

XINJE Electronic Co., Ltd.

XP330 PLC、HMI integration

User manual

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Catalog

Chapter 1 Introduction of XP330

1-1: Performance

1-2: General specification

1-3: Each part's name

1-4: Function and specification of HMI

1-5: Function and input/output specification of PLC

1-6: Connection chart of program cable

1-7: Size and installation

Chapter 2 HMI project screen's editing

Chapter 3 PLC program and application

Chapter 1 Introduction of XP330

1-1: Performance

- ◆ Gather logic control、 analog input/output、 HMI in one body
 - Digital input: 10 points / optical coupling insulation
 - Digital output: 8 points / relay
 - Analog disposal: XP-BD-2PT2AD、 XP-BD-2TC2PID、 XP-BD-4AD.....Many BD modules can be collocated freely.
 - HMI screen editing is simple and has strong function
- ◆ LCD display: 192×64 pixels (3.7inch); LCD's life can reach 0.5 million hours
- ◆ There are 26 function keys
- ◆ The buttons are delicacy and precise
- ◆ Program port is designed to have many functions: HMI and PLC use the same program cable when programming
- ◆ Water-proof grade fits IP65
- ◆ With compact structure, it saves large space of the electric-control tank
- ◆ The appearance is simple and fashion

1-2: General specification

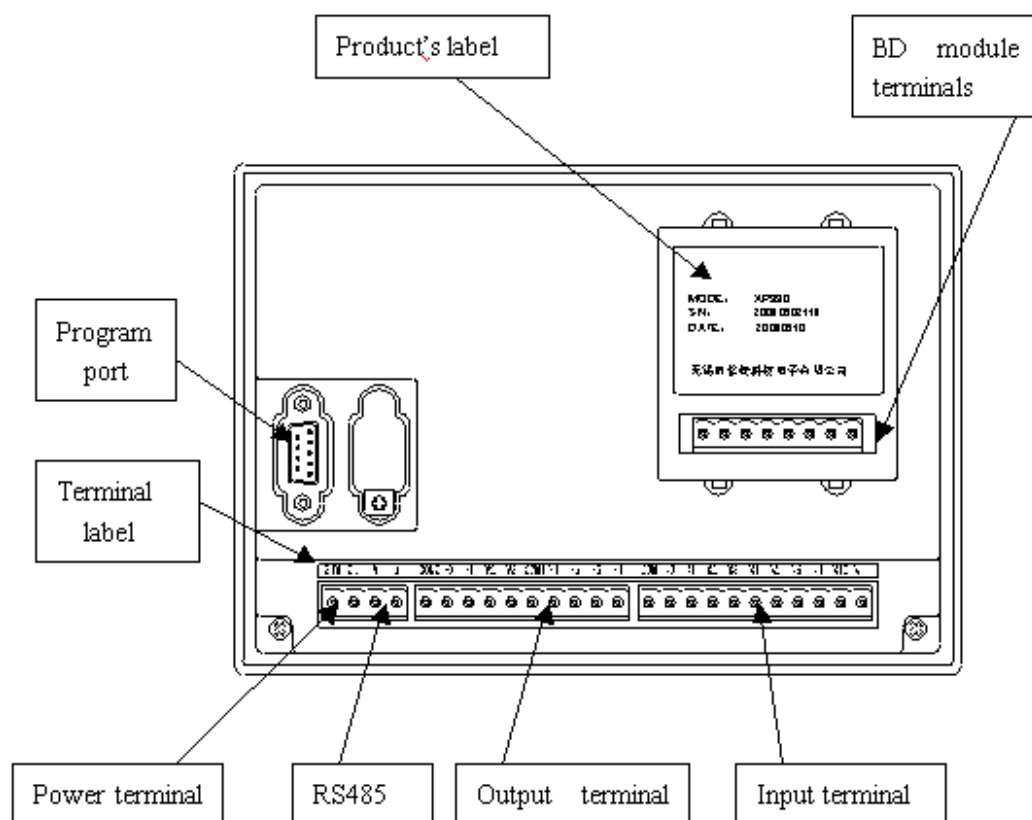
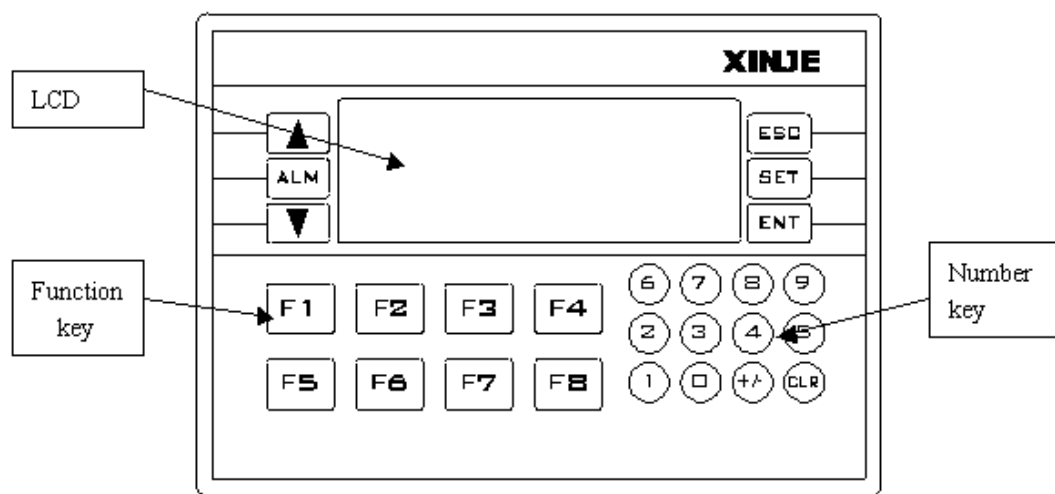
1: Electric specification

Input voltage	DC12V-DC24V
Power	Lower than 10W (TYP2.0W)
Allow momentary power cut	Less than 20ms
Voltage endurance	AC1000V-10MA 1 Min. (Between signal and ground)
Insulated resistance	DC500V-about 10M Ω (Between signal and ground)











2. Environment condition

Operate temperature	0~50 $^{\circ}$ C
Save temperature	-10~60 $^{\circ}$ C
Environment temperature	20~85% (No dew)
Vibration resistance	10~25Hz(X,Y,Z direction 2G per 30 min)
Resist interfere	Voltage noise: 1000Vp-p
Atmosphere	No canker gas
Protect configuration	Fits IP65F

1-3: Each part's name



Key's basic function table

Key	Basic function
	No matter what status the display is, once press this key, it will go back to the system's initial screen. System's initial screen is appointed when the user designs the screen (The defaulted value is No.1 screen). Generally, set the main menu or the screen which is used most frequently to be the initial screen.
	Turn the screen to the previous page
	Turn the screen to the next page
	Press this key to start modifying register's value, the current register window which is being modifying will display in obverse color. Also the modifying bit displays glittering. If the current screen has no register set window component, carry on a no operation. Press [SET] key before [ENT], then the current modifying operation will be canceled and go on modifying the next data register.
	Write the modified data to the register, then go on modifying the next data register. When the current screen's last register is modified, exit modifying register status
	Alarm list key, after setting the alarm list function, press this key will fast switch to the alarm list screen.
	Clear the chosen area when modifying the register's data
	Set the data to be positive or negative when modifying the register's data.
	Number key (0-9), at the status of data setting, the number bit to be modified turns to the correspond key value.
	Common function key.

NOTE: Besides the common function, all the keys in the panel can be defined to have the following function

Any function among "Set ON"、"Set OFF"、"Inverse"、"Momentary ON"

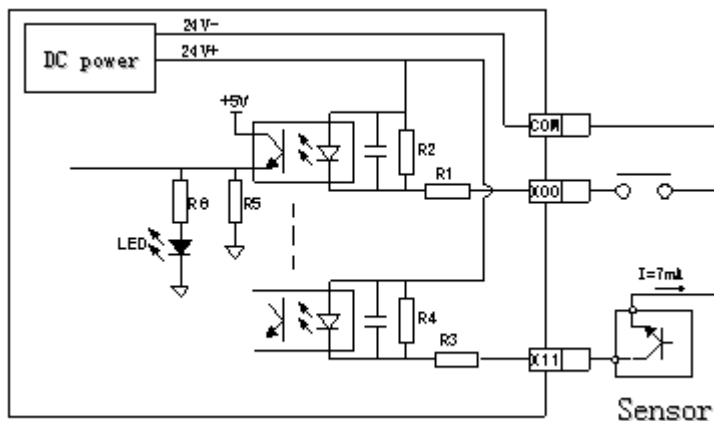
1-4: HMI function and specification

- ◆ Draw graph on the computer via edit tool OP20, input characters freely and set PLC address, download the screen with serial ports
- ◆ The communication protocol and the screen data will be download to the display together, needn't PLC to compile the program
- ◆ With password protection function
- ◆ With clock inside (optional)
- ◆ Text cartoon, dynamic display texts
- ◆ With alarm list function, display every line of the alarm information real time
- ◆ The key can be defined to be function key, and they can substitute some mechanic keys on the control tank
- ◆ The display's face is made of IP65, water-proof, oil-proof
- ◆ With backlight STN LCD display, can display 24 ASC×4 lines

1-5: PLC function and input、output specification

1-5-1: Input specification and layout

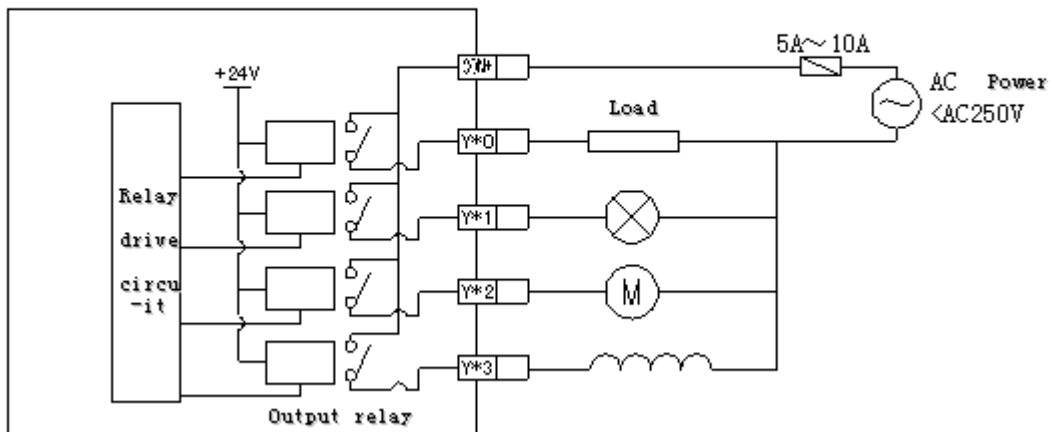
Input signal voltage	DC24V ± 10%
Input signal current	7mA/DC24V
Input ON current	Up to 4.5mA
Input OFF current	Below 1.5mA
Input response time	About 10ms
Input signal's format	Contacts input or NPN open collector transistor
Circuit insulation	Photo-electricity coupling insulation
Input action display	LED lamp lights when input ON



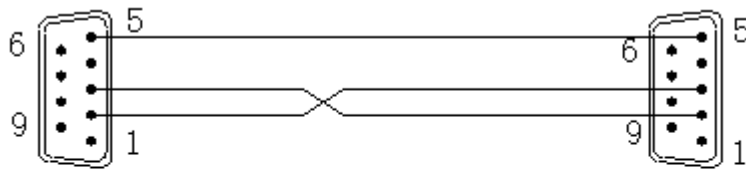
1-5-2: Input specification and layout

Interior power		Below AC250V、DC30V
Circuit insulation		Mechanic insulation
Action denote		LED indicate lamp
Max load	Resistance load	3A
	Induce load	80VA
	Lamp load	100W
Open circuit leak current		-
Mini load		DC5V 2mA
Response time	OFF→ON	10ms
	ON→OFF	10ms

To avoid burning PLC's basic panel layout caused by load short current etc., please set a 5A~10A fuse every four points



1-6: Program cable's connection chart



DB9pin (hole)

DB9pin (hole)

1-7: Size and installation

For the actual size, please see the following graph:

