

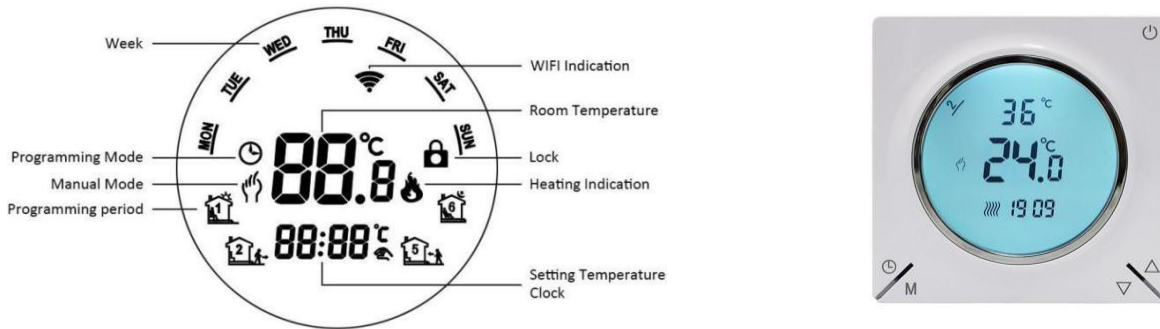
# AC829 Floor Heating Thermostat

## 1,Parameter:

AC-829 Series Intelligent Heating Temperature Controller with weekly programming function, it can be set six period times & the corresponding setting temperature per day. You also can choose manual control or temporary control mode of operation. With the unique far-way control function, simple operation, energy saving and environmental protection, this thermostat can be suitable for electric heating equipment control and water system heating electric drive valve control.

Voltage: 220VAC, 50/60HZ      Current: Imax: 3A/16A/ 20A/ 30A      Accuracy: ±0.5°C      Sensor: NTC  
 Power consumption: <1W      Control range: 5°C~45°C (35~95°C adjustable)      Environmental temp.: -5-50°C      IP Grade: IP20  
 Limitation setting: 5~60°C      Default temp. Deviation: 1°C (1~5°C adjustable)

## 2, Panel display:



## 3,Function:

- : Manual mode: Control the device by manual.
- : Programming mode: It can be controlled automatically by the set time& temperatures (with six different time & related temperature), see below:  
 , simultaneous display: For temporary control mode, press " " or " " will change to this mode, the device will come out of the temporarily current period time control and come into the control of the manual mode, which also will automatically return to the programming mode when the next period time comes
- Lock: Press the key " " & " " together for more than 5 seconds, the device locked, and press them for another 5 seconds, it will unlock again.
- : Heating : Means for heating now.

## 4,function of the button:

- : Power, ON/OFF by short press.
  - M**: Mode, Short press for manual model& programmable mode changed.
  - : Clock, Short press for time setting: second setting → hour setting → week setting. Press " " for next parameter setting, the twinkled data means to be set, press " " or " " setting and 10 seconds can be recorded after everything to be recorded.
  - : UP, for increase the related parameters or adjust working mode.
  - : DOWN, do decrease the related parameters or adjust the working mode.
- Under the power on mode, press " " and " " for last 5 seconds comes into weekly programmable setting mode, press " " or " " for data change, then press "**M**" to come to the next setting with the related sequence as below:  
 Time(Event 1) setting from Monday to Sunday → Temperature(Event 1) → ... → Time(Event 4)  
 Press " " after finish setting each parameter for coming into the next data setting, press " " or " " set the twinkled data, each twinkle duration keeps for 1 minute, the data can be kept in record in 10 seconds after finish setting. (see below attachment, each previous event setting time can't over the next event time)

OPTIO N	Settin g For	Setting ⬆️ ⬆️	From Monday to Friday						
			Period						
	<b>88</b>	<b>⬆️</b>	<b>DEFAUL TIME</b>	6: 30	8: 00	11: 30	12: 30	18: 00	22: 30

⌚	data setting	For data setting	<b>DEFAUL TEMPERATURE</b>	21℃	18℃	21℃	18℃	21℃	16℃		
			<b>Saturday</b>								
			<b>Period</b>								
			<b>DEFAUL TIME</b>	6: 30	8: 00	11: 30	12: 30	18: 00	22: 30		
			<b>DEFAUL TEMPERATURE</b>	21℃	18℃	21℃	18℃	21℃	16℃		
			<b>Sunday</b>								
			<b>Period</b>								
			<b>DEFAUL TIME</b>	6: 30	8: 00	11: 30	12: 30	18: 00	22: 30		
			<b>DEFAUL TEMPERATURE</b>	21℃	18℃	21℃	18℃	21℃	16℃		

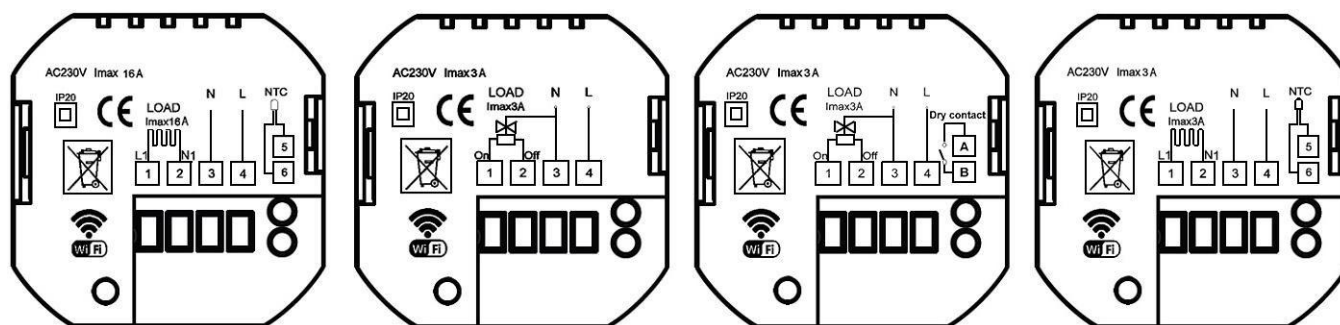
## 5, Advanced setting:

Under the power off status, press “⌚” & “⏻” simultaneously for 5 seconds for coming into the advance setting mode, the screen will display all the related NO. & data, then press “↔” for data change, then press “M” to come to the next setting, All of the parameters will be kept in record after press “⏻” after finish setting.

Code	Option	Default parameters	Details
1Adj	Room Temperature compensation	-2	-9℃~+9℃
2Sen	Sensor type	In	In: internal sensor (to control and protect the temperature) OU: external sensor (to control and protect the temperature) AL: internal/external sensor (internal sensor is for room temperature controlling, external sensor is for temperature protection)
3Lit	Temperature limitation	50.0	5~60℃, the sensor should choose AL, when it detect the temperature is higher than this limitation, it will close the output and only the temperature lower the limitation, the output will resume.
4dif	Switching Deviation	1	1~5℃
5Ltp	Anti-freezing function	Off	On: start the Anti-freezing function Off: closed the Anti-freezing function
6Hit	temperature upper limit setting	45	35~95℃
7OEN	Open window detect function (OWD)	OFF	On: start the OWD function Off: closed the OWD function
8Otl	OWD Detect Time	15	Range: 2~30min
9Otp	OWD Drop temp. select (within detect time)	2	Range: 2~4℃
0Pdt	OWD Delay time select (Return to previous working status)	30	Range: 10~60min
AFAC	Factory Reset	-	when show“-”and keep press “↔” for 5 seconds until show“- - -”, it means return to the restore factory reset

1. Release the front cover by inserting a screwdriver into bottom crack.
2. Connect wires as the diagram, then tighten the screw.
3. Mounted the backing plate in the wall socket by screwdriver.
4. Connect the back power & front plate with insert the Conductive pin into the socket, then match the slot and press slightly to make them matched.

## 7, Connecting Diagram



- A** (for electric floor heating)
- B** (for water radiant floor heating without external sensor)
- C** (for Gas boiler and water radiant floor heating without external sensor)
- D** (for water radiant floor heating with external sensor but only for Normally closed actuator)

