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PRODUCTS CATALOG

Programmable Logic Controller
Human Machine Interface



2021 Edition

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HMI/ PLC/ IIoT V-BOX/ Servo/ IPC/ VFD Manufacturer

About WECON

WECON TECHNOLOGY Co.,LTD.

WECON TECHNOLOGY Co.,LTD. is a Chinese high technology company, headquartered in Fuzhou software park, Fujian. We independently develop, manufacture, support and sell Human Machine Interface (HMI), Programmable Logic Controller (PLC), Industrial Panel PC (IPC) and V-BOX for Industrial IoT.

Our products are widely used in Machinery, Metallurgy, Chemical, Oil & Gas and other industries. As of May 1st, 2018, WECON has been authorized 47 patents, including 4 utility patents, 41 software intellectual property patents, and 2 appearance patents.

WECON have over 40 domestic offices in major industrial cities, providing technical and sales services to more than 100 agents and numerous terminals throughout the country. Besides domestic market, WECON also expands International market actively. We export products to more than 120 countries and have many distributors such as India, Turkey, Italy, Poland and so on.

Concept: Easy Control, Easy Life
Values: Specialization, Branding, Internationalization
Mission: Creating value for our customers, staffs, suppliers and society

Culture

Founded WECON

Establish Foreign
Trade Department

Awarded as National
High-tech Enterprise

Awarded as Fujian
Little Giant Enterprise
in Science & Technology

Launch
V-BOX & V-NET
IIoT System

Priority into
IoT demonstration platforms
in Fujian

2006 2006-2009 2010 2012 2014 2015 2016 2016 2017 2018 2019

Launch LEVI Series HMI

Launch LX Series PLC

Launch high-end
PI Series HMI

Launch Wecon Smart APP

Awarded as Fujian
Technology Enterprise

PI9000 SERIES

Super Size High Resolution

Cortex A9 1.4GHz

Aluminum Body

All Metal Design, with Nobility



TFT

High Definition

High Resolution

16000k colors

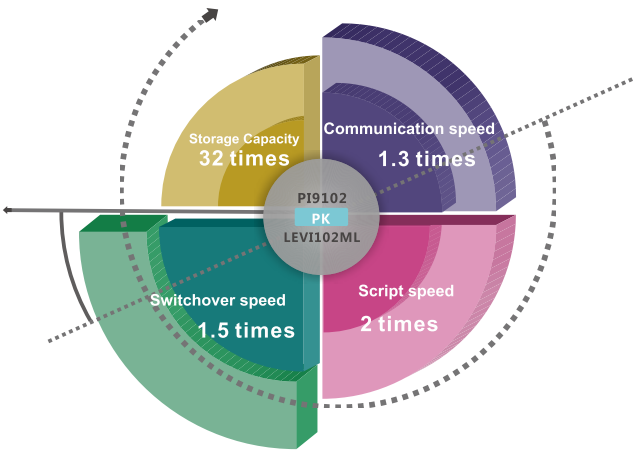
Full view LCD screen

1920 X 1080 pixels



PI8000 SERIES

High-end Configuration >>



CORTEX A8 CPU

- Flash 2GB EMMC
- 32GB SD card, 64GB USB Flash Drive supported
- RS232/RS485/RS422 supported
- Ethernet, CANBus,USB2.0 (USB Host; USB Client) port supported

HTML5 as the background language, breaks through the traditional restrictions.



Exquisite Graphics

Rich library of charts ,meters.



Multi-language

Up to 8 language that could be displayed on the screen.



Multi-communication Port

Up to 5 serial ports, Ethernet port ,CAN protocol, Modbus,over 200 protocols supported.

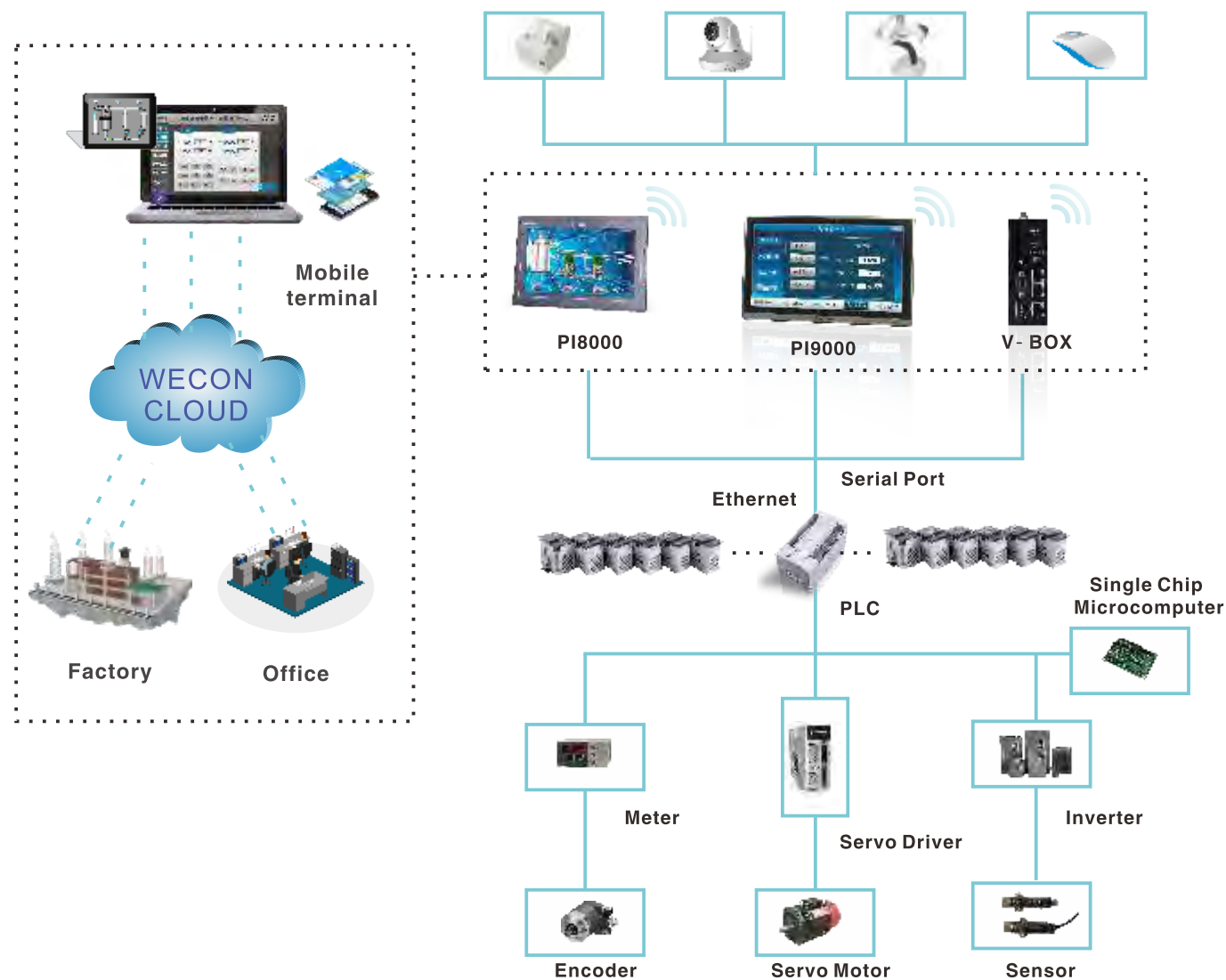


External Devices

Micro-printer, Barcode scanner, WIFI, USB,USB scanner etc.

INTELLIGENT

Cloud Platform >>



Cloud Monitoring

Wecon Smart App for Android/IOS devices supports multiple users operating simultaneously on PI 8000/9000 Series HMI.



SECURITY

Cloud Message



In case of emergency, notification could be sent to your mobile and you can deal with it immediately.

Remote Debug over cloud



Through connection over cloud, PLC and HMI could be connected to PC for online debugging and programming.

Security System >>



Access Authorization

Access authorization can be set to each button to protect against unauthorized operation or misoperation. Roles are to be assigned to users to facilitate management.



Operation Record

- To record each step of operations from authorized users.
- Timestamp, buttons pressed and depressed, everything would be logged.
- Log files are stored in database format for data analyzation to improve management.



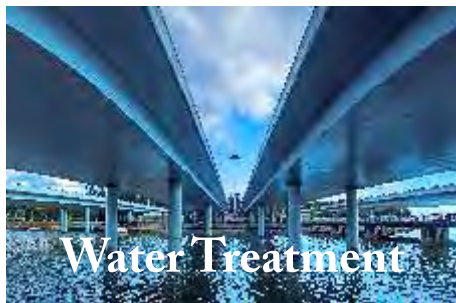
Security Management

- Programmer passwords can protect your project from unauthorized access or reverse engineering.
- Project passwords protect your project files against uploading and running on unauthorized HMIs.



Password Security

Project passwords, access passwords, administration passwords and remote passwords are working together to ensure secure access.



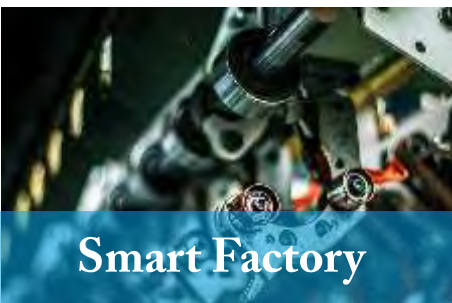
Water Treatment



Smart Breeding



Vehicle



Smart Factory



Security

PI3000ie SERIES

NEW UPGRADE
MORE FLUENT TOUCH

- Front indicator light
- Enhance software security
- Less boot time
- Better waterproof & cooling



Advanced CPU



Faster screen switch



Better communication stability

PI3043ie/ PI3035ie/ PI3150ie/ are coming soon

PI3000ie SPECIFICATIONS

Basic HMI



Model		PI3070ie	PI3102ie
Item		Specifications	
CPU		Cortex A35 1.2GHz	
Touch Screen		High precision four-wire resistive	
Display	Screen Size	7 Inch	10.2 Inch
	Resolution	800*480	1024*600
	Brightness	250 cd/m²	350 cd/m²
	Backlight Type	LED	
	Backlight Life Time	50,000 Hours	
	Colors	16,000k colors	
Storage	Flash	128MB	
	RAM	DDRII 64MB	
	SD Card	NA	
Ports	USB	USB Host: USB 2.0 x 1; USB Client: USB 2.0 x 1	
	Port Number	1 Physical Serial Port	
	Serial Port	COM1 : RS232, RS422 / RS485 (2 in 1)	
	Ethernet	N/A	
Permanent Calendar		Built-in	
Power	Power Supply	24V DC(12~28V DC)	
	Power Consumption	< 15W	
Dimension	Enclosure	PC+ABS	
	Dimension(mm)	201.2W*147.2H*39.0D	272.0W*191.0H*41.5D
	Mounting Size (mm)	192.0W*138.0H	260.0W*179.0H
	Weight (KG)	0.52	1.02
Environment	Protection	IP65 (Front panel)	
	Temperature	Storage: -20℃~70℃ ; Working: -10℃~60℃	
	Humidity	10 ~ 90%RH(Non-condensing)	
	Vibration Resistance	10 ~ 25 Hz (X, Y, Z direction 2G/30 minutes)	
CE Certification		CE Marked	
FCC Certification		FCC Class A	
Programming Software		PI Studio	
Remote Control		N/A	

PI3000i SPECIFICATIONS

Basic HMI



Model

PI3070i Pi3070i-N PI3102i PI3070i-SL PI3070i-N-SL

Item		Specifications					
CPU		Cortex A7 528MHz					
Touch Screen		High precision four-wire resistive					
Display	Screen Size	7 Inch		10.2 Inch		7 Inch	
	Resolution	800*480		1024*600		800*480	
	Brightness	250 cd/m²		350 cd/m²		250 cd/m²	
	Backlight Type	LED					
	Backlight Life Time	50,000 Hours					
	Colors	16,000k colors					
Storage	Flash	128MB					
	RAM	DDRIII 128MB					
	SD Card	NA					
	USB	USB Host: USB 2.0 x 1 ; USB Client: USB 2.0 x 1					
Ports	Port Number	1 Physical Serial Port					
	Serial Port	COM1 : RS232, RS422 / RS485(2 in 1)					
	Ethernet	N/A	YES	YES		N/A	YES
Permanent Calendar		Built-in					
Power	Power Supply	24V DC(12~28V DC)					
	Power Consumption	< 8W		< 10W		< 8W	
Dimension	Enclosure	ABS					
	Dimension(mm)	201.2W*147.2H*39.0D		272.0W*190.0H*41.5D		191.2W*137.2H*41.0D	
	Mounting Size (mm)	192.0W*138.0H		260.0W*179.0H		172.0W*111.0H	
	Weight (KG)	0.51 / 0.74		1.00 / 1.31		0.52 / 0.74	
Environment	Protection	IP65 (Front panel)					
	Temperature	Storage: -20℃~70℃ ; Working: -10℃~60℃					
	Humidity	10 ~ 85%RH(Non-condensing)					
	Vibration Resistance	10 ~ 25 Hz (X, Y, Z direction 2G/30 minutes)					
CE Certification		CE Marked					
FCC Certification		FCC Class A					
Programming Software		PI Studio					
Remote Control		N/A					

PI3000 SPECIFICATIONS

Basic HMI



Model

PI3070N PI3102H

Item		Specifications	
CPU		Cortex A8 600MHz	
Touch Screen		High precision four-wire resistive	
Display	Screen Size	7 Inch	10.2 Inch
	Resolution	800*480	1024*600
	Brightness	300 cd/m²	350 cd/m²
	Backlight Type	LED	
	Backlight Life Time	50,000 Hours	
	Colors	16,000k colors	
Storage	Flash	128MB	
	RAM	DDRIII 128MB	
	SD Card	Compatibl e	
Ports	USB	USB Host: USB 2.0 x 1 ; USB Client: USB 2.0 x 1	
	Port Number	2 Physical Serial Ports	
	Serial Port	COM1	RS232/RS422/RS485
		COM2	RS232/RS485
		COM3	--
	Ethernet	YES	
Permanent Calendar		Built-in	
Power	Power Supply	24V DC(12~28V DC)	
	Power Consumption	<10W	
Dimension	Enclosure	ABS	
	Dimension(mm)	200.1W*146.0H*36.5D	271.8W*190.4H*41.2D
	Mountin g Size (mm)	192.0W*138.0H	
	Weight (KG)	0.6	1.2
Environment	Protection	IP65 (Front panel)	
	Temperature	Storage: -30℃~70℃ ; Working: -10℃~60℃	
	Humidity	10 ~ 90%RH(Non-condensing)	
	Vibration Resistance	10~25Hz (X,Y,Z direction 2G/3D minutes)	
CE Certification		CE Marked	
FCC Certification		FCC Class A	
Programming Software		PI Studio	
Remote Control		N/A	

PI8000 SPECIFICATIONS

Advanced HMI




Model	PI8070	PI8102H	PI8104
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Item			Specifications		
CPU			Cortex A8 600MHz		
Touch Screen			High precision four-wire resistive		
Display	Screen Size		7 Inch	10.2 Inch	10.4 Inch
	Resolution		800*480	1024*600	800*600
	Brightness		300 cd/m²	350 cd/m²	300 cd/m²
	Backlig ht Type		LED		
	Backlight Life Time		50,000 Hours		
	Colors		16,000k colors		
Storage	Flash		2GB EMMC		
	RAM		DDRIII 512MB		
	SD Card		Compatible		
I/O Ports	USB		USB Host:USB 2.0 x 1 USB Client:USB 2.0 x 1		
	Serial Port	COM1	RS232,RS422/RS485		
		COM2	RS232,RS485		
		COM3	RS485		
	Ethernet		YES		
	CAN		YES		
Permanent Calendar			Built-in		
Power	Power Supply		24V DC(12-28V DC)		
	Power Consumption		<10W		
Dimension	Enclosure		ABS		
	Dimension(mm)		200.1W*146.0H*36.5D	271.8W*190.4H*41.2D	298.0W*223.0H*53.5D
	Mounting Size(mm)		192.0W*138.0H	260.0W*179.0H	288.0W*212.0H
	Weight(KG)		0.6	1.2	1.9
Environment	Protection		IP65 (Front panel)		
	Storage Environment		Storage : -30℃ ~ 70℃; Working: -10℃ ~ 60℃		
	Working Environment		10 ~ 90%RH(Non-condensing)		
	Vibration Resistance		10 ~ 25 Hz (X, Y, Z direction 2G/30 minutes)		
CE Certificatio n			CE Marked		
FCC Certification			FCC Class A		
Software			PI Studio		
Remote Control			Optional		

PI9000 SPECIFICATIONS

High-end HMI



Model	PI9150
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Item		Specifications	
CPU		Cortex A9 1.4GHz	
Touch Screen		High precision four-wire resistive	
Display	Screen Size	15 Inch	
	Resolution	1920*1080	
	Brightness	250 cd/m²	
	Backlight Type	LED	
	Backlight Life Time	50,000 Hours	
	Colors	16,000k colors	
Storage	Flash	4GB EMMC	
	RAM	DDRIII 512MB	
	SD Card	Compatible	
I/O Ports	USB		USB Host:USB 2.0 x 1 USB Client:USB 2.0 x 1
	Serial Port	COM1	RS232, RS422/RS485
		COM2	RS232, RS485
		COM3	RS485
	Ethernet		YES
Permanent Calendar		Built-in	
Power	Power Supply	24V DC(12-28V DC)	
	Power Consumption	<20W	
Dimension	Enclosure	Aluminum	
	Dimension(mm)	402.9W*253.2H*47.0D	
	Mounting Size(mm)	394.0W*244.0H	
	Weight (KG)	3.1	
Environment	Protection	IP65 (Front panel)	
	Storage Environment	Storage:-30℃ ~ 70℃; Working: 0℃ ~ 50℃	
	Working Environment	10 ~ 90%RH(Non-condensing)	
	Vibration Resistance	10 ~ 25 Hz (X, Y, Z direction 2G/30 minutes)	
CE Certification		CE Marked	
FCC Certification		FCC Class A	
Software		PI Studio	
Remote Control		Optional	

LEVI SERIES SPECIFICATIONS

Standard HMI				
				
Model	LEVI2035T	LEVI2043T	LEVI2043E	LEVI2043E-N

Item		Specifications				
General	Screen Size	3.5 Inch	4.3 Inch	4.3 Inch	4.3 Inch	
	Resolution	320*240	480*272	480*272		
	Colors	260k colors				
	Brightness	400 cd/m²				
	Backlight Type	LED				
	Touch Screen	High precision four-wire resistive				
	Backlight Life Time	50,000 hours				
	CPU	32-bits 300MHz RISC				
	Storage	128M FLASH + 128M DDRAM				
	RTC	256KB+real time clock				
	Printer Port	Serial Port Printer				
	USB Port	Micro-USB	USB	Micro-USB		
	SD Card	--				
	COM	COM1	RS422/RS485			
		COM2	RS232			
		COM3	--			
Power	Rated Power	< 5W				
	Power Supply	DC24V (12 ~ 28V DC)				
	Allowed Power Fail	< 5ms				
	Insulation	>20MΩ 500VDC				
	Withstand Voltage	500V AC <1 minute				
Dimension	Enclosure	ABS, Black				
	Dimension (mm)	96.0W*81.0H*33.0D	141.4W*85.4H*38.9D	141.0W*86.0H*30.3D		
	Mounting Size	91.0W* 73.0H	131.0W*79.0H	131.0W* 78.0H		
	Net / Gross (KG)	0.14/0.26	0.23 / 0.39	0.19/0.30		
Environment	Temperature	Working Temperature : -10 ~ 60℃ ; Storage Temperature : -20 ~ 70℃				
	Humidity	10 ~ 85%RH (Non-condensing)				
	Vibration	10 ~ 25 Hz (X, Y, Z direction 2G/30 minutes)				
	Cooling	Air Cooling				
Extension	Ethernet	--	--	--	YES	
Protection		IP65 ((Front panel))				
CE Certification		CE Marked				
FCC Certification		FCC Class A				

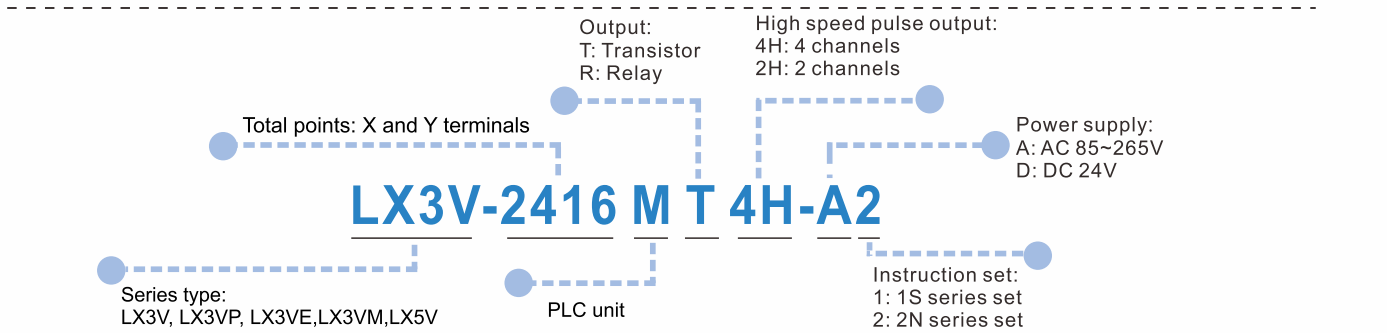
LEVI SERIES SPECIFICATIONS

Standard HMI	
	
Model	LEVI2070D LEVI700ML

Item		Specifications	
General	Screen Size	7 Inch	
	Resolution	800*480	
	Colors	260k colors	
	Brightness	300cd/m ²	
	Backlight Type	LED	
	Touch Screen	High precision four-wire resistiv e	
	Backlight Life Time	50,000 hours	
	CPU	32-bits 300MHz RISC	
	Storage	128M FLASH + 128M DDRAM	
	RTC	256KB	
	Printer Port	Serial port Printer	
	USB Port	USB Host + USB Client	
	SD Card	--	
	COM	COM1	RS422/RS485
		COM2	RS232
		COM3	--
Power	Rated Power	< 8W	
	Power Supply	DC24V (12 ~ 28V DC)	
	Allowed Power Fail	< 5ms	
	Insulation Resistance	> 20MΩ 500V DC	
	Withstand Voltage	500V AC <1 minute	
	Enclosure	Grey, PC+ABS	ABS,Black
Dimension	Dimension (mm)	201.0W*147.0H*39.0D	201.0W*146.0H*36.0D
	Mounting Size (mm)	192.0W*138.0H	192.0W*138.0H
	Net / Gross (KG)	0.5 /0.74	0.56 /0.80
	Net / Gross (KG)	0.5 /0.74	0.56 /0.80
Environment	Temperature	Working Temperature : -10 ~ 60℃ ; Storage Temperature : -20 ~ 70℃	
	Humidity	10 ~ 85%RH (Non-condensing)	
	Vibration Resistance	10 ~ 25 Hz (X、 Y、 Z direction 2G/30 minutes)	
	Cooling	Air cooling	
	Cooling	Air cooling	
Protection		IP65 (Front panel)	
CE Certification		CE Marked	
FCC Certification		FCC Class A	

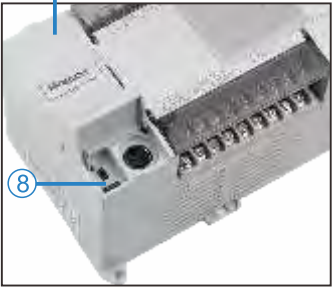
PROGRAMMABLE LOGIC CONTROLLER

PROGRAMMABLE LOGIC CONTROLLER



PLC Introduction

1. Universal Power Supply Design —85~264V AC 50/60 HZ, wide range power supply.
2. All core components used are from well-known global brands.
3. The ‘Three layer coating’ ensures the reliability in harsh environment.
4. Flash memory data storage.
5. 200 KHz high speed.
6. Com port – 600 TVS, static surge protection.
7. RS485 communication port ensures the reliability of communication in vibration.
8. Reliable and stable high speed USB port for programming download/monitor.

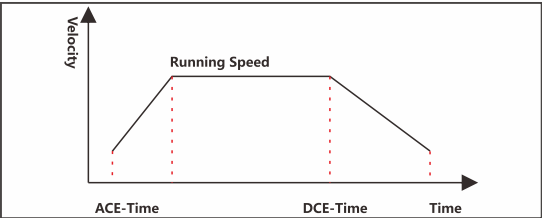


High Speed Pulse Input

- External high speed pulse input supports Encoder (AB phase) input, pulse + direction mode input; Maximum support for 200 KHz pulse signal input.
- AB phase signal can support configurable frequency settings (i.e. x1, x2 or x4).

High Speed Pulse Output

- Supports high speed pulse signal output with acceleration and deceleration.
- The acceleration and deceleration time are configurable.
- Pulse modulation output one by one.



Program Encryption

It prevents users from illegal copy and tamper of the program.

Subprogram Encryption

Partial encryption function of the ladder diagram can be realized, and it can encrypt subprograms and interrupts. This function enables protection of important subprogram segment. By choosing the subprogram and setting the password, it can be encrypted. Once it has been encrypted than the subprogram is in “subprogram encryption” state and the encrypted contents will not be displayed.

Ladder Encryption Methods

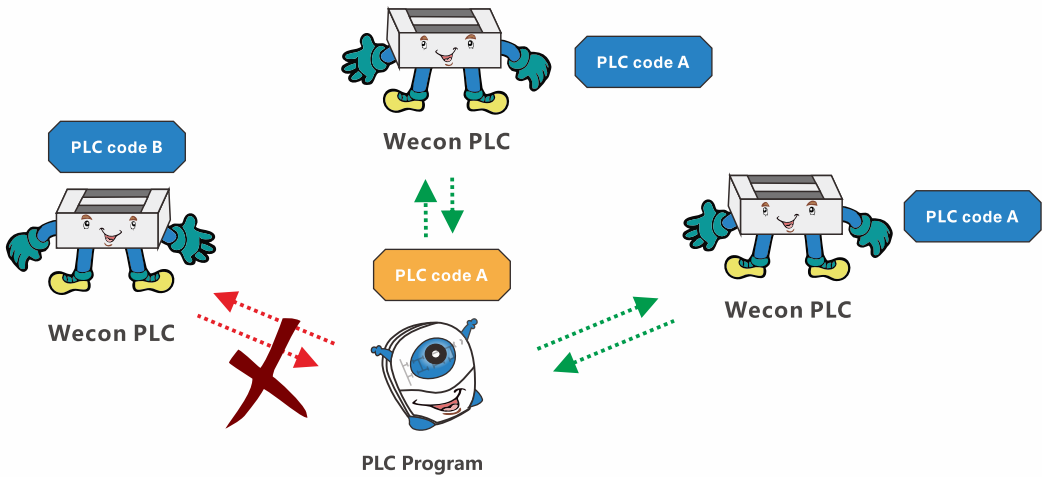
The PLC encryption includes project encryption, upload password and download password. All of those passwords can be used for the entire ladder program.

All these kinds of passwords are independent from each other (user need to set password separately during each of these operations), the password can be same or different to ensure copyright of PLC program.



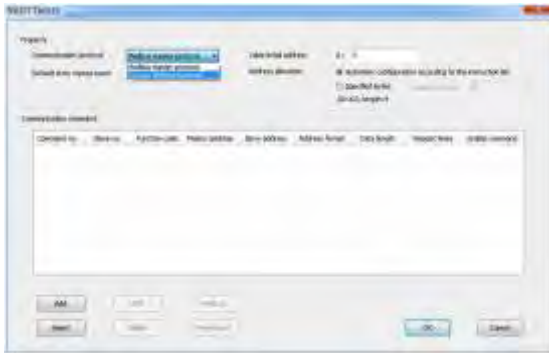
PLC Host and Program Encryption

For additional protection of the program, project building can be dedicated to the specified PLC model. PLC identification code and program identification code can be introduced. User can set the program identification code of the project and also can set a PLC identification code for the PLC. So, the software will compare the program identification code and PLC identification code at every attempt of the upload or download of the program and can be executed to only designated PLC.



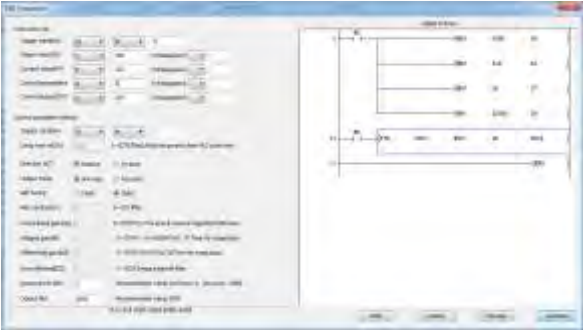
Modbus Listed Instruction

In the original MODBUS protocol, users must program RS instruction in ladder. But the editing process is quite cumbersome and imperfect. With the help of new method (RSLIST+RSLIST communication list), it becomes easier.



Features of PLC Wizard Function

- Modules monitor function guides the user to monitor the BFM data in real time. This function reduces customer dependency on module manuals.
- It guides the user to generate the ladder program with the corresponding content (i.e. instruction, modules, BD board, etc.). It saves customer's comprehension time and reduces error which may occur while editing ladder. Also it will help the user to create functioning ladder more quickly.



PID Operation Wizard Setting



LX-4AD Module Wizard Setting

APPLICATION

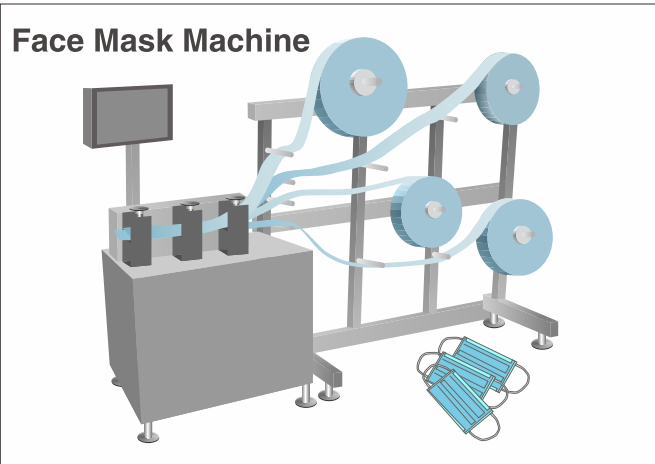
PLC LX3V Series



- Supports 2 BD modules and more expansion modules, as well as stabler operation.
- USB port supports much higher upload and download speed.
- Support PID control, floating point calculation.

Face mask machine includes main unit, feeder unit, welding unit, packing unit.
Pressing and slicing, dividing and transferring, earband welding, each part realizes semi-automatic and automated production, which is faster and more stable.
The core of the automatic control system is mainly composed of PLC, HMI, Servo, Stepper motor, photoelectric switch, contactor and relay.

Face Mask Machine

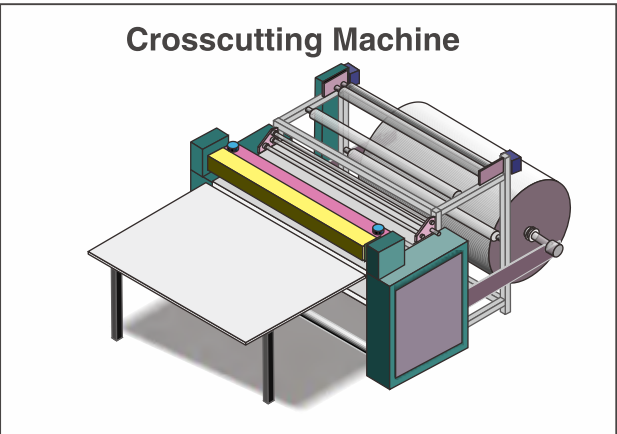


PLC LX3VE Series



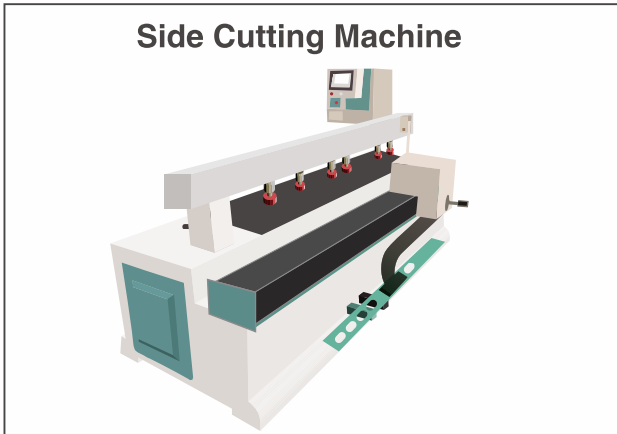
- Up to 4 channels each of 200 KHz high speed pulse outputs are supported, all 4 channels can work simultaneously.
- Supports 32k steps ladder diagram.
- Supports electronic CAM.
- Supports flying cut and rotary cut.
- Supports jitter pulse output.
- Supports S-type curve to meet special demands.

Crosscutting Machine



Crosscutting machine belongs to carton processing machinery. The crosscutting machine is used in the production line of the corrugated board. It is used for the cutting of the finished cardboard. The technical feature and equipment adjustment status directly affects the accuracy of the finished cardboard's cutting sizes and the appearance of the pressure line.

Side Cutting Machine



Side Cutting Machine is a CNC machine for punching of holes in the side of the plate type furniture. It is suitable for horizontal hole machining and horizontal slotting. It has features like, Infrared automatic induction, accurate detection of the hole position, accurate movement distance, low error, simple operation, eliminate the need of skilled workers, convenient and efficient.

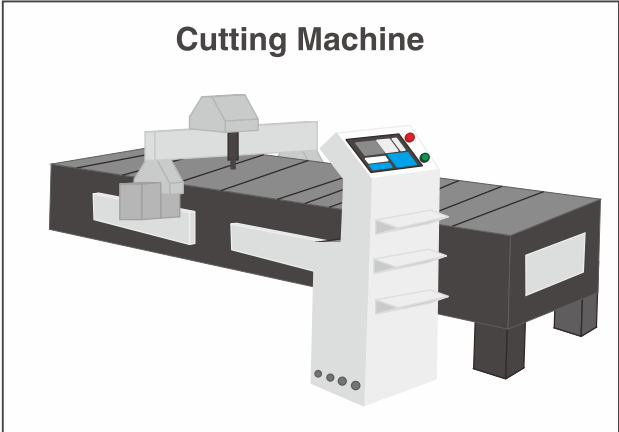
PLC LX3VM Series



- Up to 4 channels independent 200 KHz high speed pulse output are supported, 4 channels can be used simultaneously.
- Supports 32k steps ladder diagram.
- Three axis linear interpolation (Y0,Y1,Y2) and two axis circular interpolation are supported(Y0,Y1).
- Supports electronic CAM.
- Supports Jitter pulse output.

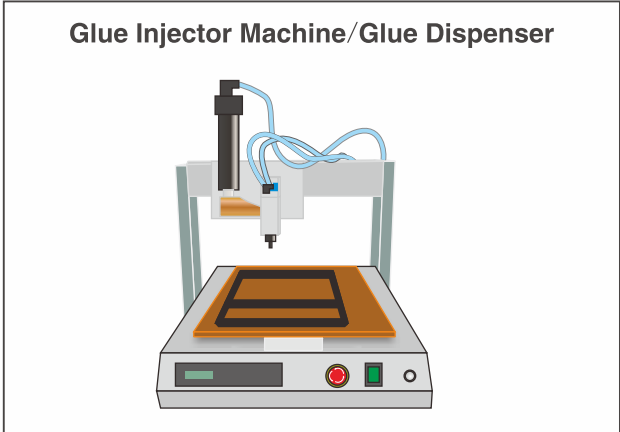
APPLICATION

Cutting Machine



Through the linear-circle interpolation function, the cutting machine realizes the multi axis path positioning control, improves cutting efficiency, quality and relieves the working intensity.

Glue Injector Machine/Glue Dispenser



Glue injector machine realizes multi-axis path positioning control through linear arc interpolation function and operate it according to the set path. It can be set to semi-automatic, fully automatic, or adjustment modes.

LX3V-2WT



- 2 channels weighing signal input.
- Hardware 24-bit AD input (2: 24-bit Resolution).
- Support 1~2400 Hz frequency conversion speed.
- Adjustable setting of Digital filter.
- Adjustable setting of Tare weight and Net weight.

Screw packaging machine is a typical equipment for vibrating plate feeding, screw weighing and packaging. It is difficult to count the actual number of screws dropped down from plate by optical bit counter because of the irregular shape of the object to be weighed. Therefore, it is divided into multistage speed to control the vibration of the feeding plate, it uses the round up and round down (half adjust) to complete counting process. The first part uses the weight measurement, the second part uses the number to compare whether the set weight is achieved.

Screw Packaging Machine



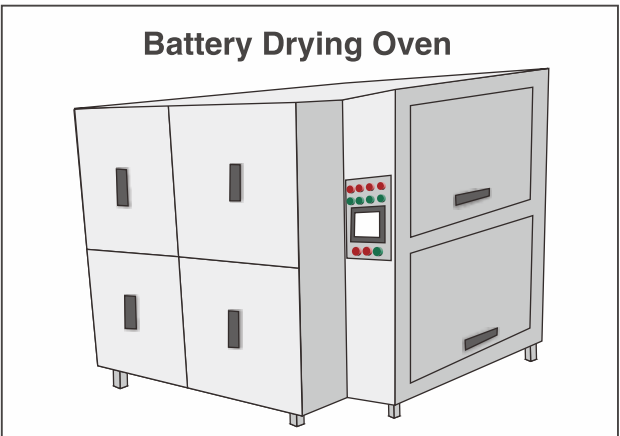
LX3V-4LTC



LX3V-4LTC is temperature control module, it has four temperature input ports and four transistor output ports (open collector). It reads data from the thermocouple, and give output value with PID control algorithm.

Battery Drying Oven, its working process includes warming – cooling – vacuum – forcing – nitrogen filling. The project has total 100 processes comprises two different process cycles. Data monitoring, data acquiring, PID Auto-tuning (self-tuning). Measurement of Temperature at different 12 points. There difference in the temperature at upper, lower, middle, center of the oven. So, temperature gradient is there and homogeneity of the oven is affected.

Battery Drying Oven



LX5V Series PLC



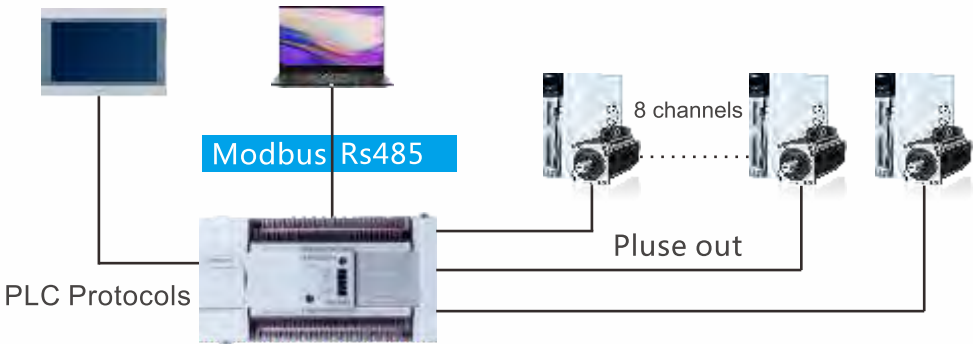
- Faster: 0.01us~0.03us execution speed
- Supports larger program capacity: 48k steps
- Supports the highest baud rate: 921600
- Supports 8 channels external interrupt, and support both rising and falling edges
- Supports 100us high-speed timer interrupt
- Supports up to 100 high-speed counting interrupts
- Supports E-CAM
- Supports electronic gear
- Supports efficient and stable PID and CCPID self-tuning
- Supports IO module and analog module of LX3V series
- Supports BD modules of LX3V series (Communication BD module not supported now)

8 Channels High Speed Pulse Input

LX5V comes standard with 8 channels high speed counter (HSC0~HSC7 for 8 channels). The maximum counting frequency of the 8 channels single-phase high-speed counter is 150KHZ, and the maximum counting frequency of the 8-channels AB phase high-speed counter is 100KHZ. This high-speed counter is executed by hardware, and will be more efficient and faster.

8 Channels High Speed Pulse Output

LX5V comes standard with 8 channels high speed pulse output. The maximum output frequency of 8-channels high-speed pulse output is 200KHZ, which can modify the frequency and number of high-speed pulse output during operation(targeted positions). LX5V PLC realize equipment working with high speed, precise and reliable pulse control in a cost-effective way.



More Registers

- 64KB latch area
- Added 128 timers of 0.1ms
- 76KB of data capacity
- Added 128 timers of 1ms

Software Advantages

Based on Wecon PLC Editor, LX5V programming software is optimized and upgraded to be easier configuration, clearer program classification and parameter configuration. Multi-segment scanning program, multi-event program, multiple subroutines and multiple interrupt programs are added.

EXPANSION MODULE

PLC EXPANSION MODULE

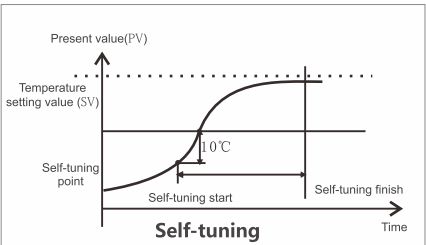
- **Multi-module connection :**
Support up to 16 modules, 256 input points or 256 output points.
Due to the difference plc model, user need to calculate the power consumption at first.
- **DA module resolution :12 bits**
- **PT/TC module resolution**
S-type sensor:-50~+1768 (degree centigrade)
R-type sensor:-50~+1768 (degree centigrade)
B-type sensor:+250~+1820 (degree centigrade)
N-type sensor:-200~+1300 (degree centigrade)
E-type sensor:-200~+1000 (degree centigrade)
T-type sensor:-200~+400 (degree centigrade)
J-type sensor: -210~+600 (degree centigrade)
K-type sensor:-200~+1372 (degree centigrade)
Pt100 sensor:-100~+600 (degree centigrade)

- **AD module resolution :16 bits**
- **WT module resolution :24 bits**



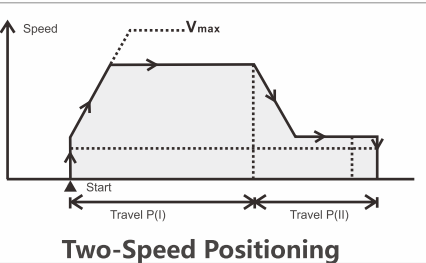
LX3V-8iTC

- 8 channels for temperature acquiring; Multiple sensor types are supported; Supports thermocouple types like K, S, E, N, B, T, J and R.
- All 8 channels are isolated each other.
- Built-in cold junction compensation, external cold junction compensation, freezing cold junction compensation method.



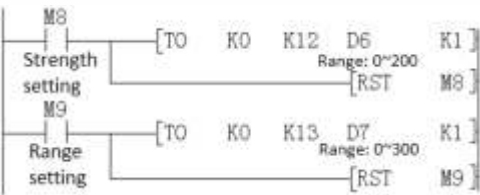
LX3V-4PGA

- Supports 4-channel high speed pulse outputs.
- Supports zero point return, JOG, interrupt position and two-speed pulse control.
- Supports S-type acceleration and deceleration.
- Maximum supports for 200k pulse output.
- Interrupt signal, origin signal input.

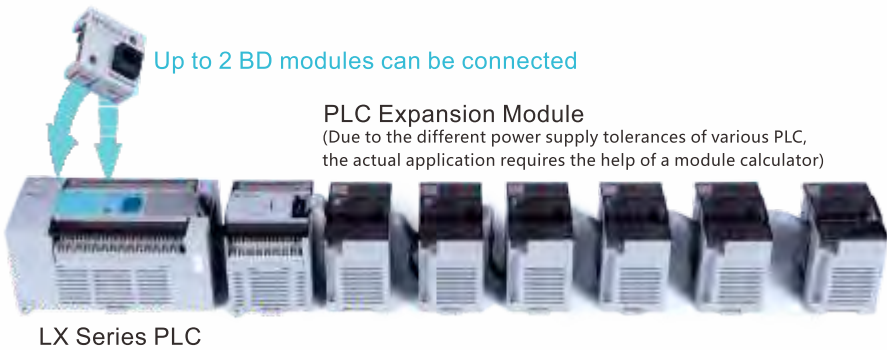


LX3V-2WT

- 2 channels weighing signal input.
- Hardware 24-bits AD input (2: 24-bit Resolution).
- Supports 1~2400 Hz frequency conversion.
- Adjustable setting of Digital filter.
- Adjustable setting of Tare weight and Net weight.
- Zero-tracking can reduce the influence of temperature drift effective.



BD MODULE



Analog BD BOARD

Model	Resolution	Input/Output Range	Data Range
DA	12	Output Current : 4~20mA	0~2000
AD	12	Input Current : 4~20mA	0~2000
PT	14	Sensor:PT100-100~600℃	-1000~6000
TC	14	Sensor:Ktype-100~1200℃	-1000~12000
TC	14	Sensor:Jtype-100~600℃	-1000~6000
DAV	12	Output Voltage:-10~10V	-2000~2000
ADV	12	Input Voltage:-10~10V	-2000~2000

Communication Expansion Board

LX3VP-ETH-BD



By using LX3VP-ETH-BD, Ethernet port can be added.

- Supports Modbus-Tcp protocol.
- Maximum 8 devices can be connected (no master-slave) to one LX3VP-EH-BD module.

LX3VP-CAN Communication

(Only some models of 3VP supported [LX-3VP2416 Mix supported])

- For Good real-time communication, strong correction ability and stable communication.
- Supports CANopen standard protocol DS301 V4.02.
- Supports 16 slave devices when used as master.
- Free configuration by using CANopen network configuration software “CANopen Tool”.
- It works as a master or a slave.

PLC BD Module

BD Board	Function	BD Board	Function
LX3V-2ADI2DAI-BD	2 * Analog Input/ Analog Output (4~20mA)	LX3V-2PT-BD	2 * Thermal Resistance Input
LX3V-2TC2DAI-BD	2 * Thermocouple Input; 2 * Analog Output (4~20mA)	LX3V-2PT2ADV-BD	2 * Thermal Resistance Input; 2 * Analog Voltage input(-10v-10v)
LX3V-2PT2DAI-BD	2 * Thermal Resistance Input; 2 * Analog Output (4~20mA)	LX3V-2PT2DAV-BD	2 * Thermal Resistance Input; 2 * Analog Voltage Output(-10v-10v)
LX3V-2TC-BD	2 * Thermocouple Input	LX3V-2ADV2DAV-BD	2 * Analog Input/ Output (-10V~10V)
LX3V-4ADI-BD	4 * Analog Input (4~20mA)	LX3V-2RS485-BD	2 * RS485 Communication
LX3V-4ADV-BD	4* Analog Input (-10V~10V)	LX3V-ETH-BD	1 * Ethernet Communication
LX3V-2ADV-BD	2*Analog Voltage Input(-10v-10v)	LX3V-2DAI-BD	2*Analog Current Output(4-20mA)
LX3V-2ADI-BD	2*Analog Current Input(4-20mA)	LX3V-2DAV-BD	2*Analog Voltage Output(-10v-10v)
LX3V-2PTS-BD	2* Thermal Resistance Input, Precision >0.1℃		

LX3V SERIES PLC PRODUCT

LX3V Series

PLC Model	I/O	Output type	Dimension (mm)	Pulse Counter	Pulse Output	RS485	BD Board	Module	Power Supply
LX3V-0806MR-A1(D1)	8 /6	Relay	75x107x87	2	0	1	1	N/A	AC (DC)
LX3V-0806MT-A1(D1)	8 /6	Transistor	75x107x87	2	2	1	1	N/A	AC (DC)
LX3V-0806MR-A2(D2)	8 /6	Relay	75x107x87	2	0	1	1	N/A	AC (DC)
LX3V-0806MT-A2(D2)	8 /6	Transistor	75x107x87	2	2	1	1	N/A	AC (DC)
LX3V-1208MR-A1(D1)	12/8	Relay	75x107x87	2	0	1	1	N/A	AC (DC)
LX3V-1208MT-A1(D1)	12/8	Transistor	75x107x87	2	2	1	1	N/A	AC (DC)
LX3V-1208MR-A2(D2)	12/8	Relay	75x107x87	2	0	1	1	N/A	AC (DC)
LX3V-1208MT-A2(D2)	12/8	Transistor	75x107x87	2	2	1	1	N/A	AC (DC)
LX3V-1208MR2H-A2(D2)	12/8	Mix	75x107x87	2	2	1	1	N/A	AC (DC)
LX3V-1212MR-A(D)	12/12	Relay	137x107x87	2	0	2	1	YES	AC (DC)
LX3V-1212MT-A(D)	12/12	Transistor	137x107x87	2	2	2	1	YES	AC (DC)
LX3V-1212MT4H-A(D)	12/12	Transistor	137x107x87	2	4	2	1	YES	AC (DC)
LX3V-1212MR2H-A(D)	12/12	Mix	137x107x87	2	2	2	1	YES	AC (DC)
LX3V-1412MR-A(D)	14/12	Relay	137x107x87	2	0	2	1	YES	AC (DC)
LX3V-1412MT-A(D)	14/12	Transistor	137x107x87	2	2	2	1	YES	AC (DC)
LX3V-1412MT4H-A(D)	14/12	Transistor	137x107x87	2	4	2	1	YES	AC (DC)
LX3V-1412MR2H-A(D)	14/12	Mix	137x107x87	2	2	2	1	YES	AC (DC)
LX3V-1616MR-A(D)	16/16	Relay	175x107x87	2	0	2	2	YES	AC (DC)
LX3V-1616MT-A(D)	16/16	Transistor	175x107x87	2	2	2	2	YES	AC (DC)
LX3V-1616MT4H-A(D)	16/16	Transistor	175x107x87	2	4	2	2	YES	AC (DC)
LX3V-1616MR2H-A(D)	16/16	Mix	175x107x87	2	2	2	2	YES	AC (DC)
LX3V-2416MR-A(D)	24/16	Relay	175x107x87	2	0	2	2	YES	AC (DC)
LX3V-2416MT-A(D)	24/16	Transistor	175x107x87	2	2	2	2	YES	AC (DC)
LX3V-2416MT4H-A(D)	24/16	Transistor	175x107x87	2	4	2	2	YES	AC (DC)
LX3V-2416MR2H-A(D)	24/16	Mix	175x107x87	2	2	2	2	YES	AC (DC)
LX3V-2424MR-A(D)	24 /24	Relay	220x107x87	2	0	2	2	YES	AC (DC)
LX3V-2424MT-A(D)	24/24	Transistor	220x107x87	2	2	2	2	YES	AC (DC)
LX3V-2424MT4H-A(D)	24/24	Transistor	220x107x87	2	4	2	2	YES	AC (DC)
LX3V-2424MR2H-A(D)	24/24	Mix	220x107x87	2	2	2	2	YES	AC (DC)
LX3V-3624MR-A(D)	36/24	Relay	220x107x87	2	0	2	2	YES	AC (DC)
LX3V-3624MT-A(D)	36/24	Transistor	220x107x87	2	2	2	2	YES	AC (DC)
LX3V-3624MT4H-A(D)	36/24	Transistor	220x107x87	2	4	2	2	YES	AC (DC)
LX3V-3624MR2H-A(D)	36/24	Mix	220x107x87	2	2	2	2	YES	AC (DC)

LX3VP SERIES PLC PRODUCT

LX3VP Series

»

PLC Model	I/O	Output type	Dimension (mm)	Pulse Counter	Pulse Output	RS485	CAN	BD Board	Module	Power Supply
LX3VP-1208MR-A(D)	12 / 8	Relay	75x107x87	2	0	1	N/A	1	N/A	AC (DC)
LX3VP-1208MT-A(D)	12 / 8	Transistor	75x107x87	2	2	1	N/A	1	N/A	AC (DC)
LX3VP-1212MR-A(D)	12 / 12	Relay	137x107x87	2	0	2	N/A	1	YES	AC (DC)
LX3VP-1212MT-A(D)	12 / 12	Transistor	137x107x87	2	2	2	N/A	1	YES	AC (DC)
LX3VP-1212MT4H-A(D)	12 / 12	Transistor	137x107x87	2	4	2	N/A	1	YES	AC (DC)
LX3VP-1212MR2H-A(D)	12 / 12	Mix	137x107x87	2	2	2	N/A	1	YES	AC (DC)

LX3VP-1412MR-A(D)	14 / 12	Relay	137x107x87	2	0	2	N/A	1	YES	AC (DC)
LX3VP-1412MT-A(D)	14 / 12	Transistor	137x107x87	2	2	2	N/A	1	YES	AC (DC)
LX3VP-1412MT4H-A(D)	14 / 12	Transistor	137x107x87	2	4	2	N/A	1	YES	AC (DC)
LX3VP-1412MR2H-A(D)	14 / 12	Mix	137x107x87	2	2	2	N/A	1	YES	AC (DC)

LX3VP-1616MR-A(D)	16 / 16	Relay	175x107x87	2	0	2	N/A	2	YES	AC (DC)
LX3VP-1616MT-A(D)	16 / 16	Transistor	175x107x87	2	2	2	N/A	2	YES	AC (DC)
LX3VP-1616MT4H-A(D)	16 / 16	Transistor	175x107x87	2	4	2	N/A	2	YES	AC (DC)
LX3VP-1616MR2H-A(D)	16 / 16	Mix	175x107x87	2	2	2	N/A	2	YES	AC (DC)

LX3VP-2416MR-A(D)	24 / 16	Relay	175x107x87	2	0	2	Optional	2	YES	AC (DC)
LX3VP-2416MT-A(D)	24 / 16	Transistor	175x107x87	2	2	2	Optional	2	YES	AC (DC)
LX3VP-2416MT4H-A(D)	24 / 16	Transistor	175x107x87	2	4	2	Optional	2	YES	AC (DC)
LX3VP-2416MR2H-A(D)	24 / 16	Mix	175x107x87	2	2	2	Optional	2	YES	AC (DC)

LX3VP-2424MR-A(D)	24 / 24	Relay	220x107x87	2	0	2	N/A	2	YES	AC (DC)
LX3VP-2424MT-A(D)	24 / 24	Transistor	220x107x87	2	2	2	N/A	2	YES	AC (DC)
LX3VP-2424MT4H-A(D)	24 / 24	Transistor	220x107x87	2	4	2	N/A	2	YES	AC (DC)
LX3VP-2424MR2H-A(D)	24 / 24	Mix	220x107x87	2	2	2	N/A	2	YES	AC (DC)

LX3VP-3624MR-A(D)	36 / 24	Relay	220x107x87	2	0	2	N/A	2	YES	AC (DC)
LX3VP-3624MT-A(D)	36 / 24	Transistor	220x107x87	2	2	2	N/A	2	YES	AC (DC)
LX3VP-3624MT4H-A(D)	36 / 24	Transistor	220x107x87	2	4	2	N/A	2	YES	AC (DC)
LX3VP-3624MR2H-A(D)	36 / 24	Mix	220x107x87	2	2	2	N/A	2	YES	AC (DC)

LX3VE&3VM&5V SERIES PLC PRODUCT

LX3VE Series

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PLC Model	I/O	Output type	Dimension (mm)	Pulse Counter	E-CAM	Pulse Output	RS485	BD Board	Module	Power Supply
LX3VE-1412MT-A	14/12	Transistor	137x107x87	2	YES	2	2	1	YES	AC(DC)
LX3VE-1412MT4H-A	14/12	Transistor	137x107x87	2	YES	4	2	1	YES	AC(DC)
LX3VE-1616MT-A	16/16	Transistor	175x107x87	2	YES	2	2	2	YES	AC(DC)
LX3VE-1616MT4H-A	16/16	Transistor	175x107x87	2	YES	4	2	2	YES	AC(DC)
LX3VE-2416MT-A	24/16	Transistor	175x107x87	2	YES	2	2	2	YES	AC(DC)
LX3VE-2416MT4H-A	24/16	Transistor	175x107x87	2	YES	4	2	2	YES	AC(DC)
LX3VE-2424MT-A	24/24	Transistor	220x107x87	2	YES	2	2	2	YES	AC(DC)
LX3VE-2424MT4H-A	24/24	Transistor	220x107x87	2	YES	4	2	2	YES	AC(DC)
LX3VE-3624MT-A	36/24	Transistor	220x107x87	2	YES	2	2	2	YES	AC(DC)
LX3VE-3624MT4H-A	36/24	Transistor	220x107x87	2	YES	4	2	2	YES	AC(DC)

LX3VM Series

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PLC Model	I/O	Output type	Dimension (mm)	Pulse Counter	E-CAM	Inter-polation	Pulse Output	RS485	BD Board	Module	Power Supply
LX3VM-1412MT-A	14/12	Transistor	137x107x87	2	YES	YES	2	2	1	YES	AC(DC)
LX3VM-1412MT4H-A	14/12	Transistor	137x107x87	2	YES	YES	4	2	1	YES	AC(DC)
LX3VM-1616MT-A	16/16	Transistor	175x107x87	2	YES	YES	2	2	2	YES	AC(DC)
LX3VM-1616MT4H-A	16/16	Transistor	175x107x87	2	YES	YES	4	2	2	YES	AC(DC)
LX3VM-2416MT-A	24/16	Transistor	175x107x87	2	YES	YES	2	2	2	YES	AC(DC)
LX3VM-2416MT4H-A	24/16	Transistor	175x107x87	2	YES	YES	4	2	2	YES	AC(DC)
LX3VM-2424MT-A	24/24	Transistor	220x107x87	2	YES	YES	2	2	2	YES	AC(DC)
LX3VM-2424MT4H-A	24/24	Transistor	220x107x87	2	YES	YES	4	2	2	YES	AC(DC)
LX3VM-3624MT-A	36/24	Transistor	220x107x87	2	YES	YES	2	2	2	YES	AC(DC)
LX3VM-3624MT4H-A	36/24	Transistor	220x107x87	2	YES	YES	4	2	2	YES	AC(DC)

LX5V Series

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PLC Model	I/O	Output type	Dimension (mm)	Pulse Counter	E-CAM	Pulse Output	RS485	BD Board	Module	Power Supply
LX5V-1616MT-A *	16 / 16	Transistor	175x107x87	8	YES	8	2	2	YES	AC
LX5V -2416MT-A	24 / 16	Transistor	175x107x87	8	YES	8	2	2	YES	AC
LX5V -2424MT-A *	24 / 24	Transistor	220x107x87	8	YES	8	2	2	YES	AC
LX5V -3624MT-A *	36 / 24	Transistor	220x107x87	8	YES	8	2	2	YES	AC

“*” developing

PLC SPECIFICATIONS

General »				
	LX3V Series	LX3VP Series	LX3VE / 3VM Series	LX5V Series
Running Mode	Round Scan/ Interrupt			
Programming	Instruction List/ Ladder			
Total Instructions	Basic Instructions: 27 / Applied Instruction: 138		Applied Instruction: 140	Basic Instructions: 27 / Applied Instruction: 170
Execute time	Basic Instructions: 0.06us / Applied Instruction: 1~10us			Basic Instructions: 0.01-0.03us
System Storage	16K	64K	32K	48K / 512KB
Download/ Monitoring	Serial Programming Cable(Serial Port) /Mini USB			
High Speed Pulse Output	Transistor: 2 channels (4 channel optional) / Relay N/A (2 channel optional)			Transistor: 8 channels / 200K
External Interrupt	6 Channels			100 Channels
Timer Interrupt	3 Channels			100 Channels, Interruption time (min): 0.1ms
High Speed Input Single Phase	2 channels 200K, 4 channels 5KHZ			8 Channels 150KHZ
High Speed Input AB Phase	1 channel 100K, frequency modes:1/2/4 times; 1 channel 5KHZ			8 Channels 100KHZ frequency modes:1/2/4 times
Holding Addresses	Adjustable			
Storage	FLASH			
Filter	For all X input terminals			
Serial Port	COM1: RS422 or RS485 COM2: RS485			
Temperature	Working Temperature : 0 ~ 55℃ / Storage Temperature : -20 ~ 70℃			
Humidity	5~ 85%RH (Without condensation)			
Shock Resistance	JISC0040 Standard			
Influence Immunity	Meet the IEC61000-4-4 and GB/T 17626.4 standard: Noise voltage amplitude 1KVP-P , pulse width 10us, period 0.3 s, edge time 5ns , duration 1min.			

Output »			
Item		Relay Output	Transistor Output
Output Mode		--	NPN
Input Power Supply		DC 24V	DC 24V
Output Circuit		<AC 250V or <DC 30V	DC 5~30V
COM Port Current		--	<0.1mA (DC30V)
Insulation		Mechanistic	Optical Coupling
Leak current		--	0.1mA/DC30V
Min.Load		--	DC 5V2mA
Max.Load	Resistive	2A point 8A COM port	0.5A point 0.8A COM port 0.3A HSPO point
	Inductive	80VA	12W/DC 24V7.2WHSP0 point
	General	100W	0.9W/DC 24V
ResponseTime	ON	<10ms	<0.2ms
	OFF		(Pulse out put terminal : <5us)

PLC SPECIFICATIONS

Item	LX3V/LX3VP/LX3VE/LX3VM (<26 I/Os)	LX3V/LX3VP/LX3VE/LX3VM (>26 I/Os)
Voltage	AC 85~265V 50 ~ 60Hz	
Power Outage Time	10ms	
Rush Current	<15A 5ms / AC 100V; <30A 5ms / AC 200V	
Power Fuse	250V 3.15A	250V 3.15A
Power Consumption	<35W	<60W
Power Output	DC 24V 850mA	DC 24V 700mA

DC Power Supply »	
Item	LX3V/LX3VP/LX3VE/LX3VM PLC
Power Supply	DC 24V±10%
Power Outage Time	10ms
Power Fuse	250V 3.15A
Rush Current	<15A 1ms/DC 24V
Power Consumption	<30w(Not include the external power supply for modules)

EXPANSION MODULE

PLC Expansion Module »			
Module	Specification	Module	Specification
LX3V-8EX	8 Input	LX3V-2WT	2 * Weighting(24-bit)
LX3V-8EYR	8 Relay Output	LX3V-2WT-L	2 * Weighting(18-bit)
LX3V-8EYT	8 Transistor Output	LX3V-4AD	4 * Analog Input
LX3V-16EX	16 Input	LX3V-4DA	4 * Analog Output
LX3V-16EYR	16 Relay Output	LX3V-4PT	4 * Thermal Resistance Input
LX3V-16EYT	16 Transistor Output	LX3V-4TC	4 * Thermocouple Input
LX3V-1WT	1 * Weighting(24-bit)	LX3V-4LTC	4 * TC with Isolation (PID Control)
LX3V-1WT-L	1 * Weighting(18-bit)	LX3V-8ITC	8*Thermocouple Input
LX3V-4PGA	4* pulse generator (Advanced)	LX3V-4PGB	4* pulse generator (Basic)
LCM-16EX	16 Input, supports RS485 Modbus communication	LCM-16EYR	16 Relay Output, supports RS485 Modbus communication.
LCM-4TC	4*thermocouple Input, supports RS485 Modbus communication.	LCM-2WT	2*weighing expansion module, 24-bit resolution, supports RS485 Modbus communication.