Manuals+ — User Manuals Simplified.

RainPoint HCS021FRF-DLS Wi-Fi-Enabled Smart Soil and Moisture Sensor User Manual

Contents

RainPoint HCS021FRF-DLS Wi-Fi-Enabled Smart Soil and Moisture Sensor
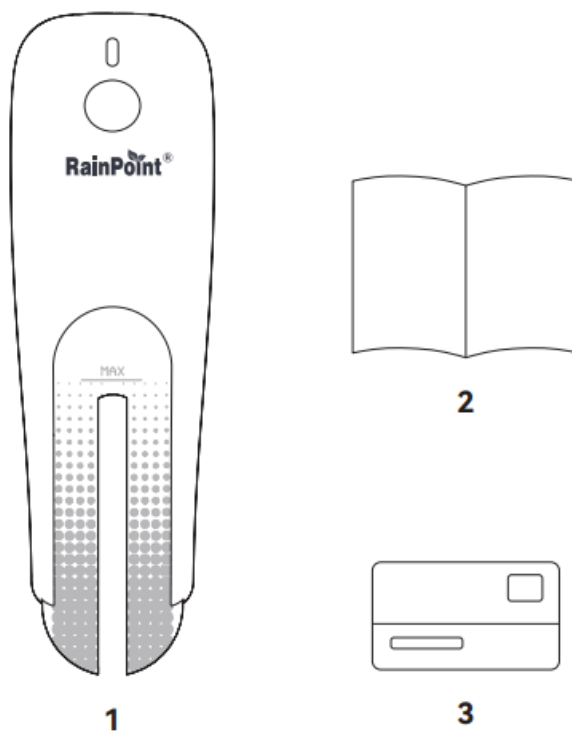
USER MANUAL
Soil & Moisture Sensor
Model No. HCS021FRF-DLS

Welcome to the RAINPOINT family! Please read the manua before using to learn about the features and functions.
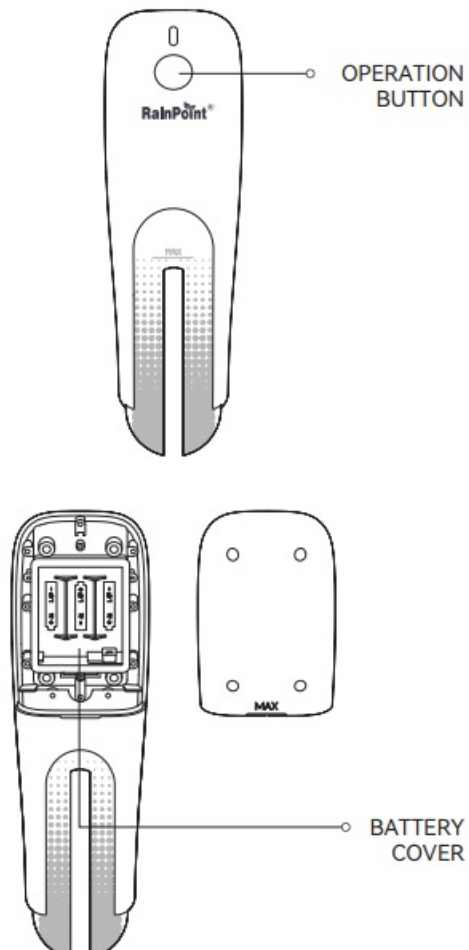
Contents in the box

1. HCS021FRF-DLS Soil & Moisture Sensor

2. User Manual

3. Warranty Card

Introduction

Product Overview

Specification

- Waterproof Level: IPX5
- Temperature Range: -4°F-140°F(-20°C-60°C)
- Humidity Range: 0%- 100%
- RH Light Intensity: 0-200,000 lux
- Communicated by Wi-Fi 2.4GHz.
- Up to 60m depending on obstacle between hub and timer
- Powered by 3* AA batteries (Not included)

Product Features

- Measures soil moisture (%) and surface temperature (°C/°F).
- Built in light sensor at the top to monitor light intensity.

- App remote controlled, easy to set up and operate.
- Pair with water timers, efficient and accurate irrigation.
- Appropriate and modern mold design, accurate measurement.
- Use for outdoor gardening, learn more about areas of soil information.
- Choose different soil type.

Connection And Installation

Tips: Please scan the QR code or search the link to access the video to connect the device quickly and easily.
Set Video: **http://bit.ly/3jlwZle**

Sensor Connection
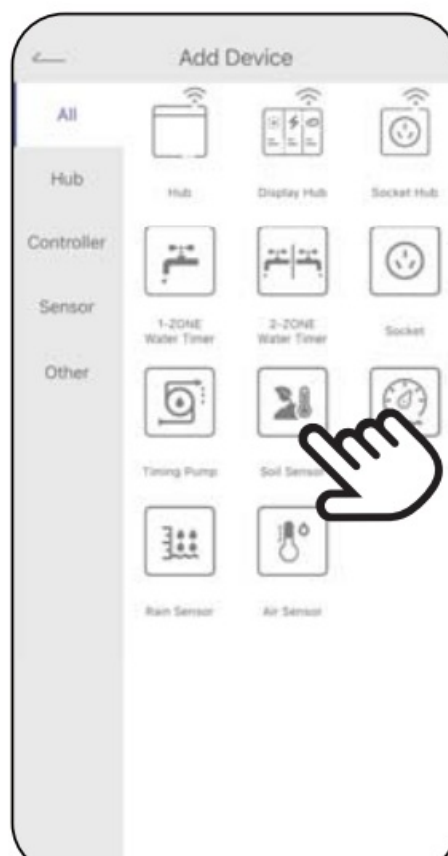This device is a sub-device, please connect the hub of Rainpoint Smart* series before connecting this device.
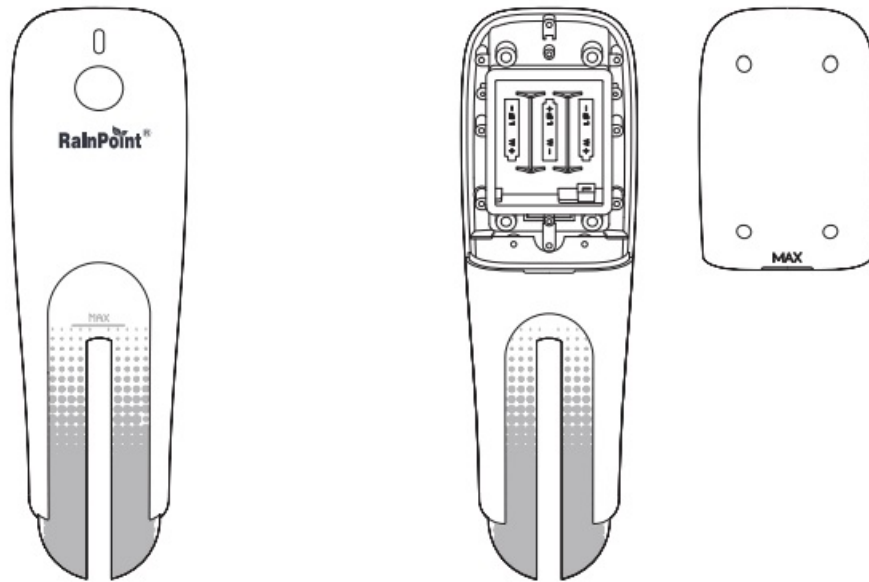
1. Select the + button on the top right corner of the APP home page to add device, or you can go to the hub's

   home page and use " Sub-devices" to add devices.
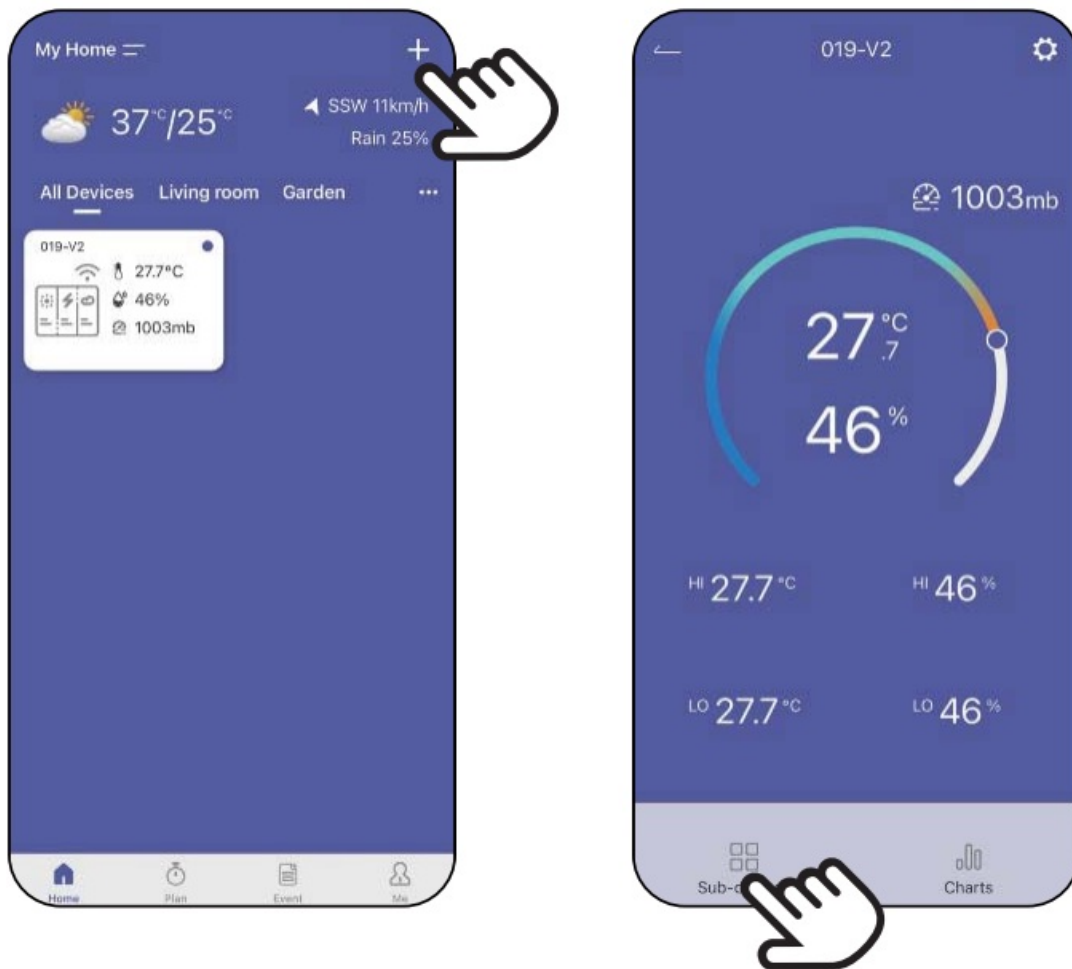
2. Find " Soil Moisture Sensor " or the icon to add the sensor.

3. Inset the batteries, and then the indicator will quickly blink in red.

Tips: Use the tool to unscrew the four screws of the back cover.

4. Keep the sensor and the hub close to each other to connect automatical- ly. (Besides that, you can also hold the button to reset and reconnect if you fail to connect for the first time.)

5. After successfully connecting, the real-time surface temperature, soil moisture, and light intensity will display on the device home page.

Sensor Installation

1. Insert the batteries and tighten the screw.
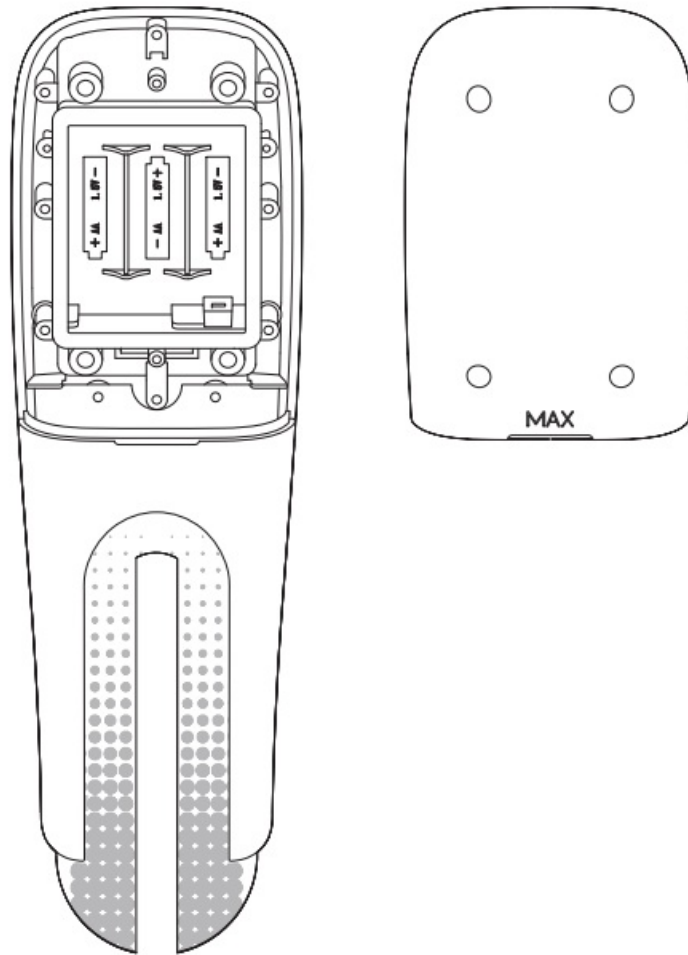
2. Dig an appropriate hole that can completely bury the soil probe.

Ground

Soil

20cm

3. Bury the sensor in the soil and ensure that the sensor is vertically downward.

Ground
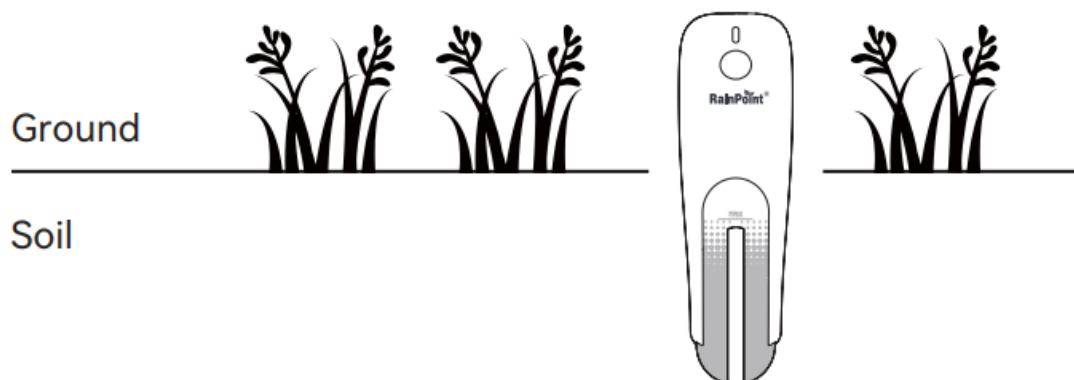
Soil

Tips: For accuracy, make sure that the part of the soil probe marked below "MAX" is buried in the soil.

APP Features And Functions

Device Home Page
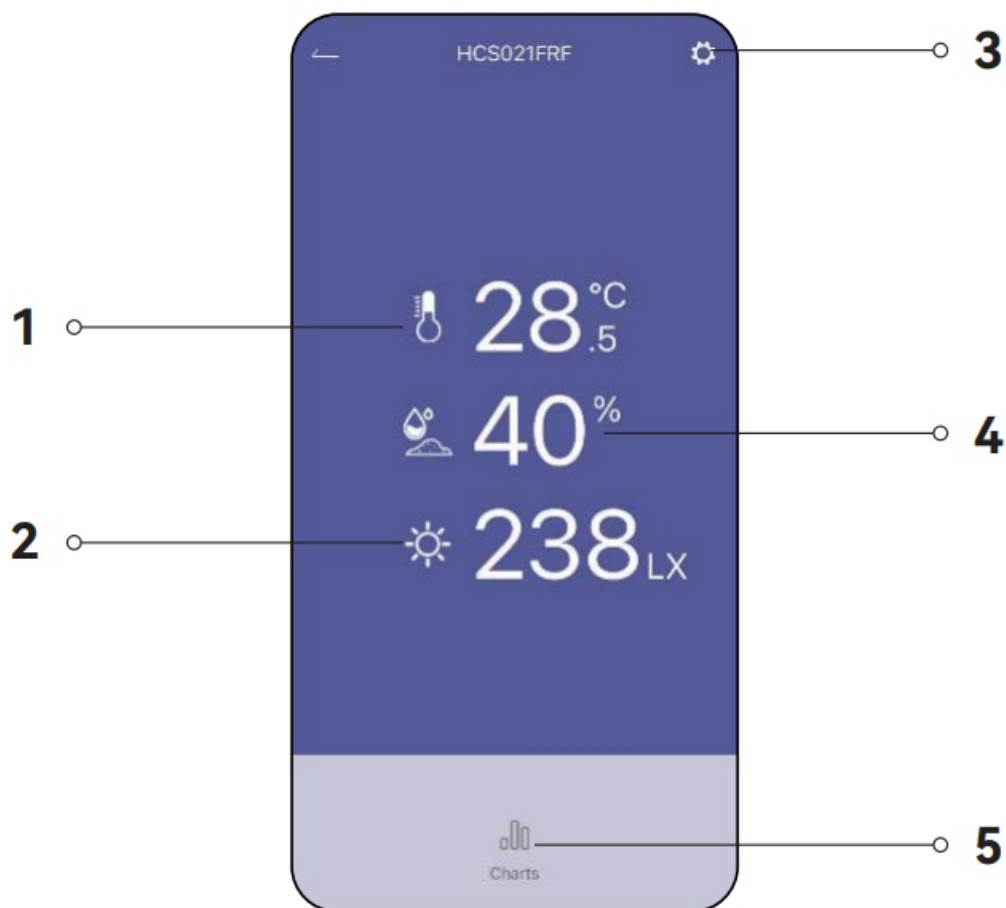
1. Surface Temperature
2. Light Intensity
3. Setting: Basic settings for the sensor.
4. Soil Moisture
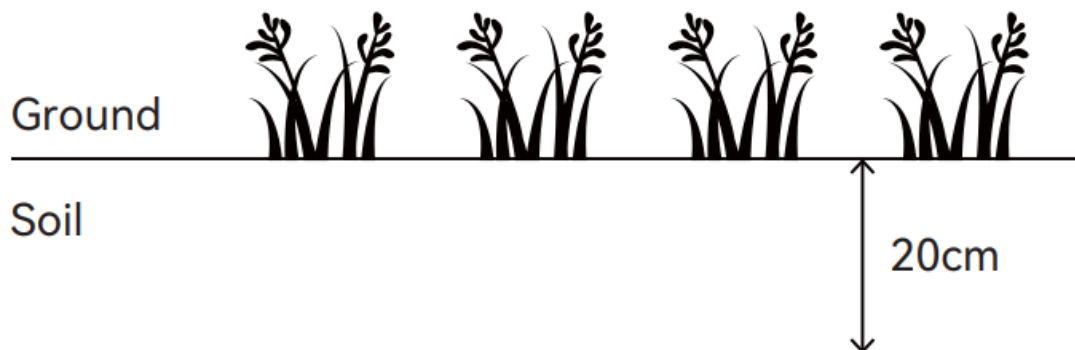5. Charts: Check the past 24 hours, and 10 days' historical temperature, moisture, and light intensity.

Basic Setting

Find the icon on the top right corner of the APP home page to "Settings" page. In the basic settings, you can check and manage the device information, such as name, interface and description.

Settings

Device Name	HCS021FRF#01 >
UI DIY	>
Device ID	1207966831
Device Model No.	HCS021FRF
Device Address	3
Soil Type	>
Sensor Correction	>
Battery Level	
RF RSSI	255
Firmware Version	52

Soil Types

Choose the soil type according to the soil of your home.

Soil Type

Default	○
Peat Soil	○
Black-earth Soil	◉
Sandy Loam	○
Laterite Soil	○
Mixed Soil	○

Tips:
1. Choosing different soil types will change the reported soil moisture value.
2. After saving the parameters, press and hold the button on the soil sensor to restart. If the reported soil moisture value does not change, please keep the soil sensor close to the hub and then restart.
3. Mixed soil contains less water than regular soil.

Charts Select

Charts to review your soil moisture, surface temperature, and light intensity in the past 24 hours, and 10 days in a line graph. Press the top right corner to switch moisture, temperature, and light intensity.

TroubleShooting

Problem	Possible Factors	Solution may help
Fail to connect with the hub	• Wi-Fi signal unstable. • Distance between sensor and hub is too far.	• Wait a little bit and try to connect one more time by holding the button. • Stay close to the hub while connecting.
Lose connection or get offline on the APP	• Low battery. • Hub disconnect-ed. • Wi-Fi signal unstable.	• Take the soil out of the soil and change brand new batteries. • Check the hub and reconnect it if disconnected. Then hold the button on the sensor to reconnect. • Wait a little bit and try to connect one more time by holding the button.
Data inaccurate or incorrect	Stones around the sensor.	Please make sure no stonesaround the sensor while buryit to avoid stones affectaccuracy.

If you need more help about the product or anything from us, please contact us by Email: support@rainpointonline.com

Precautions

Must tighten the screws before installing. Do not mix old and new batteries or different types of batteries. Under freezing temperatures, please keep the sensor away from snow to avoid potential freezing damage. Do not force the product into the soil, please follow the installation guide.

Warranty Policy

RAINPOINT provides a 1-year limited warranty on this product against manufacturing defects in materials and workmanship.

FCC STATEMENT

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.
2. This device must accept any interference received, including interference that may cause undesired operation.

FCC Warning
Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.

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 equipment generates, uses, and can radiate radio frequency energy, 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 off and on, the user is encouraged to try to correct the interference by one of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and the receiver.
- Connect the equipment into 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.

Note: The manufacturer is not responsible for any radio or TV interference caused by unauthorized modifications to this equipment. Such modifications could void the user's authority to operate the equipment.

Customer Support

If you find it difficult to set up and want to watch the setting tutorial video, please subscribe to our channel RainPoint on You Tube.

Or scan the QR code to visit the RainPoint channel on YouTube quickly.

If the app and the user manual don't have what you're looking for, and need some help about Rainpoint, please contact us by LOT NO.: XXXXX (on the back of the device)
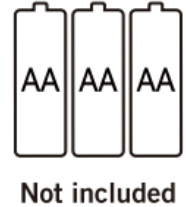
Need Help?
Scan the QR code for more help.

or **Email: support@rainpointonline.com**

Documents / Resources

RainPoint HCS021FRF-DLS Wi-Fi-Enabled Smart Soil and Moisture Sensor [pdf] User Manual
HCS021FRF-DLS Wi-Fi-Enabled Smart Soil and Moisture Sensor, HCS021FRF-DLS, Wi-Fi-Enabled Smart Soil and Moisture Sensor, Soil and Moisture Sensor, Moisture Sensor, Sensor

References

- **User Manual**