C/N: 10310001448

LS XGT Panel

Human Machine Interface Installation Guide
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
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 rage.
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℃～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			-	IEC 61131-2
		Frequency	Acceleration	Amplitude	Count	
		5≤f<9Hz	-	3.5mm	10 times in each direction for X, Y, Z	
		9≤f≤150Hz	9.8㎧²(1g)	-		
		Continuous vibration				
		Frequency	Acceleration	Amplitude		
		5≤f<9Hz	-	1.75mm		
		9≤f≤150Hz	4.9㎧²(0.5g)	-		

3　Applicable Version

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

4　Accessory

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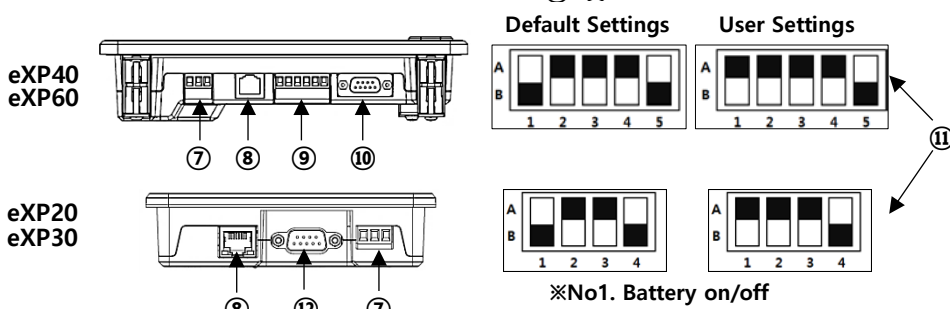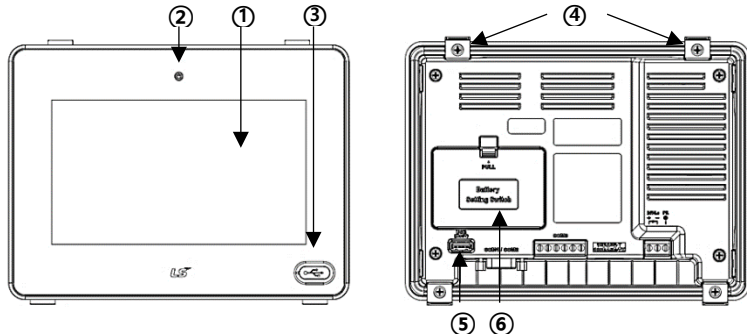1) Use　　　　 : Operating RTC when power Off
2) Standard　　 : CR2032
■ Check the mounting Brackets in the box
1) Bracket Quantity　 : 1 set(four for eXP20/30/40, Six for eXP60)
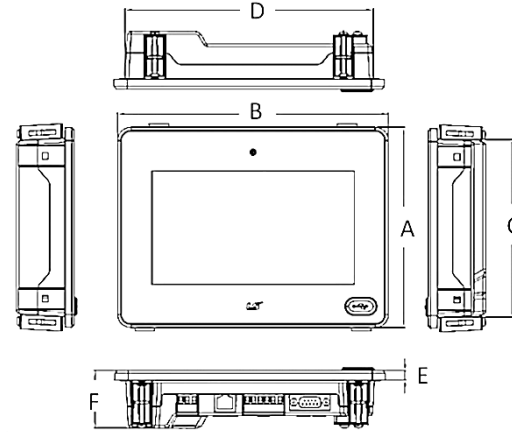
5　Parts name and Dimension

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

eXP40
eXP60

eXP20
eXP30

Default Settings　User Settings

※No1. Battery on/off

① Front Part
② Status LED
③ USB Device(eXP30/40/60)
④ Insertion Slots
⑤ USB Host
⑥ Battery Cover
⑦ Power Terminal
⑧ Ethernet Terminal
⑨ COM3 Connector
⑩ COM1,COM2 Connector
⑪ Dip Switch Settings
⑫ COM2, COM3 Connector

■ Dimension　　　　　　　　　　　　　[Unit: mm]
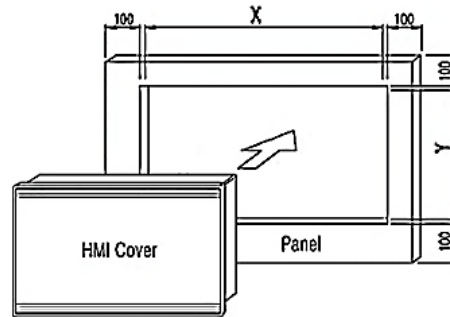

Item	eXP20	eXP30	eXP40	eXP60
A	102.0	132.5	154.0	218.0
B	128.0	165.0	208.0	276.2
C	92.5	123.0	137.5	201.5
D	118.5	155.5	191.5	259.5
E	5.5	5.5	7.4	
F	32.0	36.1	44.4	

6　Installation

■ When you install the XGT Panel, a panel, designed to mount the XGT Panel inside should be specified and allowed for.
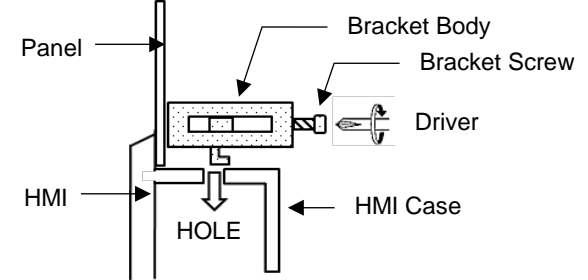1) Panel Cut Dimensions (Unit: mm)

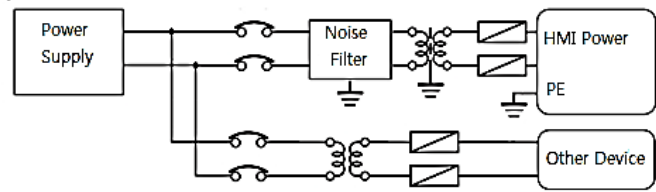| Item	Dimension		Tolerance	
	X	Y		
eXP20	119	93	+	1
			-	0
eXP30	156	123.5	+	1
			-	0
eXP40	192	138	+	1
			-	0
eXP60	260	202	+	1
			-	0

2) Mounting XGT Panel
① Ensure that there is 100mm clearance around all sides of the panel to be affected at a minimum by the electromagnetic wave or heat.
② The panel thickness (Z) should be 1.6 ~ 9.5mm.
③ 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)
④ Use screwdriver to tighten brackets screw as illustration shown.

7　Wiring

■ Power wiring

Item	eXP20	eXP30	eXP40	eXP60
Rated voltage	DC 24V			

1) In case that the power is out of rated voltage, connect constant voltage transformer.
2) 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.
3) 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
1) The troubles caused by improper condition, environment or treatment except the instructions of LSIS.
2) The troubles caused by external devices.
3) The troubles caused by remodeling or repairing based on the user's own discretion.
4) The troubles caused by improper usage of the product.
5) The troubles caused by the reason which exceeded the expectation from science and technology level when LSIS manufactured the product.
6) The troubles caused by natural disaster.