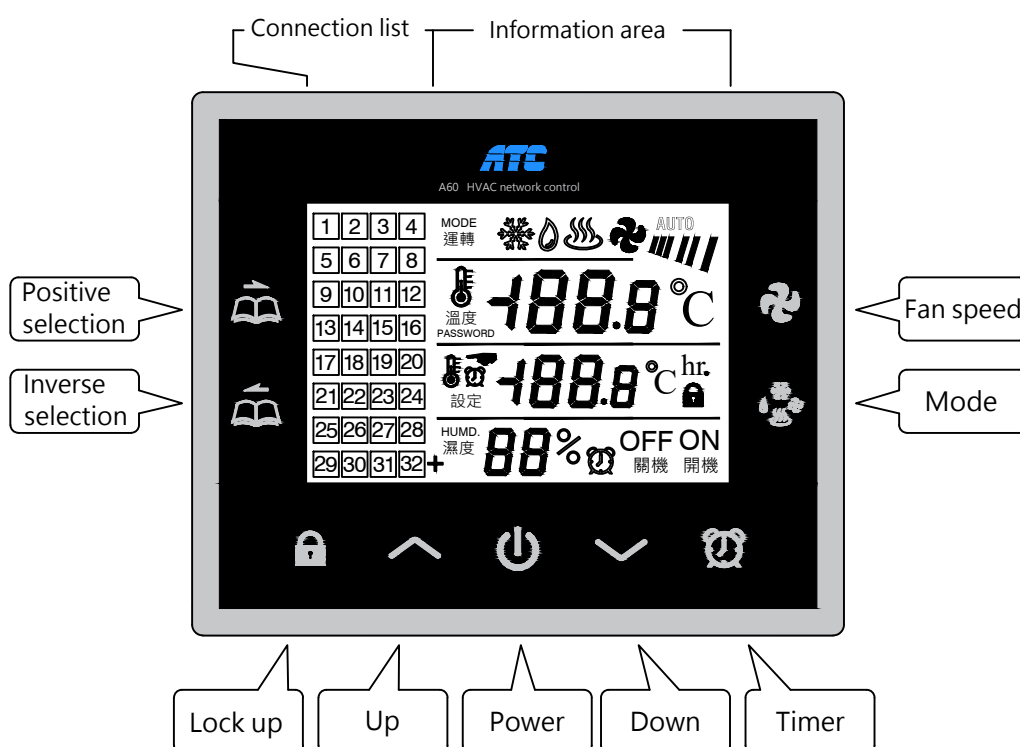# A60KP Centralized HVAC Control System

● Features :

- ● Central monitoring panel, centralized connection and management of FCUs.
- ● Large LCD backlit screen with Chinese and English and graphic display.
- ● The stable CVD capacitive touch buttons make the operation smooth
- ● The full list will actively warn of errors.
- ● Temperature display and setting are accurate to 0.1 degrees Celsius.
- ● The power-off reset function ensures that the setting data is retained.
- ● Dual-channel Modbus with network gateway function to connect to the host monitoring.

● Operating Instructions :

Connection list　Information area

Positive selection

Inverse selection

Fan speed

Mode

Lock up　Up　Power　Down　Timer

▼ Notice

※ The system must wait for more than 30 seconds when powering on for the first time. If the operation is too fast, poor connection may occur. If it occurs, please power on again after 10 seconds of power failure and extend the waiting time

※ When any connected air conditioner is turned on, the backlight of the panel will automatically light up, and the bottom right corner of the screen will display "Power ON"; when the air conditioners are all turned off, the bottom right corner of the screen will display "OFF OFF", and the backlight will go out. .

※ Due to the sequence of start and stop, the action time of each full-on or full-off depends on the total number of connections.Please wait for the full list to display all the actual switch machine numbers before performing other adjustment and setting button operations.

※ When the connected air conditioner has a fault, the station number will show continuous flashing phenomenon. After pressing the select station to enter, the fault code will be displayed as follows:

CE: Controller failure	SE: Temperature sensor failure	hE: Humidity sensor failure

▼ GROUP OPERATING INSTRUCTIONS :

Power ON/OFF ⟹ ● Press ⏻ key will power-on or power-off the non-locking air-conditioning.

Temp. adjust ⟹ ● Press the ⌃ key to raises 0.1°C or the ⌄ key to reduce 0.1°C, hold down the ⌃ key to raises or the ⌄ key to reduce 1°C quickly.

Mode select ⟹ ● Press ❄ key once to select operating mode as following order :
Cooling ❄ > humidity HU > Fan only ❀ > Heating ♨ > Fan only ❀ > Cooling cyclicing.
 ✳ If the humidity sensor is equipped, the screen can show and set the humidity level from 20% to 90% in the humidity mode. If don't, the " Hd " will shown.

Fan speed ⟹ ● Press the ❀ key once to select fan speed as following order :
Auto ❀$_{AUTO}$ > High ❀ I > Middle ❀ II > Low ❀III > Auto ❀$_{AUTO}$ cyclicing.
 ● When into the fan select mode, once press the ⌃ key to raise 1 section till speed 20 (max.) or the ⌄ key to reduce 1 section till speed 1 (min.) . (Only for XE controller)

Timer ON/OFF ⟹ ● Press the ⏰ key will automatically select timer-on or timer-off mode.
 ● Input 0~24 hours by press ⌃ ⌄ keys, press ⏰ key again to active the timer running.

Lock & Unlock ⟹ ● Keep press the 🔒 key until the lock sign 🔒 appear will lock up all of keys except the ⏻ key, repeat once till the lock sign 🔒 disappear will unlock the keys.
 ● The lock on the main screen is only for the centralized control panel itself, the on-site panel can still be operated and set.

▼ INDIVIDUAL SETTINGS :

✳ Press the forward key 🔼 or the backward 🔽 key to select the number of the device to be controlled. At the moment when the station's number flashes, the information field on the right shows the status of the air conditioner in real time. At this time, you can directly perform individual settings and operations for the air conditioner, automatically return to the main screen after leaving the hand for 15 seconds after the setting is completed.

✳ For individual operations, please refer to the above group setting instructions for direct operations. However, the timer function cannot be individually set.

✳ Individual lock-on :

 ● When an air conditioner wants to leave the group on/off command, first press the channel selection button to select the station number and then press and hold the lock button until the lock symbol appears on the screen, which means that the station has been individually locked. This lock station will not receive group power on/off commands.

 ● When individual lock stations need to be set through monitoring, it must be unlocked before issuing an order. When the instruction is executed, the next lock instruction is executed to restore the locked state.

 ● Repeat individual lock steps untill the lock symbol disappears, it will be unlocked and return to the state of receiving group switch control.

◉ Installation :

● Dimensions :
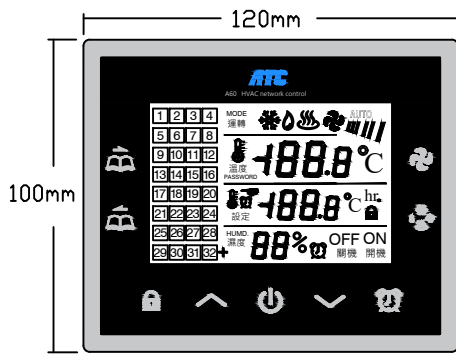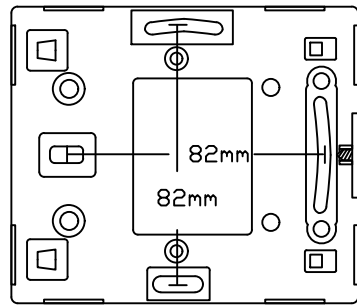
A60KP Main body   Bottom plate   Power supply (2 general type)
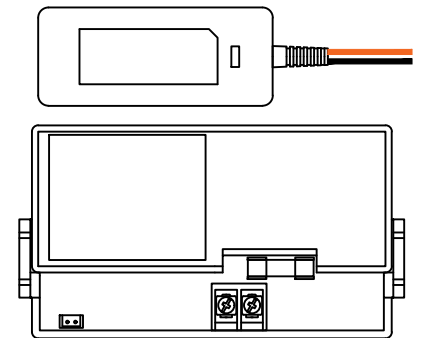
● Wiring Diagram (back of the panel)

DC12V

Uplink Modbus   CN1

AC100~240V   Power supply

Connect to the monitoring host or the previous A60

CN2

R (+)
W (-)

R (+)
W (-)

Connect terminal resistance or the next A60

Connect to the Controller

R (+)
W (-)

CN3

Downlink Modbus

SW2 Setting

5 : OFF=Normal mode   ON=Test mode
4 : OFF=Normal mode   ON=Reset
3 : OFF=Normal memory mode   ON=Power on - all turn off
2 : OFF=Normal memory mode   ON=Power on - all turn on
1 : OFF=Chinese mode   ON=English mode

★ After NO4 & 5 operations of SW2 are completed, you must switch back to OFF to use the panel normally.

(NO.1)

1~63 Address codes

NO.2   NO.3   NO.4   NO.5
NO.6   NO.7   NO.8   NO.9
NO.10   NO.11   NO.12   NO.13

Please refer to the coding chart for other station addresses

● Install the panel into the fixed bottom plate :

1. Align left and press

left   right

Installed wall

2. Move panel left

Installed wall

3. Place the panel

⇐ screw

Installed wall
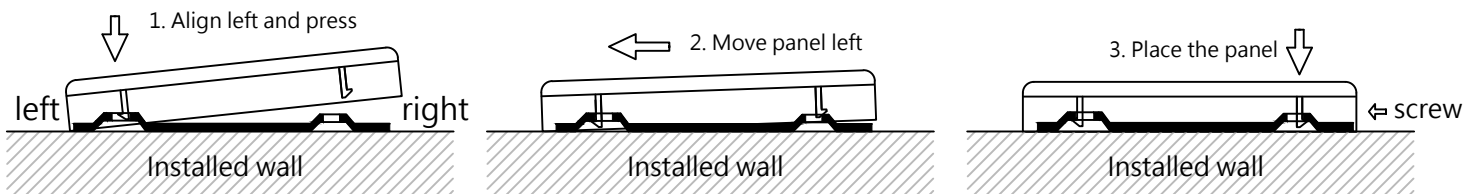
● Take out the panel from the fixed bottom plate :

1. Move panel right

⇒ screw

Installed wall

2. Unhooking from the left to the front

Installed wall

3. Shake the right half to unhook

Installed wall
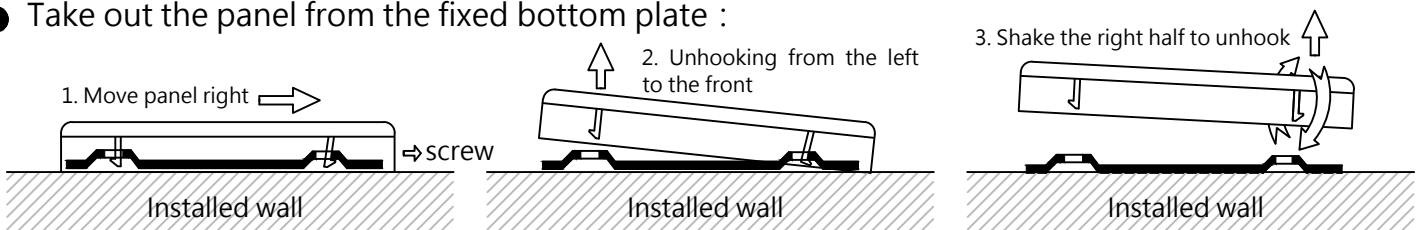
▼ IP ADDRESS SETTINGS :

NO.14	NO.15	NO.16	NO.17	NO.18	NO.19	NO.20	NO.21

NO.22	NO.23	NO.24	NO.25	NO.26	NO.27	NO.28	NO.29

NO.30	NO.31	NO.32	NO.33	NO.34	NO.35	NO.36	NO.37

NO.38	NO.39	NO.40	NO.41	NO.42	NO.43	NO.44	NO.45

NO.46	NO.47	NO.48	NO.49	NO.50	NO.51	NO.52	NO.53

NO.54	NO.55	NO.56	NO.57	NO.58	NO.59	NO.60	NO.61

NO.62	NO.63

※ To avoid communication errors or blank errors during continuous reading, the IP address setting must not be repeated and the encoding setting must be in a continuous number.

◉ Technical Specifications :

Input power	AC 90~240V, 50/60Hz general convert to DC12V 400mA power supplier
Display type	English graphics comparison 4 "LCD with LED back-light screen（80×50mm）
Protocol type	RS485 Serial communication（Max. 1200m）
Temp. set detail	Detect range：-55.0~125.0 ℃ / Set range：5.0~35.0 ℃ (Original), -50.0~120.0 ℃ (Max.) / Resolution：0.1 ℃
Humidity set detail	Detect range：1~90% & Set range：20~90% & Resolution：1%
Fan speed control	3 speed (XF) / 3 & 20 speed (XE) auto/manual
Operation mode	Cool / Humidity / Fan only (/ Heat)(/ Auto)
Operation key	CVD Capacitive touch panel
Communication protocol	Modbus RTU 9600 or 19200 bps N,8,1
Communication wire	UL2464 AWG22×2C Twisted-pair & Shielded wire
connected devices	Up Link：63 / Down Link：40（Max. 2520）
Dimensions	L×W×H：120×100×16（mm）
Protect class	IP 52

● The company reserves the right to modify the catalog information at the end.

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