

DEXP

**SMART UNDERFLOOR HEATING
THERMOSTAT**

SMART ST-01W

USER MANUAL

DEAR CUSTOMER,

Thank you for choosing our products.

We are pleased to offer you appliances and devices designed and manufactured to the highest standards of quality, functionality, and design. Before using the device, please read this manual carefully. It contains important information regarding your safety, as well as recommendations for the proper use and care of the product. Please keep this manual in a safe place and use it as a reference guide during future operation of the product.

INTENDED USE

A smart thermostat is designed to control underfloor heating systems, including remotely via Wi-Fi.

SAFETY PRECAUTIONS

- Do not use the device outdoors.
- Do not install the device near strong heat or cold sources: air conditioners, fans, refrigerators, stoves, etc.
- Do not use the device near heat sources or expose it to direct sunlight.
- To avoid electric shock, do not expose the device to rain or moisture.
- Protect the device from impacts, drops, vibrations, and other mechanical stress.
- Do not disassemble the device yourself to avoid electric shock. This device contains no user-serviceable parts. Maintenance and repairs should only be performed by qualified technicians at an authorized service center.
- Use the device exclusively for the purposes described in this manual.
- This device is not intended for commercial use.
- This device is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction concerning use of appliance by a person responsible for their safety. Children should be supervised to ensure that they do not play with the device.

SPECIFICATIONS

- Model: ST-01W.
- Trademark: DEXP.
- Power supply: 230 V ~ 50 Hz.
- Maximum current: 16 A.
- Communication protocol: Wi-Fi.
- Wireless standard: IEEE 802.11b/g/n.
- Frequency range: 2412–2472 MHz.
- Transmitter power: 16.05 dBm.
- Operating temperature: 5 °C to 50 °C.
- Control apps: HouseIf, Smart Life, Tuya Smart Life.
- Smart home ecosystems: HouseIf, Tuya Smart, Yandex.
- OS support: Android, iOS.
- Base material: Plastic, glass.
- Display: LED.
- IP code: IP20.
- Scope of application: Domestic.

PACKAGE CONTENTS

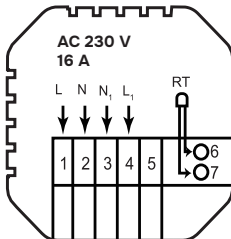
- Smart thermostat.
- Remote temperature sensor (3 m).
- Screws – 2 pcs.
- User manual.

INSTALLATION AND CONNECTION

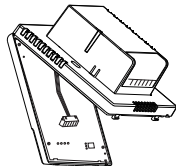
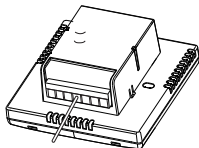
CAUTION:

- Installation and maintenance of the device must be carried out exclusively by qualified specialists in accordance with the instructions provided in this manual.
- Make sure your home power supply voltage matches the device's technical specifications.
- Before installation, be sure to disconnect the power supply to avoid electric shock.

Connection Diagram

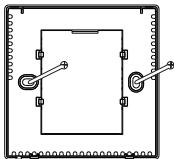


Installation

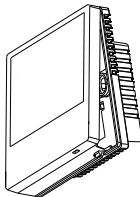


1. Connect the power supply unit according to the wiring diagram in the "Connection Diagram" section.

2. Disconnect the power supply unit from the control board cable.

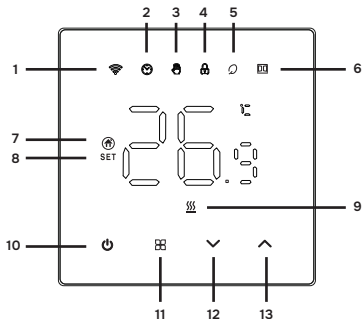


3. Secure the power supply unit inside an 86 mm mounting box using the screws.



4. Connect the power supply unit to the board cable and align the connectors at a 30° angle until they click into place to complete the installation.

CONTROL PANEL



1. Wi-Fi indicator.
2. Programmable mode indicator.
3. Manual mode indicator.
4. Control panel lock indicator.
5. Economy / Away mode indicator.
6. Open window detection indicator.
7. Room temperature indicator.
8. Set temperature indicator.
9. Heating indicator.
10. Power button.
11. Mode selection button.
12. Decrease button.
13. Increase button.

OPERATING INSTRUCTIONS

Operating

- To turn the thermostat on/off, press the «  » button.
- Press the «  » button to switch between manual mode (indicator «  ») and economy/away mode (indicator «  »).
- To lock/unlock the control panel, press and hold the «  » and «  » buttons simultaneously for 5 seconds.

CONNECTING TO THE APP

Installing the App

The smart device can be controlled using the Houself app. To install it, scan the QR code or download the app from Google Play App Store, AppGallery, or RuStore.



Connecting the Device to Wi-Fi

When the device is on, press and hold the «  » button for 5 seconds. The indicator «  » on the thermostat display will start flashing – the device is ready for pairing.

Adding the Device

1. Connect your smartphone to a 2.4 GHz Wi-Fi network. Open the Houself app and tap the “+” button in the upper right corner. Select “Add Device”. It is also recommended to enable Bluetooth on your smartphone and allow the app to access your location for faster device discovery. The app will automatically find nearby devices available for pairing.
2. If the device is not found automatically, you can add it manually. Select the brand on the left, then the device model. Select your Wi-Fi network, enter the Wi-Fi password, and tap “Next”. Follow the instructions in the app.
3. Tap “Done” when the device menu with available functions appears.
4. If an error occurs during connection, make sure that: a 2.4 GHz Wi-Fi network is being used (not a mixed 2.4/5 GHz network); the WPA3 security standard is not being used; your Wi-Fi network configuration does not have settings that restrict the connection of IoT smart devices.

CAUTION:



- Do not use Wi-Fi in areas where wireless devices are prohibited, such as airports, medical facilities, etc.
- App control performance is affected by your smartphone, Wi-Fi network, distance from the router, and connection quality. Therefore, if you are unable to connect the device to the app, check the Wi-Fi connection quality, your smartphone, and the distance from the router.

Setting Up Programmable Mode

This mode can only be selected and configured through the app. To do this, tap **"Weekly Schedule"** on the main screen.

- **"Weekdays and Weekends"**: tap this option to set the number of working/ weekend days per week: "5/2", "6/1", "7/0".
- **"Day Planner"**: tap this option to set the temperature for each time period on weekdays/weekends. 6 periods are available for weekdays, and 2 periods for weekends.

You can set any desired values within the available range. The table below is for reference only.

Option	Period	Time	Temperature
Weekday	1 (early morning)	06:00	20 °C
	2 (morning)	08:00	16 °C
	3 (midday)	11:30	16 °C
	4 (afternoon)	12:30	16 °C
	5 (evening)	17:00	22 °C
	6 (night)	22:00	16 °C
Weekend	1 (day)	08:00	22 °C
	2 (night)	23:00	16 °C

Advanced Settings

1. When the device is off, press and hold the «» and «» buttons simultaneously for 5 seconds to enter advanced settings mode.
2. Press the «» button to switch between options.
3. Press the «» and «» buttons to change the value of the selected option.
4. Press the «» button to exit advanced settings mode.

No.	Function	Description
01	Temperature calibration	Adjust thermometer reading accuracy. Default value: -2 °C. Press the «  » and «  » buttons to adjust the value within the range of 9.9 °C to -9.9 °C
02	Sensor selection	Press the «  » and «  » buttons to select the active sensor: "IN" (built-in sensor), "OUT" (remote sensor), "ALL" (both sensors). Default option: "IN"
03	Maximum temperature limit setting	Default value: 60 °C. Press the «  » and «  » buttons to adjust the value within the range of 25 °C to 95 °C
04	Temperature adjustment step (hysteresis)	The device triggers when the difference between the current and set temperature is 1 °C by default. Press the «  » and «  » buttons to adjust the value within the range of 0.5 °C to 10 °C
05	Anti-freeze function	The function is disabled by default ("OFF"). Press the «  » button to enable it. The anti-freeze function activates when the room temperature drops below 5 °C
06	Number of weekend days setting	"5" – two weekend days, "6" – one weekend day, "7" – no weekend days, "OFF" – disabled
07	Inverse mode	"00" – normal mode, "01" – inverse mode. This function is not available for this model

No.	Function	Description
08	Backlight brightness	"01" – low, "02" – medium, "03" – high
09	Upper temperature limit	The default upper limit for setting is 60 °C. Press the « ^ » and « v » buttons to change it within the range of 15 °C to 95 °C
10	Sound	"ON" – enabled, "OFF" – disabled
11	Open window detection	When enabled, if the room temperature drops by 6 °C within 4 minutes, heating stops (the «  » indicator lights up). If the temperature rises by 3 °C / 48 minutes pass / the function is manually disabled, the device returns to normal operation
12	Memory function in case of power loss	"0" – memory function enabled; "1" – device turns on after power is restored; "2" – device remains off after power is restored
13	Factory reset	« - » is displayed by default; press the « ^ », button and « - » will appear. Then press the power button to reset the settings
14	Night mode	Backlight turns off at night. Disabled by default. The on/off time can be set in the app

TROUBLESHOOTING GUIDE

Issue	Solution
Unable to establish a wireless connection	Make sure the device is connected to the power supply
	Make sure both the thermostat and your phone are connected to the same 2.4 GHz Wi-Fi network
	Make sure the Wi-Fi signal is strong
	Make sure the password entered in the app is correct
	Make sure the thermostat is properly connected
Wi-Fi network or password has changed	Reconnect the device to the new network

RULES AND CONDITIONS FOR INSTALLATION, STORAGE, TRANSPORTATION, SALE (DISTRIBUTION), AND DISPOSAL

- The installation and mounting conditions for the device are described in the “Installation” section of this user manual.
- The device must be stored in its original packaging, on heated premises, both at the manufacturer’s and at the consumer’s sites. The ambient temperature should be between +5 °C and +40 °C, and the relative humidity should not exceed 80% (non-condensing). The storage area must be free from aggressive contaminants (e.g., acid or alkali vapors) that could cause corrosion.
- The device must be transported in a dry place.
- The device requires careful handling. Protect it from exposure to dust, dirt, impact, moisture, fire, and other hazards.
- Sale or distribution of the device must be carried out in accordance with local legislation.
- Upon expiration of the device’s service life, it must not be disposed of with unsorted household waste. Instead, it must be taken to an authorized collection point for electrical and electronic equipment for subsequent recycling and disposal in accordance with federal or local legislation. By ensuring proper disposal of this product, you help conserve natural resources and prevent potential harm to the environment and human health that may result from improper handling. For more detailed information about collection and disposal points for this product, please contact your local municipal authorities or your household waste disposal service.
- If a device malfunction is detected, immediately contact an authorized service center or dispose of the device.

WARRANTY INFORMATION

The manufacturer guarantees the device will function properly throughout the warranty period and be free from defects in materials and assembly. The warranty period commences on the date of purchase and applies to new products only. Warranty service includes free repair or replacement of defective parts that fail during the warranty period, provided the failure is not caused by consumer misuse and the product is operated in accordance with the user manual. Repairs or part replacements shall be performed at authorized service centers.

Warranty Period: 12 months

Service Life: 24 months

For the up-to-date list of authorized service centers, please visit:
<https://www.dns-shop.ru/service-center/>

ADDITIONAL INFORMATION

Manufacturer: Guizhou Cloud House Intelligent Technology Co., Ltd.
No. 555, Zhumeng Road, Gaoping Street, Huichuan District, Zunyi City, Guizhou Province (4F, Building 6, Phase I Park of Lingang Zunyi Science and Technology City), China.
Made in China

Product specifications, information and appearance are subject to change without prior notice, for quality improvement of our products.



Production date (mm.yyyy): _____ V.1