



LS XBL-EMTA Programmable Logic Controller Installation Guide

Home » LS » LS XBL-EMTA Programmable Logic Controller Installation Guide 🖺

Contents

- 1 LS XBL-EMTA Programmable Logic
- Controller
- 2 Specifications
- 3 Safety Precautions
- **4 Operating Environment**
- **5 Applicable Support Software**
- **6 Parts name and Dimension**
- 7 Installing / Removing Modules
- 8 Wiring
- 9 Warranty
- 10 FAQs
- 11 Documents / Resources
 - 11.1 References



LS XBL-EMTA Programmable Logic Controller



Specifications

• C/N: 10310000852

• Product: Programmable Logic Controller – XGB FEnet XBL-EMTA

• Dimensions: 100mm

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

Safety Precautions

· Meaning of warning and caution label

WARNING

indicates a potentially hazardous situation which, if not avoided, could result in death or serious injury

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 metallic 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 flammable things on 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 output module.
- 8. When disposing of PLC and battery, treat it as industrial waste.
- 9. I/O signal or communication line shall be wired at least 100mm away from a high-voltage cable or power line.

Operating Environment

• To install, observe the below conditions.

No	Item	Specification				Standard
1	Ambient temp.	0 ~ 55°C				_
2	Storage temp.	-25 ~ 70°C				_
3	Ambient humidity	5 ~ 95%RH, non-condensing				_
4	Storage humidity	5 ~ 95%RH, non-condensing			_	
		Occasional vibration			_	_
		Frequency	Acceleration	Amplitude	Number	
		5≤f<8.4	_	3.5mm		
5	Vibration Resistance	8.4≤f≤150	9.8 (1g)	_	10 times in each directi	
		Continuous vibration			on	
		Frequency	Acceleration	Amplitude	for X, Y, Z	IEC 61131-2
		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 Series : SU(V1.5 or above), H(V2.4 or above), U(V1.1 or above)

2. XEC Series: SU(V1.4 or above), H(V1.8 or above), U(V1.1 or above)

3. XBM Series : S(V3.5 or above), H(V1.0 or above)

4. XG5000 Software: V4.00 or above

Accessories and Cable Specifications

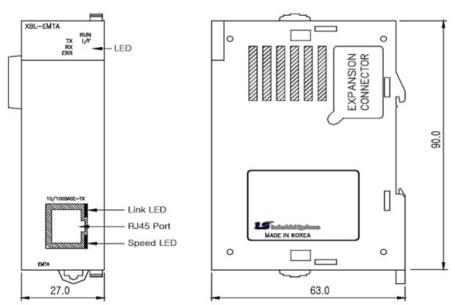
Cable is recommended for CAT5E over S-FTP cable. Cable types vary depending on your system configuration and environment. Please consult a professional supplier before installation.

1. Electrical Characteristic

Item	Unit	Value	Condition
Conductor resistance	Ω/km	93.5 Or less	25°C
Voltage endurance(DC)	V/1min	500V	In air
Insulation resistance(Min)	MΩ-km	2,500	25°C
Characteristic impedance	Ω	100±15	10MHz
	Db/100m Or less	6.5	10MHz
Attenuation		8.2	16MHz
		9.3	20MHz
	Db/100m Or less	47	10MHz
Near-end crosstalk Attenuation		44	16MHz
		42	20MHz

Parts name and Dimension

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



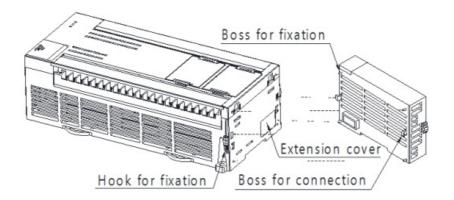
LED details

Silk	LED Status				
Siik	On	Blink	Off		
RUN	Normal	_	ON when a fatal error occurs		
I/F	-	Normal	Stop I/F		
ERR	H/W error	S/W error	_		
TX	-	When sending	ON when a fatal error occurs		
RX	-	When receiving	ON when a fatal error occurs		
Link LED	_	Receiving the packet	No receiving the packet		
Speed LED	100Mbps	_	10Mbps		

Installing / Removing Modules

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

- 1. Installing module
 - 1. Eliminate the Extension Cover at the product.
 - 2. Push the product and connect it in agreement with Hook For Fixation of four edges and the Hook For Connection.
 - 3. After connection, push down the Hook For Fixation and fix it completely.
- 2. Removing module
 - 1. Push up the Hook For Disconnection, and then detach the product with two hands. (Do not detach the product by force)

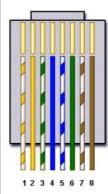


Wiring

Wiring for Communication

- 1. 10/100BASE-TX's max.extended length between nodes is 100m.
- 2. This switch module provides Auto Cross Over function so the user can use both cross and direct cable.

Dia Ma	Sign	Cable wiring		
Pin No.		Straight cable	Cross cable	
1	TD+	1 — 1	1 — 3	
2	TD-	2 2	2 6	
3	RD+	3 — 3	3 — 1	
6	RD-	6 — 6	6 — 2	
4,5,7,8	Not used	_	_	123



- 1. White orange
- 2. Orange
- 3. White green
- 4. Blue
- 5. White blue
- 6. Green
- 7. White brown
- 8. Brown

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
- E-mail: <u>automation@ls-electric.com</u>
- Headquarters/Seoul Office Tel: 82-2-2034-4033,4888,4703
- LS ELECTRIC Shanghai Office (China) Tel: 86-21-5237-9977
- LS ELECTRIC (Wuxi) Co., Ltd. (Wuxi, China) Tel: 86-510-6851-6666
- LS-ELECTRIC Vietnam Co., Ltd. (Hanoi, Vietnam) Tel: 84-93-631-4099
- LS ELECTRIC Middle East FZE (Dubai, U.A.E.) Tel: 971-4-886-5360
- LS ELECTRIC Europe B.V. (Hoofddorf, Netherlands) Tel: 31-20-654-1424
- LS ELECTRIC Japan Co., Ltd. (Tokyo, Japan) Tel: 81-3-6268-8241
- LS ELECTRIC America Inc. (Chicago, USA) Tel: 1-800-891-2941
- Factory: 56, Samseong 4-gil, Mokcheon-eup, Dongnam-gu, Cheonan-si, Chungcheongnamdo, 31226, Korea



FAQs

Q: What is the operating temperature range of the PLC?

A: The operating temperature range is -25°C to 70°C.

Q: Can I expand the I/O capabilities of this PLC?

A: Yes, you can expand the I/O capabilities using compatible expansion modules.

Documents / Resources



LS XBL-EMTA Programmable Logic Controller [pdf] Installation Guide XBL-EMTA, XBL-EMTA Programmable Logic Controller, Programmable Logic Controller, Controller Controller

References

- @ Electric | The Largest Consumer Energy & Renewables Platform
- User Manual

Manuals+, Privacy Policy

This website is an independent publication and is neither affiliated with nor endorsed by any of the trademark owners. The "Bluetooth®" word mark and logos are registered trademarks owned by Bluetooth SIG, Inc. The "Wi-Fi®" word mark and logos are registered trademarks owned by the Wi-Fi Alliance. Any use of these marks on this website does not imply any affiliation with or endorsement.