	1
Verification mode	None
Baud rate	9600
Modbus number	1

#### 2. Address

PLC address	Operational range	Data type	Description
R	R000.00~R31.15	Bit	External input and output coil
	R32.00~R127.15	Bit	Special contacts
L	L000.00~L063.15	Bit	Value way contacts, it can be used as internal contacts without using for connection
M	M000.00~M127.15	Bit	Internal auxiliary contacts
K	K000.00~K127.15	Bit	Internal keeping contacts
F	F000.00~F015.15	Bit	Special contacts
TC	TC0~TC255	Bit	Timer/counter contacts
W	0~6000	Word/D Word	Data registers
R	0~127	Word/D Word	registers
L	0~63	Word/D Word	registers
M	0~127	Word/D Word	registers
K	0~127	Word/D Word	registers
F	0~15	Word/D Word	registers
SV	0~255	Word/D Word	Timer/counter set value area
PV	0~255	Word/D Word	Timer/counter current value
SR	0~511	Word/D Word	Special registers

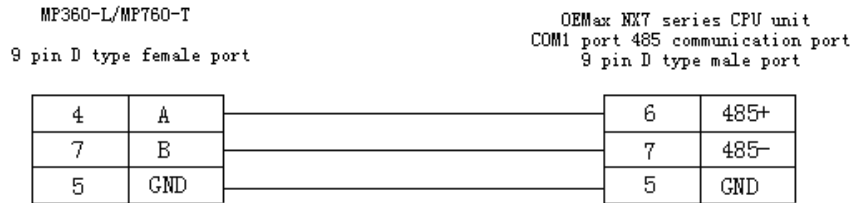
#### 3. Connection type

(1) connect to COM1 communication port (RS232)



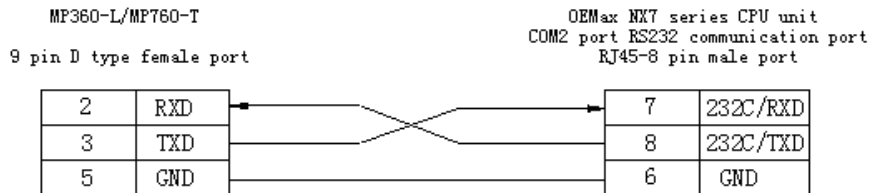
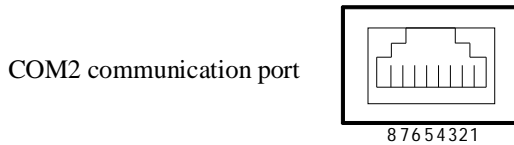
Suitable model: MP360-L、MP760-T

(2) connect to COM1 communication port (RS485)



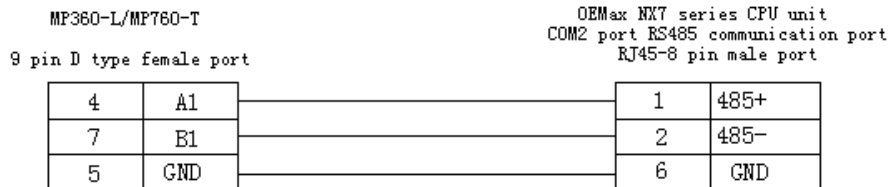
Suitable model: MP360-L、MP760-T

(3) connect to COM2 communication port (RS232)



Suitable model: MP360-L、MP760-T

(4) COM2 communication port (RS485)



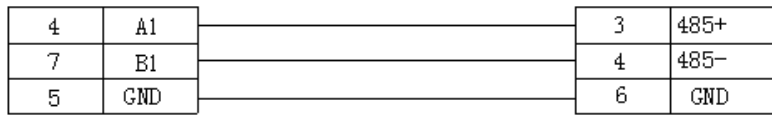
Suitable model: MP360-L、MP760-T

or

---

MP360-L/MP760-T  
9 pin D type female port

OEMax NX7 series CPU unit  
COM2 port RS485 communication port  
RJ45-8 pin male port



Suitable model: MP360-L、MP760-T

**Notice:** COM2 communication is RJ-45 standard 8 pin female. Pin 1 RS485+ and pin 3 RS485+ are connected inside together, and the pin 2 RS485- and pin 4 RS485- are also connected inside together.

**XINJE**

**XINJE Electric Co., Ltd.**

4th Floor, Building 7th, No.100

Dicui Rd, Wuxi, China

Tel: 86-0510-85134139

Fax: 86-0510-85111290

www.xinje.com

Email: [cheerfiona@gmail.com](mailto:cheerfiona@gmail.com)