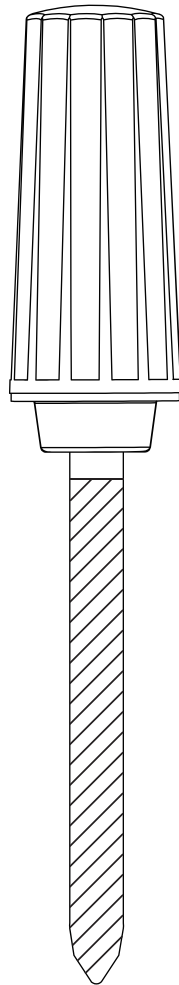


Smart Soil Moisture Sensor

User Manual



THIRD REALITY

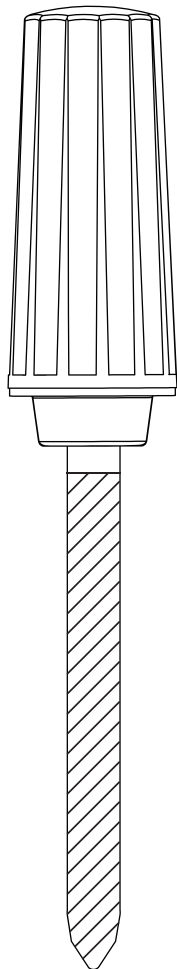
Contents

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Introduction

Smart Soil Moisture Sensor is able to detect the environmental conditions of the soil in real time and transmit the data to your smart system through wireless communication capabilities.

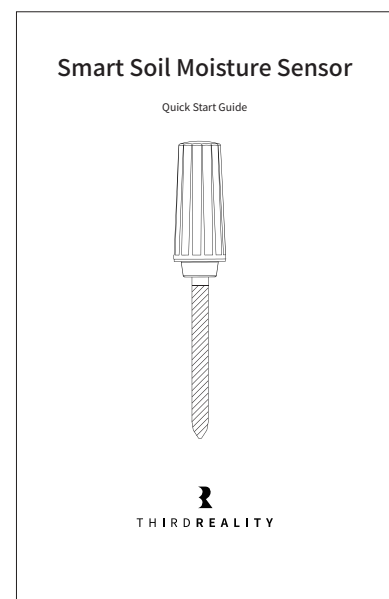
What's in the Box



Smart Soil Moisture Sensor



AA Battery

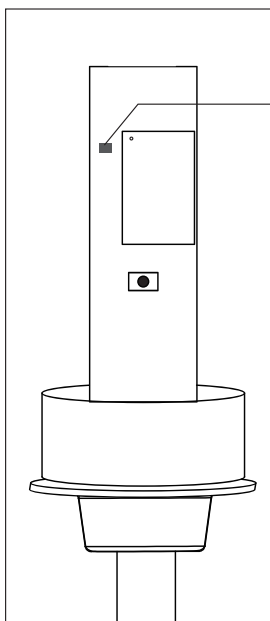


User Guide

Specifications

Name	Smart Soil Moisture Sensor
Model	3RSM0147Z
Operating Voltage	DC 1.5V
Battery Type	1 x AA Alkaline Battery (included)
Wireless Connectivity	Zigbee 3.0
Working condition	-10°C~50°C(14°F~122°F) RH 0~100%
Temperature Range	-10°C~50°C(14°F~122°F)
Temperature Accuracy	±1.5°C
Humidity Range	0~100%
Humidity Accuracy	±3%

LED Status

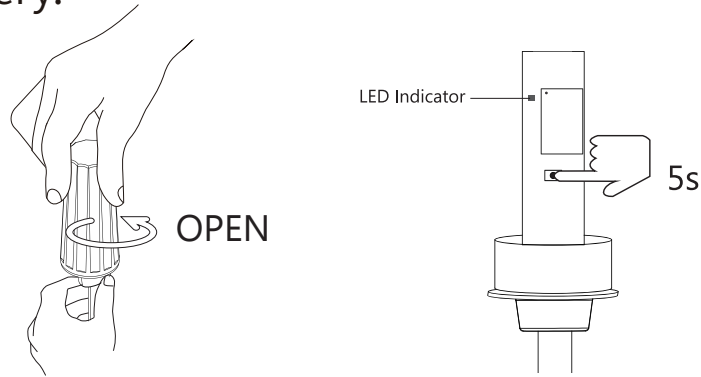


LED Indicator

LED Status	Description
Blue blinking	Pairing mode
Red slow blinking	Offline
Red double blinking	Low battery

Setup

1. Open the battery cover. Remove the battery insulation tab and install the battery.



2. Press and hold the reset button for 5 seconds until the LED light turns red, release the reset button and the LED starts blue blinking, indicating it enters Zigbee pairing mode.
3. Follow the instructions of your smart home hub /smart speaker with built-in Zigbee hub to pair the sensor in the corresponding app.

How to Use

Set up your smart soil moisture sensor.

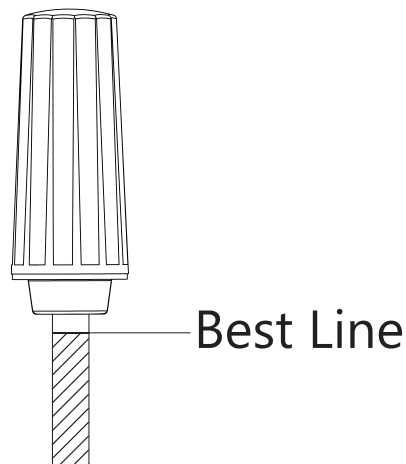
When inserting the sensor into the soil to be measured, align the sensor's marking line with the soil surface to ensure measurement accuracy. Create an automation or water the plant manually based on your observation of specific plant and soil situation, to start irrigation of certain period of time when soil moisture falls below certain value.

Note: Check multiple moisture values during certain period of time before and after irrigation, to ensure accurate soil moisture data when creating irrigation automation.

Installation

Recomand: Use a suitable tool to dig a small hole in the soil and then insert the sensor.

- * When installing the sensor, make sure the marked best line is flush with the soil surface.



- * Friction can damage the sensor and affect its accuracy. It is not recommended to insert the sensor directly into hard soil, which may damage the sensor.
- * Designed to measure soil moisture ONLY.

Pairing with Third Reality

App: Third Reality App


Device: ThirdReality Smart Hub




Pairing steps:

1. Register and sign in your ThirdReality account, set up your ThirdReality smart hub, make sure both the Third Reality app and the smart hub's firmware are in the latest version.
2. Open the battery cover and install the batteries, press and hold the reset button for 5 seconds and release the hold; The LED light turns blue blinking, indicating it enters pairing mode.
3. Tap "+" in the up right in the Third Reality App, follow the on-screen instructions to add device.

Device 🔍 +


 **Hub 1**
0 device connected +


Device 🔍 +

 **Soil Moist...**
53%; 27.43°C

+ **Hub 1**
1 device

< Smart Soil Moisture Sensor

 53%

 27.43°C
81.4 °F

Name	Soil Moisture Sensor 1 >
Network	Connected
Type	Smart Soil Moisture Sensor
Mac	A4C138260AEC7BE7
Battery	High
Version	v1.00.24
Connected to	Hub 1

Pairing with 3R-Installer App

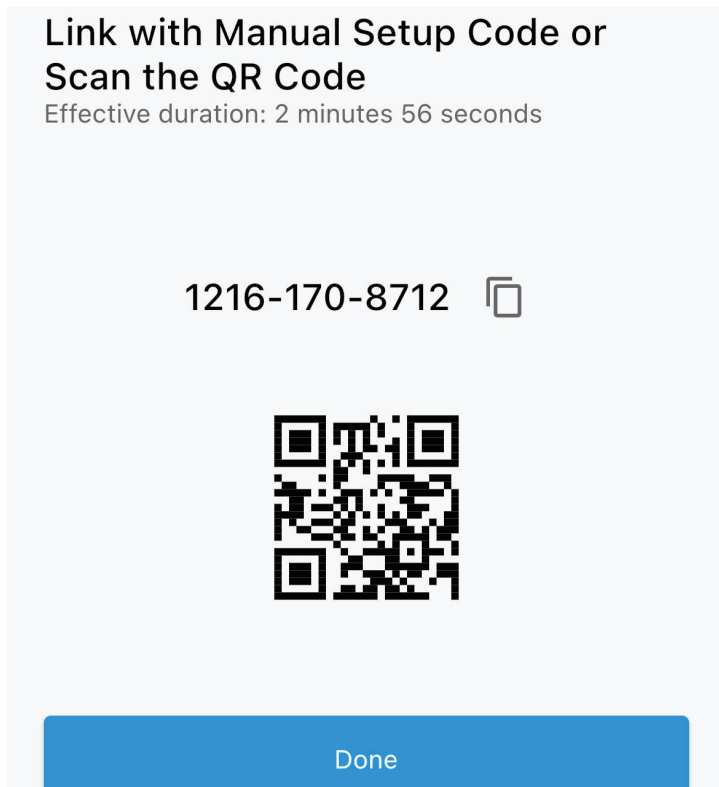
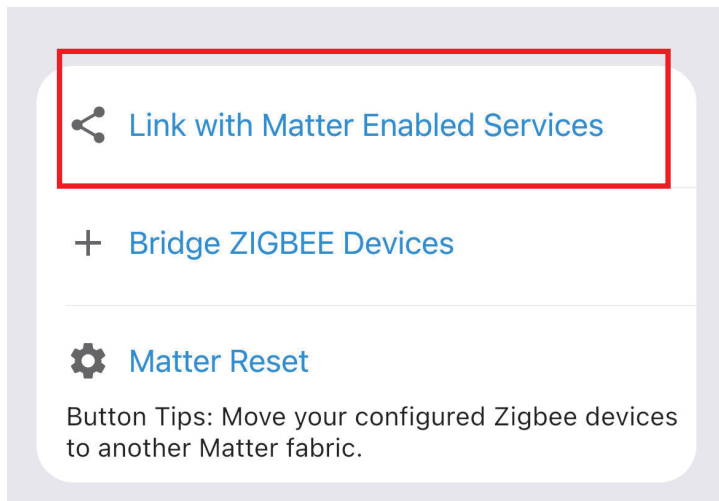
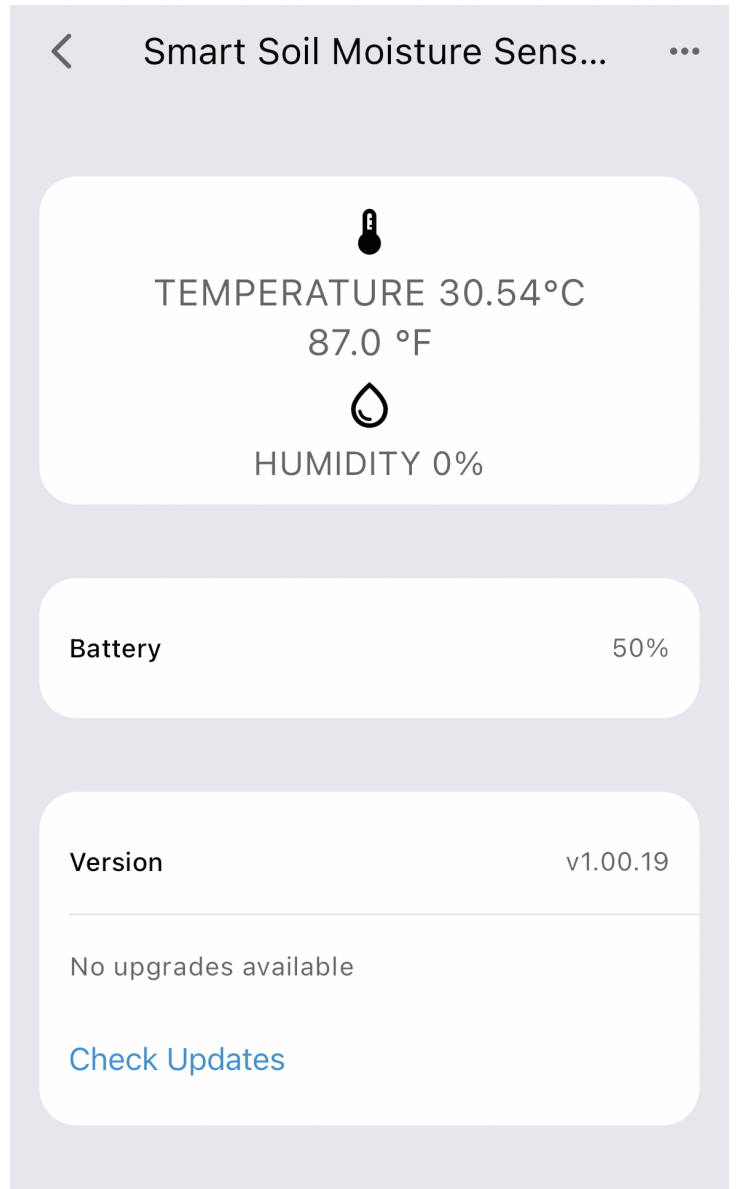
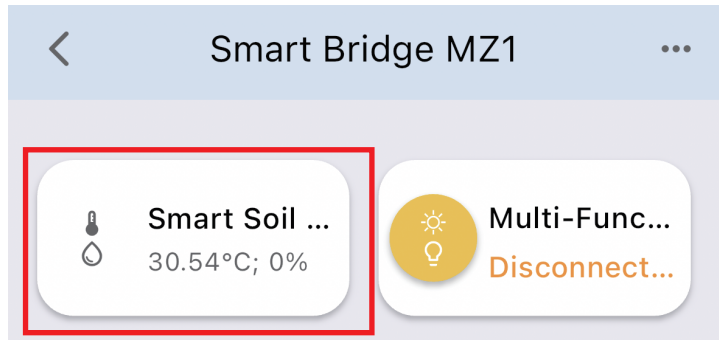
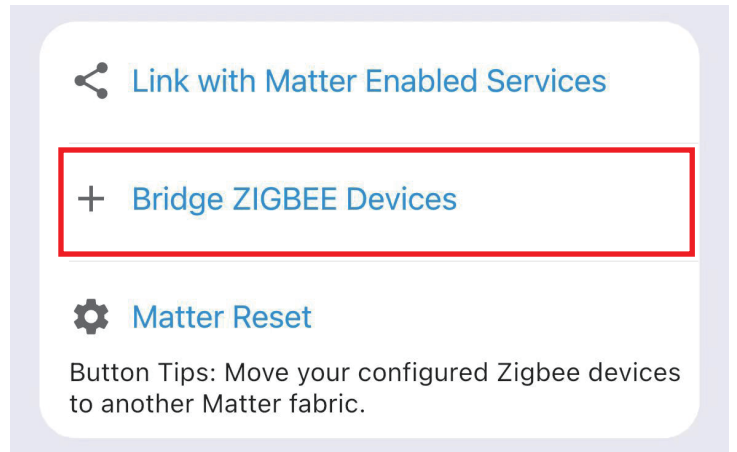
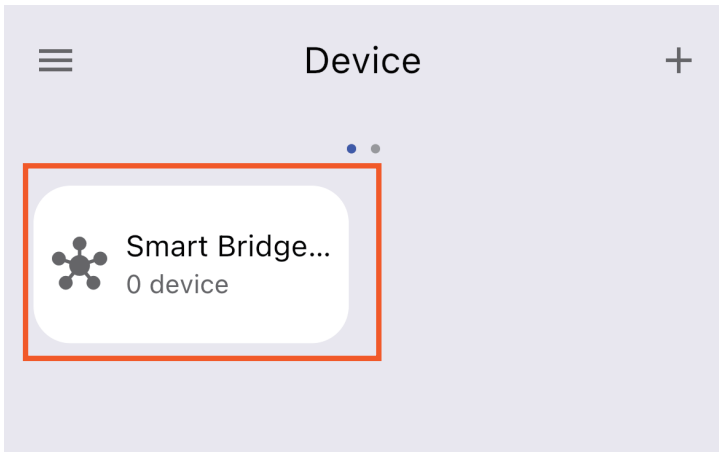
Device: Smart Bridge MZ1

App: 3R-Installer App



Pairing steps:

1. Open 3R-Installer App, Ensure your bridge is already set up within your smart home system.
2. Long press the internal reset button for 5 seconds until the red light is on, indicating that the device is in pairing mode.
3. The sensor will pair with the bridge, and a new device will appear in your smart home app.
4. After the pairing is successful, tap "Complete", then back to main interface.
5. Tap "Smart Soil Moisture Sensor" icon on device page, you can see the details. Follow the instructions to control Smart Soil Moisture Sensor.



Pairing with Amazon Alexa

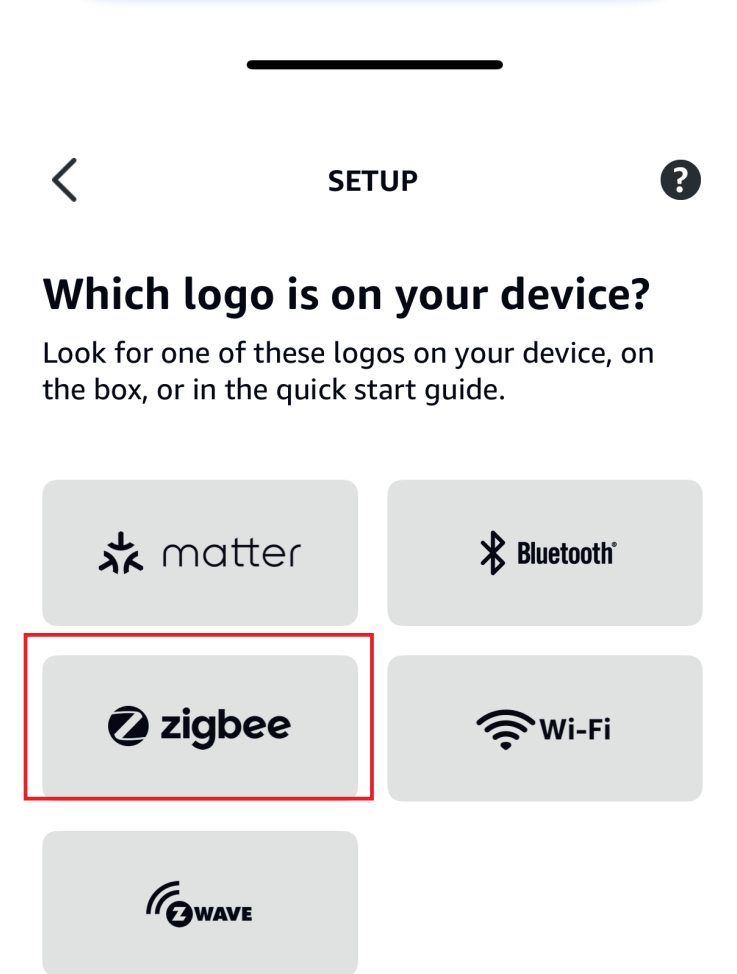
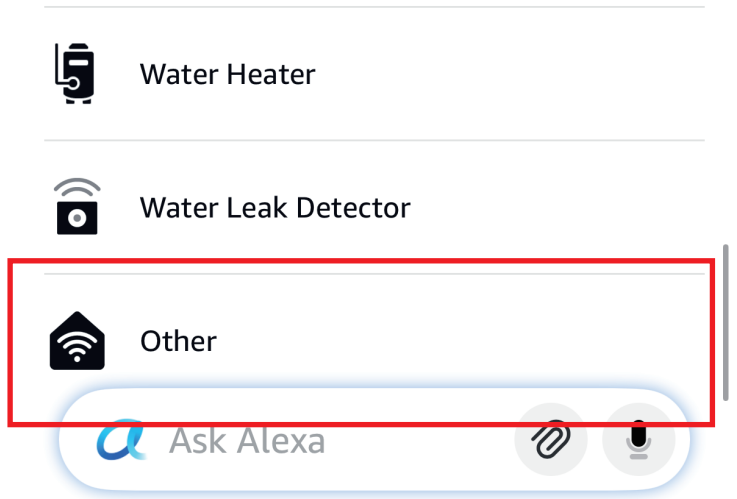
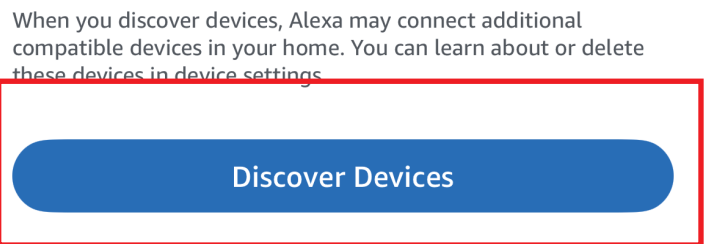
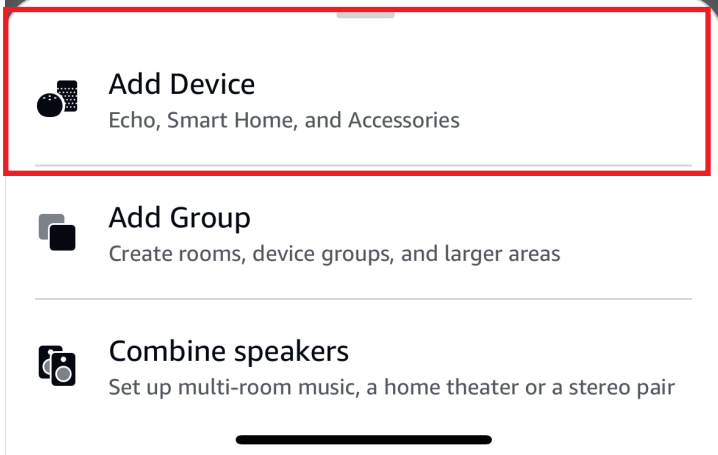
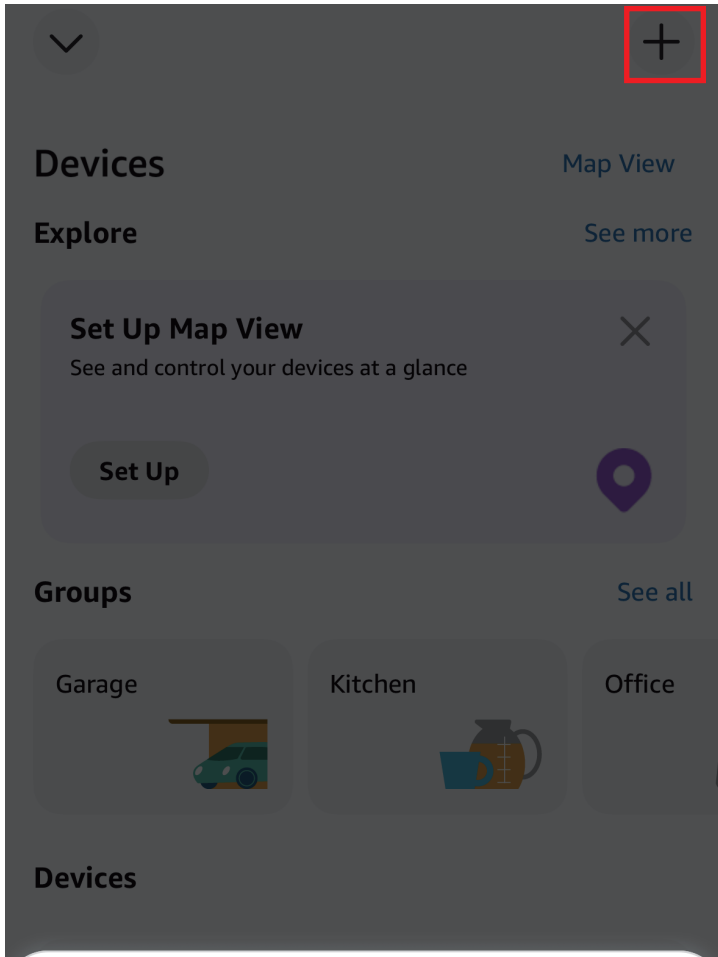
Compatible Device: Echo V4, Echo Plus V1 & V2,
Echo Studio, Echo Show 10 Gen2 & Gen3

App: Amazon Alexa App



Pairing steps:

1. Make sure the app and the firmware of your Echo devices has been updated to the latest version.
2. Open the battery cover and install the batteries, press and hold the reset button for 5 seconds and release the hold; The LED light turns blue blinking, indicating it enters pairing mode.
3. Start adding devices by saying "Alexa, discover my devices", or open Alexa App, go to device page, tap "+" on top right, choose "Add Device", then click "other" by sliding down, tap "DISCOVER DEVICES", the sensor will be paired to Alexa within seconds.
4. After the pairing is successful, you can control the sensor by voice and App.





1 Other temperature sensor found and connected

Your temperature sensor has been added to your Alexa account. Next, we'll help you finish setting up your device.

Next

Devices



Device Type ▾

Sort By ▾



First device

• Recently added



First device added to Living room

Now you can refer to this device using room name and device type instead of remembering the device name.

Continue



First device



Current temperature

2°

Humidity

2.16%

Create a Routine



Pairing with SmartThings

App: SmartThings App

Devices: SmartThings Hub 2nd Gen(2015) and 3rd Gen(2018), Aeotec Smart Home Hub.



Pairing steps:

1. Before pairing, check for updates to make sure the SmartThings Hub firmware is up to date.
2. Add SmartThings drivers for Third Reality Smart Soil Moisture Sensor
 - Open this link in your PC browser. Log in your SmartThings Account.
<https://bestow-regional.api.smarththings.com/invite/adMKr50EXzj9>
 - Click "Enroll" -- "Available Drivers" -- "Install" to install the device driver.

SmartThings

Channel Information

- Name
Third Reality
- Description
SmartThings driver for Third Reality devices
- [Terms of Service](#)

My Hubs

Aeotec Hub

My home

Enroll

SmartThings

Channel Information

- Name
Third Reality
- Description
SmartThings driver for Third Reality devices
- [Terms of Service](#)

My Hubs

Aeotec Hub

My home

Unenroll

Available Drivers

SmartThings

Third Reality

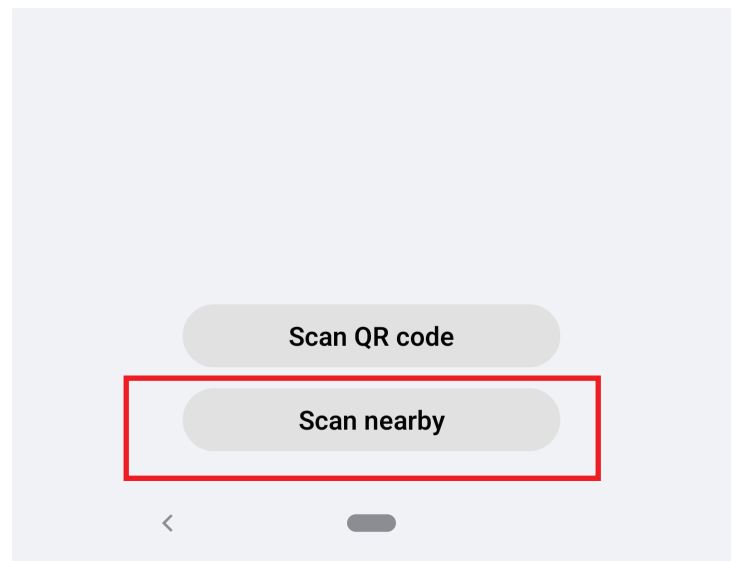
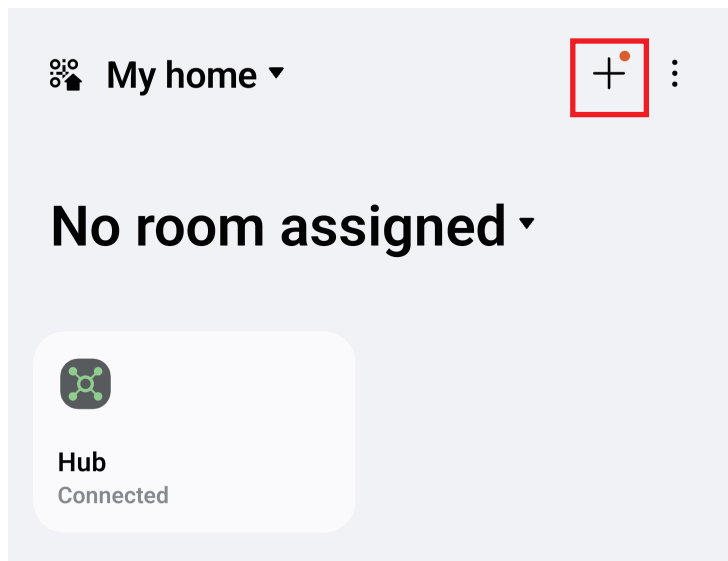
Aeotec Hub

My home

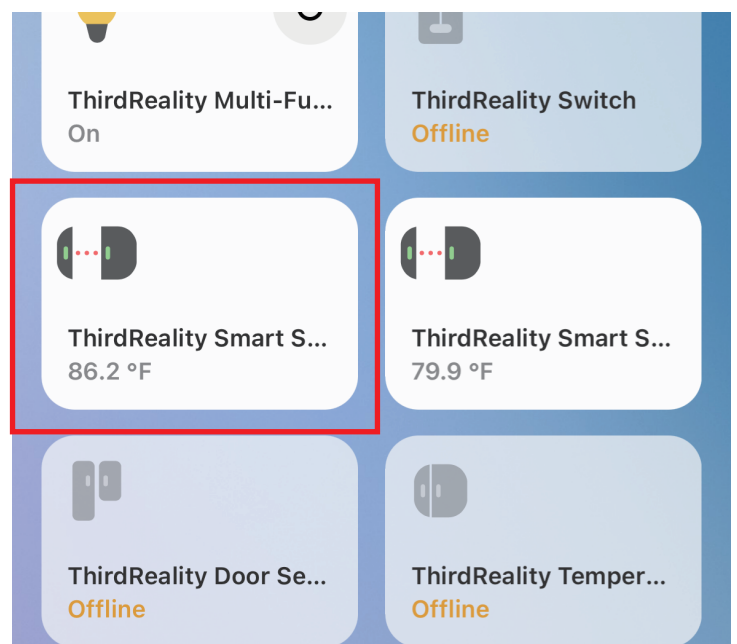
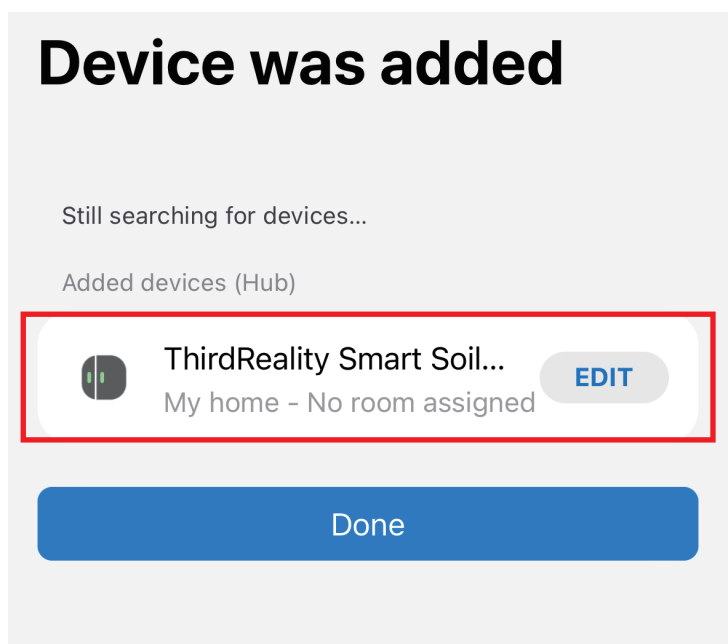
- Name
ThirdReality Humidity Sensor
- Description
ThirdReality Temperature and Humidity sensor drivers
- Permissions
 - zigbee: Enable full access to Zigbee actions

Install

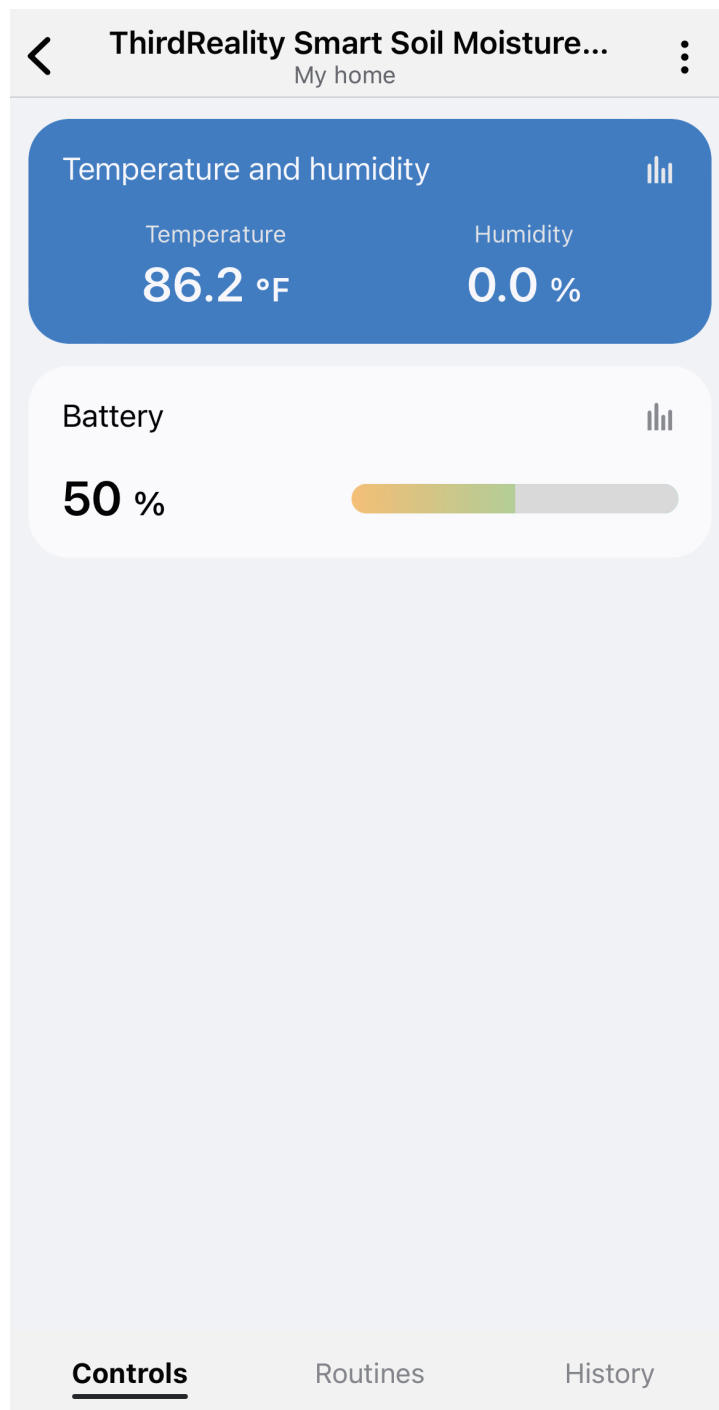
3. Open the battery cover and install the batteries, press and hold the reset button for 5 seconds and release the hold; The LED light turns blue blinking, indicating it enters pairing mode.
4. Open your SmartThings App, tap “+” on the up right corner to ”Add device” and then tap “Scan nearby”.



5. The sensor will be added to your SmartThings hub in a few seconds.



6. Create routines to control connected devices.



Pairing with Hubitat

Website: <http://find.hubitat.com/>



Pairing steps:

1. Open the battery cover and install the batteries, press and hold the reset button for 5 seconds and release the hold; The LED light turns blue blinking, indicating it enters pairing mode.
2. Visit your Hubitat Elevation hub device page from your web browser, select the Devices menu item from the sidebar, then select Discover Devices in the upper right.
3. Click Start Zigbee Pairing button after you select a Zigbee device type, the Start Zigbee Pairing button will put the hub in Zigbee pairing mode for 60 seconds.
4. Pairing is completed.
5. Set device type to generic Zigbee Temperature/Humidity sensor, Save Device.
6. Tap Apps, and Create New Basic Rules, select Humidity Sensor - smart soil moisture sensor, turn on your plant watering system when humidity changes.

Hubitat **Devices** hubitat-c7

Compatible device list [↗](#) Clear + Add device

Disable	Label (Name)	Type	Room	Source	DNI	Status	Last Activity	TI
<input type="checkbox"/>	1 <small>(Advanced Zigbee CT Bulb)</small>	Advanced Zigbee CT Bulb		System	2EA3 840ECFD296B00000		8/27/2024 10:40:35	
<input type="checkbox"/>	729ms <small>(Generic Zigbee Motion Sensor (no temp))</small>	Generic Zigbee Motion Sensor (no temp)		System	8439 282C028FFFE6379		7/29/2024 15:44:55	60
<input type="checkbox"/>	Advanced Zigbee CT Bulb	Advanced Zigbee CT Bulb		System	1AED 840ECFD32AAC0000		8/27/2024 10:40:20	
<input type="checkbox"/>	del <small>(Third Reality Smart Button)</small>	Third Reality Smart Button		System	5A05 282C028FFFE38F45		8/06/2024 13:42:54	100
<input type="checkbox"/>	Generic Zigbee Switch	Generic Zigbee Switch		System	4F31 282C028FFFE900CD		8/27/2024 10:13:02	

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Hubitat **Add device** hubitat-c7

Find by device type
Bulbs, dimmers, locks, outlets, switches...

Find by brand
Aeotec, Bosch, Centralite, Dome, Ecolink...

Add device manually:

Zigbee Z-Wave Matter Iris V1 Zigbee

Virtual

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Hubitat **Add device** hubitat-c7

Home - Zigbee Cancel

Make sure that the device has been **factory reset**. Simply removing it from a previous mesh may not allow it to be joined. A factory reset will ensure it is discoverable.

Pairing, 90s remaining

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Hubitat Smart Soil Moisture Sensor hubitat-c7

Status attribute for Devices/Rooms: None

Save Preferences

Device Information

Device Name * Device Network Id * 952B

Device

Device Label: Smart Soil Moisture Sensor

Type * Generic Zigbee Temperature/Humidity Sensor

Zigbee Id: A4C138EEDB829E73

Room: No room assigned

Event history size, per event type (1-2000): 11

State history size, per attribute (1-2000): 30

Too many events alert threshold, per hour (100-2000): 300

Hub Mesh enabled:

Save Device

Advanced

Device Details

Hubitat When Smart Soil Moisture Sensor humidity is below 40%, turn on Plant Watering System hubitat-c7

Basic Rule

When Smart Soil Moisture Sensor humidity is below 40% ...
Turn on Plant Watering System

When a ... Humidity Sensor Choose Humidity Sensors Smart Soil Moisture Sensor Senses that Humidity has fallen below ...

Humidity:

Do this action: Turn on Select switches to turn on * Plant Watering System Delete

Add Another Action Add Wait Until ...

Add optional restrictions that limit when this rule runs
Click to set

Change the Basic Rule Name? Enable Logging Run Actions Show Help Text

Notes

Version 1.0.0 (4/3/2023)

Pairing with Home Assistant

Device: Zigbee dongle



Zigbee Home Automation

1. Open the battery cover and install the batteries, press and hold the reset button for 5 seconds and release the hold; The LED light turns blue blinking, indicating it enters pairing mode.
2. In Zigbee Home Automation, go to “Configuration” page, click “integration”.
3. Then click the “Devices” on the Zigbee item, the click “Add Devices”.
4. Pairing completed.
5. Back to “Devices” page to find the sensor added.
6. Click to enter in the control interface to set the sensor.
7. Click “+” belongs to Automation and add trigger and actions.

Home Assistant Settings

- Overview
- Energy
- Map
- Logbook
- History
- File editor
- Media
- Terminal
- Zigbee2MQTT
- Zigbee2MQTT Edge

Developer Tools

- Settings
- Notifications
- chenwei

1 update

- Home Assistant Operating System Update
- Home Assistant Cloud
- Devices & Services**
- Automations & Scenes
- Areas & Zones
- Add-ons
- Dashboards
- Voice assistants
- Tags
- People
- System
- About

Home Assistant Integrations

Discovered

- ibeacon
- UPnP

Configured

Apple TV	Bluetooth	Google Cast	Google Translate text-to-speech	Home Assistant Supervisor
1 DEVICE	1 DEVICE	5 DEVICES	1 ENTITY	10 SERVICES
Matter (BETA)	Mobile App	MQTT	Radio Browser	Raspberry Pi Power Supply Checker
3 DEVICES	1 DEVICE	2 DEVICES	1 ENTRY	1 ENTITY
Shopping List	Sun	Thread	Xiaomi BLE	Zigbee Home Automation
1 ENTITY	1 SERVICE	1 ENTRY	1 DEVICE	9 DEVICES

+ ADD INTEGRATION

Home Assistant

Integrations **Devices** Entities Helpers

Filters Search 10 devices Group by Sort by Device

Device	Manufacturer	Model	Area	Integration	Battery
._TZE200_jocansqn TS0601	._TZE200_jocansqn	TS0601	-	Zigbee Home Automation	-
Silicon Labs EZSP	Silicon Labs	EZSP	-	Zigbee Home Automation	-
Third Reality 3RTHS0224Z	Third Reality	3RTHS0224Z	-	Zigbee Home Automation	-
Third Reality 3RTHS0224Z	Third Reality	3RTHS0224Z	-	Zigbee Home Automation	-
Third Reality, Inc 3RDS17BZ	Third Reality, Inc	3RDS17BZ	-	Zigbee Home Automation	-
Third Reality, Inc 3RDS17BZ	Third Reality, Inc	3RDS17BZ	-	Zigbee Home Automation	-
Third Reality, Inc 3RDS17BZ	Third Reality, Inc	3RDS17BZ	-	Zigbee Home Automation	-
Third Reality, Inc 3RSM0147Z	Third Reality, Inc	3RSM0147Z	-	Zigbee Home Automation	50%
Third Reality, Inc 3RTHS24BZ	Third Reality, Inc	3RTHS24BZ	Living Room	Zigbee Home Automation	100%
Third Reality, Inc 3RVS01031Z	Third Reality, Inc	3RVS01031Z	-	Zigbee Home Automation	98%

Developer tools

Settings

Notifications

ham

+ ADD DEVICE

Home Assistant

← Third Reality, Inc 3RSM0147Z

50% zigbee

Device info

3RSM0147Z by Third Reality, Inc

Zigbee info

- Zigbee Home Automation

RECONFIGURE

Sensors

- Humidity 0.0%
- Temperature 30.7 °C

ADD TO DASHBOARD

Configuration

- Firmware Up-to-date

ADD TO DASHBOARD

Diagnostic

- Battery 50%

+2 entities not shown

ADD TO DASHBOARD

Logbook

August 27, 2024

- Third Reality, Inc 3RSM0147Z Firmware turned off 9:13:02 AM - 12 minutes ago
- Third Reality, Inc 3RSM0147Z Firmware became unavailable 9:12:52 AM - 12 minutes ago
- Third Reality, Inc 3RSM0147Z Zha Event was fired 9:12:52 AM - 12 minutes ago
- Third Reality, Inc 3RSM0147Z Firmware turned off 9:12:28 AM - 13 minutes ago
- Third Reality, Inc 3RSM0147Z Firmware became unavailable

Automations

No automations have been added using this device yet. You can add one by clicking the + button above.

Scenes

No scenes have been added using this device yet. You can add one by clicking the + button above.

Scripts

No scripts have been added using this device yet. You can add one by clicking the + button above.

Developer tools

Settings

Notifications

ham

Zigbee2MQTT

1. Open the battery cover and install the batteries, press and hold the reset button for 5 seconds and release the hold; The LED light turns blue blinking, indicating it enters pairing mode.
2. Permit join to start Zigbee pairing in Zigbee2MQTT.
3. Pairing completed, the sensor will be displayed in the device list
Go to Settings page, create automation.

The screenshot shows the Zigbee2MQTT web interface. At the top, there is a navigation bar with 'Permit join (All)' and a blue button highlighted in a red box. Below this is a table of devices. The table has columns for ID, Name, MAC address, Manufacturer, Model, Battery level, and Action icons. The devices listed are:

ID	Name	MAC Address	Manufacturer	Model	Battery	Action
3	2-5F11	0x282c02bffe75f11 (0x7316)	Third Reality	3RMS16BZ	74	[Edit] [Info] [Delete]
4	2-551E	0x282c02bffe8551e (0xA633)	Third Reality	3RMS16BZ	255	[Edit] [Info] [Delete]
5	2-1170	0x282c02bffe1170 (0xC13B)	Third Reality	3RSB015BZ	255	[Edit] [Info] [Delete]
6	door-V29	0xd55ce6ffb022c28 (0x9C6A)	Third Reality	3RDTS01056Z	255	[Edit] [Info] [Delete]
7	door-V28	0xd75ce6ffb022c28 (0x1D6E)	Third Reality	3RDTS01056Z	255	[Edit] [Info] [Delete]
8	plug3 0x1a2fedffb022c28	0x1a2fedffb022c28 (0xC93E)	Third Reality	3RSPE01044BZ	255	[Edit] [Info] [Delete]
9	0x0000c5add3cf0eb4	0x0000c5add3cf0eb4 (0x1DE3)	Third Reality	3RSNL02043Z	255	[Edit] [Info] [Delete]
10	0xef71e9ffb022c28	0xef71e9ffb022c28 (0xF3EB)	Third Reality	3RSS009Z	255	[Edit] [Info] [Delete]
11	0x8d8eecffb022c28	0x8d8eecffb022c28 (0xE843)	Third Reality	3RV501031Z	255	[Edit] [Info] [Delete]
12	0xf895e3ffb022c28	0xf895e3ffb022c28 (0xF67B)	Third Reality	3RTHS24BZ	255	[Edit] [Info] [Delete]
13	0x7081e3ffb022c28	0x7081e3ffb022c28 (0x60C6)	Third Reality	3RSB22BZ	255	[Edit] [Info] [Delete]
14	0x1795c7bcd38c1a4	0x1795c7bcd38c1a4 (0xC526)	Unsupported	3RSM0147Z	255	[Edit] [Info] [Delete]
15	0x359ae9ffb022c28	0x359ae9ffb022c28 (0x9FCF)	Third Reality	3RSS009Z	255	[Edit] [Info] [Delete]

Home Assistant

Z2M@192.168.3.87 Devices Dashboard Map Groups OTA Touchlink Logs Extensions Disable join (All) 03:37

4		2-551E	0x282c02bffe8551e <small>(0xA3E3)</small>	Third Reality	3RMS16BZ	255		
5		2-1170	0x282c02bffa1170 <small>(0xC13B)</small>	Third Reality	3RSB015BZ	255		
6		door-V29	0xd55ce6ffb022c28 <small>(0x6C6A)</small>	Third Reality	3RDTS01056Z	255		
7		door-V28	0xd75ce6ffb022c28 <small>(0x1D6E)</small>	Third Reality	3RDTS01056Z	255		
8		plug3 0x1a2fedffb022c28	0x1a2fedffb022c28 <small>(0xC93F)</small>	Third Reality	3RSPE01044BZ	255		
9		0x000c5add3cf0eb4	0x000c5add3cf0eb4 <small>(0x1DE3)</small>	Third Reality	3RSNL02043Z	255		
10		0xef71e9ffb022c28	0xef71e9ffb022c28 <small>(0xF3FB)</small>	Third Reality	3RSS009Z	255		
11		0x8d8eecffb022c28	0x8d8eecffb022c28 <small>(0xE843)</small>	Third Reality	3RVS01031Z	255		
12		0xf895e3ffb022c28	0xf895e3ffb022c28 <small>(0xF67B)</small>	Third Reality	3RTHS24BZ	255		
13		0x7081e3ffb022c28	0x7081e3ffb022c28 <small>(0x60C6)</small>	Third Reality	3RSB22BZ	255		
14		0x1795c7bcd38c1a4	0x1795c7bcd38c1a4 <small>(0x556F)</small>	Unsupported	3RSM0147Z	255		
15		0x359ae9ffb022c28	0x359ae9ffb022c28 <small>(0x9FCF)</small>	Third Reality	3RSS009Z	255	?	
16		0x739e82dbec38c1a4	0x739e82dbec38c1a4 <small>(0x5E7B)</small>	Unsupported	3RSM0147Z	N/A		

Developer tools

Settings

Notifications

admin

Home Assistant

Z2M@192.168.3.87 Devices Dashboard Map Groups OTA Touchlink Logs Extensions Disable join (All) 03:27

0x739e82dbec38c1a4

About Exposes Bind Reporting Settings Settings (specific) State Clusters Scene Dev console

Battery 50 %
Remaining battery in %

Temperature 30.72 °C
Measured temperature value

Humidity 0 %
Measured relative humidity

Linkquality 140
Link quality (signal strength)

Developer tools

Settings

Notifications

admin

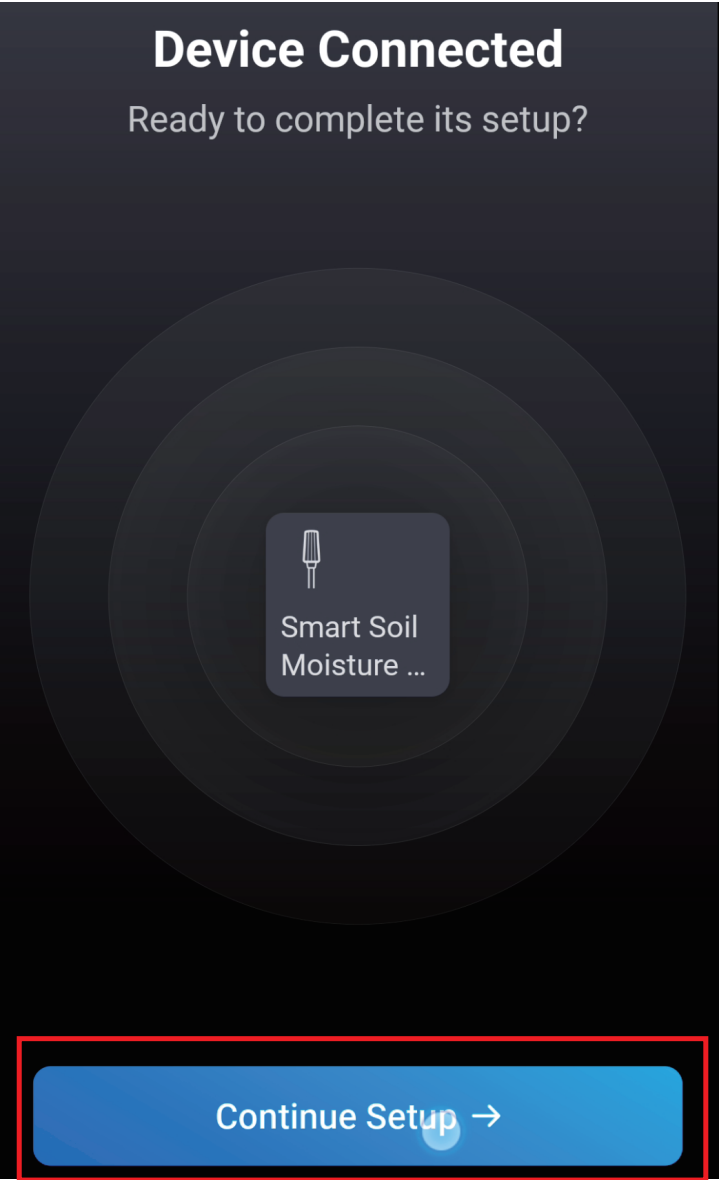
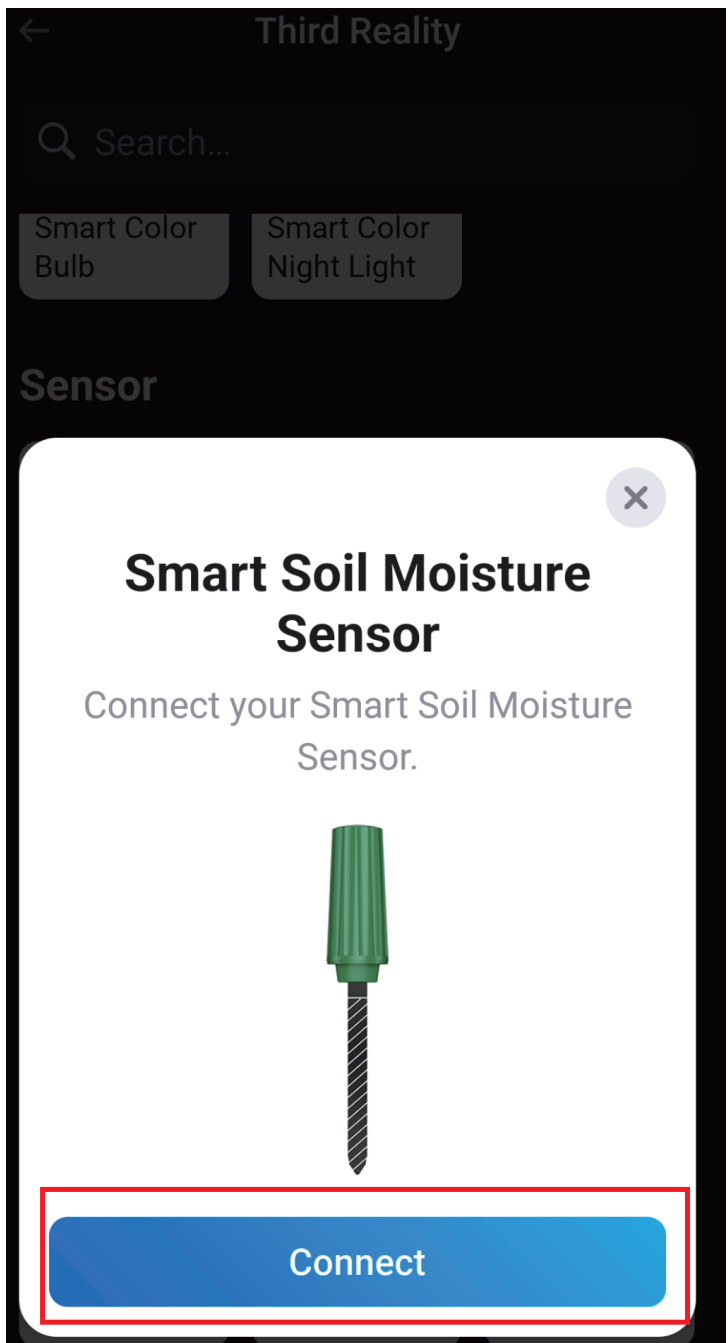
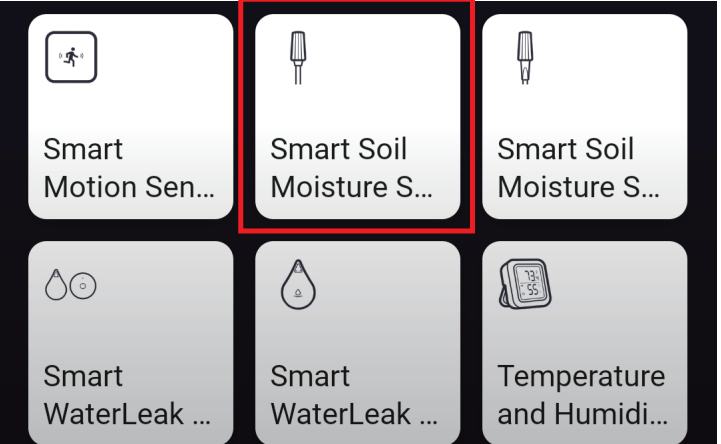
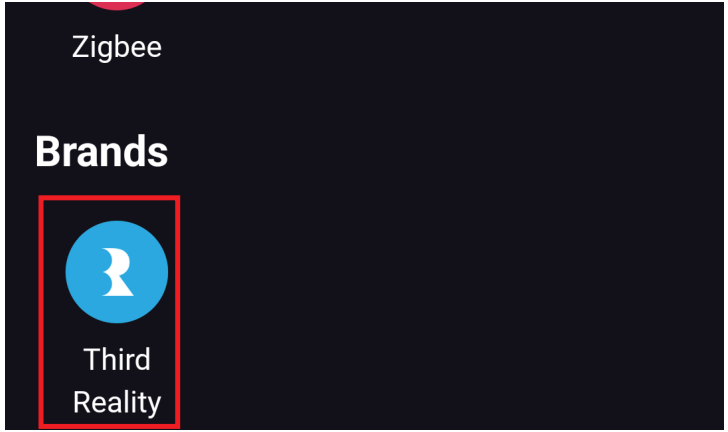
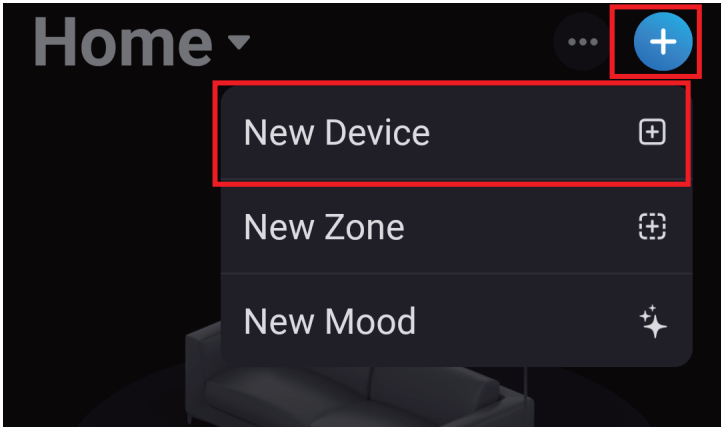
Pairing with Homey

App: Homey

Devices: Homey Pro, Homey Bridge




1. Install the Third Reality App in your Homey App.
2. Long press the internal reset button for 5 seconds until the red light is on, indicating that the device is in pairing mode.
3. Tap "+" in the Devices, tap → "New Device" → "Third Reality" → "Smart Soil Moisture Sensor" → "Connect" and follow the instruction to add device.
4. After the pairing is successful, you can see details and create routines on the "Device" page.




Make It Your Own
Personalize your device.

Smart Soil Moisture S...

Name Smart Soil Moisture Sensor ✎

Icon  >

Zone  Office Buildings >

Status Indicator °C >

Finish



Devices


Smart Soil Moisture S... 23.9 °C


Smart Soil Moisture S...

Smart WaterLeak ...

Smart WaterLeak ...

Smart Soil Moisture Sensor  

 22.5 °C
Temperature

 28.5 %
Moisture

FCC Regulatory Conformance

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.

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the 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 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 off 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 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 important announcement.

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.

RF Exposure

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment.

This equipment should be installed and operated with minimum distance 20cm between the radiator and your body.

This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

Limited Warranty

For limited warranty, please visit

<https://thirdreality.com/faq-help-center/>

For customer support, please contact us at info@3reality.com or visit

www.thirdreality.com

For questions on other platforms, visit the corresponding platform's application/support platform.