SIEMENS

APOGEE / DESIGO™ PX-HMI
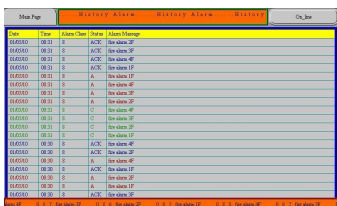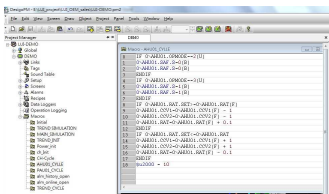# HMI-Touch Panel   LUI-Touch
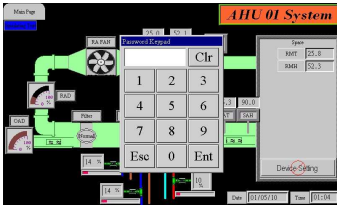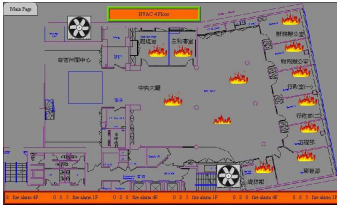

Description

LUI-Touch touch panel is an HMI with high performance and programmable functions to answer the needs for most of the BMS BACnet IP and MS/TP automation stations and systems.

With colorful high resolution screen, there is no compromise with its' response speed. The state-of-the-art industrial standard design makes LUI-Touch to easily handle harsh environments under long and steady operation time.

Features

- ➢ Supports SIEMENS APGOEE and DESGIO BACnet IP and MS/TP platform, also could be connection with BACnet LON via DESIGO PXG80-N BACnet Router.
- ➢ One million touch operated guaranteed.
- ➢ Multilingual supported, such as English, French, Germany, Italian, Espaniol, Traditional/Simplified Chinese, Japanese, Korean….etc

- ➢ Macro Programme:
  - ■ Easy macro syntax genie supports you to design your control logic between HMI and communication device.
  - ■ More function types of macro definition for startup, main, event, time, point on/off and page on/off to selection

- ➢ Alarm:
  - ■ Provide alarm definition in LUI-Touch that include history alarms, on-line alarms and PopUp alarm massage.
  - ■ Totally 8 level alarm colur defined.
  - ■ Totally 16 zone alarm define and spearted for digital and analog alarm, analog alarm can be set of Hi/Hi-Hi and Low/Low-Low level indication.
  - ■ Standard alarm list page for on-line and history.

- ➢ Security:
  - ■ Total of 8 level password define to operating priority.
  - ■ The viewable, controllable of priority setup for each objects

definition, such as button, info-block, graphic page, trend chart page…etc.

- Auto logoff, login setup and screensaver enable.

➢ 100% quality test and industrial standard coating cases let LUI-Touch look reliable and nice.

➢ Adopts 32 bits high function; high reliability and fan- less ARM CPU.

➢ Equipped with genuine 65535 true colors or 256 colors, high brightness TFT modules.

➢ Provides RS232/422/485 communication ports available in standard models.

➢ The standard pre-set 4 to 128MB backup flash memory, which can expand up to 2GB Micro SD or USB Flash disk, allows user to store alarms, events and historical data.

➢ Supports multi - languages, Windows build- in Fonts, BMP and JPG graphics and GIF animations.

➢ Provides transparent communication for designers to save their program adjustment time.

➢ The extension bus extends various customized devices, such as motion control, temperature control, communication module and I/O module…etc.

➢ High speed Ethernet and USB host port supports runtime database upload and download remote communication.

➢ Support MODBUS TCP/RTU/ASCII..communction protocol.

➢ Schedule:
- Include standardlize schedule module.
- Total of 48 Schedule objects including normal and specical day.
- Support customer difined.
- Support group Ucc/Unocc via Macro programme.

➢ FTP Server supports, could be down/up load from remote PC station.

➢ Standard message indication. Show all of operatng recode on panel.

Applications:
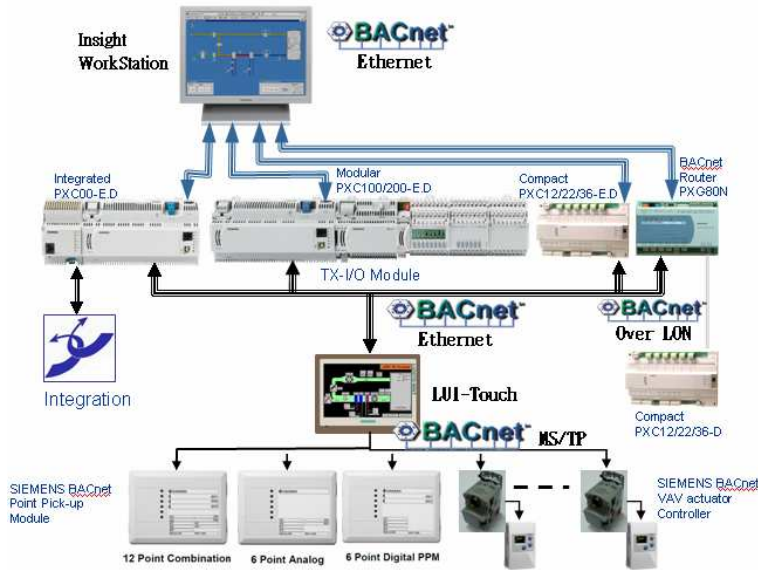
Description for model 4.3", 7.0", 8.0", 10.0" and 12.1" type:

➢ Via Ethernet port for connecting one to four BACnet /IP Automation Controller.
➢ Via serial port for connecting one to four BACnet MS/TP DDC device.
➢ Only support BACnet standard object AI, AO, AV, BI, BO, BV, MI, MO, MV object type.
➢ Support Modbus RTU and TCP protocol connection.
➢ Customize graphic design..

Description for model 5.7" and 3.5" type:
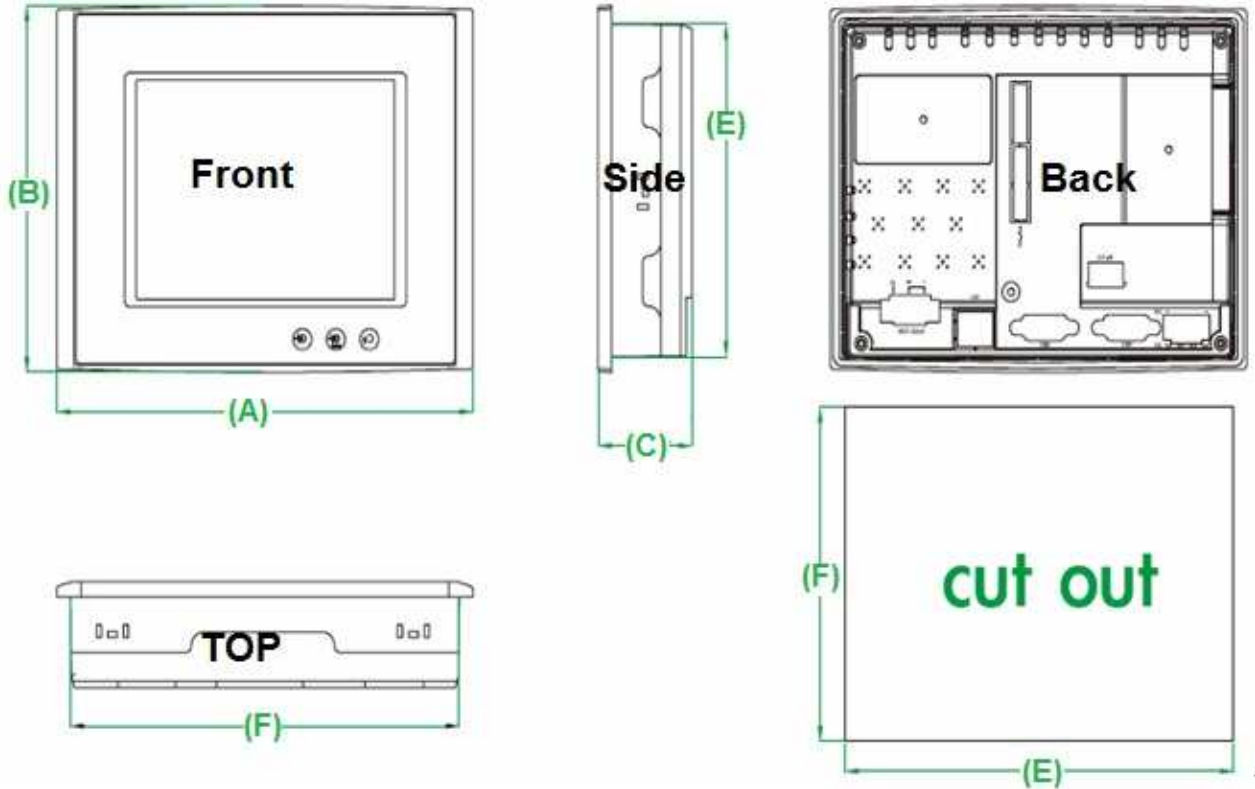
➢ Via Ethernet port for connecting one BACnet /IP Automation Controller.
➢ Via serial port for connecting one BACnet MS/TP DDC device.
➢ Only support BACnet standard object AI, AO, AV, BI, BO, BV, MI, MO, MV object type.
➢ Support Modbus RTU and TCP protocol connection.
➢ Customize graphic design.. 。

Dimensions:

Model Number:	Outlet Dimensions:	Cutout Dimensions:
LUI035-TNT	(A)130 mm W / (B)106.2mm H / (C)37 mm T	(E)118.5 mm / (F)92.5 mm
LUI043-WNT	(A)130 mm W / (B)106.2 mm H / (C)37 mm T	(E)118.5 mm / (F)92.5 mm
LUI043-WNT1S	(A)130 mm W / (B)106.2 mm H / (C)37 mm T	(E)118.5 mm / (F)92.5 mm
LUI058-TNT	(A)188 mm W / (B)143 mm H / (C)45 mm T	(E)174.5 mm / (F)132.5 mm
LUI070-WNT	(A)188 mm W / (B)143 mm H / (C)40 mm T	(E)174.5 mm / (F)132.5 mm
LUI070-WNT1S	(A)188 mm W / (B)143 mm H / (C)40 mm T	(E)174.5 mm / (F)132.5 mm
LUI080-TNT	(A)232.5 mm W / (B)175.8 mm H / (C)49 mm T	(E)221.5 mm / (F)164 mm
LUI104-TNT	(A)297 mm W / (B)224 mm H / (C)52 mm T	(E)285.5 mm / (F)210.5 mm
LUI121-TNT	(A)315 mm W / (B)241 mm H / (C)54.5 mm T	(E)301.5 mm / (F)228.0 mm

Building Technologies

Connections / 腳位圖

Power Supply / 電源供應

⚠️ Powered by a Low Voltage / Limited Energy power source.
以低電壓提供電力 / 限制能量電源。
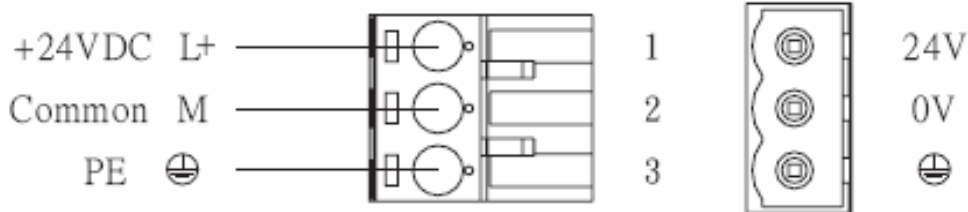
LUI043/070

COM1 (DB-9-Female)	
Pin	Description:
1	RD-422 TXD+ / **RS-485 +**
2	**RS-232 RXD**
3	**RS-232 TXD**
4	**RS-422 RXD+**
5	**GEN**
6	RS-422 TXD- / **RS-485-**
7	**RS-232 TXD for COM3**
8	**RS-232 RXD for COM3**
9	RS-422 RXD-

Com2(5 pins)

Option
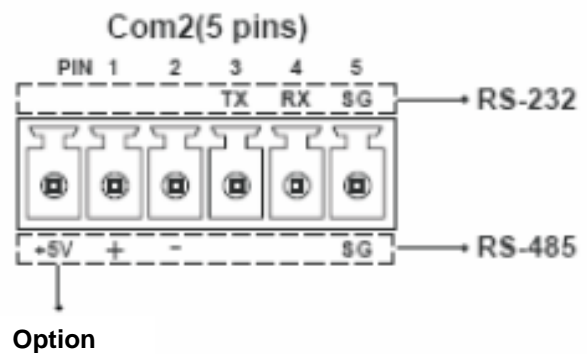
LUI035 Back View
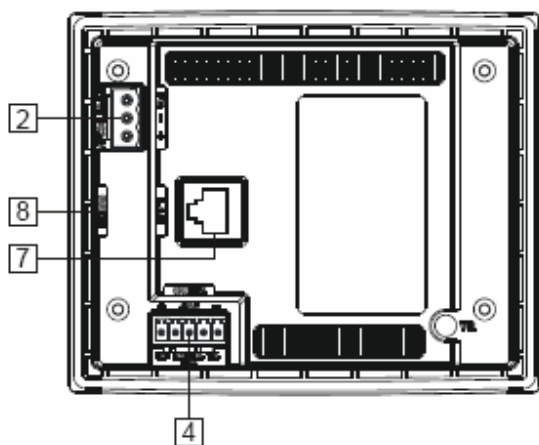
LUI104 Front View
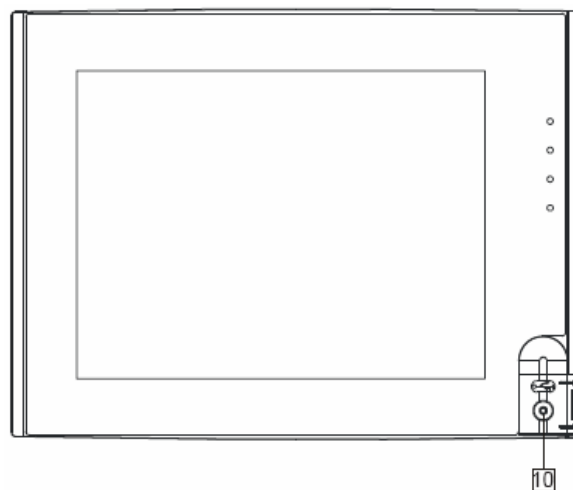
LUI058 Back View
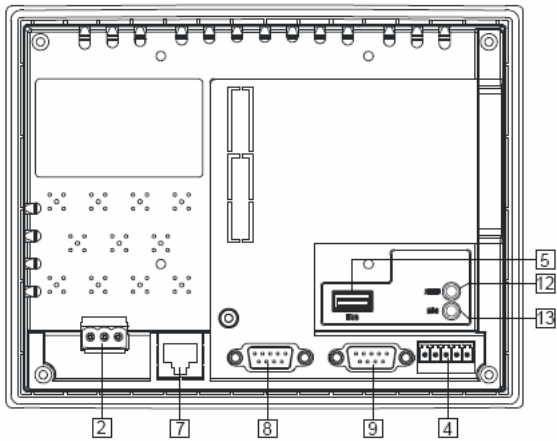
Parts Introduction

1. Power connector (jack)
2. Power connector (terminal)
3. Com3 6pin (terminal)
4. Com2 5pin (terminal)
5. USB connector
6. USB connector
7. Ethernet port (for NT/AT models)
8. Com1 9 pin female
9. Com2 9 pin male
10. USB front connector
11. Dip switch
12. Audio
13. Mic
14. Com2 4pin(terminal)

LUI080/121 Back View
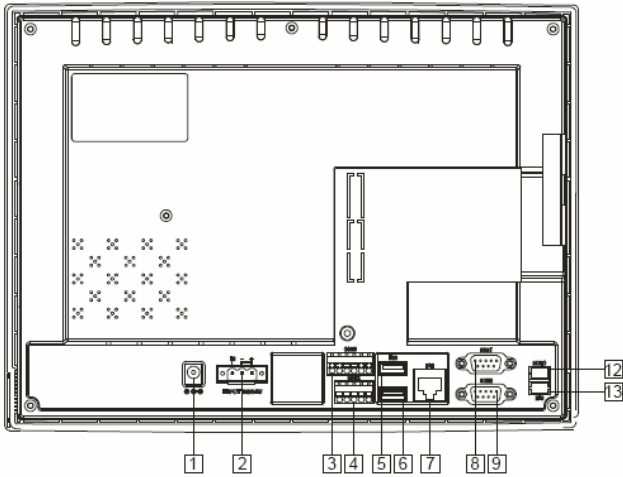
Com 1 (DB-9 Female)

Pin	Description
1	RD-422 TXD+ / RS-485+
2	RS-232 RXD
3	RS-232 TXD
4	RS-422 RXD+
5	GND
6	RS-422 TXD- / RS-485-
7	RS-232 RTS
8	RS-232 CTS
9	RS-422 RXD-

Com 2 (DB-9 Male)

Pin	Description
1	
2	RS-232 RXD
3	RS-232 TXD
4	
5	GND
6	
7	RS-232 RTS
8	RS-232 CTS
9	Optional 5V output

Com2(4 pins)

TX+ RX+ RX- TX- → 422

+ - → 485

Com2(5 pins)

TX+ RX+ RX- TX- SG → 422

+ - → 485

Com3(6 pins)

+5V CTS RTS TXD RXD SG → RS-232
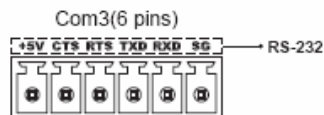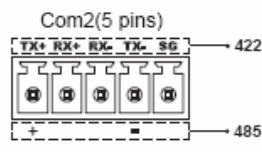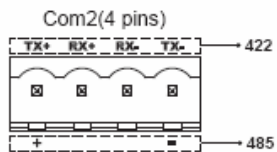
Technical Specification:

A: LUI035-TNT , B: LUI058-TNT , C: LUI043-WNT , D: LUI043-WNT1S E: LUI070-WNT , F: LUI070-WNT1S , G: LUI080-TNT , H: LUI104-TNT I: LUI121-TNT			A	B	C	D	E	F	G	H	I
Display	Type	TFT LCD Module	●	●	●	●	●	●	●	●	●
	COLORs	65,536 colors			●	●	●	●	●	●	●
		256 colors	●	●							
	BACKLIGHT TUBE	LED Backlight 200,000 Hrs	●		●	●	●	●			
		CCFL Backlight		●					●	●	●
	Brightness (cd/㎡)		350	350	350	500	300	300	450	450	450
	RESOLUTION(Pixels)		320*240	320*240	480*272	480*272	800*480	800*480	800*600	800*600	800*600
	SIZE(Inch)		3.5	5.7	4.3	4.3	7.0	7.0	8.0	10.4	12.1
	Touchscreen	Hardness/4H, 4-wire analog resistance	●	●	●	●	●	●	●	●	
		Hardness/4H, 8-wire analog resistance									●
CPU	Nuvoton	NUC950ADN 32bits			●	●	●	●			
	Cirrus	EP9037 32bits							●	●	●
	NXP	LH75411-NOQ 32bits	●	●							
O.S		NEO RTOS	●	●	●	●	●	●	●	●	●
Application memory.		8M + 128MB NAND Flash			●	●	●	●			
		4MB	●	●							
		16MB							●	●	●
Battery backup memory		128KB(Standard)	●	●	●	●	●	●	●	●	●
Working memory		1MB SDRAM		●							
		2MB SDRAM	●								
		64MB SDRAM							●	●	●
		128MB SDRAM			●	●	●	●			
Interface	Series	COM1:RS232	●	●	●	●	●	●	●	●	●
		COM2:RS232/422/485	●	●	●	●	●	●	●	●	●
		COM3:RS232							●	●	●
	Ethernet	10/100Mbps	●	●	●		●		●	●	●
	USB	2 port USB Host Ver2.0 FULL Speed			●	●	●	●	●	●	●
	Expansion	Micro SD card			●	●	●	●	●		
	Print Port	USB device port			●	●	●	●			
		COM Port							●	●	●
Power	Input power	DC20V ~ DC28V	●	●	●	●	●	●	●	●	●
	Consumption (W)		8	10	15	15	20	20	20	20	20
Operation Temp		0~50 ℃(32~ 120℉)	●	●	●	●	●	●	●	●	●
Relative Humidity		10% ~ 90%RH	●	●	●	●	●	●	●	●	●
Vibration	10 to 55Hz (X, Y, Z axial, 1G Hz 30 Minutes vibration test)		●	●	●	●	●	●	●	●	●
EMI		FCC Part 15 Class A	●	●	●	●	●	●	●	●	●
CE	EN55022，EN61000-4-2，EN61000-4-3，EN61000-4-8		●	●	●	●	●	●	●	●	●
Protection class		NEMA4／IP65(front panel) standard	●	●	●	●	●	●	●	●	●
Cooling		Free cooling	●	●	●	●	●	●	●	●	●
Approvals		CE/FCC	●	●	●	●	●	●	●	●	●
Schedule object.		Support schedule control			●	●	●	●	●	●	●
Net Weight (kg)		0.54 kg	0.45	0.85	0.3	0.3	0.54	0.54	0.9	1.4	2.2

Order Information:

P/N	Description	MOQ
LUI035-TNT	3.5 inches 256 color touch screen with Ethernet Port.	10
LUI043-WNT	4.3 inches full color touch screen with Ethernet Port.	5
LUI043-WNT1S	4.3 inches full color touch screen with Serial Port only.	5
LUI058-TNT	5.7 inches 256 color touch screen with Ethernet Port.	5
LUI070-WNT	7 inches full color touch screen with Ethernet Port.	3
LUI070-WNT1S	7 inches full color touch screen with Serial Port only.	3
LUI080-TNT	8.0 inches full color touch screen with Ethernet Port.	1
LUI104-TNT	10.4 inches full color touch screen with Ethernet Port.	1
LUI121-TNT	12.1 inches full color touch screen with Ethernet Port.	1