

# Temperature and Humidity Sensor

**User Manual**  
**V1.1**

**Revision Date: January 2025**

# 1. Product Introduction

The temperature and humidity sensor is independently developed by Vicoran, designed to meet different user needs. It features two models with built-in or external sensors and includes an LCD screen to display temperature and humidity. Users can also monitor data remotely via an app.



# 2. Product Specifications

## Basic Parameters

Product Model	V_STMT_A1 (Built-in)	V_STMT_A2 (External)
Power Supply	1 x 14505 battery	1 x 14505 battery
Communication Mode	Bluetooth	Bluetooth
Temperature Sensor	Sensirion	Maxim
Temperature Accuracy	±0.18°F (±0.1°C)	±0.9°F (±0.5°C)
Humidity Accuracy	±1.5% RH	N/A
Battery Life	3 – 5 years	3 – 5 years
Communication Range	100m / 325 feet	100m / 325 feet
Size	70 × 70 × 25 mm	70 × 70 × 25 mm (Cable: 1.5m)
<b>Main Unit Weight</b>		
Protection Level	IP65	IP65
<b>Temperature Measurement Range</b>	-40°F to 257°F (-40 to 125°C)	14°F to 185°F (-10 to 85°C)
<b>Humidity Measurement Range</b>	10% to 90%	

### 3. Local Functions

**Power On:** Short press the power button.

**Power Off:** Long press the power button.

**Switch Between Temperature and Humidity:** Short press the toggle button.

**Restore Factory Settings:** Long press the toggle button, then long press the power button.

### 4. App Functions

#### App Download

Scan the QR code to download and install the **VOLCORA APP**. Alternatively, search for “VOLCORA” in the app store. Once installed, users will be directed to the device connection page.



## 1. Connection Settings

1.1 After turning on the sensor, enable Bluetooth on your phone. Open the app while ensuring the phone is within 2 meters of the sensor.

1.2 Tap the “+” button, select the sensor, and scan the QR code on the back of the sensor. Wait for the connection to complete.

If the QR code cannot be scanned, use the "Nearby Devices" option to automatically search for the sensor. Select the desired device, rename it, and complete the connection.



## 2. Settings

On the home page, tap “Settings” to access the settings menu.

You can:

Adjust the upper and lower limits for temperature and humidity alarms.

Enable or disable alarm functions.

Access advanced settings to change the temperature unit, set alarm and notification intervals, and restore factory settings.



## 5. Frequently Asked Questions (FAQs)

**Q: What should I do if I can't monitor temperature and humidity remotely?**

**A:**

1. Check if a gateway is connected.
2. Without a gateway, the app can only display data near the sensor.

**Q: How long does the battery last?**

**A:** The battery compartment contains a 2700mAh battery, which typically lasts over 3 years under normal usage.

**Q: What should I do if the battery runs out?**

**A:** When the battery level drops below 20%, a low battery warning will appear. Open the back panel using a screwdriver to replace the battery.

### FCC WARNING

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.

### FCC warning:

Any changes or modifications not expressly approved by the p

arty 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.

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 & your body.