

Intelligent Temperature & Humidity Controller OPERATION MANUAL



Warning

1. Wiring warning

If the equipment failure or error occurs, can cause system fault, installation of external protection circuit to prevent such incidents

In order to prevent the equipment damage or failure, choose the appropriate fuse protection to prevent the power cord and input, output, strong current shock

2. Power supply

In order to prevent the equipment damage or failure, please use the rated power

To prevent electric shock, or equipment failure, all wiring complete rear can supply

3. Prohibited to use in the vicinity of flammable gas

As fire, explosion or equipment damage, banned in flammable, explosive gas, venting occasion use

4. It is forbidden to touch the instrument inside

To prevent electric shock or burn, it is forbidden to touch the instrument inside, only the company service engineer can check the internal wiring or replacement parts. Instrument with high pressure and high temperature parts. Very dangerous.

5. It is forbidden to change instrument

In order to prevent accidents or equipment failure, it is forbidden to change equipment

6. Maintenance

Scrapped to prevent electric shock, instrument or fails, only the company's service engineer can be replacement parts

In order to ensure the instrument is continuous and safe use, should be regular maintenance. Instrument internal some parts may be damaged with longer duration of use

Main Technical Parameters

● Power supply

220VAC,50/60Hz

● Accuracy class

Temperature: $\pm 0.5^{\circ}\text{C}$

Humidity: $\pm 5\%\text{RH}$

Resolving power: 14Bit

Cycle of sampling: 0.5s

● Measure range

Temperature: $-40\sim 120^{\circ}\text{C}$

Humidity: $0.0\%\sim 99.9\%\text{RH}$

● Display

Measure and set values: display by LED

Output condition and alarm condition: LED lights

● Way of operation

ON-OFF control (set Hysteresis value)

● Control output

Relay output, contact capability 250VAC 3A (Resistive load)

● Output contact

Electrical endurance: 1×10^5 times

Mechanical durability: 1×10^5 times

● Installation

Din type

Dimension: $48 \times 48 \times 110\text{mm}$

Installation hole size: $45 \times 45\text{mm}$

● Others

Insulation resistance: $> 50\text{M}\Omega$ (500VDC)

Insulation capability: 1500VAC per minute

Power consumption: $< 10\text{VA}$

Environment: $0\sim 50^{\circ}\text{C}$, $30\sim 85\%\text{RH}$ no corrosive gas

Model Identification

CJ-601 -D -T

T:RS485 communication function

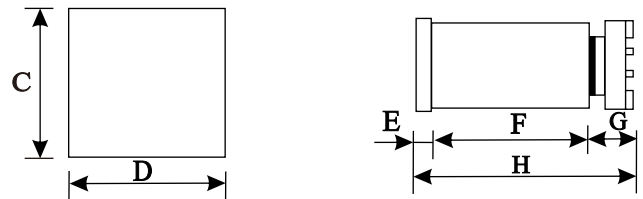
0: No this function

O: Alarm output function

0: No this function

Frame size and Installation hole size

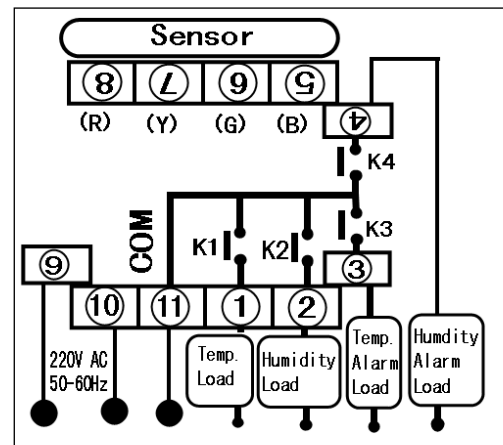
Frame Size



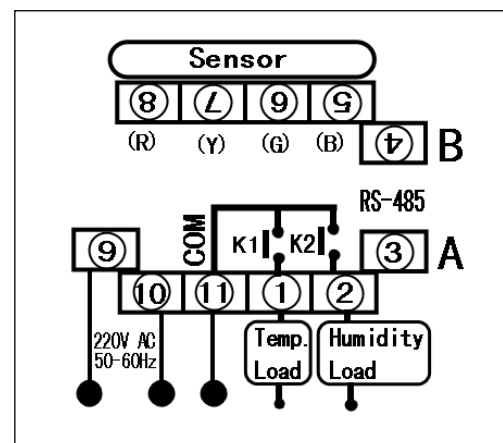
Unit : mm

Model	A	B	C	D	E	F	G	H
CJ-601	48	48	45	45	8	72	30	110

Wiring

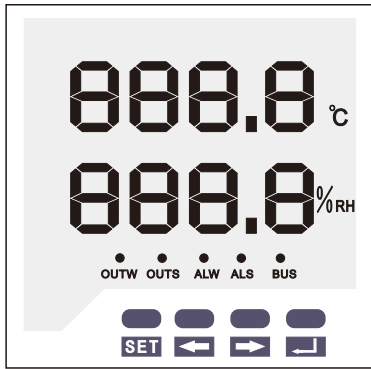


CJ-601-D



CJ-601-T

Panel Explanation and Each Function

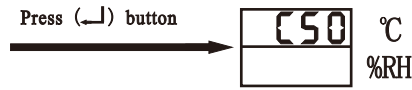


NO.	Mark	Content Description
1	°C	Temperature measuring value/Display menu
2	%RH	Humidity measuring value/Menu value
3	OUTW	Temperature control output indicator light
4	OUTS	Humidity control output indicator light
5	ALW	Temperature alarm output indicator light
6	ALS	Humidity alarm output indicator light
7	BUS	Communication indicator light
8	SET	Move button / Mode button
9	←	Increasing button / up button
10	→	Decreasing button / down button
11	↵	Confirm button / Quit button
12	→	Decreasing button / down button

Press "SET" button to move, then press (←) and (→) button to set value



Then press (↵) button to confirm



If user want to set other menu parameters , In normal display status , press the "SET" button, keep about 3s, enter the parameters menu. Then press (←) and (→) button to select menu , then press "SET" button to enter , set its value.

Note: If user forget to return to main display status after set value, controller will return to main display status automatically after 30s.

Menu content and parameters list

Code	Menu	Instruction	Range	Defaults
CSD	GSD	Set Temp. value	-40. 0~120. 0 °C	30
HSD	HSD	Set humidity value	0. 0~99. 9%RH	70
COUF	COUT	Temperature mode	0:Heating 1:Cooling	0
HOUF	HOUT	Humidity mode	0:Humidification 1:Dehumidification	0
CHY	CHY	Temp. Hysteresis	0. 0~50. 0	2
HHY	HHY	Humidity Hysteresis	0. 0~50. 0	10
CPV	CPV	Temp. Calibration	-40. 0~+40. 0	0
HPV	HPV	Humidity Calibration	-40. 0~+40. 0	0
CRB	CRB	Temp. Alarm value	-40. 0~120. 0 °C	40
HRB	HRB	Humidity Alarm value	0. 0~100%RH	80
CRC	CRC	Temp. Alarm mode	0:low alarm) (1: high alarm)	1
HRC	HRC	Humidity Alarm mode	0:low alarm) (1: high alarm)	1
CRY	CRY	Temp. Alarm hysteresis	0. 0~50. 0	2
HRY	HRY	Humidity Alarm hysteresis	0. 0~50. 0	10
NO.	NO.	Communication address	1 - 2 4 7	1
BAUD	BAUD	Baud rate	0:1200) (1:2400) (2:4800) (3:9600) (4:19200)	1
CHEP	CHEK	Communication check	0: No; 1: Odd; 2: Even	2
LCK	LCK	Data lock. LCK=1111, return to factory defaults. LCK≠0000, all values can't be modified.	0000~9999	0000

Operation Descriptions

◆ User can select Heating mode or Cooling mode, humidification mode or dehumidification mode in controller.

◆ Heating / Humidification mode:

When Measure value < Set value - Hysteresis value, turn on load.

When Measure value > Set value, turn off load.

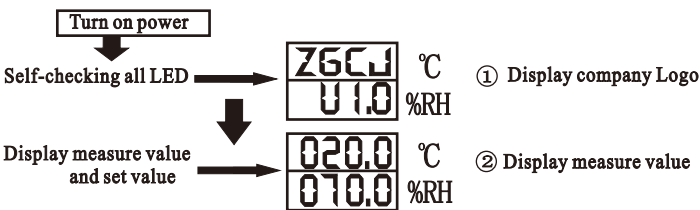
◆ Cooling / Dehumidification mode:

When Measure value > Set value + Hysteresis value, turn on load.

When Measure value < Set value, turn off load.

Operation Process

● Boot up process



● Set mode and parameters

(1) Set parameters

In normal display status , press the "SET" button, keep about 3s, enter the parameters menu.



Press "SET" button again, to set the value.



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