

Solar Rain Sensor User Manual



*Before using the product, please read this manual carefully and retain it for future reference.

I. Product Introduction

This product is one of the smart home series. It integrates rain water sensing and light intensity detection functions, providing real-time and intuitive data for the smart home system, and enabling scene-linked control with other smart home products, effectively enhancing the user's smart experience. The product is designed for ultra-low power consumption, equipped with a high-capacity lithium battery, and charged by solar energy, eliminating the need for users to worry about the product's battery life.

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II. Product Specifications

Model: RB-SRAIN01

Dimensions(excluding bracket):

4.1 inches * 4.1 inches * 0.8 inches

Power Supply: Lithium Battery 3.7V/1300mAh

Communication Method: ZigBee

(requires pairing with a Tuya ZigBee gateway, which needs to be purchased separately)

Waterproof Rating: IPX6

Operating Temperature: -10°C to 50°C

Data Sampling Cycle: 60 seconds

The unit of light intensity: mV

(translated into voltage representation)

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III. Software Installation

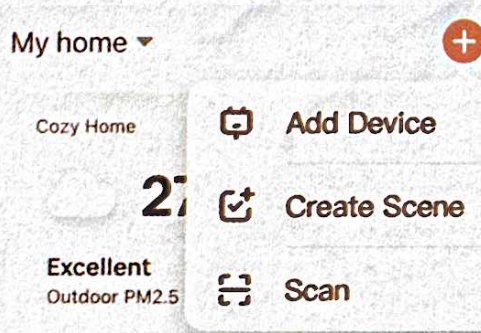
This product requires the use of a Tuya ZigBee gateway (please purchase a separate Tuya ZigBee gateway from our company). Before the solar rain sensor can be connected to the network, the Tuya APP must be installed.

Step 1: Use your smartphone to scan the QR code provided or search for 'Smart Life' in the app store to download and install the Smart Life app.



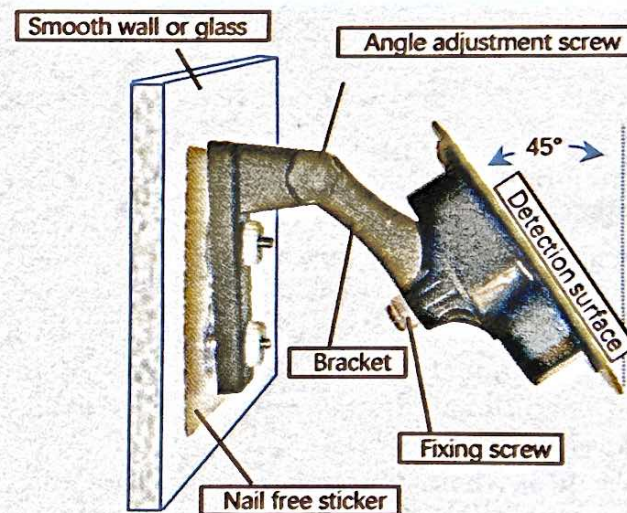
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Step 2: Open the Smart Life APP, log in to your account (register an account if you are using it for the first time), tap the add icon in the top right corner of the home page, select the scan menu, scan the QR code on the back of the product's nameplate, and then follow the on-screen prompts to connect to the network.



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IV. Product Installation



Product Installation Diagram

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1. Determine the installation location, considering the following points:

a. Ensure the product is not too far from the gateway to prevent weak network signals. You can test the connection signal in the gateway interface of the Tuya APP to avoid a "Poor" signal (signal detection results range from weak to strong: "Bad", "Normal", "Good", "Excellent").



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b. Ensure the product can be exposed to rain and sunlight.

c. The product should be easily fixed; smooth walls or glass can be mounted with nail free sticker, while other situations may require screw fastening.

2. First, attach the product to the bracket with fixing screws, then mount the bracket to the wall.

3. Loosen the angle adjustment screw, adjust the installation angle of the product so that the angle between the product's detection surface and the vertical surface is approximately 45° (as shown in the product installation diagram). This angle ensures rainwater does not accumulate on the product's detection surface while still receiving adequate sunlight for solar charging. Tighten the angle adjustment screw after adjusting.

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V. Product Usage

● You can obtain current rain detection status, real-time light intensity, and data records through the product interface in the Tuya APP.

● When the product detects rain, the Tuya APP will push an alarm notification to your phone (it is recommended to enable notifications for the Tuya APP in your phone's system settings to receive push information promptly).

● Personalized intelligent settings can be created through the scene creation feature, for example:
1. Automatic window closing when it rains
Condition: When device status change - Rain Sensor - Droplet Detection Status -> Rain Alarm
Execution: Control Single Device - Electric Window Opener -> Close

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2. Automatic light turn-on when it's dark

Condition: When device status change - Rain Sensor - Light intensity - Less than 2000 mV (adjust this value as needed)

Execution: Control Single Device - Light - Turn On

3. Reminder to bring an umbrella when it rains when leaving

Condition 1: When device status change - Smart Lock - Open Inside - on

Condition 2: When device status change - Rain Sensor - Droplet Detection Status -> Rain Alarm
The conditional logic is set to "When all conditions are met".

Execution: Send notification - Message Center
Save the scene and set the scene name to "It is raining, please remember to bring an umbrella"

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4. Reminder to protect from sunburn when leaving and the sun is strong

Condition 1: When device status change - Smart Lock - Open Inside - on

Condition 2: When device status change - Rain Sensor - 20mins average light intensity - Greater than 5800 mV (this value should be adjusted based on actual needs)

The conditional logic is set to "When all conditions are met".

Execution: Send notification - Message Center
Save the scene and set the scene name to "Strong sunlight, take care to protect against sunburn"

● Notifications from the above functions can be sent through a Tuya smart speaker. For specific setup instructions, refer to the user manual of the Tuya smart speaker.

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● If the product display interface in the Tuya APP shows "The surface of the rain sensor need to be cleaned!", please clean the product's detection surface with a dry cloth.

SPECIAL STATEMENT

If there are any functional updates to this product, please contact our company for further information. We will not notify you of other changes, and the right to interpretation belongs to our company.

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