

LS-ELECTRIC GPL-D22C Programmable Logic Controller **Installation Guide**

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LS-ELECTRIC GPL-D22C Programmable Logic Controller

INSTALLATION GUIDE

MODEL: GPL-D22C,D24C,DT4C/C1 GPL-TR2C/C1,TR4C/C1,RY2C

and manuals before using products. Especially read precautions then handle the products properly

1. 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 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 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
- © Use the PLC in an environment that meets the general specifications contained in this datasheet.
- ② Be sure that external load does not exceed the rating of output module.
- ® 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 highvoltage cable or power line.

2. Operating Environment

To install, observe the below 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	Occasional vibration			-	-
		Frequency	Acceleration			
		5≤f<8.4Hz	-	3.5mm	10 times in	
		8.4≤f≤150Hz	9.8m/s²(1g)	-		
	Resistance	Cor	ntinuous vibration		each direction	IEC 61131-2
		Frequency	Frequency	Frequency	for X, Y, Z	
		5≤f<8.4Hz	-	1.75mm		
		8.4≤f≤150Hz	4.9m/s²(0.5g)	-		

3. Accessories and Cable Specifications

■ Check Profibus Connector contained in the box 1) Usage: Profibus Communication Connector

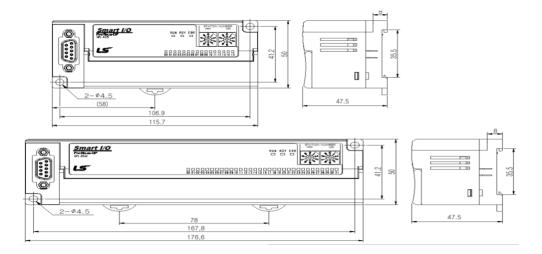
2) Item: GPL-CON

- When using Pnet communication, shielded twisted pair cable shall be used with consideration of communication distance and speed.
- 1) Manufacturer: Belden or the maker of equivalent material specification below
- 2) Cable Specification

Classification	Description			
AWG	22			
Туре	BC (Bare Copper)			
Insulation	PE (Polyethylene)			
Diameter(inch)	0.035	I MXXXX 7		
Shield	Aluminum Foil-Polyester,	WWW E		
- Silleid	Tape/Braid Shield			
Capacifance(pF/ft)	8.5	Aluminum Foil-		
Characteristic	150Ω	PVC Braid Shield Polyester Tape		
impedance(Ω)	13022			

4. Dimension (mm)

■ 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

Name	Description	
PWR	Displays the status of power	
RDY	Displays the interface status of communication module	
ERR	Displays the network status of communication module	

5. Performance Specifications

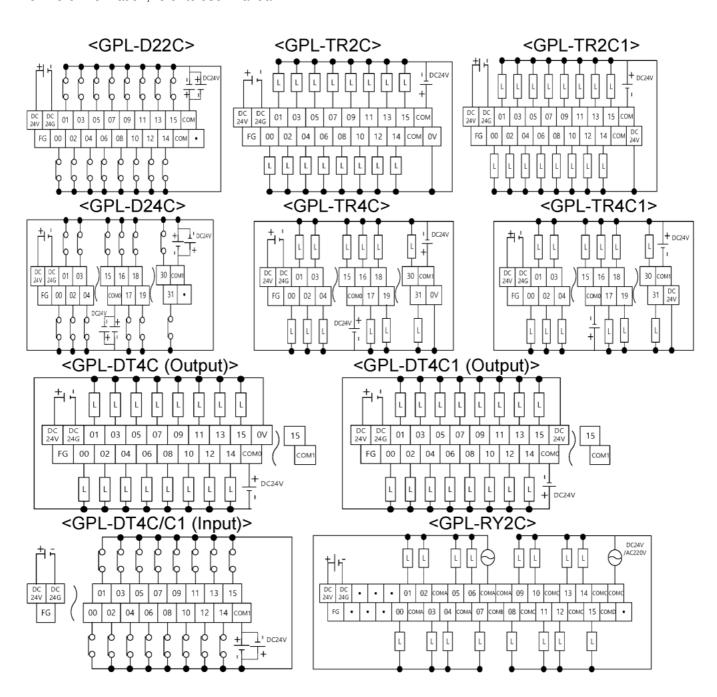
■ This is performance specifications of the product. Refer to each name when driving the system. For more

information, refer to user manual.

Item	GPL-D2xC	GPL-DT4C/C1	GPL-TRxC/C1	GPL-RY2C
Rated Input Current	5mA		-	-
Rated load voltage	-	-	1)(:24\/	DC24V/AC220V,
Nated load voltage				2A/Point, 5A/COM
Max load		0.5A/Poin	it, 3A/COM	DC 110V, AC 250V
		0.5/41 0111	it, 5A/COM	1,200times/hour
ON Voltage	DC 19V or above			Minimum load
OFF Voltage		DC 6V or less		voltage/current DC
		DC 07 01 less		5V/1mA

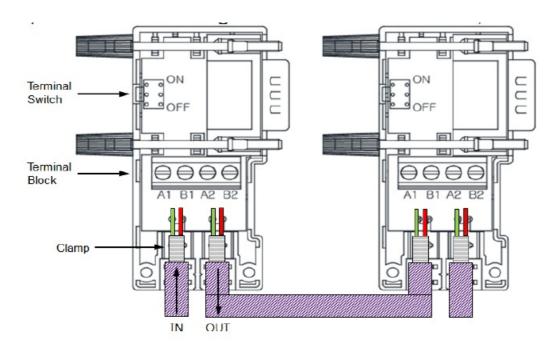
6. Terminal Block Layout for I/O Wiring

■ This is terminal block layout for I/O wiring. Refer to each name when driving the system. For more information, refer to user manual.



7. Wiring

- Connector structure and wiring method
- 1) Input line: green line is connected to A1, red line is connected to B1
- 2) Output line: green line is connected to A2, red line is connected to B2
- 3) Connect shield to clamp of shield
- 4) In case of installing the connector at terminal, install the cable at A1, B1



8. 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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Specifications

• C/N: 10310000310

• Product: Programmable Logic Controller - Smart I/O Pnet

• Models: GPL-D22C, D24C, DT4C/C1, GPL-TR2C/C1, TR4C/C1,

RY2C

FAQ

Q: What do the numerical values in the text-extract signify?

A: The numerical values likely represent parameters or readings specific to the PLC operation, such as temperature, humidity, or signal levels.

Documents / Resources



LS-ELECTRIC GPL-D22C Programmable Logic Controller [pdf] Installation Guide GPL-D22C, D24C, DT4C-C1, GPL-TR2C-C1, TR4C-C1, RY2C, GPL-D22C Programmable Logic Controller, GPL-D22C, Programmable Logic Controller, Logic Controller

References

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

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