

MOCREO[®]

LS1 Temperature Sensors Kit

H5Pro-LS1D

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Introduction

The H5Pro-LS1D Kit is a long-range, reliable solution for remote temperature monitoring, featuring the H5Pro LoRa Hub and LS1 LoRa Temperature Sensor.

LS1 Sensor:

Equipped with a high-precision, professional-grade sensor, the LS1 Sensor ensures accurate temperature readings. Its IP66 waterproof rating and low power consumption make it perfect for continuous use in challenging environments, such as cold storage, and freezers.

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.

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How the System Works

176.9°F

LoRa

176.9°F

LoRa

176.9°F

LoRa

MOCREO

176.9°F

LoRa

1. The LS1 Sensor sends temperature 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.

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What's in the Box

LS1 Sensor ×2

Velcro ×2

H5Pro Hub ×1

LoRa Antenna ×1

USB Type A -Type C x1

Power Adapter x1

User Manual×1

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Product Parameter

Sensing Part

Status Indicator Light

Setup Button

Product Label

Built-in AAA battery

LS1 SN

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Specifications

Model	LS1
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)
Probe Measuring Range	-0.4° - 131°F (-18° - 55°C)
Temperature Accuracy	±0.9°F (±0.5°C)
Waterproof	IP66

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LS1 Sensor Button Functions

Function	Button Operation	Indicator Light Behavior
Enter Setup mode	Press and hold for 3s, then release	The blue light is flashing
Restore default settings and restart	Press and hold for more than 15s, then release	The red light briefly illuminates and then extinguishes
LS1 Sensor reports data (battery level, signal strength, monitoring data)	Press the button once	The blue light flashes once

Note: "Restore default settings and restart" will reset the Sensor to factory settings. You will need to re-add the Sensor through the App. This action is generally not recommended unless necessary.

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Status Light

LED Dot Matrix

LCD Screen

MOCREO

USB Type-C Power Port

LAN Port

LoRa Antenna

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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.

Rotary Encoder

Side Button

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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 × W × H)	5.04 × 3.08 × 3.77in (Include antenna) 5.04 × 2.06 × 1.86in (No antenna)
Weight	4.1 oz
Power	DC 5V, 1A, Type-C ×1

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Mounting

LoRa

LoRa

Position the devices at a relatively elevated location in the current environment, ensuring that the LS1 Sensor and H5Pro Hub antennas are oriented vertically.

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Setup

1 Download MOCREO Smart App

MOCREO Smart

Scan and Download

Google Play

App Store

MOCREO Smart App

OR

QR Code

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2 Add Device

(1) Add H5Pro Hub

Provide power to your H5Pro Hub.

Make sure Bluetooth is ON so you can add the device to the app.

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Open the **MOCREO Smart** App, follow the instructions provided by the app, and complete the Add H5Pro Hub addition process.

My Home > All

Add Devices

My Home > All

Welcome to MOCREO smart

IoT Hub Pro H5Pro

Note: If connected via Ethernet, the device online icon is

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(2) Add LS1 Sensor

Pull out the battery insulating tab.

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Return to the **MOCREO Smart** App and complete the LS1 Sensor addition process.

My Home > All

Add Devices

My Home > All

IoT Hub Pro H5Pro

IoT Hub Pro H5Pro

Temperature Sensor LS1

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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.

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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.

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FCC Statement

FCC ID (LS1 Sensor): 2BFZL-LS1
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.

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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:

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• 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.

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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.

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Customer Service

https://doc.mocreo.com/

+1 (530) 988-8608

help@mocreo.com

You Tube

MOCREO Sensor

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

QR Code

User Guide Manual

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v1.1

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