

Mocreo ST5-H5 Lite Temperature Sensors Kit User Manual

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MOCREO[®]

ST5-H5 Lite Temperature Sensors Kit

User Manual

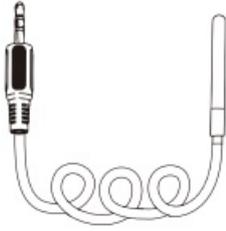
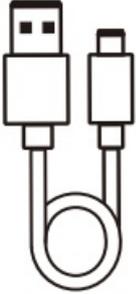
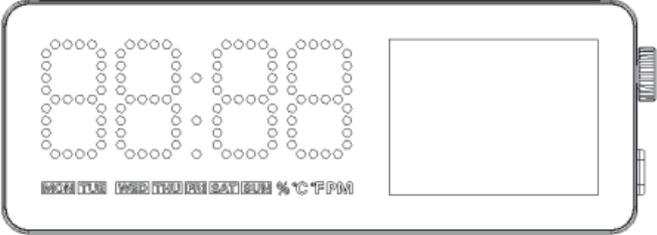
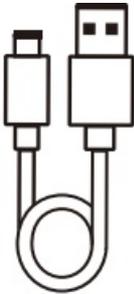
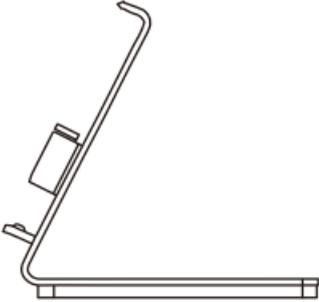
Introduction

- A new generation of Hub with dot matrix LED and IPS LCD display, data visualization and portable human-computer interaction bring you a new experience.
- ST5 wireless temperature sensor, with 4.9 feet / <3mm ultra-thin waterproof external probe, widely used in

refrigerators, freezers and other low-temperature environments; bathtubs, fish tanks and other water environments.

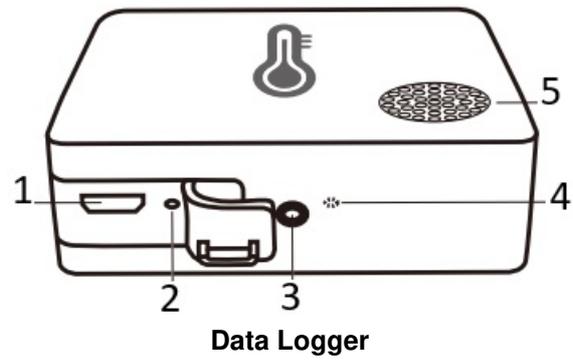
- ST5 Sensor temperature range: -67°F ~ 257°F (-55°C ~ 125°C).
- Three alarm notification methods: email alert, app push notification, hub beep. Assist you to be informed of the changing conditions of the field environment in time.

What's in the Box

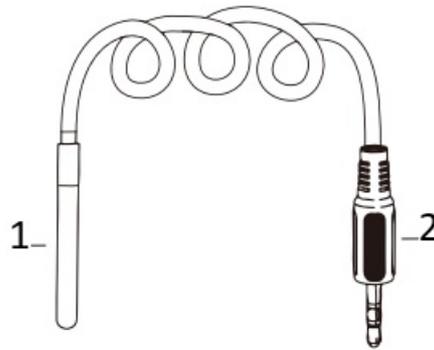
		
<p>ST5 Sensor x2</p>	<p>4.9ft Probe Cable x2</p>	<p>Micro USB Cable x1</p>
		
<p>Magic Sticker x2</p>	<p>Pin Clip x1</p>	<p>User Manual x1</p>
		
<p>H5-Lite x1</p>	<p>USB Type A -Type C x1</p>	<p>Adhesive backing x1</p>
		
<p>Power Adapter x1</p>	<p>Desktop stand x1</p>	

Product Parameter

(1) ST5 Temperature Sensor



1. 5V 1A Charging Port
2. Setup Pinhole
3. 3.5mm Probe Port
4. Indicator Light (Built in)
5. N/A



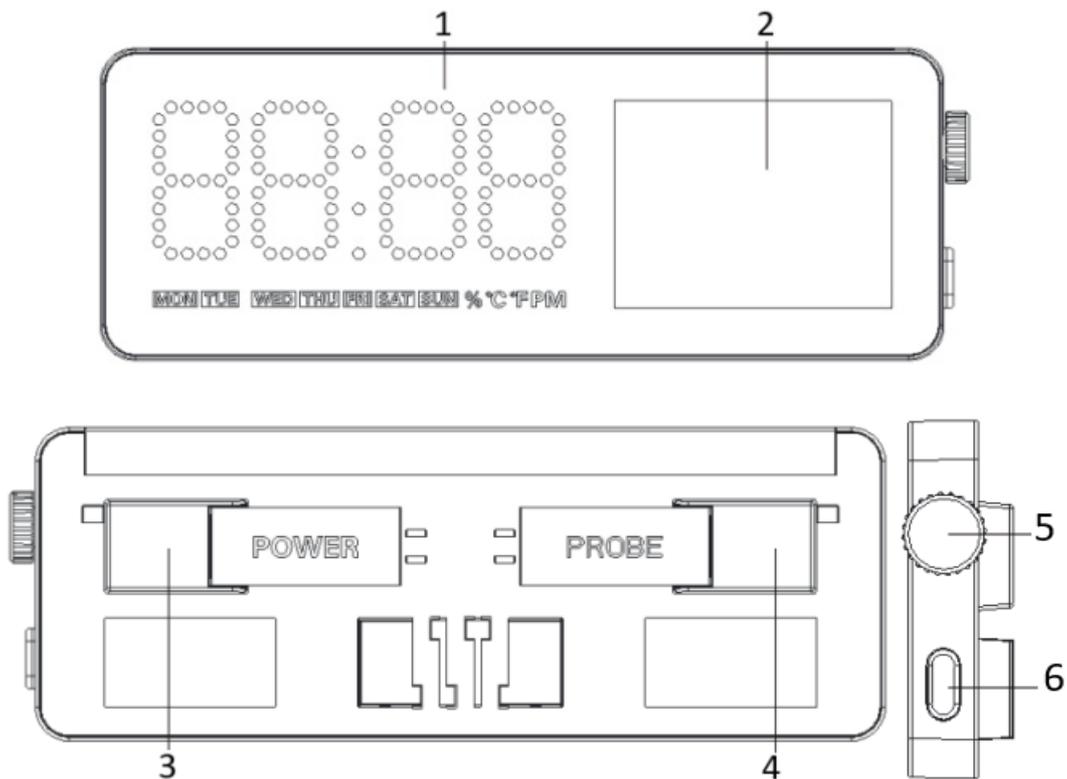
Sensor Probe

1. Inductive Probe
2. 3.5mm Male Plug

Specifications

Model	ST5
Wireless Connection	Bluetooth
Communication Range	131ft/40m (No Obstacles)
Dimensions	2.4 x 2.4 x 0.7 inch (L x W x H)
Weight (Including Probe)	2.93 Ounces
Battery (Rechargeable)	3.7V 1800mAh Lithium Battery
Size of Stainless Steel Shell	6 mm in diameter
Cable Length	4.9ft
Cable Cross Section	4mm x 1.3mm
Probe Measuring Range	-67°F ~ 257°F (-55°C ~ 125°C)
Temperature Accuracy	±0.9°F (In the Range of 14°F to 185°F)

(2) H5-Lite



1. LED Dot Matrix Clock
2. LCD Screen
3. Type C Charging Port
4. External Probe Interface
5. Rotary Encoder
6. Button

Specifications

Function	Ports	Specifications
Button	Physical Button * 2	Encoder: 3-way button * 1, track-type button * 1
Display	LCD Display (W * H)	2-inch, 320 * 240 IPS display, non touch
	LED Dot Matrix	7-segment 4-digit clock display
Network	Wi-Fi	2.4 GHz, 802.11 b/g/n
	Bluetooth	BLE 5.0
Dimensions	Overall Dimensions (L * W * H)	127.3mm*13.6mm*45.6mm
Weight	Weight	1.93 ounces
Power	Type-C*1	DC 5V/1A
Prober	Type-C*1	Temperature Probe

Setup

1 Download MOCREO Smart App

Search for “MOCREO Smart” on Google Play Store/ App Store or scan the QR code below to download the MOCREO Smart App and register your MOCREO account on the app.
(MOCREO will send you a confirmation email, click on the confirmation to complete the registration)



Google Play



App Store



MOCREO Smart App

2 Authorization

You need to go to the system settings page to grant the following permissions to the MOCREO Smart App to ensure that the device can be added properly and the related functions can be used normally.

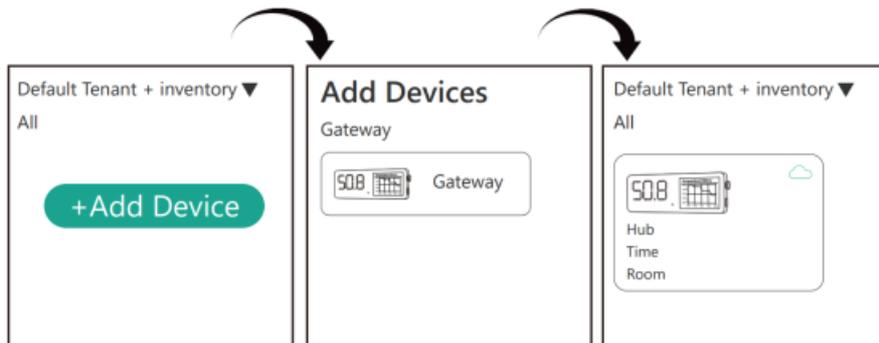


3 Add H5-Lite

Power your H5-Lite with the matching power adapter as well as the power cord. And follow the steps prompted by the app to complete the H5-Lite addition process.

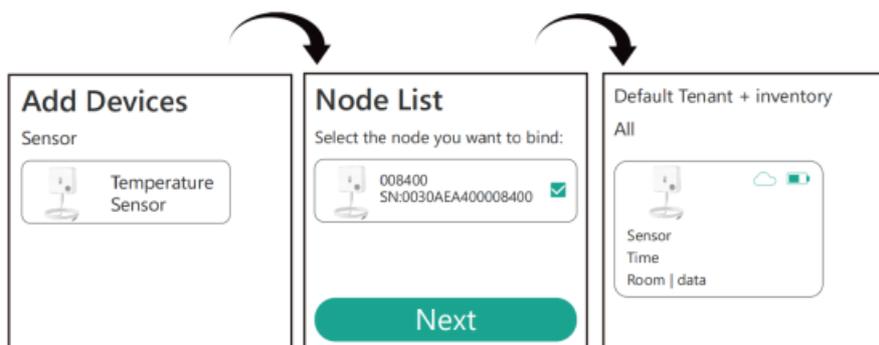


Launch H5-Lite, open the MOCREO Smart App and log in to your MOCREO account. Click [+ Add Device] in the main interface of the App, and select [Gateway] to start the process of adding H5-Lite.



4 Add ST5 Sensor

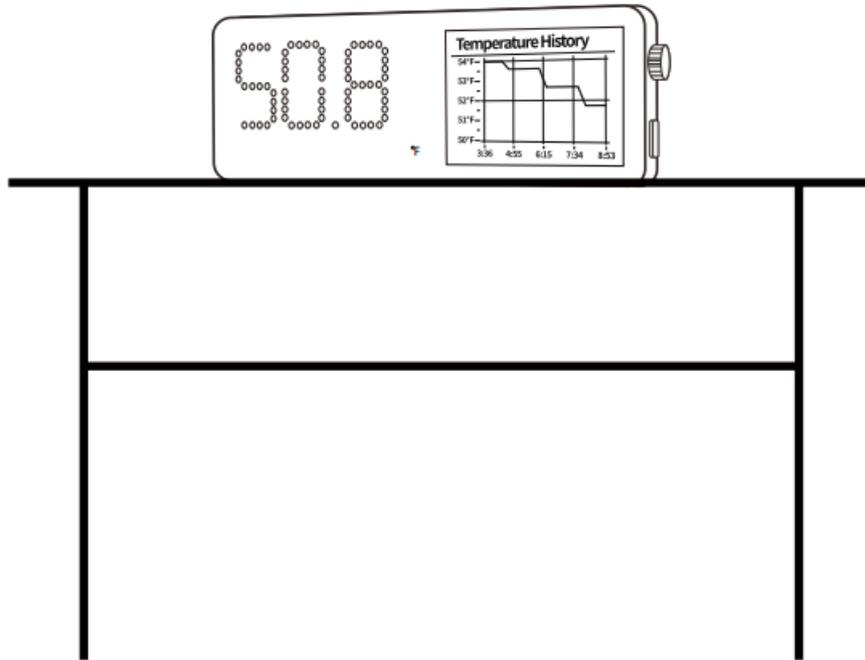
Click [+] in the upper right corner of the App main interface, select [Temperature Sensor] > [Temperature Sensor – ST5] to start the ST5 Sensor adding process.



Installation

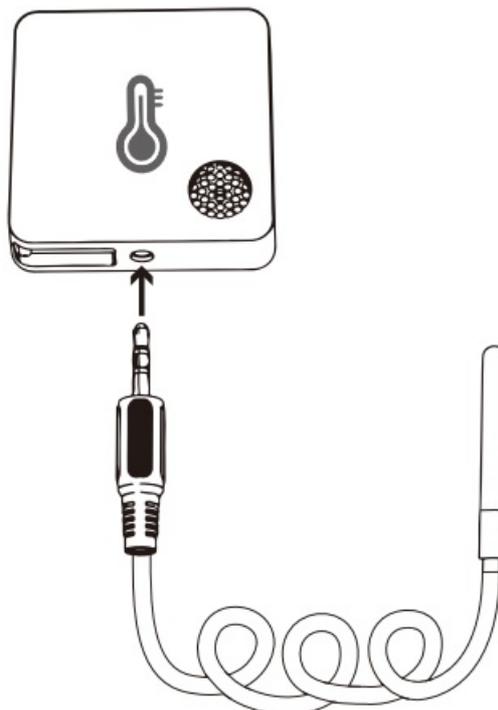
1. H5-Lite

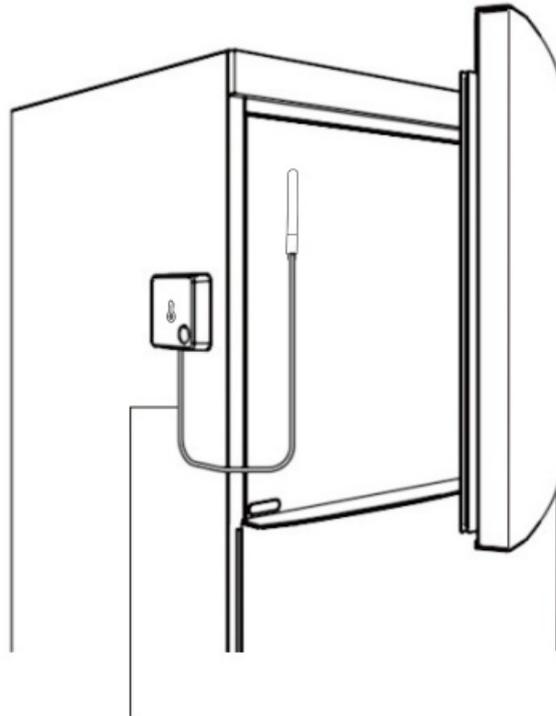
Regarding the installation and deployment of H5-Lite, we recommend that upon completing the setup process for H5-Lite, you place it on your desktop for convenient access to Sensor monitoring data and device status information at your fingertips.



2. ST5 Sensor

Regarding the ST5 Sensor, we advise positioning it in close proximity to the H5-Lite whenever feasible, while deploying it in a relatively elevated location within the same space to mitigate potential obstructions and sources of signal interference.



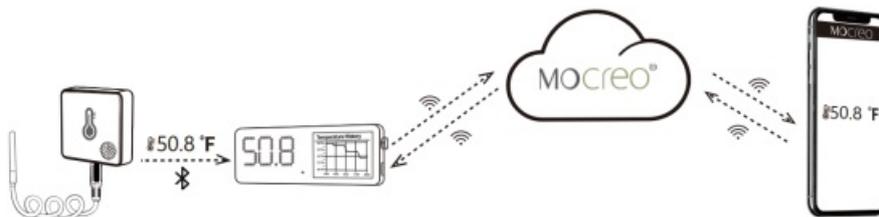


Seal fridge flawlessly with cables under 3mm thick

Test the Effective Distance

- Place the paired ST5 Sensor in the location you want to monitor. The suggested distance between the H5-Lite and Sensor is within 67ft-82ft (Household environment).
- Poke the Sensor pinhole for 1s and release.
- After 20~30 seconds, Tap the corresponding Sensor card on the App to reach the Sensor Settings Page and view the signal value, signal value stronger than 20% is ideal.

How the System Works



The ST5 Sensors use Bluetooth to communicate with the H5-Lite. Therefore, the distance are limited to a Bluetooth range centered on the Hub (e.g., around the house).

This range is affected by distance and obstacles such as walls, windows, water, radio interference, etc. In short, longer distances and more obstacles mean weaker signals.

The H5-Lite uses a Wi-Fi (2.4GHz only) to transmit data from the MOCREO Sensors in range to the Internet. Acellular hotspot with Wi-Fi capability can also be used to provide Internet access. Then, the MOCREO App can be used to view your device data from anywhere in the world.

Battery

- The ST5 Sensor built-in 1800mAh rechargeable lithium battery.

- The battery can last up to 2 years before it needs to be charged again.
- Please charge the Sensor with a Micro USB Cable and a 5V1A power adapter.
- The battery percentage can be checked on the App: Sensor Settings Page > More device information > Battery Power (Please do not check the battery level while the device is charging).
- When charging, the red indicator light will stay on and when the red indicator light goes off it means charging is complete.
- Low battery alert will be triggered when the battery is below 10%. (Including Email alerts and APP notification)

Calibration

- When the Sensor was taken to or from the refrigerator/freezer, the ST5 Sensor will spend some time calibrating the reading, and it would take about 20 minutes for the ST5 to measure to proper ambient temperature.
- The ST5 has a built-in USA-made DS18B20 chip, which is a strictly calibrated industrial-grade chip and is more accurate than ordinary consumer chips.
- Calibration is usually not required, if you need information about the chip, please check the FAQ.
- Calibration is only used to correct for small variations of +0.9°F ($\pm 0.5^{\circ}\text{C}$). If you find larger differences than this during calibration, which indicates a problem with the calibration process of your Sensor, please contact MOCREO Customer Service.

Troubleshooting

- To determine whether the H5-Lite is offline, one can make a comprehensive assessment based on error messages presented on the H5-Lite's LCD display and the current operational status within the H5-Lite app.
- If your H5-Lite is currently offline and you have verified that both the power supply and network environment are functioning normally, we recommend initiating the H5-Lite network diagnostic feature via the specified path on the H5-Lite LCD display. Subsequently, kindly provide us with the results of the network diagnosis for further investigation and analysis of the issue you are encountering.
- Regarding the offline issue of the ST5 Sensor, we suggest that you first inspect the current operational state of the H5-Lite.
- If the H5-Lite is offline please analyze and troubleshoot according to the above process.
- If the H5-Lite is online we suggest you check if the current battery level of the ST5 Sensor is at an optimal level. Please refer to the **Battery** for more information on this matter.
- If you have confirmed that the current battery level of the ST5 Sensor is optimal but the Sensor remains offline, this issue may arise from the ST5 Sensor being out of the H5-Lite Bluetooth scanning range.
- We recommend that you follow the instructions in the **Installation** to readjust the Sensor's deployment position. Try to bring the Sensor closer to the Hub and place both in the same space at a relatively elevated position, avoiding obstacles and sources of signal interference.

Customer Service



<http://doc.mocreo-faq.com/>



+1 [530-988-8608](tel:530-988-8608)



contact@mocreo.com



MOCREO Sensor



Search [MOCREO Sensor] on YouTube to watch the setup video tutorials.

Precautions for Use

To ensure the normal use of the product, please pay attention to the following situations:

- It is recommended to install the H5-Lite in a high place.
- Do not expose the Device to high temperatures, humidity, or dusty environments.
- Do not place the Device near flammable materials.
- Do not put heavy objects on the Device or use it as a support.
- Children should not use the Device without adult supervision.

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, and (2) this device must accept any interference received, including interference that may cause undesired operation.

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

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.

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 radiocommunications.

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:

- 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.

Warranty

MOCREO products enjoy a 12-Month limited warranty (Start from the date when customer receives the product), which applies only to hardware components of the device that are not subject to accident, misuse, neglect, fire, or other external causes, alterations, repair.

Disclaimer

The contents about how to use the product and the App guidance are only for reference, please refer to the actual situation for specific application. If there is something differs from the instruction during using the product, please

contact MOCREO Support for updates. This product is for detecting and monitoring only, MOCREO is not responsible for any property damage or other consequences of the use of this product.

Documents / Resources

	<p>Mocreo ST5-H5 Lite Temperature Sensors Kit [pdf] User Manual H5LT, 2BFZL-H5LT, 2BFZLH5LT, ST5-H5 Lite Temperature Sensors Kit, ST5-H5, Lite Temperatu re Sensors Kit, Temperature Sensors Kit, Sensors Kit, Kit</p>
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References

- [User Manual](#)

[Manuals+](#), [Privacy Policy](#)

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