



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

	<b>WARNING</b>	WARNING indicates a potentially hazardous situation which, if not avoided, could result in death or serious injury
	<b>CAUTION</b>	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.
- 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.
- When wiring, tighten the screw of terminal block with the specified torque range.
- Do not install the flammable things on surroundings.
- Do not use the HMI in the environment of direct vibration.
- Except expert service staff, do not disassemble or fix or modify the product.
- Use the HMI in an environment that meets the general specifications contained in this datasheet.
- Be sure that external load does not exceed the rating of output module.
- 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	5 ~ 85%RH, non-condensing	-			
4	Storage humidity	5 ~ 85%RH, non-condensing	-			
5	Vibration Resistance	Occasional vibration		-	-	
		Frequency	Acceleration	Amplitude	times	IEC 61131-2
		10≤f<57Hz	-	0.075mm	10 times in each direction for X, Y, Z	
		57≤f≤150Hz	9.8m/s <sup>2</sup> (1G)	-		
		Continuous vibration				
		Frequency	Acceleration	Amplitude		
10≤f<57Hz	-	0.037mm				
		57≤f≤150Hz	4.9m/s <sup>2</sup> (0.5G)			

### 3 Applicable Version

■ For system configuration, the following version is necessary.

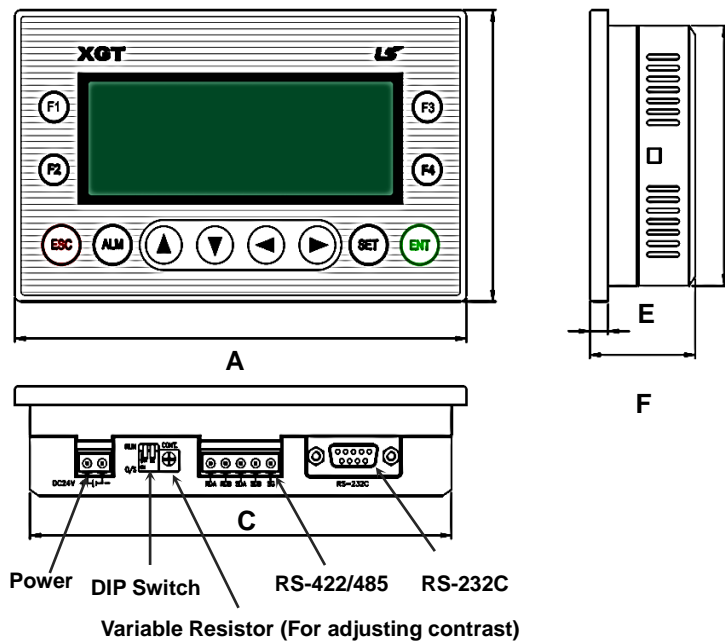
- O/S : V2.0 above
- Panel Editor : V1.21 above

■ Check the mounting Brackets in the box

- Bracket Quantity : 1 set(2EA/Set)

### 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.

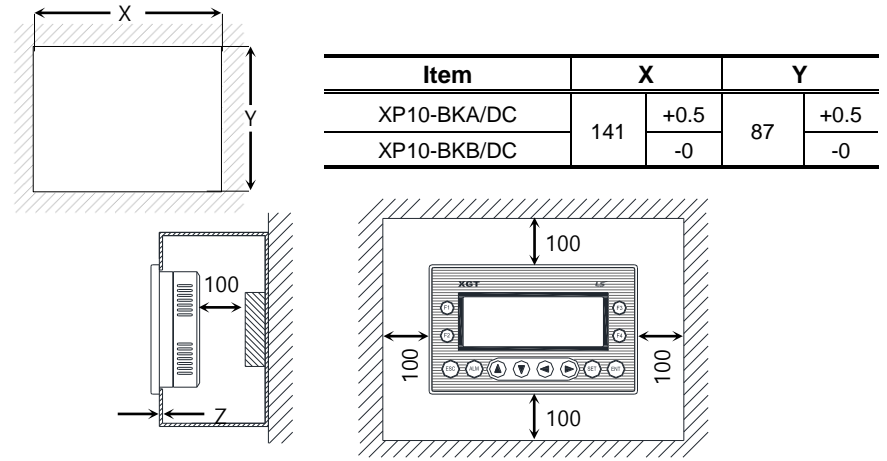


Item	Unit (mm)					
	A	B	C	D	E	F
XP10-BKA	150.0	93.0	140.0	83.0	6.0	35.0
XP10-BKB						

### 5 Mounting XGT Panel

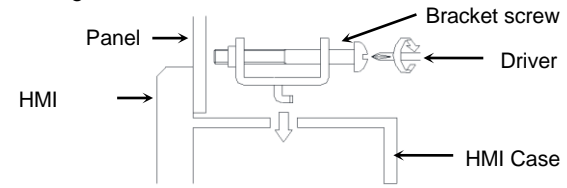
■ When you install the XGT Panel, a panel, designed to mount the XGT Panel inside should be specified and allowed for.

1) Panel Cut Dimensions (mm)



2) Mounting XGT Panel

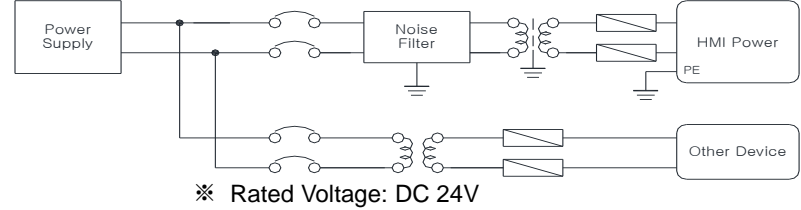
- Ensure that there is 100mm clearance around all sides of the panel to be affected at a minimum by the electromagnetic wave or heat.
- The panel thickness (Z) should be 1.6 ~ 9.5mm.
- Insert the mounting brackets into the XP insertion slots. Tightening the screws with too much force can damage the product. (The recommend torque is 0.62N · m)
- Use screwdriver to tighten brackets screw as illustration shown.



- For more information about affixing brackets and procedures, refer to user manual.

### 6 Wiring

■ Power wiring



- 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 power supply cable from the main circuit cable (high voltage and current) and input/output cable.
- Use the third grounding resistance (less than 100Ω) and use cables with a cross sectional area greater than 2.0 mm<sup>2</sup>.

■ PC connecting cable

XP10(Female)		PC(Female)	
Signal	Pin No.	Pin No.	Signal
-	1	1	-
TXD	2	2	RXD
RXD	3	3	TXD
RTS	4	4	-
GND	5	5	GND
-	6	6	-
-	7	7	RTS
-	8	8	-
-	9	9	-

- As using this cable, XP10 can connect to PC.
- Panel Editor program and O/S can be up/downloaded to PC with this cable.
- It is not the same cable as RS-232C, so be careful to confuse.

### 7 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.
- 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.

■ Change in specifications

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

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