MOCREO®

H5Pro-LS3 Temperature Sensor Kit
User Manual

## Introduction

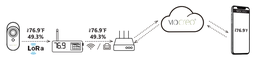
The H5Pro-LS3 Kit is a long-range, reliable solution for remote **temperature and humidity monitoring**, featuring the H5Pro LoRa Hub and LS3 LoRa Temperature Sensor.

**LS3 Sensor**: Designed for environmental monitoring, the LS3 Sensor accurately detects temperature and humidity changes. Ideal for daily management in indoor and dry environments, it is commonly used in scenarios requiring stable climate control, such as warehouses, greenhouses, and laboratories. With long-range communication technology, it supports seamless large-scale deployment and real-time data synchronization, delivering reliable support for environmentally sensitive areas.

**H5Pro Hub**: The H5Pro Hub leverages LoRa technology to communicate with multiple sensors across expansive areas. Its 2-inch display provides real-time monitoring at a glance, making it the dashboard for managing sensors, checking historical data, alerts, etc.



## How the System Works

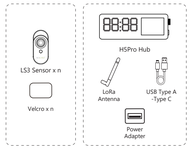



1. The LS3 Sensor sends temperature and humidity data to the H5Pro Hub via LoRa protocol (Long range, 1640ft, no obstacle).
2. The H5Pro Hub uploads the data to MOCREO Cloud via Wi-Fi or Ethernet.

Users can access the monitoring data anytime through the MOCREO Smart App.



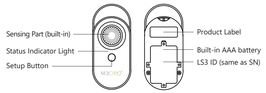
## What's in the Box




Note:
For 1 sensor kit: n=1
For 2 sensor kits: n=2
For 3 sensor kits: n=3



## Product Parameter






### Specifications

| | |
|---|---|
| Model | LS3 |
| Wireless Connection | LoRa |
| Communication Range | 1640ft / 500m (No obstacles) |
| Dimensions | 4.17 x 2.22 x 0.83in |
| Weight | 3.4 oz |
| Battery | AAA battery x 3 (Replaceable) |
| Operating Temperature Range | 32° - 140°F(0° - 60°C) |
| Temperature Accuracy | ±0.54°F(±0.3°C) |
| Operating Humidity Range | 0 - 80% (Non-condensing) |
| Humidity Accuracy | ±3%RH (Typ.) |

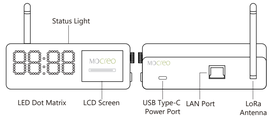


### LS3 Sensor Button Functions

| Function | Button Operation | Indicator Light Behavior |
|---|---|---|
| Enter Setup | Press and hold for 3s, then release | The blue light is flashing |
| Restore Factory Settings and Restart | Press and hold for more than 15s, then release | The red LED stays on when pressed for 10s, and turns off at 15s |
| Report Data Now | Press the button once | The blue light flashes once |

Note: Pressing "Restore to Factory Settings and Restart" will reset the sensor to its factory defaults. You'll need to add the sensor again using the app. Only perform this action if necessary.



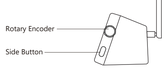





### Button Functionality

**Rotary Encoder:** The rotary button allows moving the selection box up and down the screen, and pressing the button confirms the selection.

**Side Button:** Return to the previous interface.



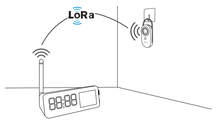



### Specifications

| | | |
|---|---|---|
| Model | | H5Pro |
| Button | Physical Button ×2 | Rotary Encoder ×1, Side 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 | 2.4GHz (not support 5GHz Wi-Fi) |
| | LoRa | 915MHz |
| | Ethernet | 10Mbps/100Mbps |
| | BLE | BLE 5.0 |
| Dimensions (L x W x H) | | 5.04 × 3.08 × 3.77in (Include antenna)<br>5.04 × 2.06 × 1.86in (No antenna) |
| Weight | | 4.1 oz |
| Power | | DC, 5V, 1A, Type-C ×1 |



## Mounting




Position the devices at a relatively elevated location in the current environment, ensuring that the LS3 Sensor and H5Pro Hub antennas are oriented vertically.



## Setup

### ❶Download MOCREO Smart App

MOCREO Smart

Scan and Download

Google Play App Store MOCREO Smart App or



### ❷Power the Hub

Provide power to your H5Pro Hub.

### ❸Add devices via the App

1. Open the MOCREO Smart App
2. **For new users:** Register and verify your account
   **Existing users:** Log in directly
3. Follow the in-app instructions to:
   - Add and bind your H5Pro first
   - Pull out the sensor battery insulating tab
   - Then add and pair your Sensor



## Precautions and Disclaimer

**Precautions for Use**

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

- It is recommended to install the H5Pro Hub in a high place.
- Do not expose the Sensor to High-temperature environment.
- 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.



**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 applications. If there is something different from the instructions 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.



## FCC Statement

FCC ID (LS3 Sensor): 2BFZL-LS3
FCC ID (H5Pro Hub): 2BFZL-H5LR

**This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions:**

- This device may not cause harmful interference.
- This device must accept any interference received, including interference that may cause undesired operation.

**Warning:** 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, according 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:



- Increase the separation between the equipment and the receiver.
- Connect the equipment to 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 (starting from the date when the 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, or repair.



## Customer Service

https://doc.mocreo.com/
+1 (530) 988-8608
help@mocreo.com

User Guide Manual

YouTube MOCREO

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

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