

Programmable Logic Controller Installation Guide XBF-AD04C XGB Analog



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 and handle the products properly.

1 Safety Precautions

Meaning of warning and caution inscription



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

- Do not contact the terminals while the power is applied
- 2 Protect the product from being gone into by foreign metallic matter.
- Do not manipulate the battery(charge, disassemble, hitting, short, soldering).

CAUTION

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

Use of Environment

■ To install, observe the below conditions.

No	Item		Specifica	ition		Standard
1	Ambient temp.		0 ~ 55	$^{\circ}$		-
2	Storage temp.		-25 ~ 70)℃		-
3	Ambient humidity	5	~ 95%RH, nor	n-condensing		-
4	Storage humidity	5	~ 95%RH, nor	n-condensing		-
5	Vibration Resistance	Occasional vibration		-	-	
		Frequency	Acceleration	Amplitude	Number	
		5≤f<8.4Hz	-	3.5mm	10 times in	
		8.4≤f≤150Hz	9.8m/s²(1g)	-		
5		Continuous vibration			each	IEC 61131-2
		Frequency	Acceleration	Amplitude	for X, Y, Z	
		5≤f<8.4Hz	-	1.75mm		
		8.4≤f≤150Hz	4.9m/s²(0.5g)	-		

3 Applicable Version

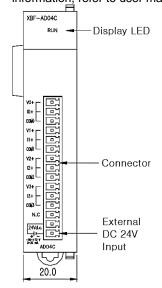
■ For system configuration, the following version is necessary.

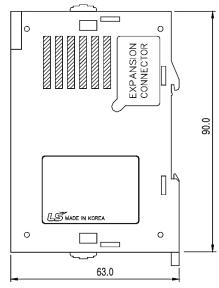
1) XBC Type : H(V2.2 or above), SU(V1.3 or above), U(V1.0 or above) : H(V1.5 or above), SU(V1.1 or above), U(V1.0 or above) XEC Type

XG5000 Software : V4.0 or above

4 Parts Name and Dimension (mm)

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





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Hook for fixation

Boss for fixation

Extension cove

Boss for connection

5 Mounting & Installation

- Here describes the method to attach each product each product.
- 1) Attachment of product
 - Eliminate the extension cover at the product.
 - Push the product and connect it in agreement with hook for fixation of four edges and hook for connection at the bottom.
 - After connection, push down the hook for fixation and fix it completely.
- 2) Detachment of product
 - Push up the hook for disconnection, and then detach the product with two hands. (Do not detach the product by force)

6 Performance Specifications

Performance specifications are as follows

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Ite	em	Performance Specifications			
	Type	Voltage	Current		
Analog	Range	DC 1~5V			
input		DC 0~5V	DC 4~20mA		
IIIput		DC 0~10V	DC 0~20mA		
		DC -10~10V			
Max. resolution		1/16,000			
٨٥٥	uroov	$\pm 0.2\%$ or less (When ambient temperature 25 $^{\circ}$ C)			
ACC	uracy	$\pm 0.3\%$ or less (When ambient temperature 0 ~ 55 °C)			
No. of channel		4			

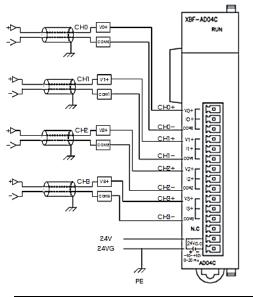
7 Wiring

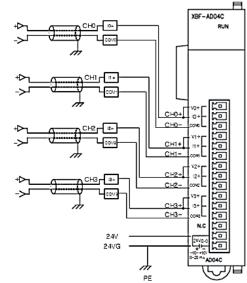
- Installation of cable
 - 1) Don't let AC power line near to analog input module's external input signal line. With an enough distance kept away between, it will be free from surge or inductive noise.
 - Cable shall be selected in due consideration of ambient temperature and allowable current. More than AWG22 (0.3mm²) is recommended.
 - Don't let the cable 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.
 - Check the polarity when wiring the terminal.
 - Wiring with high-voltage line or power line may produce inductive hindrance causing abnormal operation or defect.
 - 6) Enable the channel that you want to use.

■ Wiring examples

1) Voltage input

2) Current output





Notice

- ① Use the cable of 2-core twisted shield.
- 2) AWG 22(0.3mm²) is recommended for the cable standard.
- 3 Current input resistance is 250 Ω (typ.).
- 4 Voltage input resistance is 1 M Ω (min.).
- © Connect 24VG and PE of DC power supply for analog module

8 Warranty

- Warranty period
 - 18 months after the production date.
- Scope of Warranty
 - 18-month warranty is available except:
 - The troubles caused by improper condition, environment or treatment except the instructions of LS ELECTRIC.
 - The troubles caused by external devices 2)
 - The troubles caused by remodeling or repairing based on the user's own discretion. 3)
 - The troubles caused by improper usage of the product 4)
 - The troubles caused by the reason which exceeded the expectation from science and technology level when LS ELECTRIC manufactured the product
 - The troubles caused by natural disaster
- Change in specifications

Product specifications are subject to change without notice due to continuous product development and improvement.

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