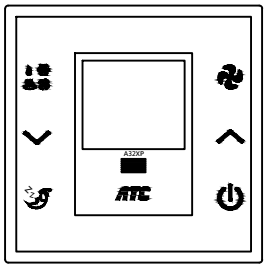
A32XP LCD Digital Thermostat

◉ Features :

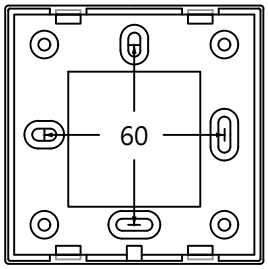
- Standard European size. ● Adjustable lighting level LCD screen.
- Intuition graphic touch keys. ● 0.1°C Temperature accuracy.
- Smart progressive speed up/down keys.
- Several controllers fit 3 speed or EC motor for FCU and AHU.
- Fusion 3 speed fast & 20 speed fine-tuning for the XE model.
- Outfit RS-485 port operated by the MODBUS RTU open protocol.
- Optional humidity sensor for temperature and humidity control.

◉ Dimensions : (L x W x H) mm

Control Panel 86 x 86 x14.5

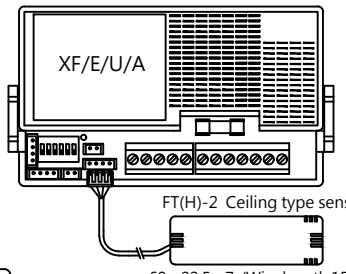


A32XP Main body



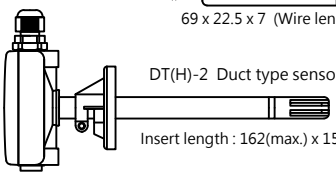
Bottom plate

XF/XE/XU/XA Controller 115 x 68 x 38



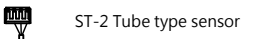
FT(H)-2 Ceiling type sensor

69 x 22.5 x 7 (Wire length 150cm)



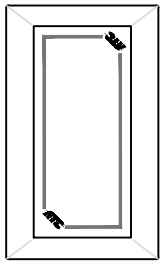
DT(H)-2 Duct type sensor

Insert length : 162(max.) x 15φ



ST-2 Tube type sensor

* Wire length 150cm
* SUS304 steel tube



RT(H)-2 Room type sensor
120 x 72 x 20

◉ Operating Instructions :

Power ON/OFF
- Touch the ⏻ key once will start or stop the air-conditioning operating.

Temp. adjust
- Touch the ^ key to raises 0.1°C or the v key to reduce 0.1°C, Keep touch the ^ key to raises or the v key to reduce 0.1°C quickly.

Back-light mode
- Keep touch the ^ & v key till the beeper sound will change the back-light mode into the lighting 12 second mode, Once again will back to the on-bright/off-dark mode.

Mode select
- Touch the key will change the operating mode as following order :
  Cool > humidity > Fan only > (Heat) (> Auto AUTO) > Cool 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.
✶ Connected with the cool/heat controller : Allowed select into heat mode.
✶ Connected with the 4-pipe/heater controller : Allowed select into auto AUTO mode.

Fan speed
- Touch the key once to select fan speed as following order :
  Auto AUTO > High > Middle > Low > Auto AUTO cyclicing.
- How to select manual 20 section speed ? (Only for XE controller)
  When into the fan select mode, once touch the ^ key to raise 1 section till speed 20 (max.) or the v key to reduce 1 section till speed 1 (min.).

✶ Some of the air-conditioning system may not allow into some inappropriate speed.

Sleep mode
- Touch the key while cooling mode will enable the sleeping mode ,
  The setting temperature will rise 1°C after half hour and rise 1°C again after one hour.

✶ Keep touch the key over 5 second when the A/C is power-on will into the back-light brightness adjust mode, Touch the ^ v key to select most favorite brightness.

Timer on/off
- Touch the + ⏻ key together when power-on will into the timer-off mode, Touch the + ⏻ key together when power-off will into the timer-on mode, Use the ^ v key to input or modify the hours,Touch the + ⏻ key once again to confirm and start the timer.

Lock & Unlock
- Keep touch 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.

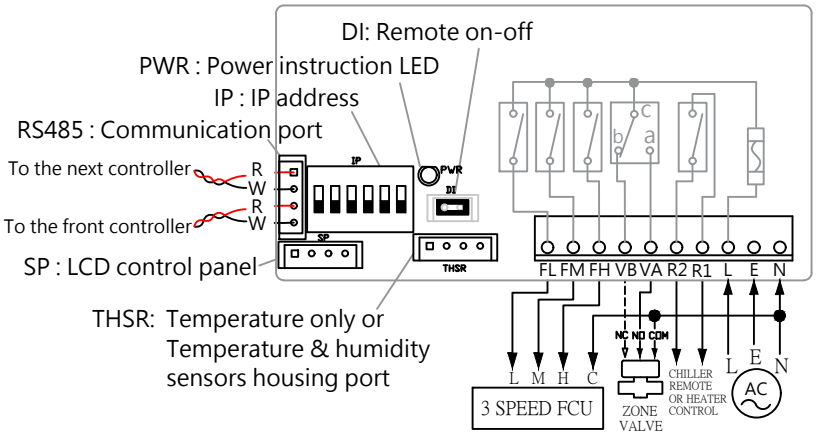
✶ The difference of the display and setting degree effected by the air-conditioner's ability or the change of loading , There is no any guarantee to whether the same value or the tolerance degree about this thermostat.

Wiring diagram :

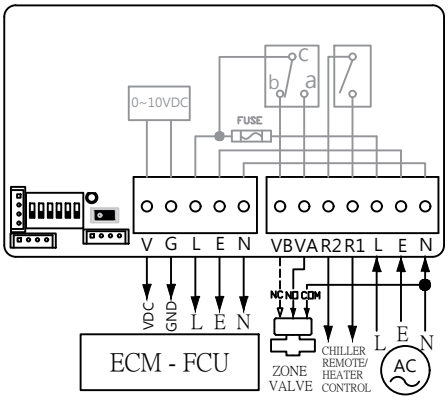
NOTICE

- The sensor must be position in the return air path, Never put into the drain plate or close to the coil / motor / vent air positions etc.
- Remove the unused wire connectors, But the DI must be keep it on for actuate the power on/off.
- No need to set IP if the RS485 unused, Implement the power reset when changed the IP address.
- The RS-485 cable must be used UL2464 AWG22 x2C Twisted-pair & Shielded wire according with " one-in & one -out " rule connecting with all of the devices, Never set any branch in the halfway.
- When control with the direct split A/C, Chose the 'DE' controller, Use VA for the outdoor unit & R1/R2 to control with the 4-way valve.

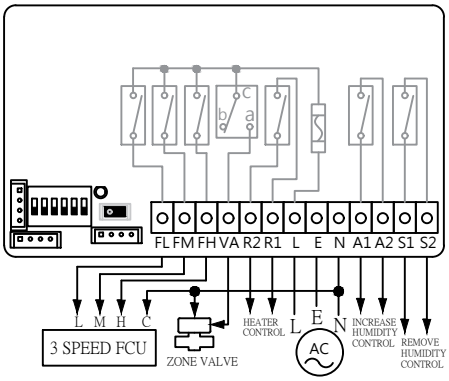
● XF 3 speed controller



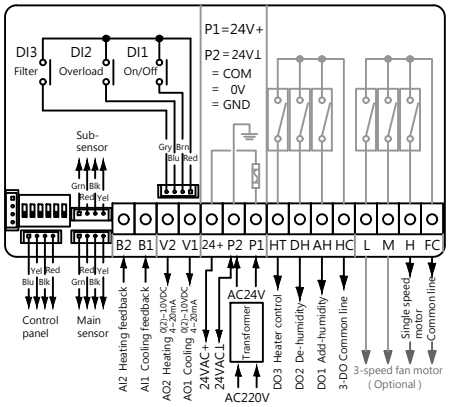
● XE EC motor controller



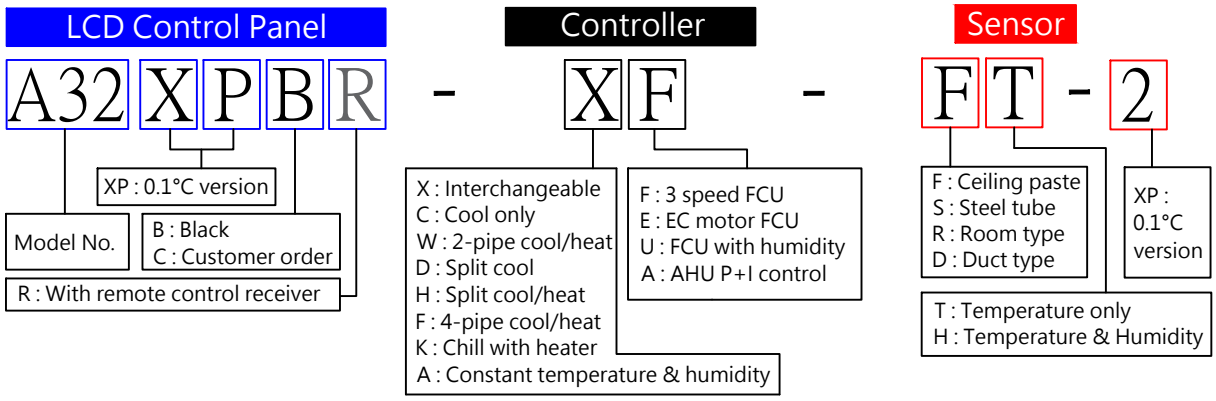
● XU 3 speed with humidity controller



● XA AHU P+I controller



How to order :



Technical Specifications :

Input power	AC 90~240V, 50/60Hz general
Display type	LCD with back-light screen
Operation key	Graphic CVD touch key
Control panel	European size 86x86 mm
Temp. set range	5.0~35.0 °C (Original) -50.0~120.0 °C (Max.)
Temp. detect range	-55.0~125.0 °C
Temp. resolution	0.1 °C
Operation mode	Cool / Humidity / Fan only (/ Heat)(/ Auto)
Protect class	Control panel: IP53 Tube type sensor: IP65
Output capability	3-speed : 5A/220VAC ; Valve / Chiller : 3A/220VAC
Temp. sensor	Digital thermometer

Support fan motor	3-speed motor (XF) / EC motor (XE)
RPM control (XE)	0~10VDC correspond 0~1200 RPM
Air volume control	3 speed (XF) / 3 & 20 speed (XE) auto/manual
Communication wire	Panel vs controller: 0.5mm² x 4C; longest 100 meters
RS485 protocol	Modbus RTU 9600 or 19200 bps N,8,1
Remote control	Infrared receiver (Fit for R30RC)
Humidity sensor	Integrated circuit module
Humidity set range	20 ~ 90 %
Humidity detect range	20 ~ 90 %
Humidity resolution	1 %

* These items in the red frame are the optional accessories.
* The specifications maybe changed without notice. 2021.12 V1.3

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