



This installation guide provides simple function information of HMI 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	
①	Do not contact the terminals while the power is applied.
②	Protect the product from being gone into by foreign metallic matter.
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 HMI in the environment of direct vibration.
⑤	Except expert A/S staff, do not disassemble or fix or modify the product.
⑥	Use the HMI 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 HMI and battery, treat it as industrial waste.

2 Use of Environment

To install, observe the below conditions.

No	Item	Specification	Standard	
1	Ambient temp.	0°C ~ 50°C	-	
2	Storage temp	-20°C ~ 60°C	-	
3	Ambient humidity	10 ~ 85%RH, non-condensing	-	
4	Storage humidity	10 ~ 85%RH, non-condensing	-	
5	Vibration Resistance	Occasional vibration		
		Frequency	Acceleration	Amplitude
		5 ≤ f < 9Hz	-	3.5mm
		9 ≤ f ≤ 150Hz	9.8m/s ² (1g)	-
		Continuous vibration		
		Frequency	Acceleration	Amplitude
5 ≤ f < 9Hz	-	1.75mm		
9 ≤ f ≤ 150Hz	4.9m/s ² (0.5g)	-		
		Count	10 times in each direction for X, Y, Z	
			IEC 61131-2	

3 Applicable Version

For system configuration, the following version is necessary.

- XP-Runtime/XP-Builder: V2.10 above

4 Accessory

Check the battery attached in the XGT Panel.

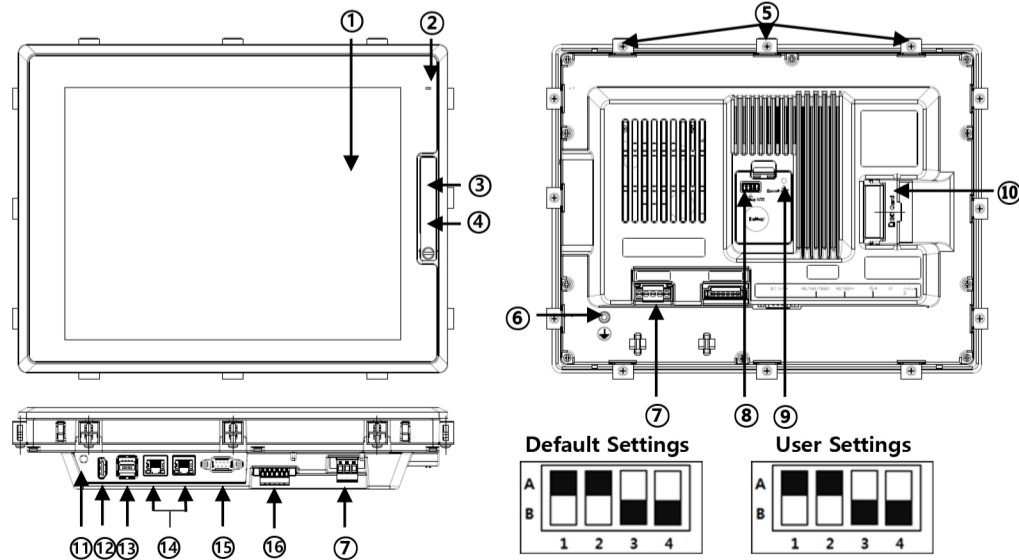
- Use : Reserve backup data and RTC when power off
- Standard : CR2032

Check the mounting Brackets in the box

- Bracket Quantity : 1 set(iXP2-08: 8ea, iXP2-10: 10ea, iXP2-12/15: 12ea)

5 Parts Name and Dimension

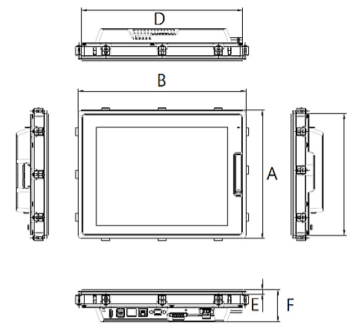
This is appearance of the iXP. Refer to each name when driving the system. For more information, refer to user manual.



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|-----------------------|-----------------------|--------------------|
| ① Front Part | ② Status LED | ③ USB Device |
| ④ USB Host | ⑤ Insertion Slots | ⑥ PE |
| ⑦ Power Terminal | ⑧ Dip Switch Settings | ⑨ Reset Switch |
| ⑩ SD card Interface | ⑪ Audio out | ⑫ HDMI out |
| ⑬ USB Host | ⑭ Ethernet Terminal | ⑮ RS-232C Terminal |
| ⑯ RS-422/485 Terminal | | |

※No.4. Battery On(A)/Off(B)

Dimension



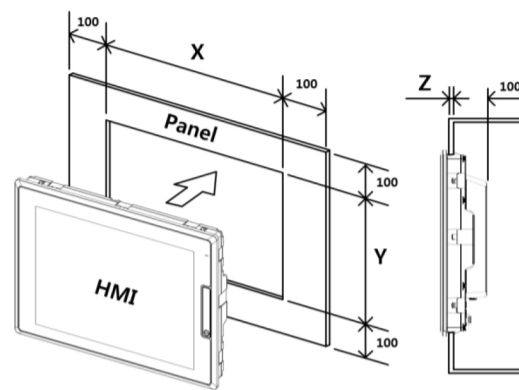
[Unit: mm]

Item	iXP2-08	iXP2-10	iXP2-12	iXP2-15
A	180.0	212.0	239.0	294.0
B	240.0	270.0	313.0	395.0
C	158.0	200.0	227.0	282.0
D	228.0	258.0	301.0	383.0
E	8.0	8.0	8.0	8.0
F	59.7	59.7	59.7	65.5

6 Installation

When you install the XGT Panel, a panel, designed to mount the XGT Panel inside should be specified and allowed for.

1) Panel Cut Dimensions

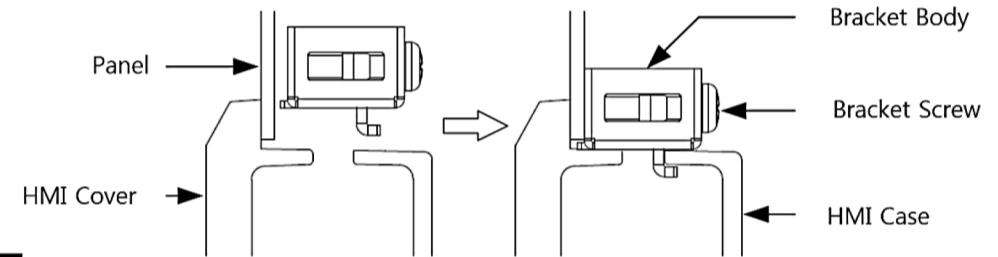


[Unit: mm]

Item	Dimension		Tolerance	
	X	Y		
iXP2-08	228.5	158.5	+ 1	- 0
iXP2-10	259.0	201.0	+ 1	- 0
iXP2-12	301.5	227.5	+ 1	- 0
iXP2-15	383.5	282.5	+ 1	- 0

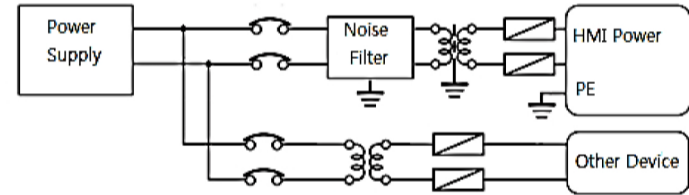
2) Mounting XGT Panel

- Ensure that there is 100mm clearance around all sides of the panel to be affected at a minimum by the electromagnetic wave or heat.
- The panel thickness (Z) should be 1.6 ~ 6mm.
- Insert the mounting brackets into the XGT Panel insertion slots. Tightening the screws with too much force can damage the product. (The recommend torque is 6.7kgf·cm)
- Use screwdriver to tighten brackets screw as illustration shown.



7 Wiring

Power wiring



Item	iXP2-08□□/10□□/12□□/15□□A	iXP2-08□□/10□□/12□□/15□□D
Rated voltage	AC100~240V(50/60Hz)	DC24V

- In case that the power is out of rated voltage, connect constant voltage transformer.
- Connect the power having the small noise between cables or between earths. In case of having lots of noise, connect the insulation transformer or noise filter.
- Separate the XGT Panel mains from other equipment (high voltage and current). And communication cable should be separated from the power cable by 100mm or more.
- Use the power supply and earthing wire within the range 18AWG ~ 22AWG.
- Ground resistance should be less than 100Ω. Recommended to use a earthing wire with cross sectional area greater than 2mm². If it malfunctions, remove the earthing.

8 Warranty

Warranty period

LS ELECTRIC provides an 18-month-warranty from the date of the production.

Scope of Warranty

- The troubles caused by improper condition, environment or treatment except the instructions of LS ELECTRIC.
- The troubles caused by external devices.
- The troubles caused by remodeling or repairing based on the user's own discretion.
- The troubles caused by improper usage of the product.
- 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.

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