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Haier

HW-ZA101DBT
Smartzone
Controller

Haier HW-ZA101DBT Smartzone Controller User Manual

Contents

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Button Instruction

Menu (icon)	Menu Button, press this button to enter the Menu function
◀ ▶	Set the fan speed in home page, or switch options in other interface
▲ ▼	Set the setpoint temperature in home page, or switch options in other interface
⬭	Confirm/Shift Button, set Mode in home page, confirm or switch parameters in other interface
⏻	Power On/Off Button
Back (icon)	Return Back Button
Zone (icon)	Zone Control Button

Display & Operation
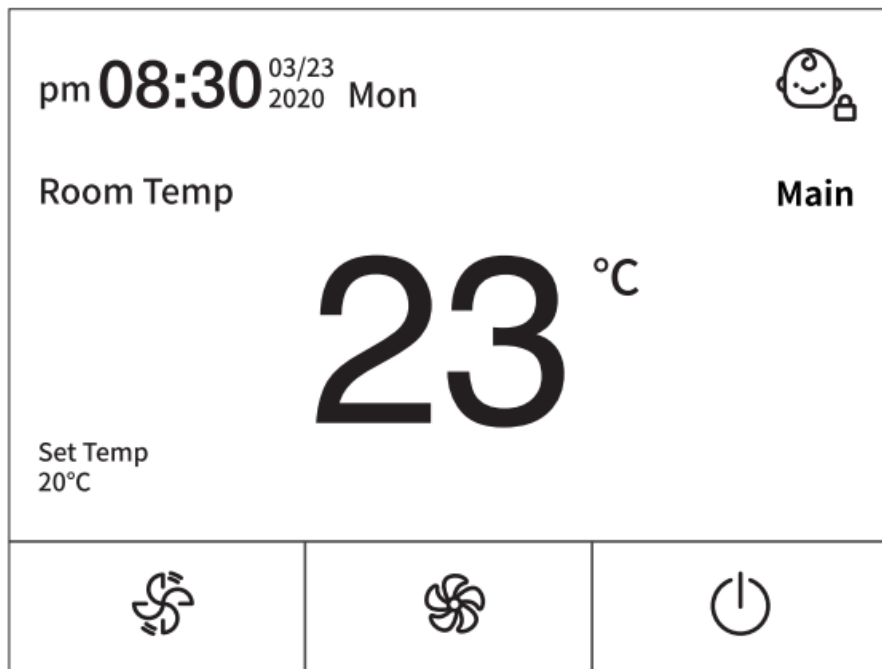
1. ⏻ Green light indicates the device is powered on, ⏻ Red light indicates the device is powered off.

2. Set Temp indicates the setpoint temperature which shows at the left side of the main interface, press ▲ or ▼ to adjust the setting temperature, then press ↩ to confirm after the setting is completed. The temperature setpoint range is from 16-30°C(60-86°F), the adjustment range is limited in Energy Saving mode, for more information, please refer to the following Energy Saving mode description.

3. Child Lock: Hold ⏻ and 📍, synchronously for 3S in home page to enable the lock and unlock function.

4. Mode Setting

   Press ⬭ button to execute mode switch.

Auto	Cooling	Dry	Heating	Ventilation
🤖	❄	💧	☀	🌀

5. Fan Speed Setting

   Press ◄ ► button to adjust fan speed.

Low	Medium	High	Auto
🌀	🌀	🌀	Ⓐ

Zone Management Control

Press ⊙ to enter zone function.

08:30 ⁰³/²³
2020 Mon

Zone Status

| ALL ON |
| ALL OFF |

Zone1	Close
Zone2	Close
Zone3	Close
Zone4	Close

1. In this interface, press ▲ or ▼ to switch the icon, press ⬭ to change the on/off state of the available damper, after the setting is completed, press ↰ to execute immediately.

2. In this screen, dampers can be opened and closed individually.

3. ALLON &ALL OFF these icons indicate dampers can be turned on or turned off simultaneously.

4. When the air conditioner is off, all dampers will be open automatically.

Menu Function

Press ▤ to enter menu screen.
Use ◄ ► to shift and O to enter.

Calendar Setting

In this screen, press ▲ or ▼ to shift the items, press ◄ or ► to adjust the parameter.
After the date is set, the week will be automatically displayed.

Weekly Schedule

1. Max. 20 timers can be set which is indicated by numbers ranging from 01 to 20.

   When the cursor is put on the timer program No., press ⬭ to confirm, then use the ▲ or ▼ check all the timer programs. Press ◄ or ► to exit check when the cursor is put on the No ..

2. For each timer program, user can select the related zones and days. For each timer program, the zones and days involved can be set. Press ▼ : or ◄ ► to move the cursor and press O to confirm or cancel the selection.

3. For the time adjustment, when the cursor fixed on the time, press ⬭ to confirm and use ▲ to ▼ adjust the value.

   Long press ▲ or ▼ to achieve quick adjustment.

4. The set timer can be set by Enabled/Disabled. When the timer is set to Disabled, this timer function will not be executed.

AC Timer

1. Max. 1 O timers can be set which is indicated by numbers ranging from 01 to 10.

   When the cursor is put on the timer program No., press ⬭ to confirm, then use the ▲ or ▼ check all the timer programs. Press ◄ or ► to exit check when the cursor is put on the No ..

2. For each timer program, user can select the related days. For each timer program,when the timer program setiing is valid, the days involved can be set. Press ▼ : or ◄ ► to move the cursor and press O to confirm or cancel the selection.

3. For the time adjustment, when the cursor fixed on the time, press ⬭ to confirm and use ▲ to ▼ adjust the value.

   Long press ▲ or ▼ to achieve quick adjustment.

4. The set timer can be set by Enabled/Disabled. When the timer is set to Disabled, this timer function will not be executed.

Zone setting for installers

08:30 03/23 2020 Mon

Zone Set

Zone1	Normal	ON
Zone2	Normal	ON
Zone3	Normal	ON
Zone4	Normal	ON

1	2	3	4	5	6	7	8	9	0
a	b	c	d	e	f	g	h	i	j
k	l	m	n	o	p	q	r	s	t
u	v	w	x	y	z	␣	⬆	⌫	OK

1. This function is only available for installers' operation. The password is 841226.Use ◄ ► to shift digits , ▼▲ to adjust value and O to confirm.

2. The second column indicates the normal zone or the constant zone. Normal zone means it can be normally turned on or turned off.Constant zone means it will be automatically turned on and will be constantly on when other zones are off. When the air conditioner is OFF, all the normally-open damper will be ON automatically.

3. The third column indicates the zones can be turned on or turned off by installers. If the zone is set off which means it will not appear to the user.

4. The first column indicates the zone name, which is allowable for rename.

   Select the zone to be renamed, press the ⬭ to enter into the keypad window. Press ▼▲ ◄ ► to select and OK to confirm.The zone name length is 6 digits.

Parameter Setting

Parameter Set

Version:200

Date Format	M/D/Y
Time Format	24hr
Screen Saving	ON
Volume	30%
Brightness	80%
Energy Saving	OFF
Min. Cooling Temp	18℃
Max. Heating Temp	28℃

Parameter Set

Version:295

ESP Grade	02
Room Temp. Collection	Controller
F/C	F
Cool Temp. Compensation	00
Heat Temp. Compensation	00
Main/Sub	Main
Filter Reset	OFF
Factory Reset	OFF

Parameter Set

Version:295

Temp. compensation	00℃
Zone. Hd Reverse	OFF

1. Date Format Date display format: there are three formats can be set 1 M/D/Y 2 Y/M/D 3 D/M/Y
2. Time Format Time display format: 12-hour and 24-hour system.
3. Screen Saving Screen saving time: 1 15s 2 30s 3 1 min 4 3min 5 the screen brightness is always on. Without any operation. the screen brightness turns off according to the set time.

4. Volume Beep or buzzer: 1 30% 2 60% 3 1 00% 4 Off

5. Brightness Backlight brightness setting: 1 30% 2 50% 3 60% 4 BO% 5 100%

6. Energy saving mode:
    1. CD Only after this function is set on, the setting of the minimum energy-saving temperature in Cooling/Dry mode and the maximum energy-saving temperature in Heating mode is valid. The parameter setting range is 16-30°C. The minimum energy saving temperature is 23°C (74° F) as initial default setting in Cooling/Dry mode, and the maximum energy saving temperature is 26°C (78° F) as initial default setting in Heating mode.
    2. After this function is actived, the setpoint temperature setting range is limited to 23-30 C in Cooling/Dry mode, in Heating mode it is limited to 16-26°C
    3. The energy saving function is initially off. by default.

7. ESP Grade Static pressure setting: It can be adjusted based on actual static pressure grades of indoor unit.

8. Room Temp.Collection The room temperature data source can be selected from: CD Controller 2 Interface 3 IDU

9. F/C Fahrenheit/Celsius temperature format switch: after the format is set, all temperature parameters will be followed to the set format.

10. Cool Temp. Compensation Heat Temp. Compensation Cooling/Heating temperature compensation for indoor unit, this function is mainly operated by installer to set the indoor temperature compensation for indoor unit. Some indoor unit doesn't support this function, the icon displays grey indicating that it is not adjustable.

11. Main/Sub Main/Sub controller setting: when it is set to slave, some functions cannot be set.

12. Filter Reset Filter Reset: when the controller display filter icon, indicating that it can be reset and cleared.

13. Factory Reset Factory Reset: when the factory reset is set into on, all the settings will reset to the factory defaults

14. Temp.compensation
    1. When it is Celsius, the range of parameter adjustment is -4 – 4. When it is Fahrenheit, the range of parameter adjustment is -8 – 8.
    2. This function is valid only during collecting ambient temperature of wired controller.

15. Zone.Hd Reverse
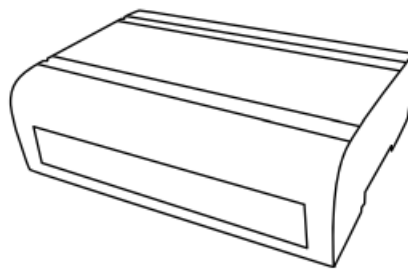
    Change the operating status of the air valve.

ErrorCode

History Fault

NO	YEAR, MONTH,DAY HOUR:MINUTE	TYPE	
01 :	....	....	
02:	....	....	
03:	....	....	
04:	....	....	
05:	....	....	
06:	....	....	
07:	....	....	
08:	....	....	

Current Fault   1

Note: The enter key will delete all records

In this interface, the current faults and historical faults can be checked. Press to delete all historical faults.
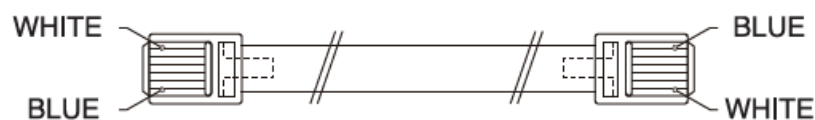
Interface

There are 8 indicator lights on the interface which indicates 8 dampers.When the damper opened, the red indicator light turns on. When the air valve closed, the red indicator light turns off.

**Wired Controller Wiring Instruction**
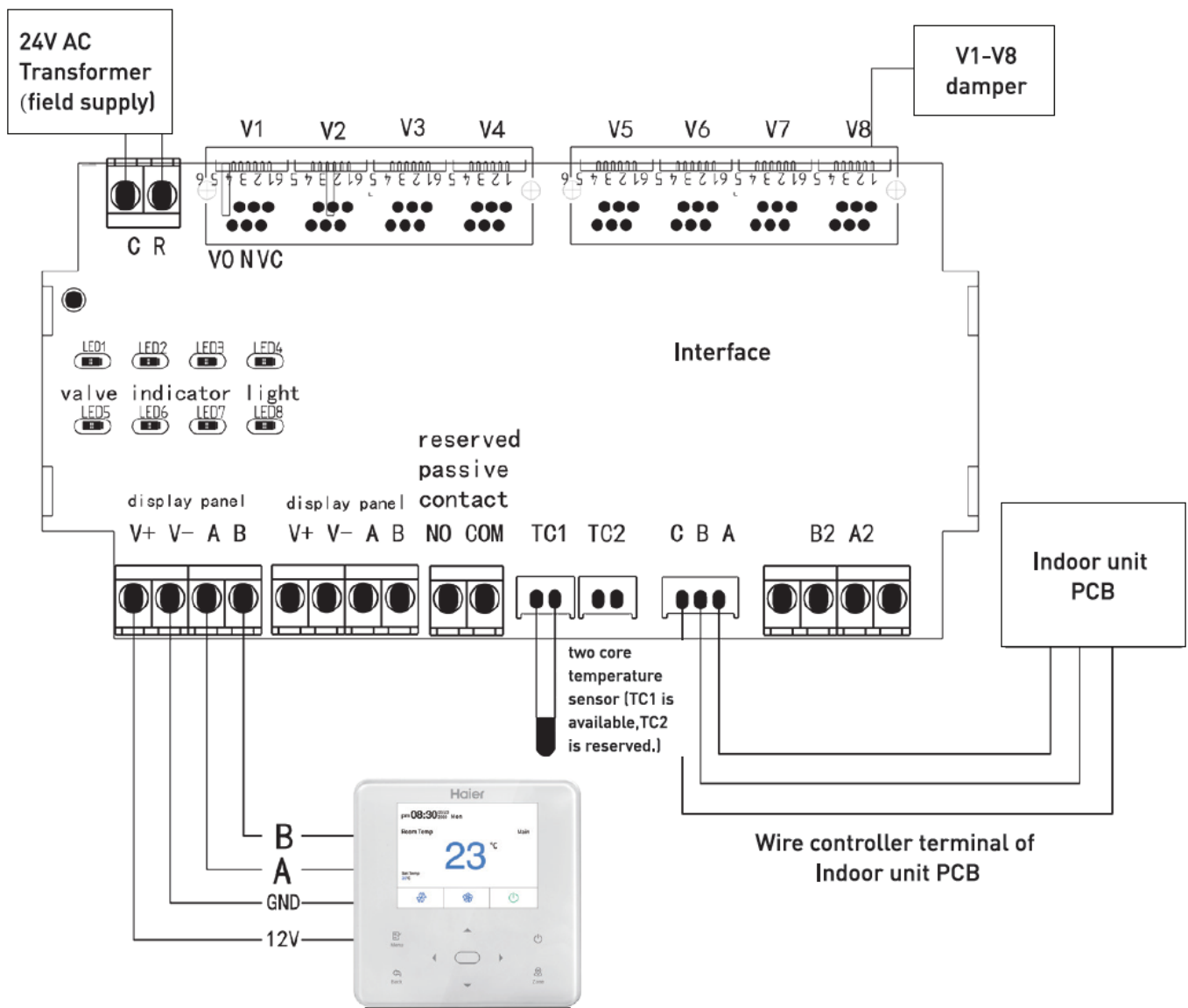
Note

1. The wire connecting damper and control interface should be field supplied. Be sure the wire sequences are the same otherwise the damper will not be controlled normally.
2. The power consumption of 24V AC power adapter should not be less than the total power consumption of the whole zone system.The total power consumption includes the power consumption of total dampers involved(VA per damper times installed zones qty.) and the control box (approximately 5w).For example, the power consumption per damper is 5w and the zones installed are 8. In this case, to ensure the zone system works normally, the 24V AC power adapter should not be less than 45VA .
3. The indoor unit PCB connecter to zone controller is same as the connecter to wired controllers, please check the indoor unit wiring diagram

Communication Wiring Length	Dimension of Wiring
0-100 ft (0~30m)	22AWG(0.3mm2)x3-core shielded wire
100-200 ft (30-60m)	20AWG(0.5mm2)x3-core shielded word wire
200-300 ft (0~90m)	1SAWG(0.75mm')x3-core shielded wire

Installation instruction
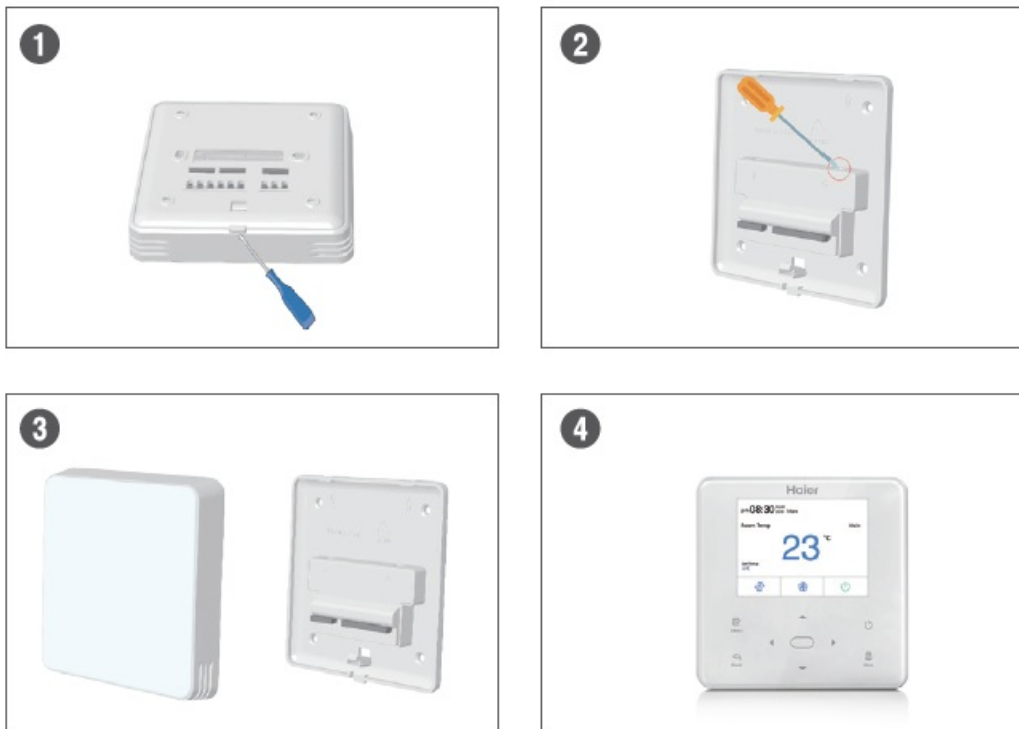
1. Use a screwdriver to take apart the controller bottom shell.
2. Use a screwdriver to take apart the cover plate of the connection terminal for wiring connection. After the wiring connection is completed, install the bottom shell of the controller on the wall.
3. Connect the wired product to its upper buckle along the arrow direction of the bottom shell of the controller, and then press the lower part evenly.
4. Check the whole device is installed correctly, then power it on and operate according to the user manual.

Documents / Resources

Haier HW-ZA101DBT Smartzone Controller [pdf] User Manual
LOWPROFILEDUCTED, HIGHSTATICDUCTED, HW-ZA101DBT Smartzone Controller, Smartzone Controller, Controller

References

- **User Manual**