



Human Machine Interface Installation Guide
XGT Panel
 eXP20-TTA/DC, eXP30-TTA/DC
 eXP30-TTE/DC, eXP40-TTA/DC
 eXP40-TTE/DC, eXP40-TTB/DC
 eXP60-TTA/DC, eXP60-TTB/DC



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

- 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 rage.
- Do not install the flammable things on surroundings.
- Do not use the HMI in the environment of direct vibration.
- Except expert A/S 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℃ ~ 50℃	-	
2	Storage temp	-20℃ ~ 60℃	-	
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	9.8ms ² (1g)	-
		Continuous vibration		
Frequency	Acceleration	Amplitude	10 times in each direction for X, Y, Z	
5 ≤ f < 9Hz	-	1.75mm		
9 ≤ f ≤ 150Hz	4.9ms ² (0.5g)	-		

3 Applicable Version

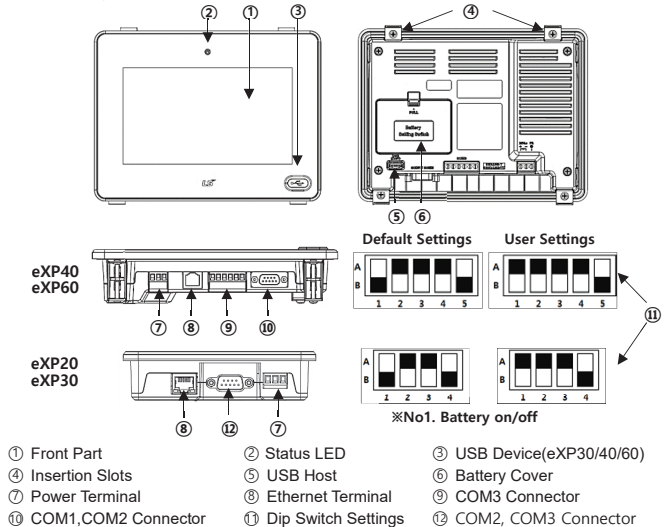
- For system configuration, the following version is necessary.
- Windows CE : V1.00 above
 - XP-Runtime/ XP-Builder : V2.03/V2.03(B) above

4 Accessory

- Check the battery attached in the XGT Panel.
- Use : Operating RTC when power Off
 - Standard : CR2032
- Check the mounting Brackets in the box
- Bracket Quantity : 1 set(four for eXP20/30/40, Six for eXP60)

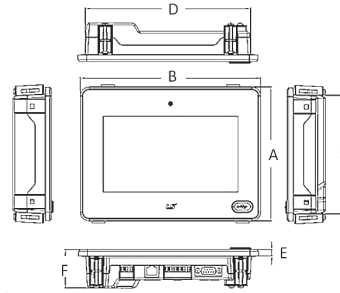
5 Parts name and Dimension

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



Dimension

[Unit: mm]

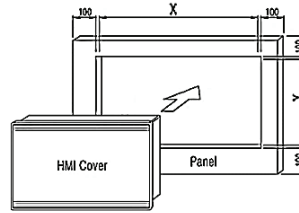


Item	eXP20	eXP30	eXP40	eXP60
A	102.0	132.5	154.0	218.0
B	128.0	165.0	208.0	276.2
C	92.5	123.0	137.5	201.5
D	118.5	155.5	191.5	259.5
E	5.5	5.5	7.4	
F	32.0	36.1	44.4	

6 Installation

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

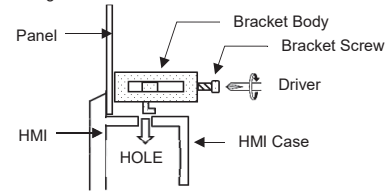
- Panel Cut Dimensions (Unit: mm)



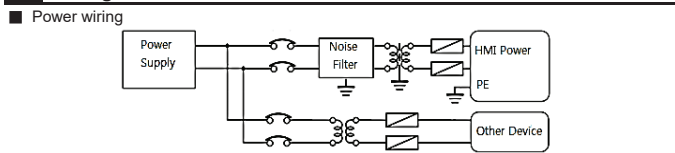
Item	Dimension		Tolerance	
	X	Y		
eXP20	119	93	+ 1	- 0
eXP30	156	123.5	+ 1	- 0
eXP40	192	138	+ 1	- 0
eXP60	260	202	+ 1	- 0

- 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 eXP insertion slots. Tightening the screws with too much force can damage the product. (The recommend torque is 0.66N · m)
- Use screwdriver to tighten brackets screw as illustration shown.



7 Wiring



Item	eXP20	eXP30	eXP40	eXP60
Rated voltage	DC 24V			

- 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. Maintain a minimum separation of 100mm between cables.

8 Warranty

- Warranty period
 LSIS 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 LSIS.
 - 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 LSIS manufactured the product.
 - The troubles caused by natural disaster.

LS ELECTRIC Co., Ltd. www.lselectric.co.kr 10310001448 V1.4 (2020.4)

• E-mail: automation@lselectric.co.kr



- Headquarter/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, Chungcheongnam-do, 31226, Korea