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Smart Soil Moisture Sensor
User Manual

THIRDREALITY
3RSM0147Z Smart Soil
Moisture Sensor

THIRDREALITY

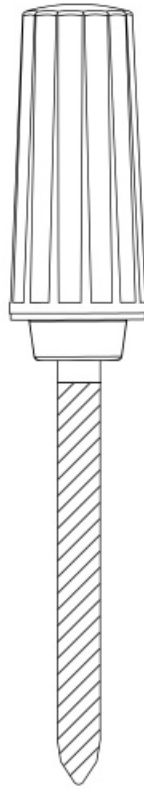# THIRDREALITY 3RSM0147Z Smart Soil Moisture Sensor User Manual

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THIRDREALITY 3RSM0147Z Smart Soil Moisture Sensor

Specifications

- Name: Smart Soil Moisture Sensor
- Model: 20240902
- Operating Voltage: AA Battery
- Battery Type: AA Battery
- Wireless Connectivity: Zigbee

Product Information

The Smart Soil Moisture Sensor is designed to detect real-time environmental conditions of the soil and transmit data wirelessly to your smart system.

Product Usage Instructions

Setup

1. Open the battery cover and install the AA battery.
2. Press and hold the reset button for 5 seconds until the LED light turns red. Release the reset button, and the LED will start blinking blue, indicating it's in Zigbee pairing mode.
3. Follow the instructions of your smart home hub or smart speaker with a built-in Zigbee radio to pair the sensor in the corresponding app.

FAQ:
Q: How do I pair the Smart Soil Moisture Sensor with different devices?
A: Follow the specific pairing steps outlined in the manual for pairing with ThirdReality, 3R-Installer, SmartThings, Hubitat, and Home Assistant.

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

AA Battery

Smart Soil Moisture Sensor

User Guide
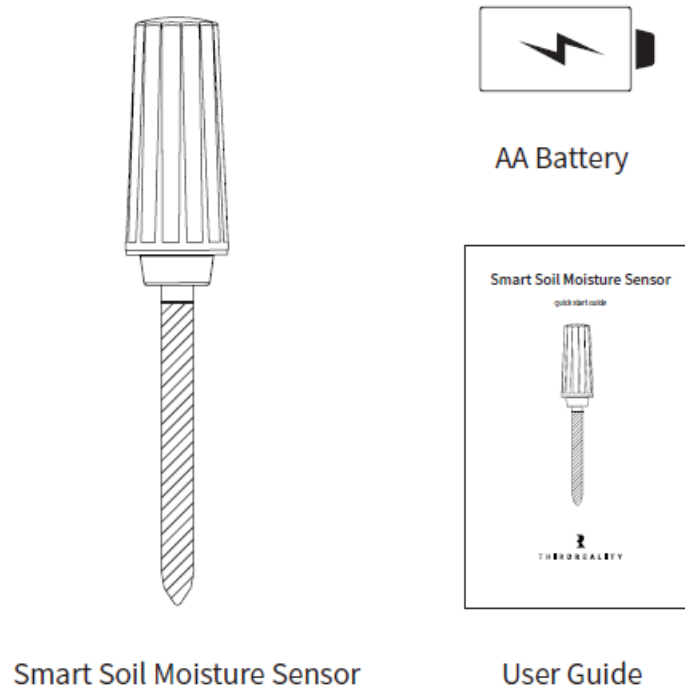
Specifications

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

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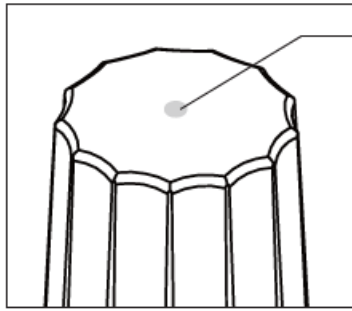
LED Status	Description
Blue blinking	Pairing mode
Red slow blinking	Offline
Red double blinking	Low battery

Setup

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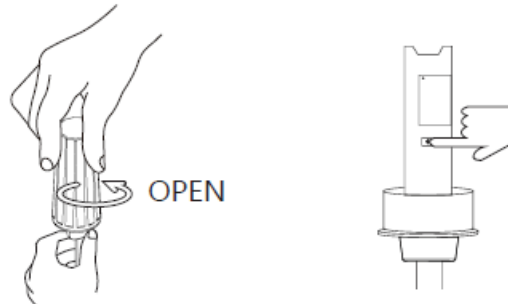

2. Press and hold the reset button for 5 seconds until the LED light turns red, release the reset button and the LED starts blue blinking, indicating it enters Zigbee pairing mode.
3. Follow the instructions of your smart home hub /smart speaker with a built-in Zigbee radio to pair the sensor in the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

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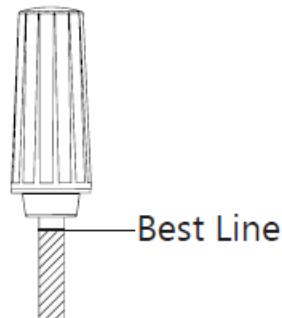
- Friction can damage the sensor and affect its accuracy. It is not recommended to insert the sensor directly into hard soil, which may damage the sensor.
- Designed to measure soil moisture ONLY.

Pairing with ThirdReality

App: Third Reality App
Device: ThirdReality Smart Hub

Pairing steps

1. Download and install the Third Reality App, or update it to the latest version.
2. Register and sign in your Third Reality account, and set up the Third Reality smart hub.
3. Open the battery cover, install the battery, press and hold the reset button for 5 seconds and release the hold; The blue blinking LED light indicates the sensor enters Zigbee pairing mode.
4. Tap "+" in the upright in the Third Reality app, tap Quick Pair and follow the on-screen instructions to start the pairing process.
5. The sensor will be discovered within one minute as "Temperature and Humidity Sensor 1" , the temperature and humidity data will be displayed in the device list .
6. Tap the device icon to enter the device page, check more informa-tion like the MAC address, battery level, software version and history records etc, tap the sensor name to rename it, and check for software updates.
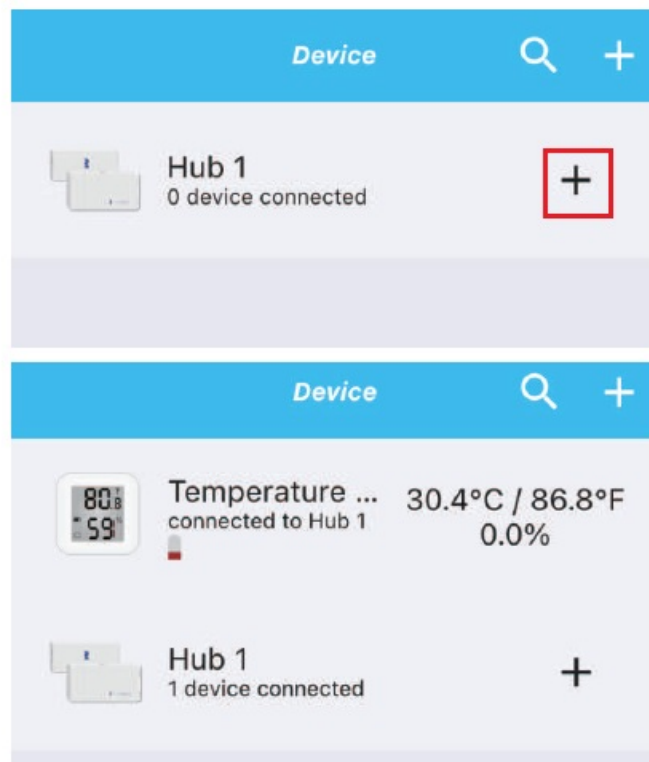

Pairing with 3R-Installer

App: 3R-Installer App
Device: Smart Bridge MZ1

Pairing steps

1. Set up your smart bridge, make sure both the 3R-Installer App and the smart bridge'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 the smart bridge icon to enter the devices page, tap "+ Bridge ZIGBEE Devices" to start Zigbee pairing, follow the on-screen instructions to add device.
4. Tap Link With Matter Enabled Services, copy the Manual Setup Code or Scan the QR Code within 3 min, then you can add the bridge to other Matter-supported ecosystems through multi-admin.
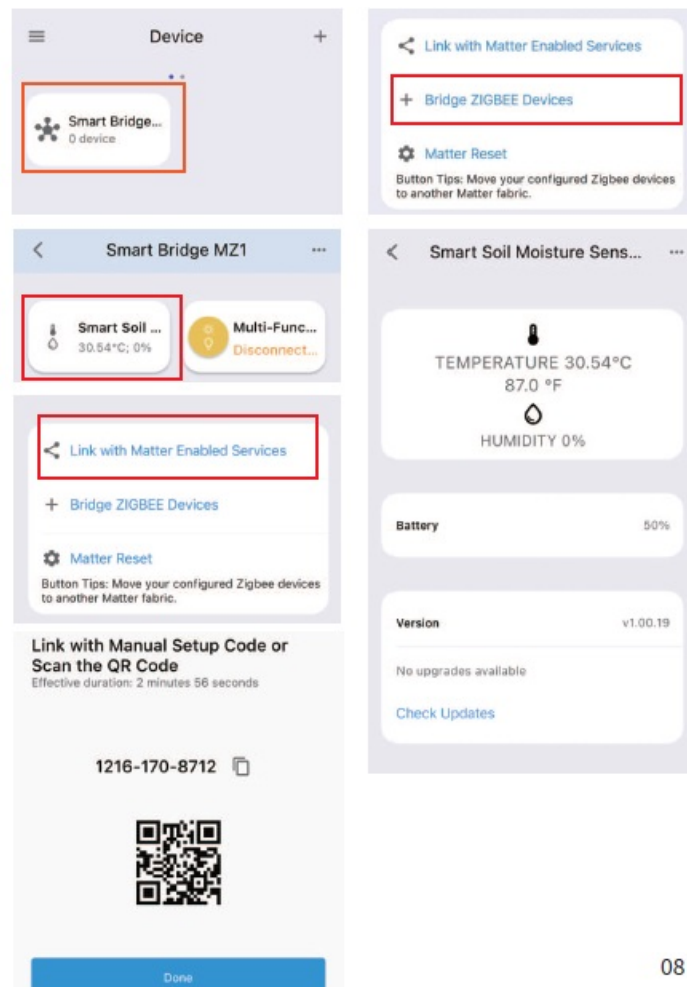
Pairing with SmartThings

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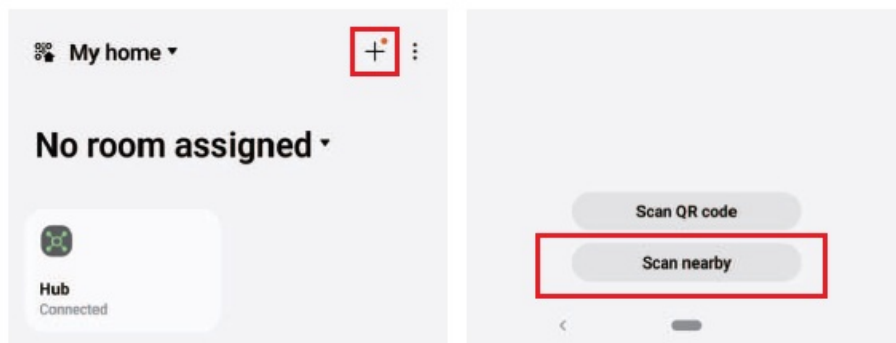

Pairing steps

1. Before pairing, check for updates to make sure the SmartThings Hub firmware is up to date.
2. Add SmartThings drivers for Third Reality Temperature and Humidity Sensor
   - Open this link in your PC browser. Log in your SmartThings Account. **https://bestow-**
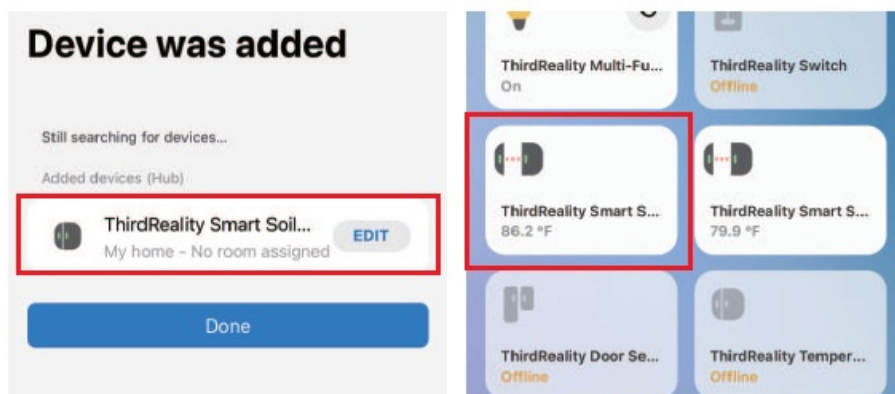
- Click "Enroll" –"Available Drivers" — "Install" to install the device driver.
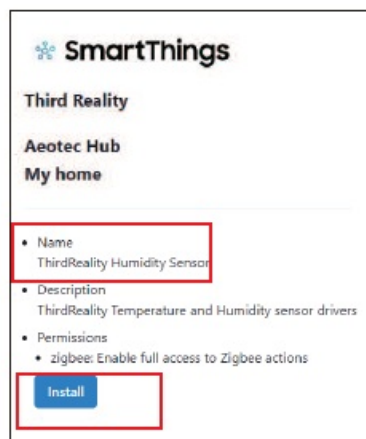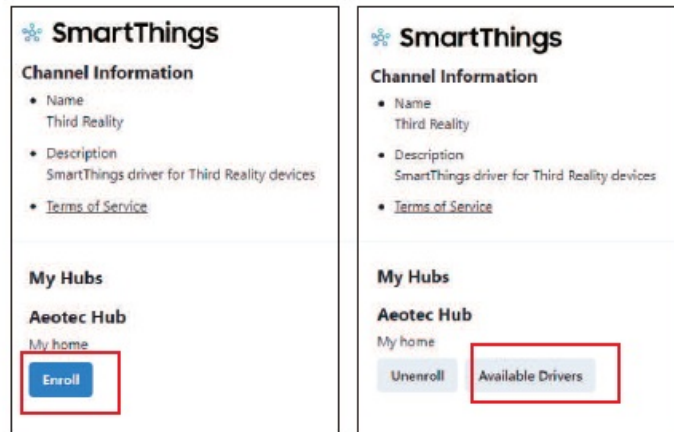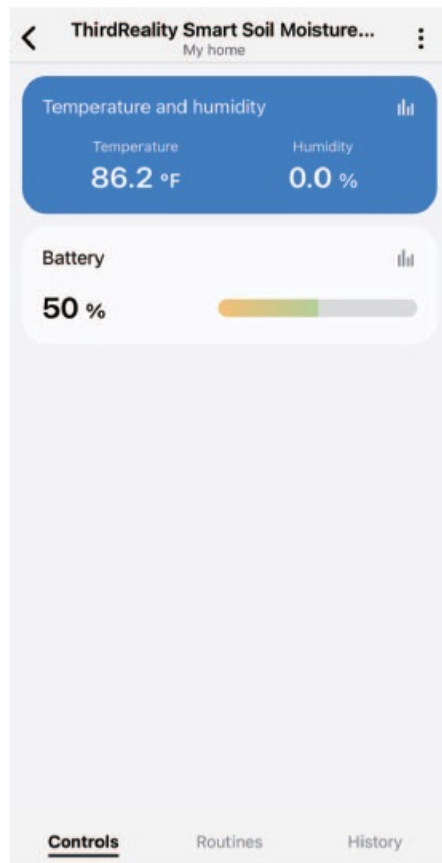

3. Open the battery cover and install the batteries, press and hold the reset button for 5 seconds and release the hold; The LED light turns blue blinking, indicating it enters pairing mode.
4. Open your SmartThings App, tap "+" on the up right corner to "Add device" and then tap "Scan nearby".

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 Dis-cover 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.
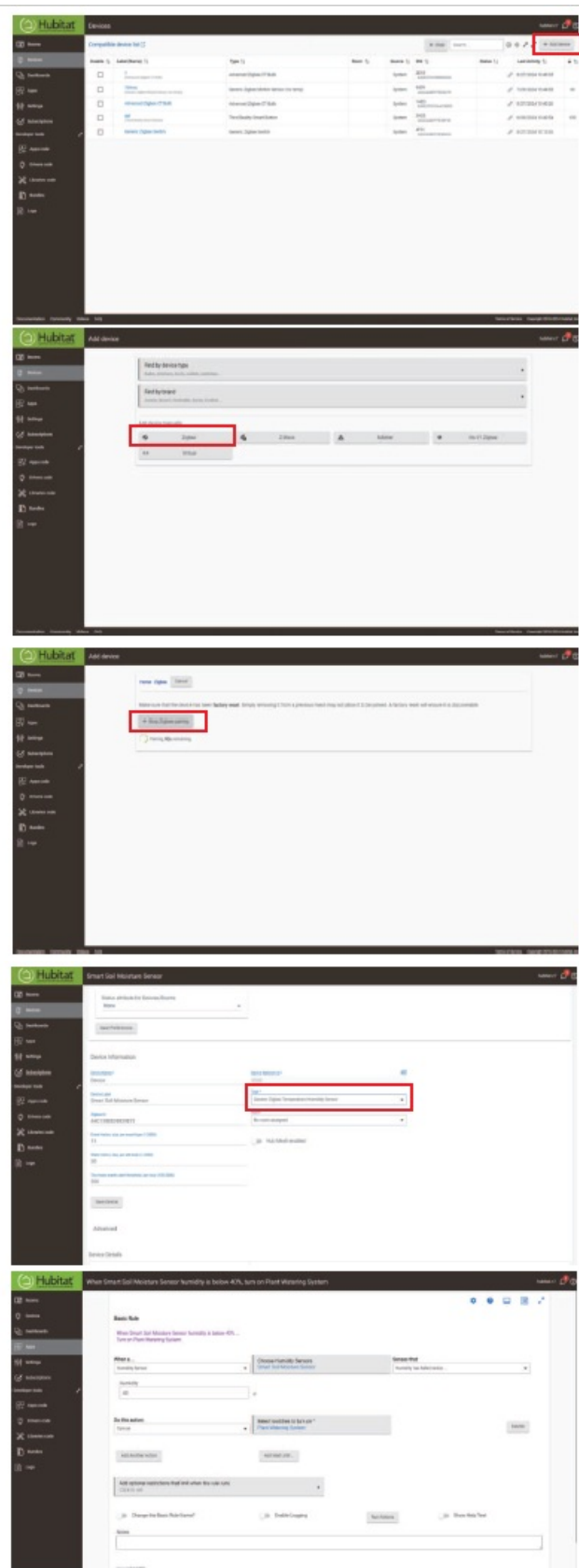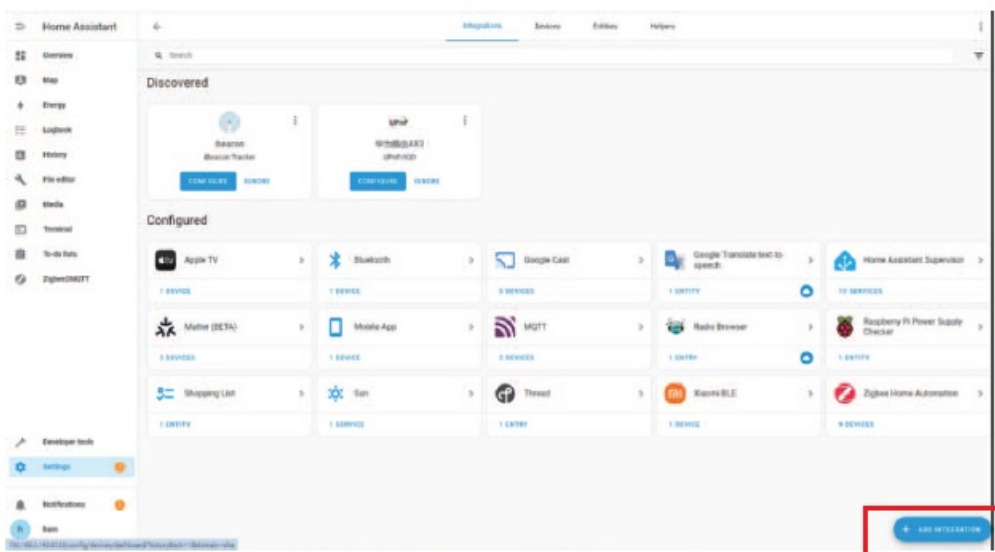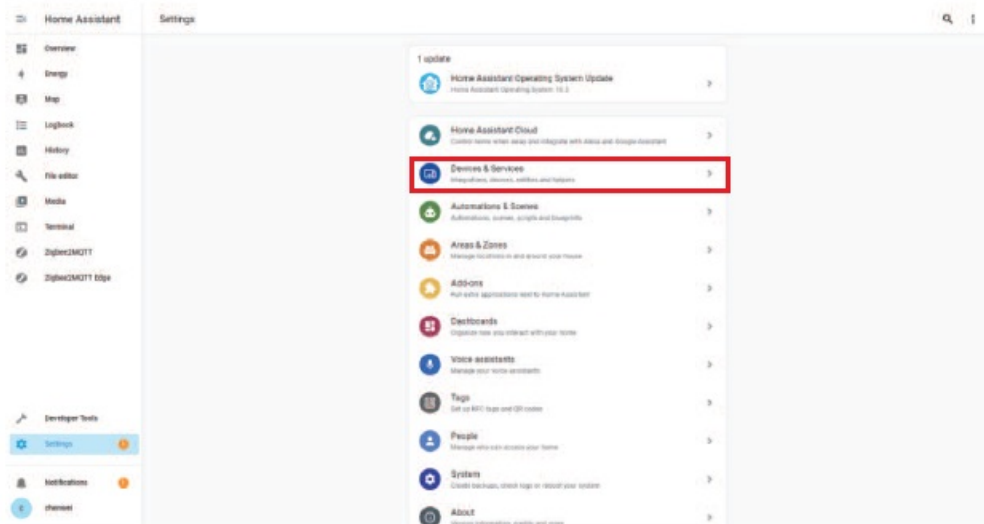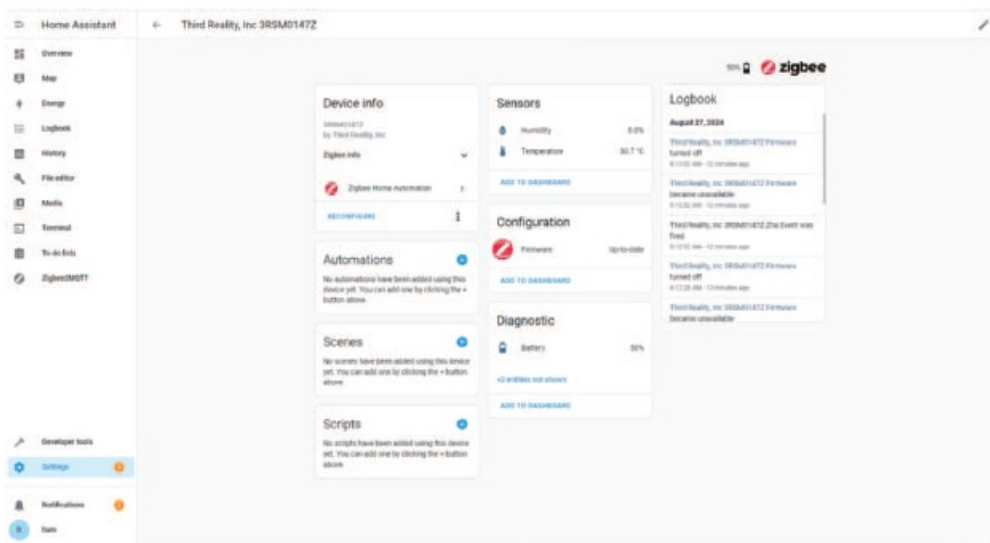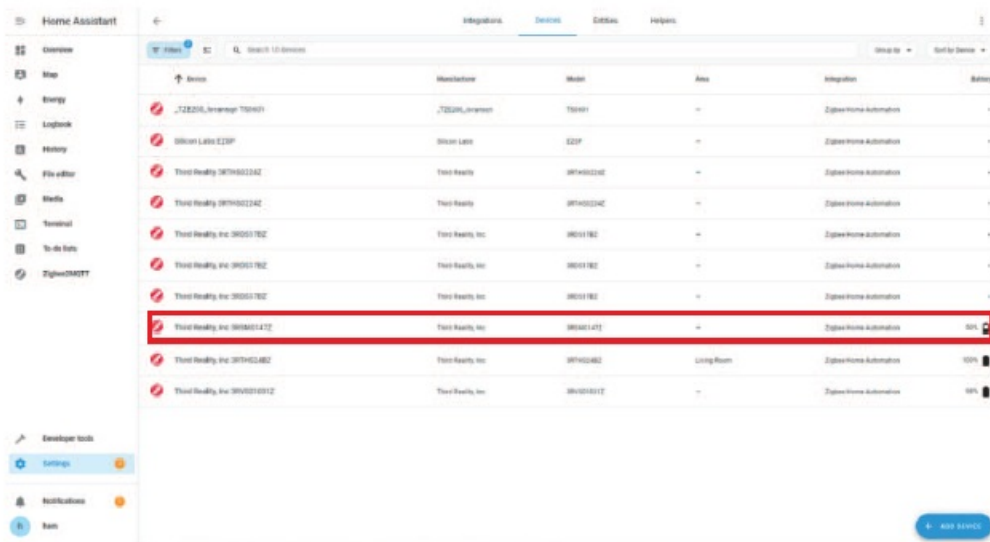
Pairing With Home Assistant

Device: Zigbee dongle

1. Zigbee Home Automation

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. In Zigbee Home Automation, go to the "Configuration" page, click "in-tegration".
4. Then click the "Devices" on the Zigbee item, the click "Add Devic-es". 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.
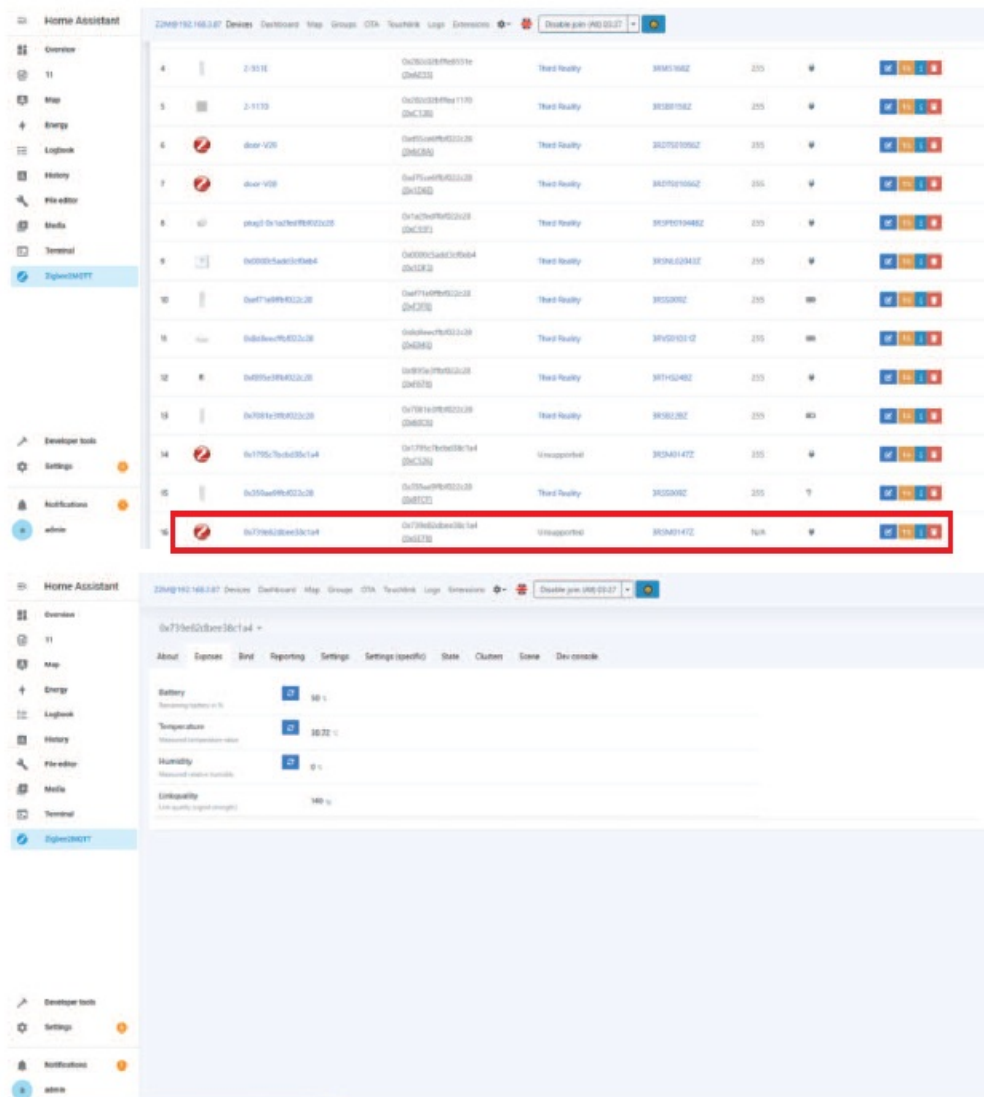
Zigbee2MQTT

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.
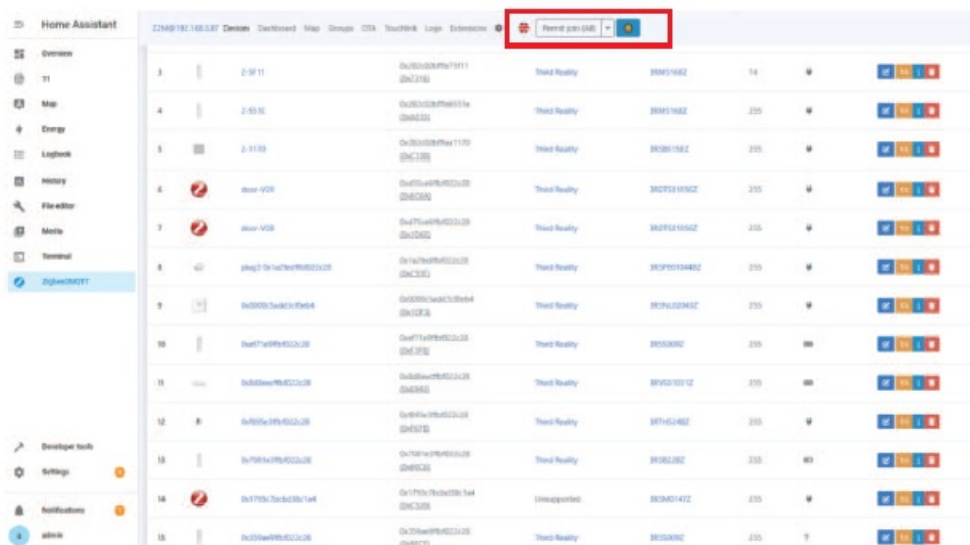
FCC Regulatory Conformance

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 announcements.

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 Statement

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.
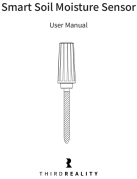
Limited Warranty

For limited warranty, please visit **www.3reality.com/devicesupport**
For customer support, please contact us at **info@3reality.com** or visit **www.3reality.com**
For help and troubleshooting related to Amazon Alexa, visit the Alexa app.

Documents / Resources

Smart Soil Moisture Sensor User Manual THIRDREALITY	**THIRDREALITY 3RSM0147Z Smart Soil Moisture Sensor** [pdf] User Manual 2BAGQ-3RSM0147Z, 2BAGQ3RSM0147Z, 3RSM0147Z Smart Soil Moisture Sensor, 3RSM0147Z, Smart Soil Moisture Sensor, Soil Moisture Sensor, Moisture Sensor, Sensor

References

- **Quick Start Guide**
- **DeviceSupport – ThirdReality**
- **Samsung account**
- **User Manual**