

LS
LS XGK-CPUUN
Programmable Logic
Controller



LS XGK-CPUUN Programmable Logic Controller Installation Guide

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LS XGK-CPUUN Programmable Logic Controller



Product Information

Specifications:

- C/N: 10310000513
- Product: Programmable Logic Controller
- Models: XGK-CPUUN, XGK-CPUHN, XGK-CPUSN, XGT CPU, XGK-CPUU, XGK-CPUH, XGK-CPUA, XGK-CPUS, XGK-CPUE, XGI-CPUUN, XGI-CPUU, XGI-CPUH, XGI-CPUS, XGI-CPUE

Product Usage Instructions

Installation:

1. Ensure proper power supply and grounding before installing the PLC.
2. Mount the PLC securely in a suitable location with adequate ventilation to prevent overheating.

Configuration:

1. Connect input and output devices to the designated ports on the PLC according to the wiring diagram.
2. Set up the programming software on a compatible device to configure the PLC for your specific application.

Operation:

1. Power on the PLC and monitor the status indicators to ensure proper functioning.
2. Execute the programmed logic to control connected devices based on input signals.

Frequently Asked Questions (FAQ)

- **Q: What is the recommended operating temperature range for this PLC?**
A: The recommended operating temperature range is -25°C to 70°C.



- **Q: Can this PLC be used in high humidity environments?**

A: Yes, the PLC is designed to operate in environments with up to 95% relative humidity.

This installation guide provides simple function information of PLC control. Please read carefully this data sheet and manuals before using products. Especially read safety precautions then handle the products properly.

Safety Precautions

Meaning of warning and caution label

 WARNING	WARNING indicates a potentially hazardous situation which, if not avoided, could result in death or serious injury
 CAUTION	CAUTION indicates a potentially hazardous situation which, if not avoided, may result in minor or moderate injury. It may also be used to alert against unsafe practices

WARNING

1. Do not contact the terminals while the power is applied.
2. Be sure there are no foreign matters.
3. Do not manipulate the battery. (charge, disassemble, hitting, short, soldering)

CAUTION

1. Be sure to check the rated voltage and terminal arrangement before wiring
2. When wiring, tighten the screw of terminal block with the specified torque range
3. Do not install the flammable things on surroundings
4. Do not use the PLC in the environment of direct vibration
5. Except expert service staff, do not disassemble or fix or modify the product
6. Use the PLC in an environment that meets the general specifications contained in this datasheet.
7. Be sure that external load does not exceed the rating of output module.
8. When disposing of PLC and battery, treat it as industrial waste.

Operating Environment

- To install, observe the below conditions.

No	Item	Specification				Standard	
1	Ambient temperature	0 ~ 55°C				—	
2	Storage temperature	-25 ~ 70°C				—	
3	Ambient humidity	5 ~ 95%RH, non-condensing				—	
4	Storage humidity	5 ~ 95%RH, non-condensing				—	
5	Vibration Resistance	Occasional vibration				—	—
		Frequency	Acceleration				
		5≤f<8.4	—		3.5mm	10 times in each direction for X, Y, Z	
		8.4≤f≤150	9.8 (1g)		—		
		Continuous vibration					
		Frequency	Frequency	Frequency			
		5≤f<8.4	—	1.75mm			
		8.4≤f≤150	4.9 (0.5g)	—			

Applicable Support Software

For system configuration, the following version is necessary.

1. XGI CPUV3.91 or above / XGI CPU(N) V1.10 or above
2. XGK CPUV4.50 or above / XGK CPU(N) V1.00 or above
3. XG5000 SoftwareV3.61 or above

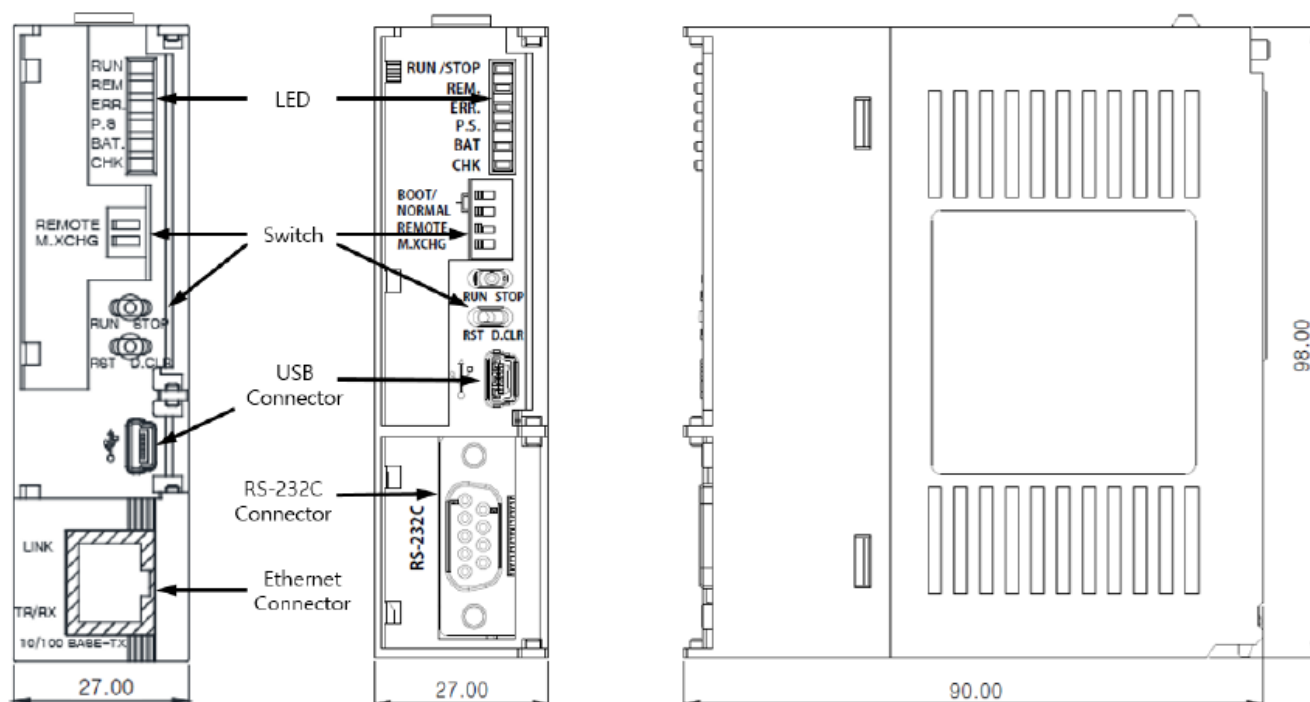
Accessories and Cable Specifications

Check the battery attached in the module.

1. Rated voltage/current DC 3.0V/1,800mAh
2. Warranty period 5 year (at 25°C, Normal temperature)
3. Usage Program/Data back-up, RTC driving when RTC power-off
4. Specification Manganese dioxide lithium (17.0 X 33.5 mm)

Parts name and Dimension (mm)

This is front part of the CPU. Refer to each name when operating the system. For more information, refer to user's manual.

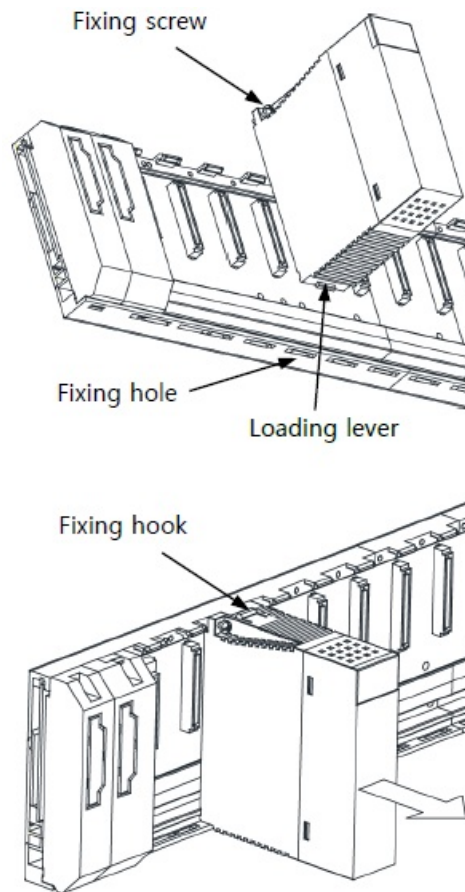


Installing / Removing Modules

- Here describes the method to attach each module to the base or remove it.

Installing module

1. Insert loading lever of lower part of PLC into the module fixed hole of the base.
2. Slide the upper part of module to fix to the base, and then fit it to the base by using the module fixing screw.
3. Pull the upper part of module to check if it is installed to the base completely

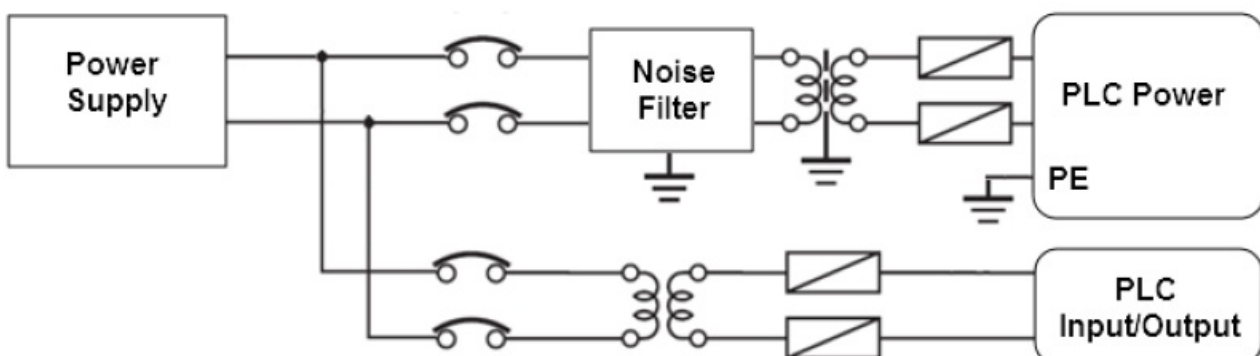


Removing module

1. Loosen the fixed screws of the upper part of module from the base.
2. By pressing the hook, pull the upper part of module from the axis of the lower part of module.
3. By lifting the module upward, remove the loading lever of module from the fixing hole.

Wiring

Power wiring



1. In case that the power is out of rated voltage, connect constant voltage transformer
2. Connect the power having the small noise between cables or between earths. In case of having lots of noise, connect the isolating transformer or noise filter.
3. Power for PLC, I/O device and other machines should be separated.
4. Use the dedicated earth if possible. In case of Earth works, use 3 class earth. (earth resistance 100 Ω or less)

and Use more than 2 mm² cable for earth.

If the abnormal operation is found according to the earth, separate PE of the base from the earth.

Warranty

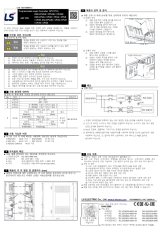
- The warranty period is 36 months from the date of manufacture.
- The initial diagnosis of faults should be conducted by the user. However, upon request, LS ELECTRIC or its representative(s) can undertake this task for a fee. If the cause of the fault is found to be the responsibility of LS ELECTRIC, this service will be free of charge.
- Exclusions from warranty
 1. Replacement of consumable and life-limited parts (e.g. relays, fuses, capacitors, batteries, LCDs, etc.)
 2. Failures or damages caused by improper conditions or handling outside those specified in the user manual
 3. Failures caused by external factors unrelated to the product
 4. Failures caused by modifications without LS ELECTRIC's consent
 5. Use of the product in unintended ways
 6. Failures that cannot be predicted/solved by current scientific technology at the time of manufacture
 7. Failures due to external factors such as fire, abnormal voltage, or natural disasters
 8. Other cases for which LS ELECTRIC is not responsible
- For detailed warranty information, please refer to the user's manual.
- The content of the installation guide is subject to change without notice for product performance improvement.

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Documents / Resources

	<p>LS XGK-CPUUN Programmable Logic Controller [pdf] Installation Guide XGK-CPUUN, CPUHN, CPUSN, XGK-CPUU, CPUH, CPUA, CPUS, CPUE, XGI-CPUUN, CPUU , CPUH, CPUS, CPUE, XGK-CPUUN Programmable Logic Controller, XGK-CPUUN, Programm able Logic Controller, Logic Controller, Controller</p>
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References

- [🌱 Electric | The Largest Consumer Energy & Renewables Platform](#)
- [LS ELECTRIC Co., Ltd.](#)
- [User Manual](#)

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