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# 01 LX5V programing manual

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### **Content summary**

This manual has a comprehensive introduction to the basic functions of WECON PLC Editor and the actual use. This book is completely aimed at zero-based readers, is an essential reference book for entry-level readers to quickly and fully grasp WECON PLC and WECON PLC Editor.

This book starts from the basic product of WECON PLC and the basic concept and operation of WECON PLC Editor. It combines with a large number of cases and graphic analysis to comprehensively and deeply explain the use of WECON PLC Editor Software, as well as PLC program.

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### **#Safety Note:**

Before the installation, operation, maintenance and repair of the micro programmable control, please read this manual and other related manuals to ensure correct use. Please use it after you have mastered the operation method, safety information and all

### **#Note:**

#### **1.Design considerations**

In the event of an abnormality in the external power supply or failure of the programmable controller, to ensure the safe operation of the entire system, be sure to install a safety circuit outside the programmable controller.

1. Be sure to install an emergency brake circuit, a protection circuit, an interlock circuit for reverse operation, such as an emergency brake circuit, a protection circuit, a forward and reverse circuit, and an interlock circuit for the upper and lower positioning limits to prevent machine damage, in the external circuit of the programmable controller.
2. When the programmable controller CPU detects abnormal conditions such as WDT errors through self-diagnosis, all outputs are shut off. In addition, when the programmable controller CPU cannot detect abnormalities in the input/output control part, etc., it cannot control the output. At this time, in order to make the machine operate safely, please design the external circuit and mechanism.
3. Due to the failure of the relay and transistor of the output unit, it is impossible to control the state of the output to ON or OFF. In order to ensure the safe operation of the machine, please design external circuits and mechanisms for output signals related to major accidents.

#### **2. Installation Precautions**

1. Please use it in the general specification environment described in the manual.

Do not use in the following places: places with dust, oily smoke, conductive dust, corrosive gas, flammable gas; places exposed to high temperature, condensation, wind and rain; places with vibration or impact. Electric shock, fire, and misoperation can also cause product damage.

2. When processing screw holes and wiring, do not let iron filings or wire ends fall into the ventilation window of the programmable controller. It may cause fire, malfunction, or misoperation.

3. Please insert the connecting cable and display module accurately into the specified sockets. Poor contact may cause misoperation.

### **#Note:**

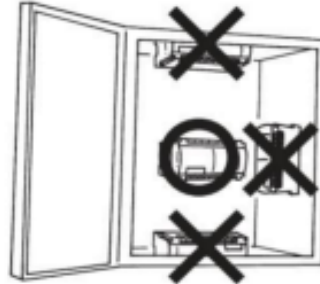
1. ● To prevent the temperature from rising, do not install at the bottom, top or vertical direction. Be sure to install it horizontally on the wall as shown on the right.
2. ● Please leave a space of more than 50mm between the host and other equipment or structures. Try to avoid high-voltage lines, high-voltage equipment, and power equipment.

#### **3. Wiring considerations**

The signal input and output lines of the programmable controller cannot pass through the same cable.

In addition, signal input lines and output lines cannot pass through the same pipeline with other power lines and output lines, and cannot be bundled together.

If implemented according to the above precautions, even if the input and output wiring is as long as 50 to 100m, there is almost no noise problem. But generally for safety, the wiring length should be within 20m.

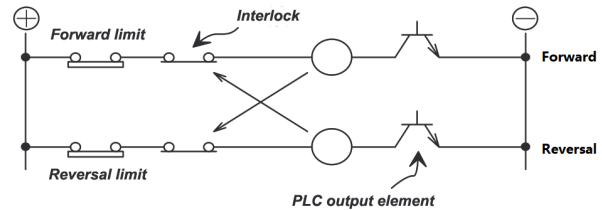


**#Note:**

1. ● The installation and wiring must be performed when the external power supply is cut off. Otherwise, it may cause electric shock or product damage.
2. ● After installation and wiring, etc., the terminal cover must be installed before power-on operation to avoid electric shock.



**Danger**



It is very dangerous to close the positive and negative contactors at the same time. For loads like this, in addition to the interlock set by the internal program of the programmable controller, the interlock shown above must also be set outside the programmable controller.

Do not connect the empty terminal to the outside, otherwise the product will be damaged.



**Attention**

- Please connect the AC power supply to the dedicated terminal according to the content in the manual.

If the AC power supply is connected to the DC input/output terminal or the DC power supply terminal, the programmable controller will be burnt out.

- Please do not supply power to the 24+ terminal of the basic unit from the external power supply, and to the empty terminal. Do not wire from the outside, otherwise the product will be damaged.

Please ground the ground terminal of the basic unit according to the third method. But please do not share the ground with the strong current system.

**Attached**

- The programmable controller will continue to work if there is an instantaneous power failure of less than 10ms.

● When the power is cut for a long time or the voltage is low, the programmable controller will stop working and the output will turn OFF, but once the power supply is restored, it will automatically restart.

#### 4. Precautions for startup and maintenance

##### Danger

- Please do not touch the terminals when the power is on, otherwise it may cause electric shock or misoperation.
- Please clean and disassemble the terminal after the power is turned off. Performing it while the power is on may cause electric shock.
- Please read the manual thoroughly and fully confirm the safety before proceeding with program changes, forced output, RUN/STOP, etc. during machine operation.

Operation errors can damage the machine and cause accidents.

##### Caution

- Please do not disassemble or modify, otherwise it may cause malfunction, malfunction, fire.
  - ※For repair matters, please contact Fuzhou Wecon Electronic Technology Co., Ltd.
- After the power is turned off, perform the installation and disassembly of the extension cables and other connecting cables, otherwise it may cause malfunctions and malfunctions.

#### 5. Maintenance

- Regular inspection: Whether the programmable controller is equipped with consumables with a shorter life.
- For relay output type, if the output relay works abnormally at a high frequency or drives a large-capacity load, you must pay attention to its impact on the service life.
- Check with other equipment, please pay attention to the following points:

Whether there is an abnormal increase in the temperature inside the machine due to other heating elements or direct sunlight.

Whether dust or conductive dust has penetrated into the machine.

Whether there are loose wiring and terminals or other abnormalities