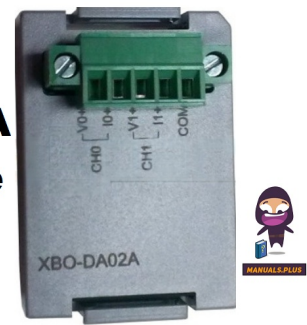


**LS**  
**LS XBO-DA02A**  
**Programmable**  
**Logic**  
**Controller**



## LS XBO-DA02A Programmable Logic Controller Installation Guide

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**LS XBO-DA02A Programmable Logic Controller**



## Product Information

### Specifications

- **C/N:** 10310001188
- **Product:** Programmable Logic Controller – XGB Analog
- **Model:** XBO-DA02A

## Product Usage Instructions

### Installation

1. Ensure the PLC is powered off before installation.
2. Connect the PLC according to the provided wiring diagram.

### Programming

1. Use the programming software provided to create your logic program.
2. Upload the program to the PLC following the software instructions.

### Operation

1. Power on the PLC and monitor the status indicators for any errors.
2. Test the inputs and outputs to ensure proper functionality.



## INTRODUCTION

- This installation guide provides simple functional information on PLC control. Please read this data sheet and the manuals before using the products.

- Especially read the safety precautions and handle the products properly.

## Safety Precautions

Meaning of warning and caution inscription

-  **WARNING** indicates a potentially hazardous situation which, if not avoided, could result in death or serious injury
-  **CAUTION** indicates a potentially hazardous situation that, 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. Protect the product from being contaminated by foreign metallic matter.
3. Do not manipulate the battery(charge, disassemble, hit, 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 flammable things in the surroundings.
4. Do not use the PLC in an environment of direct vibration.
5. Except for 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 the external load does not exceed the rating of the output module.
8. When disposing of the PLC and battery, treat them as industrial waste.

## Operating Environment

To install, observe the following conditions:

No	Item	Specification			Standard	
1	Ambient temp.	0 ~ 55℃			—	
2	Storage temp.	-25 ~ 70℃			—	
3	Ambient humidity	5 ~ 95%RH, non-condensing			—	
4	Storage humidity	5 ~ 95%RH, non-condensing			—	
5	Vibration Resistance	Occasional vibration			—	—
		Frequency	Acceleration	Amplitude	Number	
		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	Acceleration	Amplitude		
		5≤f<8.4	—	1.75mm		
		8.4≤f≤150	4.9 (0.5g)	—		

## Applicable Support Software

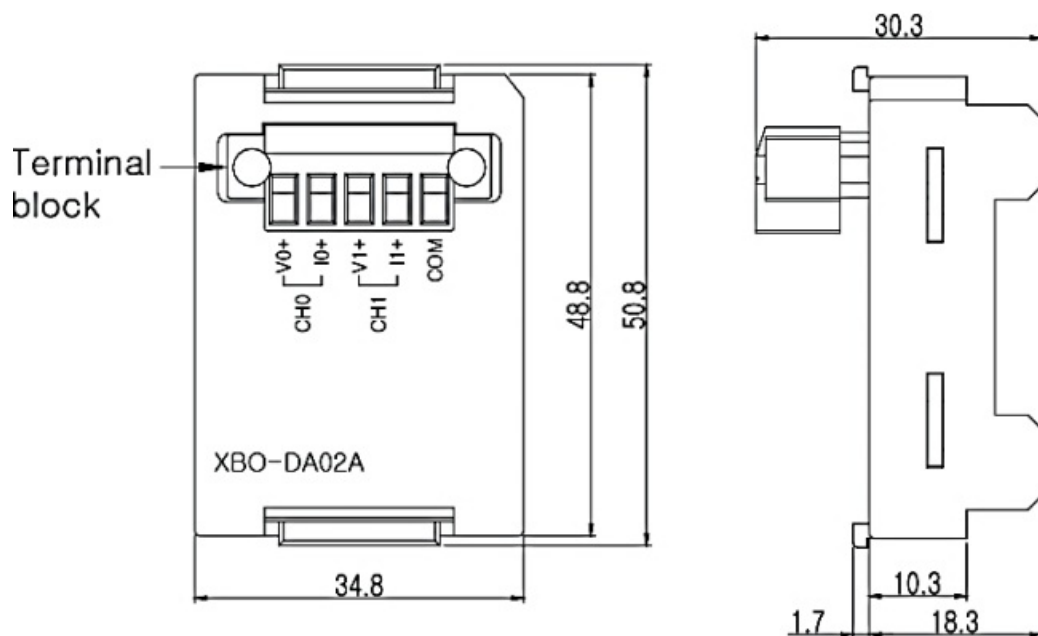
For system configuration, the following version is necessary.

1. **XBC Type:** SU(V1.0 or above), E(V1.1 or above)
2. **XEC Type:** SU(V1.0 or above), E(V1.1 or above)
3. **XG5000 Software:** V4.0 or above

## Parts Name and Dimension

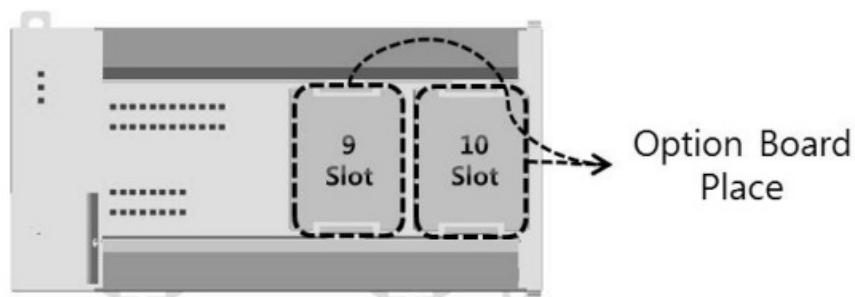
### Parts Name and Dimension (mm)

- This is the front part of the Module. Refer to each name when driving the system. For more information, refer to the user manual.

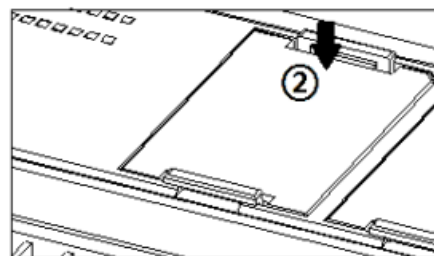
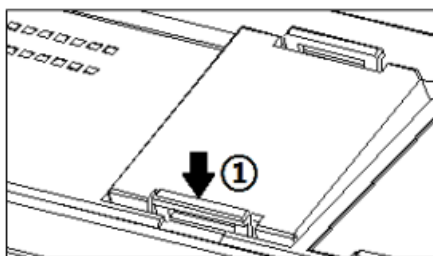


## Installing/Removing Modules

- Option Board can be installed in 9 or 10 slot of the Main Unit(Standard/Economic Type) as shown below.



- When installing the Option Board, push the lower part(①) of the Option Board to contact with connector.
- After pushing the lower part(①) completely, push the upper(②) part of the Option Board entirely.



## Performance Specifications

Performance specifications are as follows

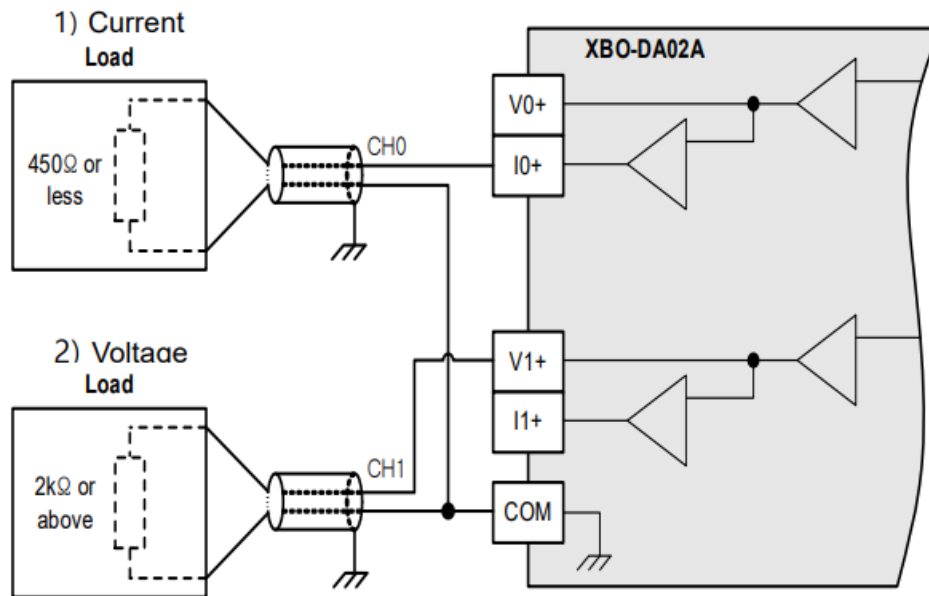
Item			XBO-DA02A	
Analog input	Type		Voltage	Current
	Range		DC 0~10V	DC 4~20mA DC 0~20mA
Digital output	Type		12-bit binary data	
	Range	Unsigned value	0~4,000	
		Signed value	-2,000~2,000	
		Precise value	0~1,000 (DC 0 ~ 10V)	400~2,000(DC 4~20mA) 0~2,000(DC 0~20mA)
		Percentile value	0~1,000	
Max. resolution			1/4,000	
Accuracy			±1.0% or less	

## Wiring

### Precautions for wiring

1. Don't let the AC power line near to analog option board's external input signal line. With enough distance kept away between, it will be free from surge or inductive noise.
2. Cable shall be selected in due consideration of ambient temperature and allowable current. More than AWG22 (0.3 ) is recommended.
3. Don't let the cable come too close to hot device and material or in direct contact with oil for long, which will cause damage or abnormal operation due to short-circuit.
4. Check the polarity when wiring the terminal.
5. Wiring with a high-voltage line or power line may produce inductive hindrance, causing abnormal operation or defects.
6. Enable the channel that you want to use.

### Wiring examples



## 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.
- **LS ELECTRIC Co., Ltd.** [www.ls-electric.com](http://www.ls-electric.com)
- **10310001188 V4.5 (2024.6)**
- **E-mail:** [automation@ls-electric.com](mailto:automation@ls-electric.com).



- **Headquarters/Seoul Office** Tel: 8222034403348884703
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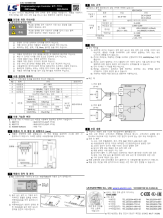
- **LS ELECTRIC (Wuxi) Co., Ltd. (Wuxi, China)** Tel: 8651068516666
- **LS-ELECTRIC Vietnam Co., Ltd. (Hanoi, Vietnam)** Tel: 84936314099
- **LS ELECTRIC Middle East FZE (Dubai, U.A.E...)** Tel: 97148865360
- **LS ELECTRIC Europe B.V. (Hoofddorf, Netherlands)** Tel: 31206541424
- **LS ELECTRIC Japan Co., Ltd. (Tokyo, Japan)** Tel: 81362688241
- **LS ELECTRIC America Inc. (Chicago, USA)** Tel: 18008912941
- **Factory:** 56, Samseong 4-gil, Mokcheon-eup, Dongnam-gu, Cheonan-si, Chungcheongnam-do, 31226, Korea



## Frequently Asked Questions

- **Q: What do the error codes signify?**
  - **A:** Error code 055 indicates a communication error. Refer to the manual for troubleshooting steps.
- **Q: How do I calibrate the humidity sensor?**
  - **A:** For calibrating the humidity sensor, please refer to the specific calibration instructions provided with the device.
- **Q: What does the '5f' code represent?**
  - **A:** The '5f' code could indicate a system fault. Please contact customer support for further assistance.

## Documents / Resources

	<p><a href="#">LS XBO-DA02A Programmable Logic Controller</a> [pdf] Installation Guide XBO-DA02A, XBO-DA02A Programmable Logic Controller, Programmable Logic Controller, Logic Controller, Controller</p>
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## References

- [Electric | The Largest Consumer Energy & Renewables Platform](#)
- [User Manual](#)

[Manuals+](#), [Privacy Policy](#)

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