

A69 SERIES

Temperature & Humidity Controllers

- Slim frame measures 13mm in thickness
- High contrast LCD and user-friendly interface
- Manual or automatic fan speed selection
- Anti-freeze protection
- Temperature display selection in Celsius / Fahrenheit
- 7-day schedule programming
- Modulating valve control
- Supports remote/external temperature sensor
- Supports energy saving by dry contact (room key)
- Flush-mounting. 86-86 wall-mount installation box
- Gloss white/black available for selection
- Touch keys on LCD x5



VERSATILE FOR YOUR APPLICATION

The A69 series thermostats operate as stand-alone units, or with Modbus, BACnet, and LoRaWAN systems. Easy to commission and configure, A69 offers a practical and reliable solution for system integration. In the RTU configuration, A69 supports auto-discovery and data exchange via a simple and reliable protocol preferred by big brands in the energy and construction industries. Models equipped with LoRaWAN modules enable the roll-out of IoT applications and provide seamless interoperability among smart devices. Compatible with both 3-speed fan-coil units and modulating EC fan motors, A69 is widely applicable in HVAC system designs.

The A69 Series features the minimalist design that compliments your modern interior décor and details. Color screen option is available in selected models.

Technical Specification

Operating Voltages	110V _{AC} ~ 240V _{AC} 50/60HZ 24V _{AC} 50 /60HZ
Control Signal	Modulating, On/Off
Load Capacity	Fan: Resistive Load 3A & Inductive Load 1A Valve: Resistive Load 2A
Protection rating	IP20
Temperature Setting Range	10 ~ 35°C
Operating Temperature	0 ~ 50°C
Relative Humidity	5 ~ 95% R.H. non-condensing
Terminal	2mm ² cable

Ordering Part Numbers

Model	Application	Communication	Ventilation Mode	Display	Operating Voltage
TA692FC-W	FCU	Wi-Fi	Yes	Monochrome	110~240V _{AC}
HA692	Dehumidifier	Standalone	No	Monochrome	110~240V _{AC}
TA692EC	EC Fan	Standalone	Yes	Monochrome	110~240V _{AC}
TA692PF-COL	Appliance	Standalone	No	2.4" TFT	110~240V _{AC}
TA692FC-MOD	FCU	Modbus	Yes	Monochrome	110~240V _{AC}
TA692FC-L	FCU	LoRaWAN	Yes	Monochrome	110~240V _{AC}

Product Design



Display and Keys



- 1 Time
- 2 Room Temperature
- 3 Current Set Point
- 4 Temperature Unit
- 5 Current Program
- 6 Heat / Cool Mode
- 7 Auto-changeover
- 8 Valve output status: On / Off
- 9 Fan status: Low / Med / High / Auto
- 10 Wi-Fi connection status
- 11 Dual-function Mode / Menu key
- 12 Dual-function Clock / Scheduling key
- 13 Dual-function Fan / System ON key
- 14 Adjust set point or value of setting

Operating Modes

Comfort

By default, A69 operates in comfort mode under normal conditions. Press the Up or Down keys to freely adjust the temperature. For communicating models, the synchronization with server occurs within several seconds.



Forced Ventilation

Press the mode key to enter the ventilation mode. In ventilation mode, fan speed can be adjusted manually but there will be no output for valve.



Anti-Freeze

Freeze protection a.k.a. Anti-Freeze activates heating mode automatically when temperature falls below 6°C, until temperature rises to 8°C. Anti-Freeze is supported only in heating applications. Default enabled, can be adjusted in Internal Parameter Menu

Auto-Fan-Speed

Press the fan key to cycle through Fan-Low, Fan-Mid, Fan-High, press repeatedly till "Auto" appears on the screen.

In auto mode, fan speed is adjusted by internal program, automatically. Refer to Fan-Speed Control section above.



Restore to Factory Default

Press-n-hold on the mode and fan keys for 3 seconds to access the advanced setting menu. Clear both parameters in the menu. A69 will reboot automatically and start afresh.

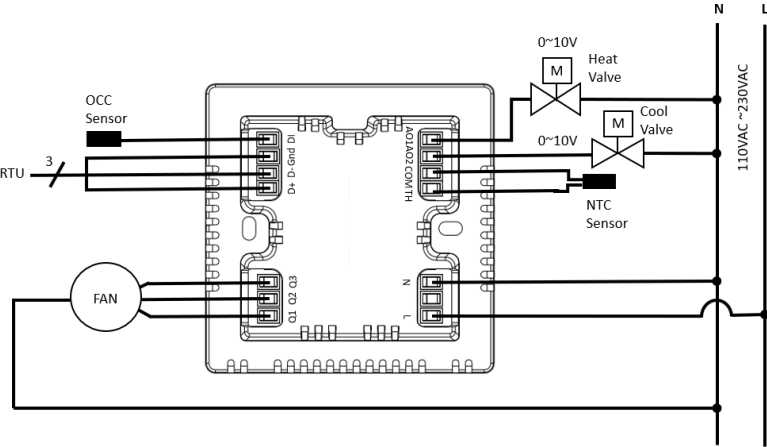


Energy Saving

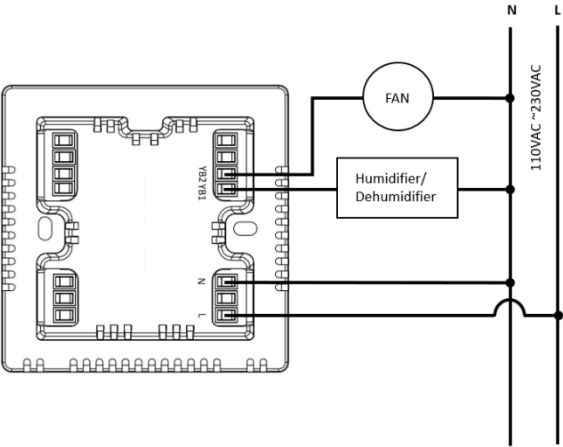
A dry contact (such as hotel key card) can activate the energy saving mode. Setback heating/cooling setpoint overrides temperature setpoint in energy saving mode. For heating, default is 18°C and the range is 10°C ~ 21°C. For cooling, default is 26°C and the range is 22°C to 32°C and the default is 26°C. The abovementioned setpoints and the dry contact type (normal open vs. normal close) can be adjusted in the Internal Parameter Menu.

Product Wiring Diagram

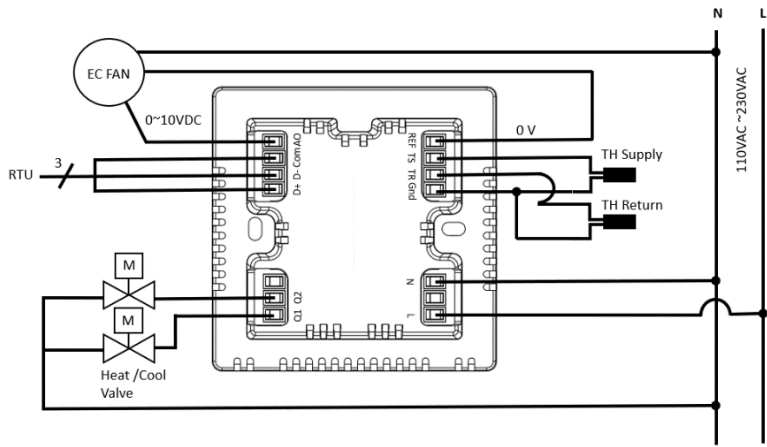
Part number: TA692FC-MOD
Fan-Coil controller w/ Modbus RTU interface



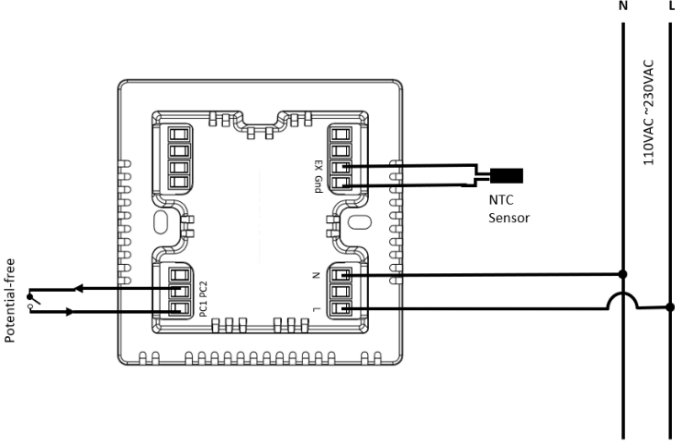
Part number: HA692
Humidity Control



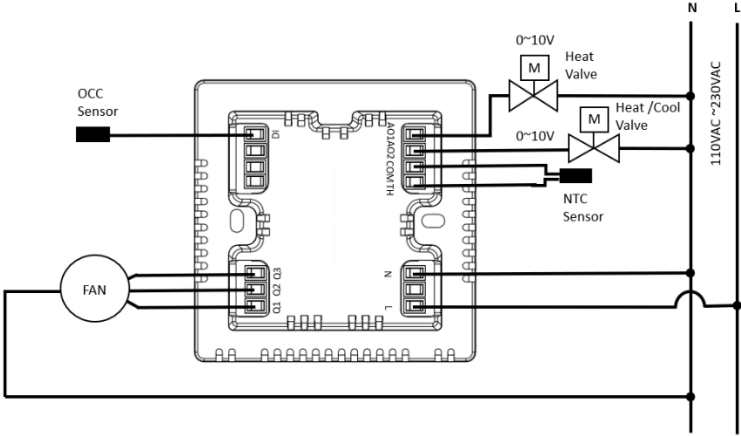
Part number: TA692EC-MOD
EC Fan controller w/ Modbus RTU interface



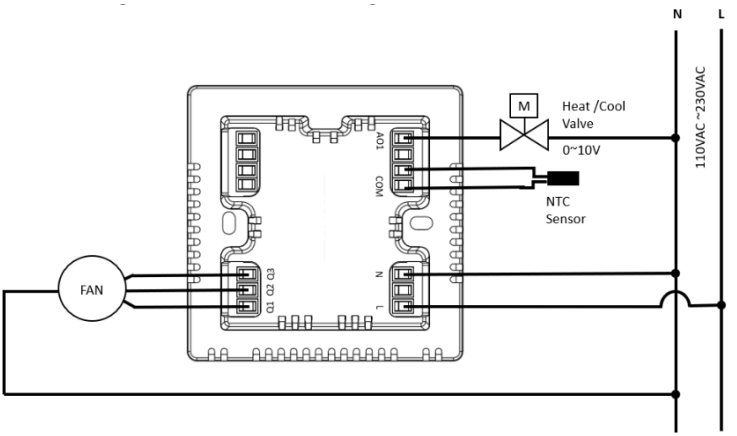
Part number: TA692PF
For General Electrical Appliance



Part number: TA692FC
Fan Coil Application

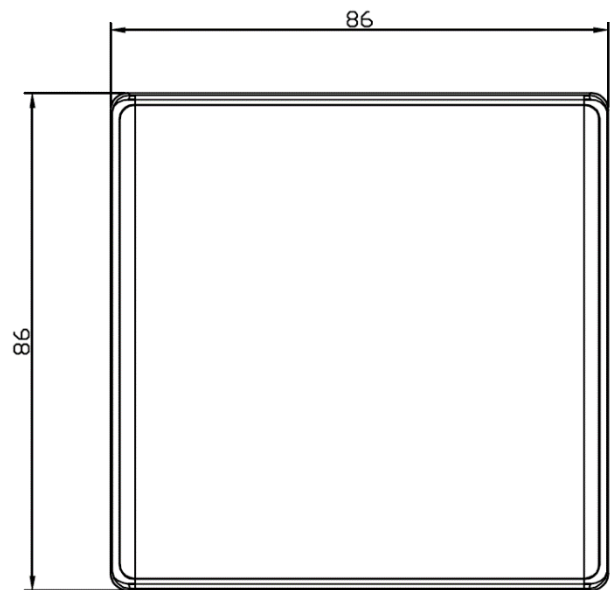


Part number: TA692FC-L
LoRaWAN Fan-coil controller

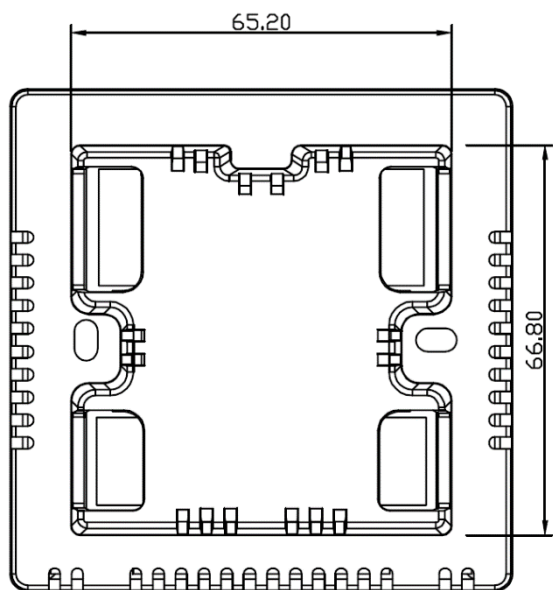


Line-drawing

Front view

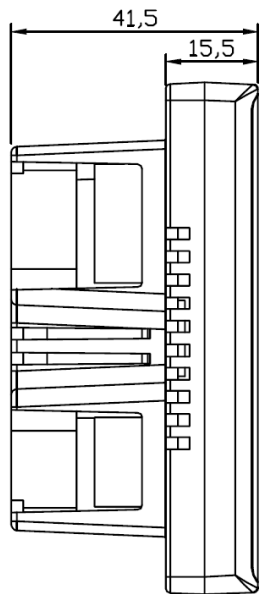





Rear view



*all figures in mm

Side view



Troubleshooting	
Symptoms	Solutions
 No Signal	<ul style="list-style-type: none">• Enter the Advanced Parameter Menu• Copy the DEV EUI• Check RSSI. Power-cycle A69 only when necessary
No heating	<ul style="list-style-type: none">• Press “M” key to set operation mode to  (heating)• Make sure temperature setpoint is higher than room temp• Wait 5 minutes, see if heating starts
No Cooling	<ul style="list-style-type: none">• Press “M” key to set operation mode to  (cooling)• Make sure temperature setpoint is lower than room temp• Wait 5 minutes, see if cooling/compressor starts
Touch Keys not working	<ul style="list-style-type: none">• Check whether system is OFF

Installation and Wiring

A69 Series can be installed in standard 86-86 box.
Tighten all screws to prevent wires from breaking off from the terminals.

Product Range and Models

Type	Feature	TA692FC TA690FC	TA692FH	TA692EC	TA692PF-COL	TA692FC-L	TA692FC-W TA690FC-W	TA692FH-W	HA692-W	TA692-MOD	TA692FC-MOD
Application	2-pipe heating or cooling	•		•	•	•	•			•	•
	4-pipe heating and cooling										
	Floor heating		•					•			
	Air humidity control								•		
Communicating	Modbus RTU										•
	LoRaWAN AS923					•					
	LoRaWAN EU868					•					
	Wi-Fi 802.11b/g/n						•	•	•		
Output / Control Interface	ON/OFF	•	•		•	•	•	•	•	•	•
	Modulating			•		•				•	•
	Potential free				•						
Function	Graphic Icons, Touch keys	•	•	•	•	•	•	•	•	•	•
	Display Temp & Set Point	•	•	•	•	•	•	•	•	•	•
	Fan Speed (Low, Mid, High, Auto)	•		•		•	•			•	•
	C°/F field selectable	•	•	•	•		•	•			
	Remote Passive Sensor ^(^)	•	•	•	•		•	•	•		
	Dual open/close detection (-)									•	
	2.4" color screen for visual alert				•						
	Anti-freeze protection	•	•				•	•			
	Real-time Clock synchronization						•	•	•		
	Remote control on Smartphone App						•	•	•		
Energy Saving	Ventilation only mode					•					
	Occupancy detect (dry-contact)	•	•				•	•			
	Unoccupied/Economy Set-Points	•	•				•	•			
	Low Fan when unoccupied	•					•				
	Adjustable Set Point Limits	•					•			•	•
Power Supply	24V _{AC}	•				•	•				
	110V _{AC} / 230V _{AC}	•	•	•	•	•	•	•	•	•	•
Installation	Flush mounted units	•	•	•	•	•	•	•	•	•	•

(^) Selected models supplied with 10K NTC sensor, plastics cable 3 meters in length.

(-) Monitor the open/close state of 1 or 2 external switches

