

Ezlo Z-Wave Thermostat Installation Manual

Enjoy the ultimate in comfort, convenience, and energy efficiency



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Thank you for choosing the Ezlo Z-Wave Thermostat

You've taken the first step toward making your home smarter and safer.

We want setting up to be as easy as possible but if you're finding yourself in need of help, our outstanding human customer care is for you through the following channels:

- Contraction 100 Toll-free number 866 966 2272
- C International number 702 487 9770
- ≤ support@ezlo.com
- support.ezlo.com







Product Description:

Enhance your home's heating and cooling. Easily control temperature to your liking with the MiOS App, immediate response when you arrive home and save on energy costs. With Z-Wave connectivity and a user-friendly interface, managing your home's temperature has never been easier. Upgrade to the Ezlo Thermostat and experience the perfect blend of comfort and technology.



Product Specifications:

Power supply	AC/DC24V / 4*AAA dry battery (device will enter low power working state)
Application range	gas/fuel boiler, electric heating, water heating, heat pumps & more
Display	Tempered glass +PC+ABS
Self-Consumption	<1W
Resistive Load	<1A
Temperature Setting Range	32°F to 99°F (0°C to 40°C)
Precision	0.1°C (1 °F)
Control Type	HVAC
Wire Connection	Terminal
Dimensions	113×113×19mm (4.45×4.45×0.75 inches)
Mounting	60.3mm (2.37 inches) hole pitch
Communication Protocol	Z-Wave 904.42 MHz with S2 encryption
Certifications	FCC





Features:

- Application range: gas/fuel boiler, electric heating, water heating, heat pump etc. 8 types control systems.
- Z-Wave 800 series.
- Touch button operation interaction.
- Simpler way to connect wires without screw driver.
- Built-in temperature sensor for ambient temperature reading.
- Battery Powered: Easy installation without the need for hardwiring.

Package Contents:

- 1x Thermostat
- 1x Back plate
- 4x Wall anchors
- 4x Wall mounting screws
- 2x Base plate securing screws

Required (not included):

- Philips head screwdriver
- Flat head screwdriver
- 4x AAA Batteries







Wiring Notes

- 1. Power input range is 20-28VAC.
- This is the toggle switch for the wiring panel. Make sure it's in the right position.



- The C terminal is not required for battery power supply, but is required for external AC power supply.
- In a cooling or heating only heat pump system, the O/B signal does not need to be controlled, and O/B can be connected or not connected.

CAUTION

As a disclaimer and precautionary note, if you are not familiar with or comfortable on electrical wiring, it is best to call in a professional electrician to install your smart thermostat. Please do not attempt to install your smart thermostat if you do not have a general understanding of electrical wiring.

Wiring CAUTIONS

Read the instructions before starting up the unit!

Do not expose the device to moisture, water or other liquids. Do not place liquids near or on the device!

Do not attempt to disassemble, repair or modify the device yourself! This product is for indoor use only. Do not use outdoors!

Risk of Electric Shock - More than one disconnect switch may be required to deenergize the equipment before servicing.

Compressor protection is bypassed during testing. To prevent equipment damage, avoid cycling the compressor quickly

WARNING: Always make sure to turn off power to the system before beginning any wiring work and double-check all connections before turning the power back on.

WARNING: If the current thermostat contains mercury, it must be disposed of according to federal, state, and local regulations. Many states and local agencies offer collection or exchange programs, or hazardous waste disposal services for mercury-containing devices.





Ezlo Thermostat Front Plate Removal / Disassembly

Installation Steps

- Remove the old thermostat if you have an existing one
- Dissasemble the front plate of the Ezlo Z-Wave Thermostat (fig.1)
- Attach the base plate to the wall and pull the existing wiring through the base plate (fig.2)
- Re-attach the front plate to the back plate (fig.2)
- Wire the Ezlo Z-Wave Thermostat for your specific HVAC system
- Add the thermostat to your Z-Wave Network

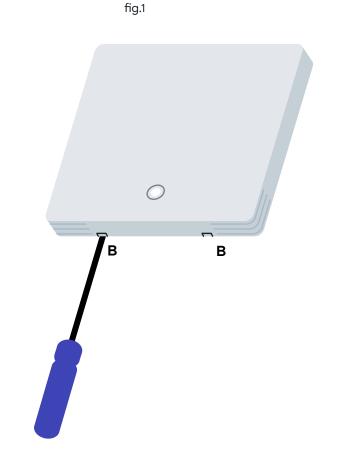
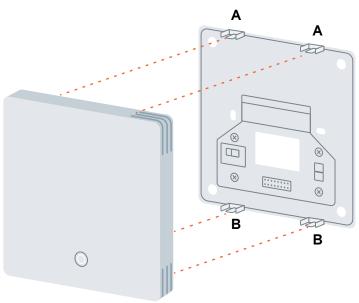


fig.2

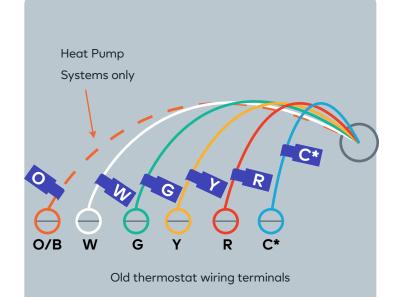






Removing the Existing Thermostat

- Switch off the power to the HVAC system, either at the unit itself or at the circuit breaker panel.
- Take off the cover of the existing thermostat to reveal the wiring terminals.
- Snap a photo of the wiring terminals; this can be useful for troubleshooting later.
- Label the wires connected to the terminals using the provided wiring labels.
- Be sure to label the wires according to the terminal labels, not by the wire color.
- Remove the base of the old thermostat.
- Take care not to let the wires fall back into the wall.



Terminal	Typical Wire Color	Function
Y	Yellow	Cool
W	White	Heat
G	Green	Fan
R	Red	24VAC Return
С	Blue	24V Common (typically BLUE).



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Wiring the Ezlo Z-Wave Thermostat for your specific HVAC system

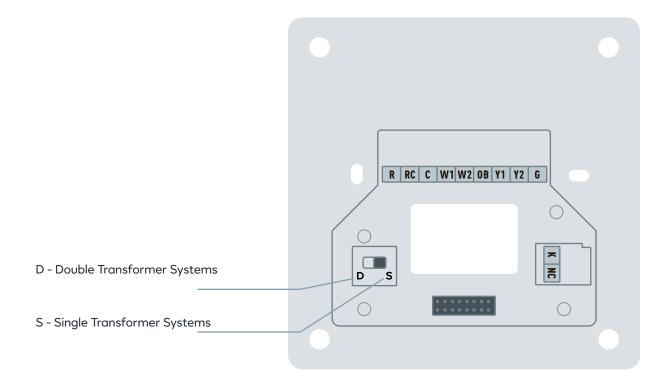
		Terminals need to be wired						Wiring
ltem	Description	G	Y1	Y2	W1	W2	O/B	Diagram Reference
0	One-stage Conventional cool only							Fig.0
1	Two-stage Conventional cool only							Fig.1
2	One-stage Conventional heat only							Fig.2
3	One-stage Conventional heat only(no fan)							Fig.3
4	Two-stage Conventional heat only							Fig.4
5	One-stage Conventional heat & coo							Fig.5 Fig.5-2
6	Two-stage Conventional heat & cool							Fig.6 Fig.6-2
7	One-stage Cool in heat pump						0	Fig.7
8	Two-stage Cool in heat pump						0	Fig.8
9	One-stage heat in heat pump (optional: Aux)					0	0	Fig.7 Fig.9-2 Fig.9-3
10	Two-stage heat in heat pump (optional: Aux)	•				0	0	Fig.8 Fig.10-2 Fig.10-3
11	One-stage heat & cool in heat pump (optional: Aux)		٠			0	•	Fig.11 Fig.11-2 Fig.11-3
12	Two-stage heat & cool in heat pump (optional: Aux)					0	•	Fig.12 Fig.12-2 Fig.12-3



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Wiring Terminals Description

Terminal	Description
R (Red)	Power for heatingconnect to secondary side of heating system transformer
RC	Power for coolingconnect to secondary side of cooling system transformer
С	Common wire from secondary side of cooling or heating system transformer
W	Heat relay(stage 1)
W2	Second stage heat relay or auxiliary heat relay
ОВ	Changeover valve for heat pump systems
Y	Compressor contactor (stage 1)
Y2	Compressor contactor (stage 2)
G	Fan relay
К	Wire with 4-5 module
NC	

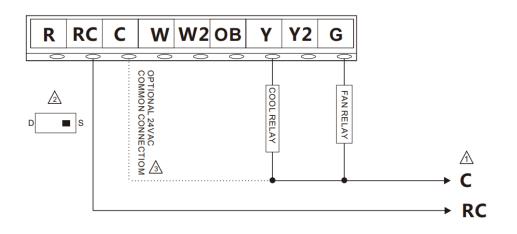




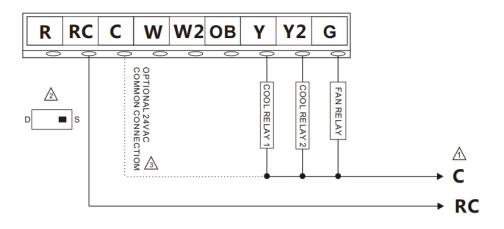
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Installation Wiring For Conventional Systems:

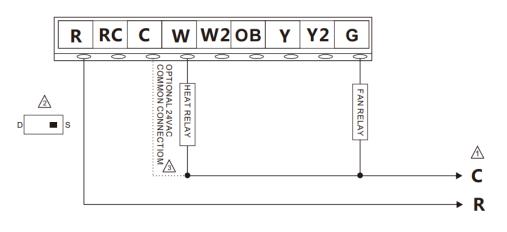
Installation Wiring For One-stage Conventional Cool Only:



Installation Wiring For Two-stage Conventional Cool Only:



Installation Wiring For One-Stage Conventional Heat Only:





200 Broadacres Dr, Bloomfield, NJ 07003 866-966-2272 • <u>ezlo.com</u> Fig. 0 One-stage Conventional cool only

Fig. 1 Two-stage Conventional cool only

Fig. 2 One-stage Conventional heat only



Installation Wiring For One-stage Conventional Heat Only (no fan)

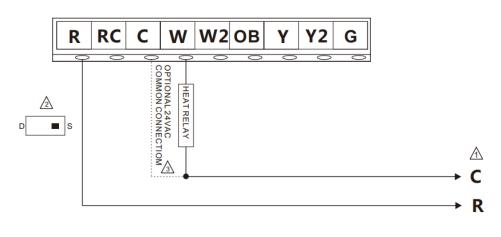


Fig. 3 One-stage Conventional heat only (no fan)

Installation Wiring For Two-stage Conventional Heat Only

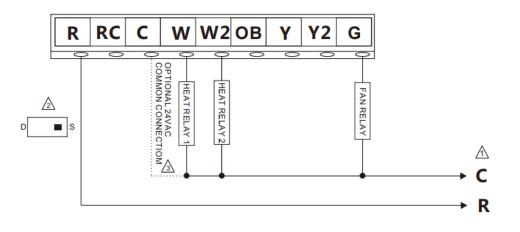


Fig. 4 Two-stage Conventional heat only

Installation Wiring For One-stage Conventional Heat & Cool (Single Transformer)

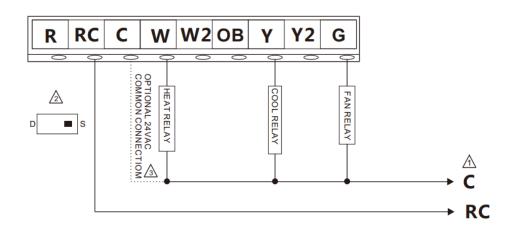


Fig. 5 One-stage Conventional heat & cool



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Installation Wiring For One-stage Conventional Heat & Cool (Double Transformer)

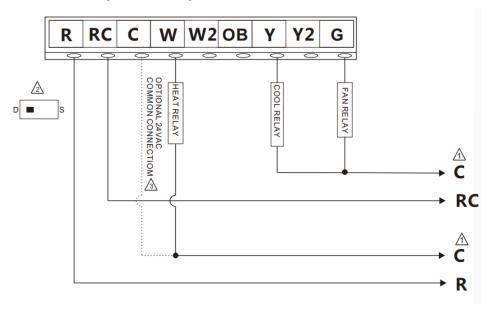


Fig. 5-2 One-stage Conventional heat & cool

Installation Wiring For Two-stage Conventional Heat & Cool (Single Transformer)

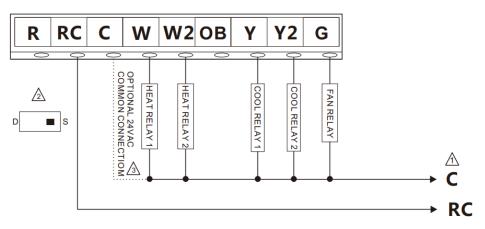


Fig. 6 Two-stage Conventional heat & cool

Installation Wiring For Two-stage Conventional Heat & Cool (Double Transformer)

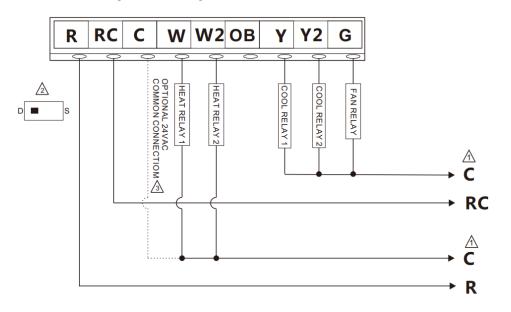


Fig. 6-2 Two-stage Conventional heat & cool





Installation Wiring For Heat Pump Systems:

Installation Wiring for One-stage Cool in Heat Pump & One-Stage Heat in Heat Pump (no auxiliary heat)

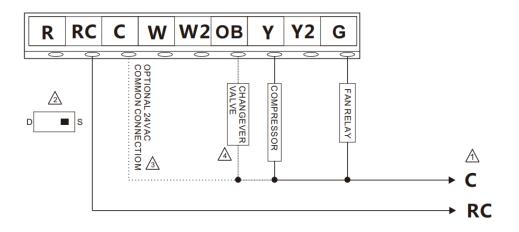


Fig. 7 One-stage Cool and heat pump & One-stage heat in heat pump (no auxiliary heat)

Installation Wiring for Two-Stage Cool in Heat Pump & Two-stage Heat in Heat Pump (no auxiliary heat)

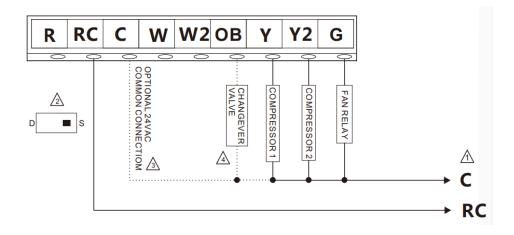
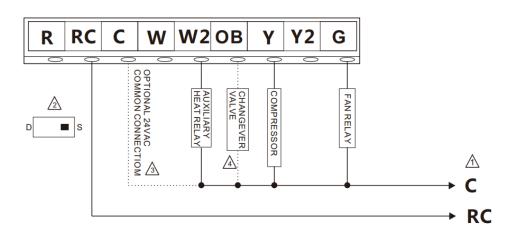


Fig. 8 Two-stage Cool in heat pump & Two-stage heat in heat pump (no auxiliary heat)

Installation Wiring for One-stage Heat in Heat Pump (with auxiliary heat) Single Transformer





200 Broadacres Dr, Bloomfield, NJ 07003 866-966-2272 • <u>ezlo.com</u> Fig. 9-2 One-stage heat in heat pump (with auxiliary heat)

Installation Wiring for One-stage Heat in Heat Pump (with auxiliary heat) Double Transformer

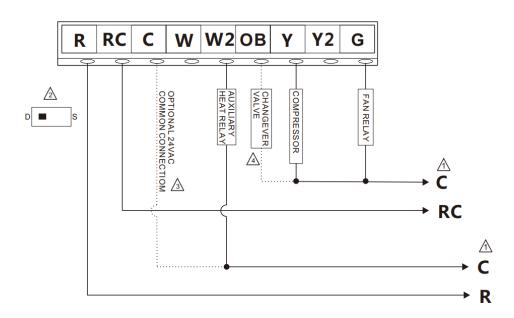


Fig. 9-3 One-stage heat in heat pump (with auxiliary heat)

Installation Wiring for Two-Stage Heat in Heat Pump (with auxiliary heat) Single Transformer

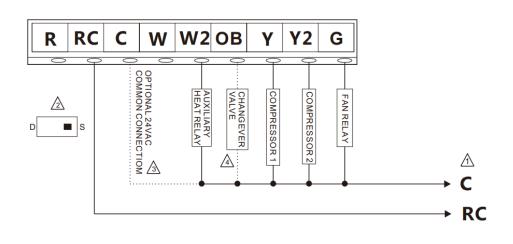


Fig. 10-2 Two-stage heat in heat pump (with auxiliary heat)





Installation Wiring for Two-Stage Heat in Heat Pump (with auxiliary heat) Double Transformer

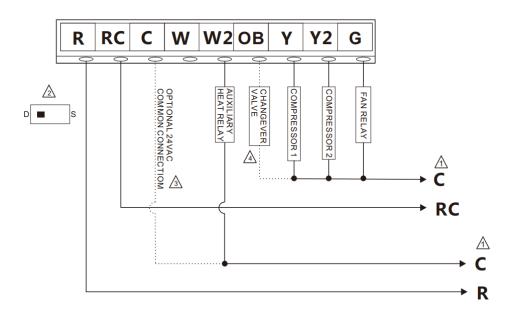


Fig. 10-3 Two-stage heat in heat pump (with auxiliary heat)

Installation Wiring for One-stage Heat & Cool in Heat Pump (no auxiliary heat)

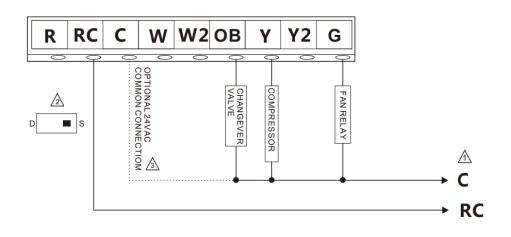


Fig. 11 One-stage heat & cool in heat pump (no auxiliary heat)





Installation Wiring for One-stage Heat & Cool in Heat Pump (with auxiliary heat) Single Transformer

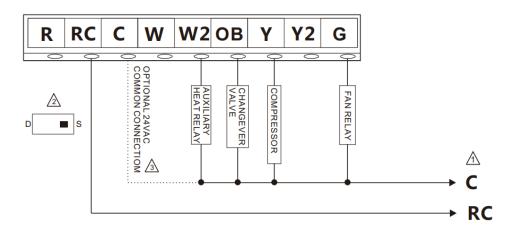


Fig. 11-2 One-stage heat & cool in heat pump (with auxiliary heat)

Installation Wiring for One-stage Heat & Cool in Heat Pump (with auxiliary heat) Double Transformer

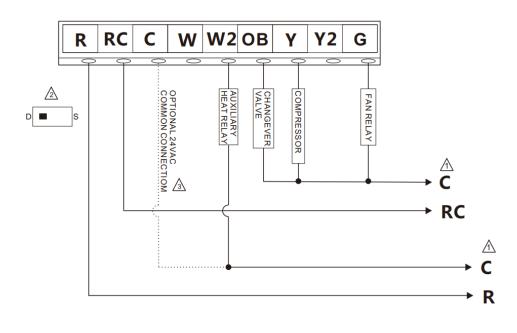


Fig. 11-3 One-stage heat & cool in heat pump (with auxiliary heat)





Installation Wiring for Two-Stage Heat & Cool in Heat Pump (no auxiliary heat)

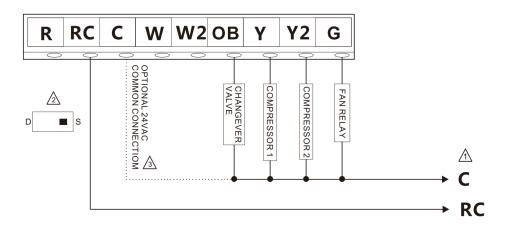


Fig. 12 Two-stage heat & cool in heat pump (no auxiliary heat)

Installation Wiring for Two-Stage Heat & Cool in Heat Pump (with auxiliary heat) Single Transformer

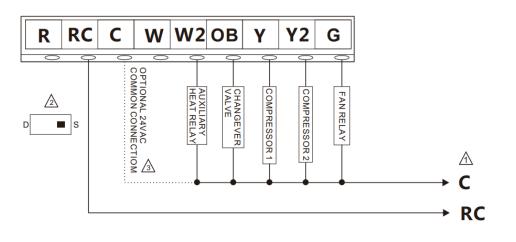


Fig. 12-2 Two-stage heat & cool in heat pump (with auxiliary heat)





Installation Wiring for Two-Stage Heat & Cool in Heat Pump (with auxiliary heat) Double Transformer

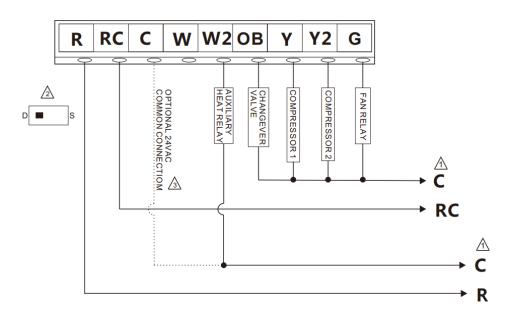
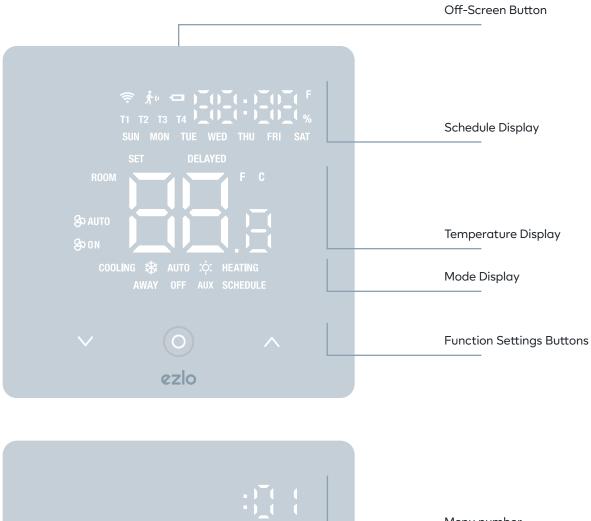


Fig. 12-3 Two-stage heat & cool in heat pump (with auxiliary heat)





Thermostat Display Overview







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Menu Description

Menu

Number	ltem	Range	Default	Description
1	Temp. Unit	C/F	F	C: Celsius F: Fahrenheit
2	Power Failure Memory	0-1	1	When power on again: 0: Device will be in shutdown state (OFF). 1: Device will stay the last status of working mode.
3	SCREEN OFF	0-90min	1min	Automatic screen off time, When the device is charged by C&R port: 0: The screen will not turn off automatically; Set 1-90mins to automate turn off the screen. When the device is powered by battery: Set 3-90secs to automate turn off the screen; 0-2: After 8sec the screen will be turned off automatically.
4	Beep Set	0-1	1	0: OFF, 1: ON
5	Backlight Brightness	0-8	8	1-8: 8 level backlight brightness, 1 is the dimmest, 8 is the brightest
6	Temp. Upper Limit	1-99°C / 1-99°F	37°C / 98°F	Temp. upper limit value, accuracy n*1
7	Temp. Lower Limit	0-99°C / 1-99°F	5°C / 41°F	Temp. lower limit value, accuracy n*1
8	Temp. Offset	-99~99°C / -99°F-99°F	0°C / 0°F	Temp. offset value(°C or °F), accuracy 0.1 (n*0.1)
9	Humidity Offset	-20~+20	0	Humidity offset value
10	Fan and Humidity Display Select	0-3	0	0: The most simplest display, fan mode and humidity will not display. 1: Display fan mode 2: Display humidity

3: Display fan mode and humidity



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Menu

Menu Number	ltem	Range	Default	Description
11	Panel Lock	0-3	0	0: Disabled 1: Secret Menu operation is invalid,
				except for modifying parameter 11, other operation
				is valid.
				2: Secret Menu operation, changing mode and
				setpoint is invalid, only valid for adding/removing
				network or modifying parameter 11.
				3: Only valid for adding/removing network.
12	1st Temp.	3-90,n*0.1°C /	10 / 20	Specifies the minimum temperature difference
	Hysteresis	3-90,n*0.1°F		between the room temperature and the desired
				setpoint before the first stage of heating or cooling
				is allowed to turn on. (0.3-9 degrees).
13	2nd Temp.	3-90,n*0.1°F /	10 / 20	Specifies the additional minimum temperature
	Hysteresis	3-90,n*0.1°C		difference after the first stage turns on before the
				second stage is activated. (0.3-9 degrees)
14	3rd Temp.	3-90,n*0.1°F /	10 / 20	Specifies the additional minimum temperature
	Hysteresis	3-90,n*0.1°C		difference after the second stage turns on before
				the third stage is activated. (0.3-9 degrees)
15	System Control	0-12	12	0: One-stage Conventional cool only
	Туре			1: Two-stage Conventional cool only
				2: One-stage Conventional heat only
				3: One-stage Conventional heat only (no fan)
				4: Two-stage Conventional heat only
				5: One-stage Conventional heat & cool
				6: Two-stage Conventional heat & cool
				7: One-stage Cool in heat pump
				8: Two-stage Cool in heat pump
				9: One-stage heat in heat pump (optional: Aux)
				10: Two-stage heat in heat pump (optional: Aux)
				11: One-stage heat & cool in heat pump (optional: Aux)
				12: Two-stage heat & cool in heat pump (optional: Aux)
16	Changeover	0-1	0	0=When the heat pump starts cooling, O/B turns
	Valve Logic			on; when the heat pump starts heating, O/B turns
				off 1=When the heat pump starts heating, O/B
				turns on; when the heat pump starts cooling, O/B
				turns off



Menu

Menu Number	ltem	Range	Default	Description
17	Compressor	0~10min	1min	The setting of compressor delay time from
	Protection Time			shutdown to startup, unit: min
18	EM Emergency	0-1	0	1: ON 0: OFF Note: This mode is only valid for heat
	Heat Mode			pump system with heating function
19	Time Display	0-2	0	When Schedule function is activated:
	Selection			0: Time, week, current time period displays.
				1: Week and current time period displays.
				2: Time, week and current time period does not
				display.
20	Fan Shutdown	0-127	0	This parameter is valid only when the fan mode is
	Delay Time			AUTO. 0: When the compressor is shut down, the
				fan is also shut down. 1-127: The fan shuts down in
				a delay of n*minutes after the compressor is shut
				down, unit: minute
21	Compressor	0-1	0	0: No Display
	delay countdown display			1: Display
22	Whether to	0-1	1	0: Disable
	enable electrical			1: Enable
	auxiliary heat			
98	RESET FACTORY	0-1	0	1: Restore factory setting
99	Firmware Version (Read only)		1	1-255



Navigating the Thermostat menu

Setpoint Setting

Press "▲" or "▼" to set the desired indoor temperature, default setting range: 5~37°C (setting step is 0.5) and 41~98 °F (setting step is 1) by default. During the setting, "SET" icon displays and after finishing the setting, press any button to save the setting and exit.

Mode Setting

When the screen is on, press [©] button and the current mode icon flashes, press [©] button again, it will loop to switch working mode from OFF — >HEAT —>COOL —>AUTO —>AUX (emergency heating). Press "▼" or "▲" or wait for 2 sec to confirm the current setting mode, "MODE" icon stop flashing.

Fan Mode & Schedule Setting

When the screen is on, long press "[©]" for 3 sec and enter setting interface,the setting sequence is: FAN MODE —>SCHEDULE MODE —> WEEK —>TIME —>EXIT. Short press"▼" or "▲"to change the current value and it's icon flashes, press "[©]" to confirm the setting. If the SCHEDULE MODE is enabled, the main page displays "SCHEDULE" icon. Long press "[©]" for 1 sec or without any operation over 20 sec will exit the setting.

Fan On:

In this mode, the fan is always running when the device turns on, and stops when the device turns off.

Fan Auto:

In this mode, the fan runs both in cooling and heating state; the fan stops when cooling or heating is stopped, when the device is in shutdown state, the fan stops.

Secret Menu

Under "OFF" interface, long press " \bigvee " + " \odot " button for 3 sec to enter parameter setting interface. Short press " \bigvee " or " \blacktriangle " button to switch the parameter value, short press " \odot "button to set the next item. Long pressing " \bigvee " +" \odot " button for 1 sec or without any operation over 20 sec will exit the setting.

Thermostat Setup for each system type

After completing the thermostat wiring, access the Thermostats **Secret** menu to configure the system settings and ensure proper operation in the correct mode.

Secret menu .15 (Possible Values 0-7) Default Value: 7

- **0:** One-stage Conventional cool only
- 1: Two-stage Conventional cool only
- 2: One-stage Conventional heat only
- 3: One-stage Conventional heat only (no fan)
- **4:** Two-stage Conventional heat only
- 5: One-stage Conventional heat & cool
- 6: Two-stage Conventional heat & cool
- 7: One-stage Cool in heat pump
- 8: Two-stage Cool in heat pump
- 9: One-stage heat in heat pump (optional: Aux)
- **10:** Two-stage heat in heat pump (optional: Aux)
- 11: One-stage heat & cool in heat pump (optional: Aux)
- 12: Two-stage heat & cool in heat pump (optional: Aux)

See pages 23-25 for extra settings that may need to be adjusted from the menu for each system type. These can also be adjusted via Z-Wave Configuration parameters mentioned on page 34.



Navigating the Thermostat menu

Standby & Backlight Brightness Setting

1. The device will turn off the screen automatically without any operation. The default is 8 seconds for battery power supply and 1 minute for 24V power supply.

 When the screen lights up, pressing the top button of the device can turn off the screen.
 Pressing any buttons can light up the screen again.

3. Long press the "Off-Screen" button on the top of the device to temporarily adjust the screen brightness. If the screen is turned off this turns it on again, it will get back to the setting from Secret Menu or Z-Wave parameter setting.

4. Fan mode and humidity value icon display or not can be set by Secret Menu or Z-Wave configuration parameter (not displayed by default).

5. When the Schedule function is enabled, the current time, week and time period icon display or not can be set by Secret Menu or Z-Wave configuration parameter (displayed by default).







Including the Z-Wave Thermostat to an Ezlo Z-Wave Hub

Step 1: In the MiOS App

- 1. Open MiOS and go to "More."
- 2. Select "Devices" and tap the "+" in the top right.
- 3. Choose your Ezlo Z-Wave Hub from the controller list.
- 4. Select "Generic Z-Wave Devices" and tap "Next."

Step 2: On the Thermostat

- Press and hold "▼" and "▲" for 3 seconds to open the Z-WAVE menu.
- 2. If the thermostat is not connected, "---" will appear. Otherwise, the node ID is shown.
- 3. Press "©" to enter learning mode.

Note: Follow the same steps to exclude the device from the network. When removed from the Z-Wave network, the device restores it's Z-Wave factory setting.







Including the Z-Wave Thermostat to other Z-Wave compatible hubs

Note: First, check the manual of the specific third party compatible how to include Z-Wave devices.

Step 1: Put the Z-Wave hub in including Mode.

Step 2: On the Thermostat

- Press and hold "▼" and "▲" for 3 seconds to open the Z-WAVE menu.
- If the thermostat is not connected, "---" will appear. Otherwise, the node ID is shown.
- Press "©" to enter learning mode.

Note: Follow the same steps to exclude the device from the network. When removed from the Z-Wave network, the device restores it's Z-Wave factory setting.







Z-Wave Command Classes

S2 Supported

COMMAND_CLASS_VERSION

COMMAND_CLASS_DEVICE_RESET_LOCALLY

COMMAND_CLASS_BATTERY

COMMAND_CLASS_THERMOSTAT_SETPOINT

COMMAND_CLASS_THERMOSTAT_OPERATING_STAT

COMMAND_CLASS_THERMOSTAT_FAN_STATE

COMMAND_CLASS_TIME_PARAMETERS

COMMAND_CLASS_ASSOCIATION

COMMAND_CLASS_ASSOCIATION_GRP_INFO

COMMAND_CLASS_MANUFACTURER_SPECIFIC

COMMAND_CLASS_POWERLEVEL

COMMAND_CLASS_SENSOR_MULTILEVEL

COMMAND_CLASS_THERMOSTAT_MODE

COMMAND_CLASS_THERMOSTAT_FAN_MODE

COMMAND_CLASS_TIME

COMMAND_CLASS_CONFIGURATION

COMMAND_CLASS_MULTI_CHANNEL_ASSOCIATION

COMMAND_CLASS_FIRMWARE_UPDATE_MD

Non S2 Support

COMMAND_CLASS_ZWAVEPLUS_INFO

COMMAND_CLASS_SECURITY_2

COMMAND_CLASS_TRANSPORT_SERVICE

COMMAND_CLASS_SUPERVISION





AG Identifier	Max Node ID	Command Class	Trigger situation
0x01	0x01	COMMAND_CLASS_SENSOR_MULTILEVEL_V5, SENSOR_MULTILEVEL_REPORT_V5	The change between the current detected temperature and the last reported gateway temperature is greater than the value set in parameter 2. The change between the current detected humidity and the last reported gateway humidity is greater than the value set in parameter 3.
		COMMAND_CLASS_THERMOSTAT_MODE_V2, THERMOSTAT_MODE_REPORT	Thermostat mode changes
		COMMAND_CLASS_THERMOSTAT_OPERATING_ STATE, THERMOSTAT_OPERATING_STATE_REPORT	Thermostat status changes
		COMMAND_CLASS_THERMOSTAT_SETPOINT_V2, THERMOSTAT_SETPOINT_REPORT_V2	Set point value changes
		COMMAND_CLASS_THERMOSTAT_FAN_MODE, THERMOSTAT_FAN_MODE_REPORT	Fan mode changes
		COMMAND_CLASS_THERMOSTAT_FAN_STATE, THERMOSTAT_FAN_STATE_REPORT	Fan status changes
		COMMAND_CLASS_DEVICE_RESET_LOCALLY, DEVICE_RESET_LOCALLY_NOTIFICATION	Restore factory setting
		COMMAND_CLASS_BATTERY, BATTERY_REPORT	The change in battery power is greater than 5%

Z-Wave Association Groups





Number	Name	Size	Information	Default	Possible Values
1	Temp. Unit	1	Secret menu No. E20: 0: Celsius 1: Fahrenheit	0	0-1
2	Temp. Difference Reporting	2	Unit 0.1°C 0: Disabled 3-255: n *0.1°C automatically report the temperature to the gateway when temperature variation greater than this value	5	0, 3-255
2	Temp. Difference Reporting	2	Unit 0.1°F 0: Disabled 3-255: n *0.1°F automatically report the temperature to the gateway when temperature variation greater than this value	10	0, 3-255
3	Humidity Difference Reporting	1	0: Disabled 1-99: Automatically report the humidity to the gateway when humidity variation greater than this value	4	0-99
12	Power Failure Memory	1	Secret menu No. E2 When power on again: 0: Device will be in shutdown state (OFF). 1: Device will stay the last status of working mode	1	0-1
13	SCREEN OFF	1	Secret menu No. E3 Automatic screen off time, When the device is charged by C&R port: 0: The screen will not turn off automatically; Set 1-90mins to automate turn off the screen. When the device is powered by battery: Set 3-90secs to automate turn off the screen; 0-2: After 8sec the screen will be turned off automatically.	1	0-90
14	Beep Set	1	Secret menu No. E4: 0:OFF 1:ON	1	0-1
15	Backlight Brightness	1	Secret menu No. E5: 1-8: 8 level backlight brightness, 1 is the dimmest, 8 is the brightest	8	1-8
16	Temp. Upper Limit	1	Secret menu No. E06: Temperature upper limit value, accuracy n*1	37 (°C) 98 (°F)	1-99



Number	Name	Size	Information	Default	Possible Values
17	Temp. Lower Limit	1	Secret menu No. E07: Temperature lower limit value, accuracy n*1	5 (°C) 41 (°F)	0-98
18	Temp. Offset	1	Secret menu No. E08: Temperature offset value (°C or °F) , accuracy 0.1 (n *0.1	0	(-99~+99) (°C) (-99~+99) (°F)
19	Humidity Offset	1	Secret menu No. E09: Humidity offset value	0	-20~+20
20	Fan & Humidity Display Select	1	Secret menu No. E10: Fan and humidity display mode selection 0: The most simplest display, fan mode and humidity will not display. 1: Display fan mode 2: Display humidity 3: Display fan mode and humidity Note: When schedule function is enabled, the time, week, and time period are displayed, if the humidity display at the same time, the humidity and time are displayed alternately.	0	0-3
21	Panel Lock	1	Secret menu No. E11: 0: Disabled 1: Secret menu operation is invalid, except for modifying parameter 11, other operation is valid. 2: Secret Menu operation, changing mode and setpoint is invalid, only valid for adding/removing network or modifying parameter 11. 3: Only valid for adding/ removing network.	0	0-3
22	1st Temp. Hysteresis	1	Secret menu No. E12: accuracy: 0.1, Specifies the minimum temperature difference between the room temperature and the desired setpoint before the first stage of heating or cooling is allowed to turn on. (0.3-9 degrees). For example, if the heat setpoint is 68° and the 1st stage hysteresis is set to 2 degrees, the room temperature will need to reach 66° before the heat turns on.	10 (°C) 2 (°F)	3-90 (°C) 3-90 (°F)





Number	Name	Size	Information	Default	Possible Values
23	2nd Temp.	1	Secret menu No. E13: accuracy: 0.1, Specifies the	10 (°C)	3-90 (°C)
	Hysteresis		additional minimum temperature difference after	20 (°F)	3-90 (°F)
			the first stage turns on before the second stage is		
			activated. (0.3-9 degrees)		
24	3rd Temp.	1	Secret menu No. E14: accuracy: 0.1, Specifies the	10 (°C)	3-90 (°C)
	Hysteresis		additional minimum temperature difference after	20 (°F)	3-90 (°F)
			the second stage turns on before the third stage is		
			activated. (0.3-9 degrees)		
25	System Control	1	Secret menu No. E15:	12	0-12
	Туре		See the Controlling Type for details		
			Note: This parameter does not change after		
			factory settings are restored. To be more		
			compatible with gateways, after setting this		
			parameter, please add in the gateway again.		
26	Changeover	1	Secret menu No. E16: 0=When the heat pump	0	0-1
	Valve Logic		starts cooling, O/B turns on; when the heat pump		
			starts heating, O/B turns off 1=When the heat		
			pump starts heating, O/B turns on; when the heat		
			pump starts cooling, O/B turns off		
27	Compressor	1	Secret menu No. E17: The setting of compressor	1	0-10
	Protection Time		delay time from shutdown to startup, unit: min		
28	EM Emergency	1	Secret menu No. E18: 1: ON 0: OFF Note: This mode	0	0-1
	Heat Mode		is only valid for heat pump system with heating		
			function		





Number	Name	Size	Information	Default	Possible Values
29	Time Display1When Schedule function is activated: 0: Time, week, current time period displays. 1: Week and current time period displays. 2: Time, week and current time period does not display.		0	0-2	
30	Fan Shutdown Delay Time	1	This parameter is valid only when the fan mode is AUTO. 0: When the compressor is shut down, the fan is also shut down. 1-127: The fan shuts down in a delay of n*minutes after the compressor is shut down, unit: minute	0	0-127
31	Compressor delay countdown display	1	0: No Display 1: Display	0	0-1
32	Whether to enable electrical auxiliary heat	1	0: Disable 1: Enable	1	0-1
45	Schedule Function Selection	1	0: Disabled 1: Enabled	0	0-1
46	The 1st period from Mon-Sun	2	Byte1(MSB): Minute Byte2(LSB): Hour	Byte1: 0 Byte2: 6	Byte1: 0-59 Byte2: 0-23
47	The 2nd period from Mon-Sun	2	Byte1(MSB): Minute Byte2(LSB): Hour	Byte1: 0 Byte2: 8	Byte1: 0-59 Byte2: 0-23
48	The 3nd period from Mon-Sun	2	Byte1(MSB): Minute Byte2(LSB): Hour	Byte1: 0 Byte2: 18	Byte1: 0-59 Byte2: 0-23
49	The 4nd period from Mon-Sun	2	Byte1(MSB): Minute Byte2(LSB): Hour	Byte1: 0 Byte2: 22	Byte1: 0-59 Byte2: 0-23



Number	Name	Size	Information	Default	Possible Values
50	Heat SetPoint for 1st period from Mon-Sun	2	n*0.1 Celsius or n*0.1 Fahrenheit	Celsius:210 Fahrenheit: 700	The range is greater than the lower limit and smaller than the upper limit
51	Heat SetPoint for 2nd period from Mon-Sun	2	n*0.1 Celsius or n*0.1 Fahrenheit	Celsius:165 Fahrenheit: 620	The range is greater than the lower limit and smaller than the upper limit
52	Heat SetPoint for 3rd period from Mon-Sun	2	n*0.1 Celsius or n*0.1 Fahrenheit	Celsius: 210 Fahrenheit: 700	The range is greater than the lower limit and smaller than the upper limit
53	Heat SetPoint for 4th period from Mon-Sun	2	n*0.1 Celsius or n*0.1 Fahrenheit	Celsius: 165 Fahrenheit: 620	The range is greater than the lower limit and smaller than the upper limit
54	Cool SetPoint for 1st period from Mon-Sun	2	n*0.1 Celsius or n*0.1 Fahrenheit	Celsius: 255 Fahrenheit: 780	The range is greater than the lower limit and smaller than the upper limit
55	Cool SetPoint for 2nd period from Mon-Sun	2	n*0.1 Celsius or n*0.1 Fahrenheit	Celsius: 295 Fahrenheit: 850	The range is greater than the lower limit and smaller than the upper limit
56	Cool SetPoint for 3rd period from Mon-Sun	2	n*0.1 Celsius or n*0.1 Fahrenheit	Celsius: 255 Fahrenheit: 780	The range is greater than the lower limit and smaller than the upper limit
57	Cool SetPoint for 4th period from Mon-Sun	2	n*0.1 Celsius or n*0.1 Fahrenheit	Celsius: 280 Fahrenheit: 820	The range is greater than the lower limit and smaller than the upper limit
58-64	The 1st period for MonSun	2	Byte1(MSB): Minute Byte2(LSB): Hour	Byte1: 0 Byte2: 6	Byte1: 0-59 Byte: 0-23
65-71	The 2nd period for MonSun	2	Byte1(MSB): Minute Byte2(LSB): Hour	Byte1: 0 Byte2: 8	Byte1: 0-59 Byte: 0-23



Number	Name	Size	Information	Default	Possible Values
72-78	The 3rd period	2	Byte1(MSB): Minute	Byte1: 0	Byte1: 0-59
	for MonSun		Byte2(LSB): Hour	Byte2: 18	Byte: 0-23
79-85	The 4th period	2	Byte1(MSB): Minute	Byte1: 0	Byte1: 0-59
	for MonSun		Byte2(LSB): Hour	Byte2: 22	Byte: 0-23
86-92	The 1st heat	2	n*0.1 Celsius or n*0.1 Fahrenheit	Celsius: 210	The range is greater than the
	SetPoint for			Fahrenheit: 700	lower limit and smaller than the
	MonSun				upper limit
93-99	The 2nd heat	2	n*0.1 Celsius or n*0.1 Fahrenheit	Celsius: 165	The range is greater than the
	SetPoint for			Fahrenheit: 620	lower limit and smaller than the
	MonSun				upper limit
100-	The 3rd heat	2	n*0.1 Celsius or n*0.1 Fahrenheit	Celsius: 210	The range is greater than the
106	SetPoint for			Fahrenheit: 700	lower limit and smaller than the
	MonSun				upper limit
107-	The 4th heat	2	n*0.1 Celsius or n*0.1 Fahrenheit	Celsius: 165	The range is greater than the
113	SetPoint for			Fahrenheit: 620	lower limit and smaller than the
	MonSun				upper limit
114-	The 1st cool	2	n*0.1 Celsius or n*0.1 Fahrenheit	Celsius: 255	The range is greater than the
120	SetPoint for			Fahrenheit: 780	lower limit and smaller than the
	MonSun				upper limit
121-	The 2nd cool	2	n*0.1 Celsius or n*0.1 Fahrenheit	Celsius: 295	The range is greater than the
127	SetPoint for			Fahrenheit: 850	lower limit and smaller than the
	MonSun				upper limit
128-	The 3rd cool	2	n*0.1 Celsius or n*0.1 Fahrenheit	Celsius: 255	The range is greater than the
134	SetPoint for			Fahrenheit: 780	lower limit and smaller than the
	MonSun				upper limit
135-	The 4th cool	2	n*0.1 Celsius or n*0.1 Fahrenheit	Celsius: 280	The range is greater than the
141	SetPoint for			Fahrenheit: 820	lower limit and smaller than the
	MonSun				upper limit
255	Factory Restore	1	1: Restore factory setting 0: Invalid	0	0-1



Regulatory Information FCC Information:

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation. Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This product generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment o and on, the user is encouraged to try to correct the interference by one or more of the following measures: Reorient or relocate the receiving antenna. Increase the separation between the equipment and receiver. Connect the equipment to an outlet on a circuit different from that to which the receiver is connected. Consult the dealer or an experienced radio/TV technician for help. Please take attention that changes or modification not expressly approved by Ezlo Innovation could void the user's authority to operate the equipment. This equipment should be installed and operated with a minimum distance 20cm between the radiator and your body. Industry Canada ICES-003 Compliance This device meets the CAN ICES-3 (B)/NMB-3(B) standards requirements. This device complies with Industry Canada licence-exempt RSS standard(s). Operation is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of the device. Under Industry Canada regulations, this radio transmitter may only operate using and antenna of a type and maximum (or lesser) gain approved for the transmitter by Industry Canada. To reduce potential radio interference to other users, the antenna type and its gain should be so chosen that the equivalent isotropically radiated power (e.i.r.p.) is not more than that necessary for successful Communication. This equipment complies with IC RSS-102 radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator & your body.

1-Year Limited Warranty

We warrant this product to be free from defects in material and workmanship under normal and proper use for one year from purchase date of the original purchaser. We will, at its option, either repair or replace any part of its products that prove defective by reason of improper workmanship or materials. This limited warranty does not cover any damage to this product that results from improper installation, accident, abuse, misuse, natural disaster, insufficient or excessive electrical supply, abnormal mechanical or environmental conditions, or any unauthorized disassembly, repair or modification. This limited warranty shall not apply if: (i) the product was not used in accordance with any accompanying instructions, or (ii) the product was not used for its intended function. This limited warranty also does not apply to any product on which the original identification information has been altered, obliterated or removed, that has not been handled or packaged correctly, that has been sold as second-hand or that has been resold contrary to Country and other applicable export regulations.



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