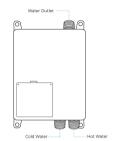
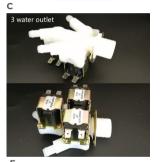
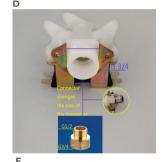
Digital Mixer





В





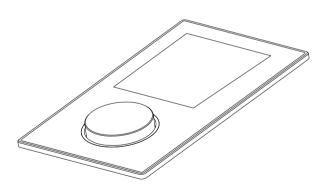




USER'S MANUAL

Digital thermostatic shower controller





Please read this manual before using this product.

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Features

Touch control panel

With touch control panel, easy to use.

Digital thermostat

Keep outlet water TEMP stable, the TEMP accuracy within $\pm 1^{\circ}$ C.

Overheat protection

When the cold water cut off and lead the water TEMP over 49° C, system will stop water outlet in 2 seconds to protect user from hot water.

Water TEMP adjust

You can set the water TEMP as you like with TEMP setting button, and the control panel can show the ambient TEMP. The user can set the TEMP as needed, according to personal hobby, health situation, different season.

Water saving

You can adjust the water flow and working time as you like, system will shut off automatically after countdown time is up to save water.

Double power supply, more safety and reliable

When local power supply is normal, you could use our adapter, which can transfer 100-240V to 12V power supply. 12V is safe voltage for human body; When local power cut off by accident, system still work by battery inside host box automatically.

Easy Installation

Our faucet is made of brass, chrome polished, equipped with installation base and standard pipe connector, easy for installation. It's compact structure, beautiful looking, harmony with the modern decoration of the bathroom.

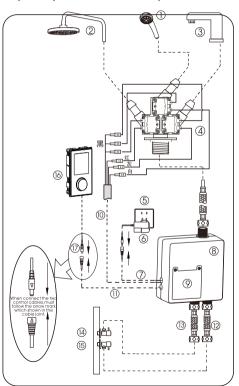
Structural drawing

Thank you for choosing our Digital thermostatic shower controller!

SJ-H202B is a digital thermostatic shower controller. You can set the outlet water TEMP & water flow on touch panel as you like. Outlet water keepthermostatic TEMP.

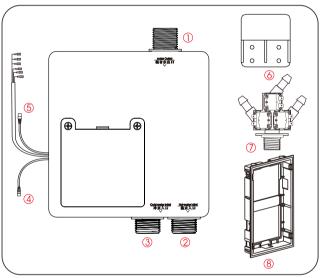
Complete set including the control panel, host box and adapter.

- (1) Hand shower
- (2) Head shower
- (3) Other water outlet parts
- (4) 3ways water outlet valve
- (5) AC220V plug seat
- O Power adapter
- Power supply cable of the host box
- (8) Host box
- (9) Battery cover
- (10) Spray control cable
- ① Control cable of the host box
- 12 Hot water inlet
- ③ Cold water inlet
- (4) Cold water switch
- (15) Hot water switch from water heater
- (6) Control panel
- ① Control panel's control cable



Structural drawing

The host box of SJ-H202B has hot water inlet, cold water inlet, mix water outlet & 3 ways water outlet valve, the control cable, power supply cable, battery cover and the bracket.

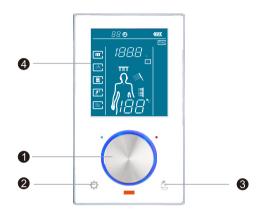


host box dimension:132x136.5x64.5mm

- (1) Hand shower's mixer water outlet (2) Hot water inlet
- (3) Cold water inlet
- (5) The control cable
- 3 way water outlet valve

- The control cable
- The host box installation bracket
- (6) The control panel installation bracket

Operation Instruction



Fly-shuttle switch

Setting

2 Power on/off

LCD display

Notice

- 1. The control panel is sensitive, when install it, please avoid to let it face directly to the water from hand shower and the head shower, because water will get it mis-operation or lock the control panel.
- 2. The touch button is the best sensitive area.
- 3. The touch panel has water splash protection technology. When system detect mis-operation, no response and need about 1 second to recover.

Operation Instruction

Function

1. Water TEMP adjust 2 Hand shower 3 Head shower 4. Water flow adjust

Operation

1 Power on/off

Power on

A. After electrify (The battery without electricity or not install battery), press the fly-shuttle switch, power on and switch on the head shower automatically, adjust the thermostatic Temp function. When you hear buzzer sound, the fly-shuttle switch and LCD display would be lighting.

B. After electrify (The battery with electricity), press the fly-shuttle switch in 20 minutes from last time turn it off. When power on, open the last time spray mode and TEMP adjustable function(cold water or thermostatic function); if press the fly-shuttle switch from more than 20minutes from last time turn it off, power on and open the head spray and TEMP adjustable function at the same time. You could hear buzzer sound, the fly-shuttle switch and LCD display would be lighting.

C. When system on, Water TEMP and water flow will be same as that you set last time. Head shower (or hand shower) shows cursor and icon.

D. If you didn't set working time, default working time is 60 minutes.

Power off

A. When system on, press the fly-shuttle switch to power off system, you can hear buzzer sound.

B. System will switch off automatically when working time comes up.

Shower mode switch

button on the panel to switch the water outlet When system on, pressing way between head shower, hand shower and body jet. When cursor and frame move to the head shower icon , head shower comes water. When cursor and frame move to the hand shower icon . hand shower comes water. When cursor and frame move to the body jet icon body jet comes water.

Setting

When system is on, rotating the fly-shuttle switch to adjust the water flow, press the 💆 button to adjust water TEMP and water flow. Press 💆 button and keep for 3 seconds to set working time. System will restore to adjust water flow if no press any button for 5 seconds.

Water TEMP adjust and cold water mode

When system on, touch button to enter into TEMP adjusting, cursor and frame will move to TEMP icon Temp icon icon on the LCD panel flash, at this time you could set water TEMP from 29-48°C. Rotate the fly-shuttle to adjust water TEMP and you can hear buzzer sound for each step. When the TEMP is lowest, rotating the fly-shuttle switch one round counter-

clockwise to enter into cold water mode, cursor and frame will move to the cold water icon. You can hear buzzer sound when system enter into cold water mode. If you rotating the fly-shuttle switch one round clockwise, system will enter into the water TEMP adjusting again.

If no any touch on the panel for 5 seconds, water TEMP will be memory and exit the water TEMP adjusting. Touch 😂 button again to enter into water flow adjusting. C icon on the LCD panel will stop flashing.

The fly-shuttle switch backlight color will change according to the water TEMP as below: blue color: water TEMP<=33°C blue; orange color: water TEMP<41 °C; red color: >=41°C.

Operation Instruction

Setting system on time

When system on, touch panel switch to system on setting, show time icon. Rotating the fly-shuttle to setting system on time, counterclockwise rotation is to reduce and clockwise rotation is to increase, setting range is 15-60 minute. You can hear buzzer sound for each adjustment.

Stop setting for 5 seconds or touch button 🗘 , system on setting time TEMP will be memory and exit system on time setting, switch to water flow setting, close Time icon.

Water flow

When system on, rotating the fly-shuttle switch to adjust water flow by default, if system on other setting state, touching button to can switch to water flow setting. Cursor and frame will move to the water flow icon in LCD panel flash, setting range is 4-18L. Rotating the fly-shuttle switch to adjust water flow, counter-clockwise rotating is to reduce flow and clockwise rotating is to increase flow. You can hear buzzer sound for each adjustment. When water flow reach the lowest and highest, no buzzer sound.

No touch any button for 5 seconds, water flow value will be save. Or when you touch button , water flow value will be save and switch to TEMP adjusting.

Working time setting

When system on, keep pressing button for 3 seconds, system will enter into the working time setting, icon Time will be shown on the LCD panel. Rotating the fly-shuttle switch to adjust the working time. Time range is 15-60 minutes. You can hear buzzer sound for each adjusting.

No touch any button for 5 seconds or press button 🔅 ,working time value will be save and switch to TEMP adjusting.

Operation Instruction

Count down display

When system on, LCD panel shows countdown time.

Abnormal alarm

When water TEMP is over 49Celsius degree, system will stop working and no water outlet automatically. You could hear 3 times of buzzer sound. And the LCD panel shows error code "EE".

Back up battery

- 1) When system working based on battery, LCD panel shows the current battery status. When system working by the local power supply, and battery is not full, LCD panel shows charging status, until the battery is full.
- 2) When system working based on battery, the back-light of fly-shuttle button and LCD panel would become dark to save energy.
- 3) When system working based on battery and battery almost use out, if system is in working state, system will shut off automatically.

Working condition

,	Voltage rating	AC110-220V	Frequency rating	50/60Hz	Power rating	6W
	Insulation Resistance	>20 MΩ	Waterproof rating	IPX5		

Load parameter

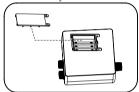
Load category	Rated load voltage	Rated load frequency	Rated load power	Other
Switch valve	DC12V		2W	
Flow valve	DC5V		1W	
Thermostatic valve	DC12V		2W	

battery installation

The installation of the shower is according to the used environment, including two kinds of installation: built in wall installation, shower panel installation:

Battery Installation

1.Loose the screws on the battery cover and take it off.



2. Putting 4pcs rechargeable batteries into the battery slot of host box.

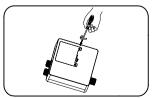




Attention:

When putting the battery into the host box ,you need to identify the anode and the cathode.

3. Insert the battery cover into the host box, and lock it with the screws.



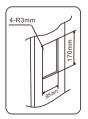
Caution:

- Using rechargeable NI-MH battery [the 5#(AA) and the capacity is more than 1000Mah].
- After electrify, forbid using the normal 5#(AA) battery. Otherwise, would cause the battery explosion.
- When the power cut, you can use the high quality normal 5#(AA) dry battery as the emergency measure. But you must unplug the adapter.
- When you install the host box, please put the battery into it. If the product haven't connected with the power in a long time. Please take out the battery from the host box. This way can avoid affect the battery working life.
- If you want to the battery with a longer working life, you can charge the battery every some months.

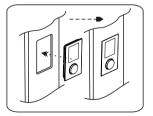
1.Installation of the control panel

1. Build the control panel into the shower panel

Step 1 Open an hole (170mm X 95mm) on the shower panel, putting some glass cement around the back of the control panel and fit it on the hole of the shower panel as picture shown.

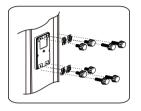






Installation of the control panel

Step 2 Fasten the mounting bracket onto the back of the control panel by screws.





Step 3 Install the host box on the back of the shower panel, connect the cold water and hot water pipe, hand shower and head shower's pipes.



- 1. Connect the G1/2" hot and cold water inlet pipes to the host box, tighten it and make sure connection is well sealed (as the picture showed).
- 2. Connect the G1/2" water inlet pipe of the faucet to the water outlet pipe of the host box, tighten it and make sure connection is well sealed (as the picture shown).

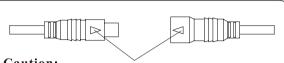


Caution:

- When installation, the hot water pipe and the cold water pipe can not mix up. Otherwise, the system can not work.
- When you tighten the connector nut, torque should not exceed 8NM, GB 2.5NM is OK, otherwise, it will damage the connector of the mixing valve and lead to water leaking.

Installation of the control panel

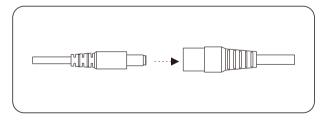
Step 4 Connect the host box control cable with the control cable of shower faucet as arrow mark as piture.



Caution:

When connect the two control cables, must follow the arrow mark which shown in the cable joint. If not, will damage the cable joint.

Step 5 Connect the power supply cable of the host box with the adapter.

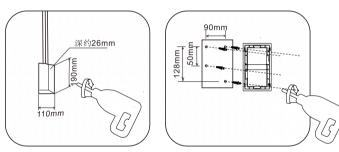


2. Recess mounted into wall

A. The installation of control panel

Step 1 Open a slot in the wall for the host box, and prepare the cable pipe for the control cable of host box.

Step 2 Drill four holes by 6mm diameter on the upside hole for install the wall bracket (as the picture) and put the plastic screw into the hole.

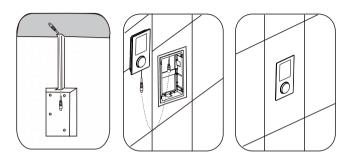


Step 3 Drill four holes by 8mm diameter on the downside hole for the host box installation and put the expansion screws into the hole.

Step 4 Leading the control cable plug from the cable slot and fix it before mounting the control panel.

Step 5 Make sure the control panel bracket is concave the wall surface with 0.5-1mm difference.

Step 6 Connect the control cable between the host box and the control panel, and put control panel onto the bracket inside wall to fasten it.



B, The installation of the host box

- 1. Choose a suitable place as mentioned before, fasten the host box on the wall by 4pcs holes of the host box.
- 2. Shut off the cold water and hot water supply, lead cold and hot water pipe from the cold. hot water supply to the cold and hot water inlet of host box.
- 3. Connect the head shower and hand shower pipe to the marked water outlet of the host box.
- 4. Connect the power adapter to the power cable of the host box.
- 5. Connect the control cable between the control panel and the host box.
- 6. Get AC220V power supply to the power adapter.
- 7. Switch on the hot and cold water supply, make sure all water pipe connection is tighten before using.

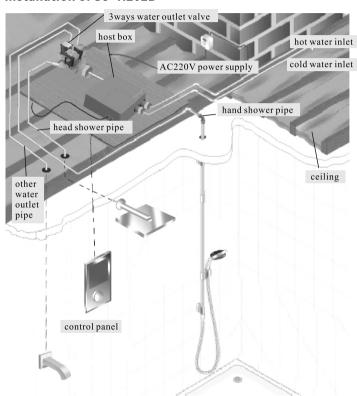
The installation of the host box

Installation of SJ-H202B picture

NOTE:

- 1. Host box should be installed by qualified people according to the use manual.
- 2. The installation must meet with any special regulation and rule, especially local water supply system rule.
- 3. Host box should be installed in the place that easy for maintenance or replacement.
- 4.Suggest to install the host box in ventilated and dry place, the environment TEMP can't be lower than 0°C, otherwise, water will freeze inside the host box.

Installation of SJ-H202B



Notice

- 1. Working water pressure is 0.05MPA-0.6MPA.
 Please install a water pressure release valve if water pressure more than 0.6MPA.
- 2. Our shower controller don't have heater function, it should be using with water heater. Max.water TEMP accepted is $85\,^{\circ}$ C. If not necessary,we suggest you to adjust the water outlet TEMP from the heater to be $65\,^{\circ}$ C lower.

Caution:

a. If working with the electric instant water heater or the gas water heater, hot water TEMP from heater can not set higher than $5\,^\circ$ C than the preset water TEMP on the panel.

b. After electrify, the system can charge the rechargeable NI-MH 5#(AA) battery automatically. The rechargeable NI-MH 5#(AA) battery would use out after long time delivery, please put the battery as instruction and charge it after electrify the system.

- 3. To be safe, please touch water TEMP by your hand to make sure ok before bath.
- 4. Forbid to use the normal 5#(AA) dry battery. Otherwise, it will cause the battery explosion.

Trouble shooting

Problem	Possible Reasons	Solution
	setted water flow too low	set higher water flow
Water flow low	low water pressure	check the water supply
water now low	the faucet outlet use the water flow limit design	needn't to solve
	water outlet pipe is too long, lead the TEMP cold down	shorter the pipe between the mixer and the shower faucet
Outlet water TEMP is lower	the TEMP haven't been adjusted steady	please wait the TEMP adjust steady
than the display TEMP	set the water flow too low	needn't to solve
alopidy 12mi	Water TEMP from heater is cold	Increase water TEMP from heater
	malfunction on host box	please contact the factory
Outlet water	the TEMP haven't been adjusted steady	please wait the TEMP adjust steady
TEMP is higher than the display	the running water TEMP is higher than the setting TEMP	needn't to solve
TEMP	malfunction on host box	please contact the factory
Response time of TEMP adjust is slow	Low water flow	needn't to solve
	long time not use the hot water, cold down in the pipe and the hot water pipe is too long	shorter the pipe distance between the heater and the faucet and so you can drain the cold water in pipe quickly
	malfunction on host box	please contact the factory
Overheat alarm	no cold water supply	check the cold water supply pipe, fix problem before turn on shower faucet
	malfunction on host box	please contact the factory
The touch button not sensitive	too much water on touch panel	clean the water
Outlet water TEMP is not stable when H202B work with instant water heater, gas heater or the centralized heating system because heater not work always	The electric instant water heater and the gas water heater's can not work if water flow low than it's default value	1.For gas hearter or instant heater, it wont work for low water pressure. Set almost same water TEMPof gas heater and instant heater as that setted on H202B. 2.Increase the water flow of H202B.

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