



Human Machine Interface Installation Guide

XGT Panel

eXP20-TTA/DC
 eXP40-TTA /DC, eXP40-TTB/DC
 eXP40-TTE/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°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	10 times in each direction for X, Y, Z
		5 ≤ f < 9Hz	-	3.5mm	
		9 ≤ f ≤ 150Hz	9.8ms ² (1G)	-	
		Continuous vibration		-	IEC 61131-2
		Frequency	Acceleration	Amplitude	
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 : V2.00/V2.00(B) above

4 Accessory

Check the battery attached in the XGT Panel.

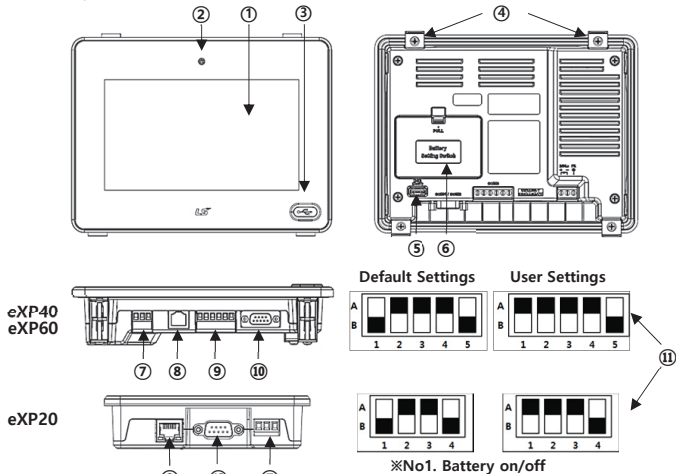
- Use : Operating RTC when power Off
- Standard : CR2032

Check the mounting Brackets in the box

- Bracket Quantity : 1 set(four for eXP20/40, Six for eXP60)

5 Parts name and Dimension

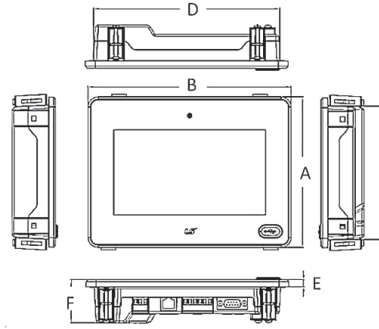
This is appearance of the eXP. Refer to each name when driving the system. For more information, refer to user manual.



- Front Part
- Status LED
- USB Device(eXP40/60)
- Insertion Slots
- USB Host
- Battery Cover
- Power Terminal
- Ethernet Terminal
- COM3 Connector
- COM1,COM2 Connector
- Dip Switch Settings
- COM2, COM3 Connector

Dimension

[Unit: mm]

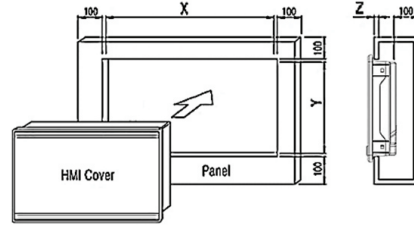


Item	eXP20	eXP40	eXP60
A	102.0	154.0	218.0
B	128.0	208.0	276.2
C	92.5	137.5	201.5
D	118.5	191.5	259.5
E	5.5	7.4	
F	32.0	44.4	

6 Installation

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

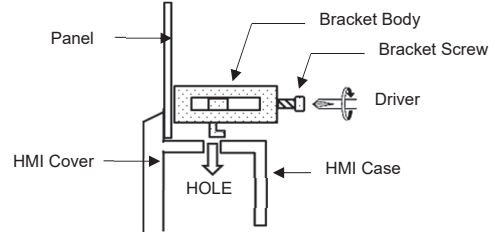
1) Panel Cut Dimensions (Unit: mm)



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

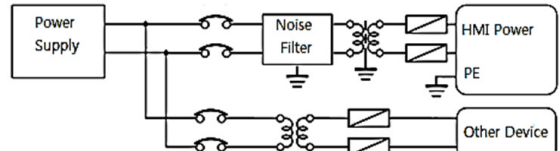
2) Mounting XGT Panel

- 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 ~ 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

Power wiring



Item	eXP20	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.

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10310001448, V1.0 (2016.7.)

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