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Mocreo ST4 Temperature Sensor User Manual

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Mocreo ST4 Temperature Sensor

Introduction

MOCREOST4 Sensor is a temperature Sensor with a waterproot external probe designed to operate in extreme conditions (-40°F to +257°F), which can detect and record ambient temperature in real-time. It uploads the latest and historical data to MOCREO Cloud so that you can browse and get notifications through MOCREO APP and Web Portal. It's rechargeable, has low power consumption, and is easy to install. With a 1.5m probe, it's perfect for use in a fridge/freezer, fish tank, pet cage, bedroom, or any other places that require monitoring of temperature.
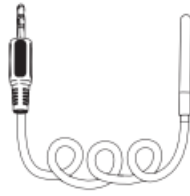
Note:
This product is designed for indoor use only and needs to work with MOCRECO loT Hub (Gateway).
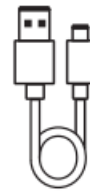
What's in the box

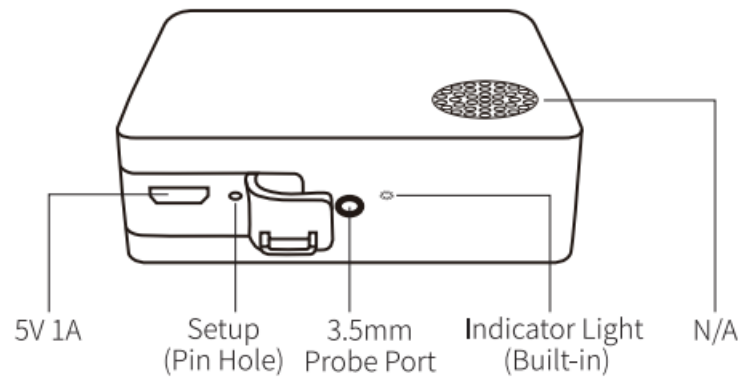Data Logger x 1　　　1.5m Sensor Probe x 1　　　USB Power Cable x 1

Pin Clip x 1　　　Adhesive x 1　　　User Manual x 1

| 5V 1A | Setup (Pin Hole) | 3.5mm Probe Port | Indicator Light (Built-in) | N/A |

RF Sensor

Current Status	Pin-hole on the Sensor	Operation	LED Indicator
Sensor is paired	Short press for 1s	* Sensor goes online * Effective range test	Flashes one time
	Long press for 5s	Factory reset	Flashes one time
Sensor is unpaired	Short press for 1s	Into setup mode	Keeps flasing

Note: After the Sensor was factory reset, it needs to be re-added via the App.

Specification

Model	ST4
Dimensions	61.1 x 61.4 x 19.0 mm
Weight (including probe)	83 g
Battery (Rechargeable)	3.7 V 1800 mAh Lithium battery
Working Distance	230ft / 70m (No obstacles)
Wireless Connections	Wireless Network (802.15.4)
Size of Stainless Steel Shell	6 mm in diameter
Cable Length	1.5 m
Cable Diameter	φ 3 mm
Probe Measuring Range	-40°F to +257°F (-40°C to +125°C)
Temperature Accuracy	±0.5°C (in the range of -10°C to +85°C)

Setup

Note:
Please make sure the Hub firmware version is (or above) v1.6.5 and the MOCREO Sensor App version is (or above) v1.0.20 before setup. If not, please update the Hub firmware and App version first via the MOCREO Sensor App. If the Hub or App update fails, please contact us (**Contact@mocreo.com**).

1. Please make sure that the Hub has been successfully added to your MOCREO Sensor App.

2. To pair the Sensor with the Hub: Please launch the

MOCREO Sensor App
Click the "+ on the upper right corner of the homepage. Select the Temperature Sensor (with the corresponding image), and follow the instructions on the App.

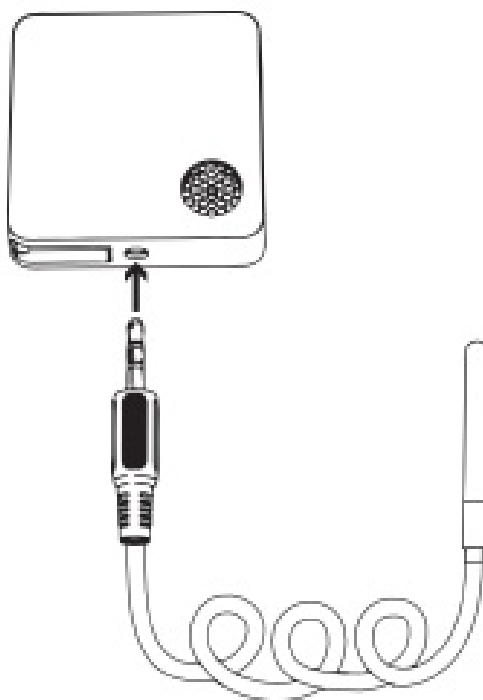If the pairing process fails, please bring the Sensor closer to the Hub and try again.

MOCREO Sensor App

Installation

After pairing the Sensor with the Hub, before installing the Sensor, it is recommended to identify and rename the Sensor on the App, and test the effective communication distance between the Sensor and the Hub:

- At the expected installation location (of the Sensor), insert the Pin Clip into the pin-hole and press once shortly (less than 1 second, then release).
- In 5-10 s, you may see the background of the corresponding card change from yellow to green on the App homepage, indicating that the connection between the Sensor and the Hub is good.
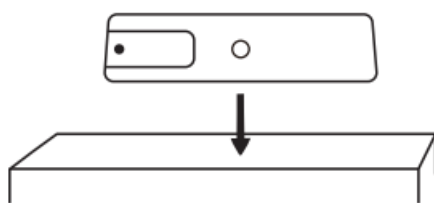
After the Sensor is paired with the Hub, connect the Sensor Probe to the Data Logger to start monitoring, and then install it on the desired location.
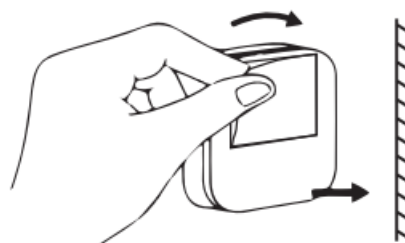
How to install

- **Method 1:** Directly place it in the desired position.
- **Method 2:** Peel off the adhesive protective film and paste it in the desired position.

Please make sure that the surtace of the pasted position is clean and dry.

Method 1   Method 2

To improve the wireless connection stability, it is recommended:

- Install the Sensor close to the Hub. It's better if the Hub and the Sensor can see each other.
- Reduce the obstacles between the Hub and the Sensor.
- The Hub and Sensor should be placed far away from metal objects or surfaces to avoid signal interterence.
- Check if the Hub's antenna is tightened and keep it upright.
- Check (via App) the battery power in time to avoid an unstable transmission signal caused by the insufficient power supply.
- Stay away from high-power equipment, and flammable and explosive materials.

Precautions about the Sensor placement environment:

- The Data Logger is non-watertight, please avoid water submerging and extreme temperature.
- The working temperature range of the Sensor is 40° F to +257°F (-40°C to +125°C). When exceeding this

range, the data monitored might be inaccurate or the Sensor might be damaged.

- The battery is rechargeable. It can be charged with the micro USB cable equipped. But the battery is not removable.

Warranty

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

Customer Service

- **Web: www.mocreo.com**.
- **Phone:** +1 (530) 988-8608
- **Email: contact@mocreo.com**.

FAQ

Search [MOCREO Sensorjon YouTube to watch the setup video tutorial.

Documents / Resources

	Mocreo ST4 Temperature Sensor [pdf] User Manual ST4 Temperature Sensor, ST4, Temperature Sensor, Sensor