

## MOCREO LS1

# MOCREO LS1 Waterproof Thermometer Instruction Manual

Model: LS1

## 1. INTRODUCTION

Thank you for choosing the MOCREO LS1 Waterproof Thermometer. This device is designed for accurate and reliable temperature monitoring in various environments, including refrigerators, freezers, greenhouses, and warehouses. It provides real-time data and alerts when paired with the MOCREO H5Pro LoRa Hub and the MOCREO Smart App. This manual provides detailed instructions for setup, operation, and maintenance to ensure optimal performance.

## 2. PRODUCT OVERVIEW

### 2.1 Key Features

- **Upgraded Waterproofing:** IP66 rated for use in humid environments like refrigerators, measuring from -0.4°F to 131°F with  $\pm 0.9^\circ\text{F}$  accuracy.
- **Long Range Connectivity:** Requires MOCREO H5Pro LoRa Hub (sold separately, ASIN B0DRHQT24P) for an open-air range of up to 1,640 ft (500m). Not compatible with H5Lite, H1B, H2 hubs.
- **Instant Alerts:** Provides app notifications, email alerts, and an 80dB hub beep for critical temperature changes. Includes smart settings for low battery and anti-false alarms.
- **Extended Battery Life:** Powered by three replaceable AAA batteries, offering up to 2 years of operation.
- **2 Years Data Logging:** No subscription required. View clear charts online and export up to 2 years of data in CSV format for analysis.

### 2.2 Package Contents

- 1 MOCREO LS1 Wireless Thermometer (three AAA batteries included)

### 2.3 Product Components



**Image 1:** The MOCREO LS1 Waterproof Thermometer sensor, a compact white device with a silver button and yellow accent.

# New Generation Upgrade

NEW2025

LS1



Long Range

1640ft/500m

Waterproof

Whole IP66

2 Years Battery Life

Replaceable

ST4



Short Range

131ft/40m

Waterproof

Only Probe Cable

2 Year Battery Life

Rechargeable

**Image 2:** Comparison of MOCREO LS1 and ST4 models, highlighting LS1's long range (1640ft/500m), whole IP66 waterproofing, and 2-year replaceable battery life.

# IP66 Waterproof



**Image 3:** Visual representation of the LS1 sensor's IP66 waterproof rating, showing it resistant to water splashes, ideal for humid environments.

# **2 Years Long Battery Life**

Three AAA replaceable batteries



**Image 4:** An internal view of the MOCREO LS1, illustrating the three AAA replaceable batteries that provide up to 2 years of operation.

## **3. SETUP INSTRUCTIONS**

### **3.1 Before You Begin**

- Ensure you have the MOCREO H5Pro LoRa Hub (ASIN B0DRHQT24P) as it is required for the LS1 sensor to function.
- Download the MOCREO Smart App from your device's app store.
- Ensure your H5Pro Hub is powered on and connected to your network.

### **3.2 Battery Installation**



1. Gently open the LS1 sensor casing to access the battery compartment.
2. Insert the three included AAA batteries, ensuring correct polarity (+/-).
3. Close the casing securely to maintain its IP66 waterproof rating.

### 3.3 Pairing with H5Pro Hub

1. Open the MOCREO Smart App on your smartphone.
2. Follow the in-app instructions to add a new device.
3. Select the LS1 sensor from the list of available devices. The app will guide you through the pairing process with your H5Pro Hub.
4. Once paired, you can name the sensor and assign it to a specific location (e.g., 'Kitchen Fridge', 'Greenhouse').





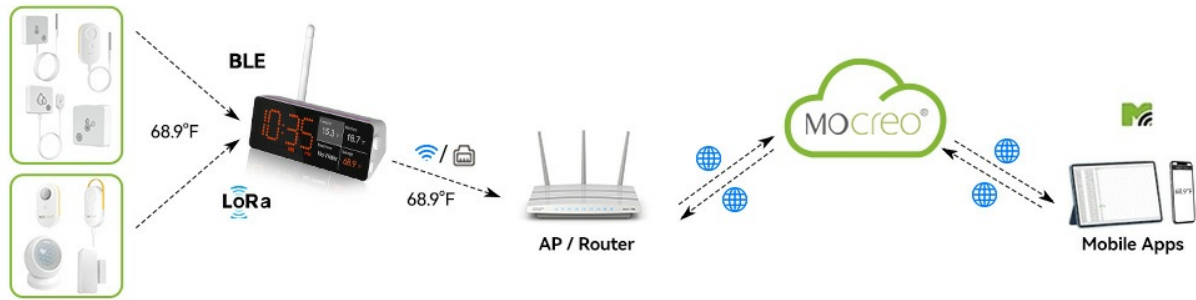
**Image 5:** Diagram illustrating the long-range monitoring capability of the MOCREO LS1 sensors connecting wirelessly to the LoRa H5-Pro Hub over a wide area.

# Add up to **100** MOCREO Sensors to **1** Hub

Name each sensor to easily monitor  
the temp in different rooms



**Image 6:** An apartment building with multiple MOCREO sensors connected to a single H5Pro Hub, demonstrating the ability to add up to 100 sensors for comprehensive monitoring.



### H5-Pro Hub Compatible Sensor Models

Smart Sensors	BLE Sensors	Temperature Sensor	ST5, ST8, ST10, MS1
		Temperature & Humidity Sensor	ST6, ST9, MS2
		Water Leak Detector	SW2
	Long Range Sensors	Temperature Sensor	LS1, LS2
		Water Leak Detector	LW1
		PIR Sensor	LM1
		Door Sensor	LD1

**Image 7:** A table listing various MOCREO smart sensors compatible with the H5-Pro Hub, categorized by BLE and Long Range sensors, including the LS1 and LS2 temperature sensors.

## 4. OPERATING INSTRUCTIONS

### 4.1 Real-time Monitoring

- Once paired, the LS1 sensor will begin transmitting temperature data to your H5Pro Hub, which then sends it to the MOCREO Smart App.
- Open the app to view real-time temperature readings for all your connected sensors.
- The app displays current temperatures and historical data in clear charts.



# 24/7 Remote Monitoring

Any where, any time, be alerted



App Notification



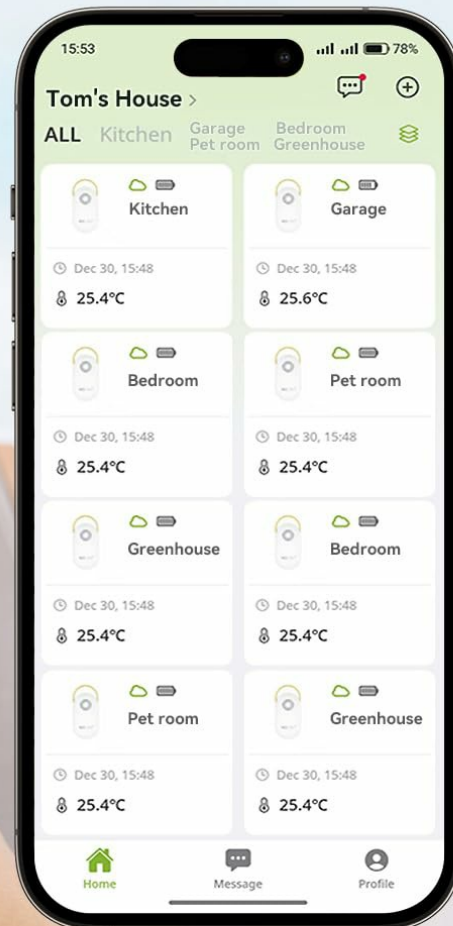
Email Alerts



Hub Beeping

 **Urgent: Temperature Alert for Fridge at 25.5°C**  
 Temperature is 25.5°C, above the maximum threshold of 5°C

 **Urgent: Temperature Alert for Fridge at 25.5°C Dear friend**  
 We're sending you an automated notification because the temperature of your device '629E00' in room 'kitchen' has reached 25.5°C. This is outside the normal operating range you've specified (-10°C~5°C)



**Image 8:** A smartphone screen displaying the MOCREO Smart App interface, showing real-time temperature monitoring for multiple locations and alert notifications.

## 4.2 Alert System

- Configure temperature thresholds within the MOCREO Smart App for each sensor.
- When the temperature exceeds or falls below your set limits, you will receive instant alerts via:
  - **App Notifications:** Push notifications directly to your smartphone.
  - **Email Alerts:** Notifications sent to your registered email address.
  - **Hub Beep:** An 80dB audible alarm from the H5Pro Hub.
- Utilize smart settings like "low battery alert" and "anti-false alarm" to enhance monitoring reliability.



**Image 9:** A user viewing urgent temperature alerts on their smartphone via the MOCREO Smart App, indicating a temperature deviation in a monitored area.

### 4.3 Data Logging and Export

- The LS1 sensor automatically logs temperature data for up to 2 years.
- Access historical data and charts directly within the MOCREO Smart App.
- Export data in CSV format for in-depth analysis by selecting the desired date range within the app.



**Image 10:** A smartphone screen showing the MOCREO Smart App's data export function, allowing users to select a date range and export temperature data in CSV format.

## 5. MAINTENANCE

## 5.1 Battery Replacement

- When the low battery alert is triggered, replace the three AAA batteries.
- Follow the steps in Section 3.2 for battery installation, ensuring the casing is sealed properly after replacement to maintain waterproofing.

## 5.2 Cleaning

- Wipe the sensor with a soft, damp cloth. Do not use abrasive cleaners or solvents.
- Ensure the sensor is dry before placing it back in its monitoring environment.

# 6. TROUBLESHOOTING

## 6.1 Common Issues

- **No Data in App:**
  - Ensure the LS1 sensor has fresh batteries and is powered on.
  - Verify the H5Pro Hub is online and connected to your network.
  - Check the distance between the sensor and the hub; reduce obstacles if possible.
  - Re-pair the sensor with the hub via the MOCREO Smart App.
- **Alerts Not Triggering:**
  - Confirm that temperature thresholds are correctly set in the app.
  - Check app notification settings on your smartphone.
  - Verify email address for alerts is correct and check spam folders.
- **Inaccurate Readings:**
  - Ensure the sensor is placed in a location that accurately reflects the environment you wish to monitor.
  - Avoid placing the sensor near heat sources or direct sunlight unless intended.

# 7. SPECIFICATIONS

## 7.1 Technical Specifications

Feature	Specification
Model Number	LS1
Temperature Range	-0.4°F to 131°F (-18°C to 55°C)
Temperature Accuracy	±0.9°F (±0.5°C)
Waterproof Rating	IP66
Power Source	3 x AAA Batteries (included)
Battery Life	Up to 2 years
Connectivity	LoRa (requires MOCREO H5Pro Hub)
Wireless Range	Up to 1,640 ft (500m) in open air
Data Logging	2 years, exportable in CSV format

Alert Types	App Notification, Email Alert, 80dB Hub Beep
Dimensions	5.2 x 2.44 x 1.54 inches
Weight	4.66 ounces
Color	White

## 8. WARRANTY AND SUPPORT

### 8.1 Warranty Information





- **90-Day Satisfaction Guarantee:** MOCREO offers a 90-day 100% satisfaction guarantee, including money-back and free returns.
- **1-Year Warranty:** The MOCREO LS1 Waterproof Thermometer is covered by a 1-year warranty from the date of purchase.

### 8.2 Customer Support



- For technical assistance, troubleshooting, or warranty claims, please contact MOCREO customer support.
- **Online Support:** 24/7 online support is available. Refer to the MOCREO Smart App or the official MOCREO website for contact details.

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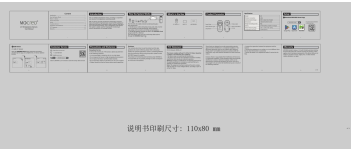
### Related Documents - LS1

	<p><a href="#">Mocreo ST5 Temperature Sensor User Manual</a></p> <p>User manual for the Mocreo ST5 Temperature Sensor, detailing setup, installation, operation, troubleshooting, and specifications. This wireless sensor monitors temperature in real-time with alerts via email and app notifications.</p>
	<p><a href="#">Mocreo LS1 Temperature Sensors User Manual</a></p> <p>User manual for the Mocreo LS1 wireless temperature sensor, detailing system operation, setup, specifications, precautions, FCC compliance, and warranty information for temperature monitoring in homes, laboratories, and storage facilities.</p>
	<p><a href="#">Mocreo ST4 Temperature Sensor User Manual</a></p> <p>User manual for the Mocreo ST4 Temperature Sensor, providing detailed instructions on setup, installation, operation, troubleshooting, and specifications for remote temperature monitoring in various environments.</p>
	<p><a href="#">MOCREO ST5 Temperature Sensor Kit User Manual and Setup Guide</a></p> <p>Comprehensive user manual for the MOCREO ST5 Temperature Sensors Kit, detailing setup, installation, app usage, troubleshooting, and warranty information for real-time temperature monitoring.</p>



	<a href="#">MOCREO ST5-H2 Wireless Temperature Sensor Kit User Manual</a> User manual for the MOCREO ST5-H2 Wireless Temperature Sensor Kit, detailing setup, specifications, features like email/app alerts, and troubleshooting for monitoring temperature in refrigerators, freezers, and other environments.
	<a href="#">MOCREO ST4 Temperature Sensor User Manual and Specifications</a> User manual for the MOCREO ST4 temperature sensor, detailing its features, specifications, setup, installation, and troubleshooting. Includes information on its waterproof probe, cloud connectivity, and operating range.

Documents - MOCREO – LS1



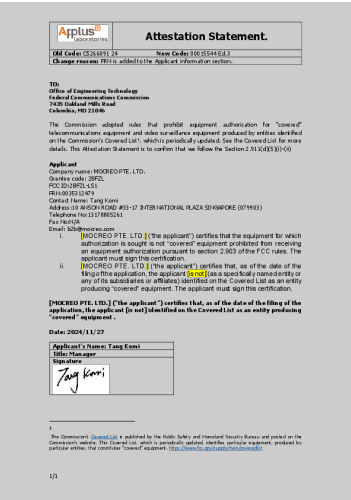
[Mocreo LS1 Temperature Sensors User Manual](#)

User manual for the Mocreo LS1 wireless temperature sensor, detailing system operation, setup, specifications, precautions, FCC compliance, and warranty information for temperature monitoring in homes, laboratories, and storage facilities.  
lang:en **score:42** filesize: 1.09 M page\_count: 1 document date: 2024-11-08



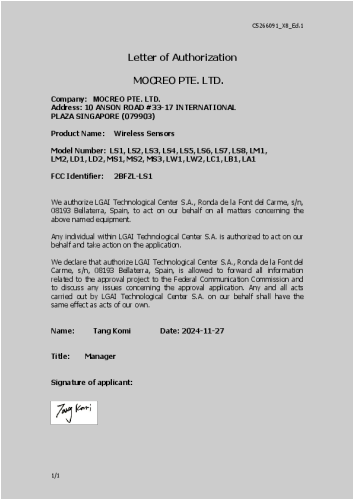
[\[pdf\] Decleration of Conformity](#)

Model difference doc Administrator Family declaration MOCREO PTE LTD LS1 2BFZL 2BFZLLS1 ls1  
MOCREO PTE. LTD. Product Similarity Declaration Product name:Wireless Sensors  
Model name: **LS1**, LS2, LS3, LS4, LS5, LS6, LS7, LS8, LM1, LM2, LD1, LD2, MS1, MS2, MS3, LW1, LW2, LC1, LB1, LA1 FCC ID:2BFZL-**LS1** We MOCREO PTE. LTD. hereby state that all the models are electrical identical including th...  
lang:tl **score:32** filesize: 77.43 K page\_count: 1 document date: 2024-11-29



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Microsoft Word 00015544 Annex docx Attestation Statement MOCREO PTE LTD LS1 2BFZL 2BFZLLS1 ls1  
Attestation Statement. Old Code: C5266091 24 New Code: 00015544 Ed.3 Change reason: FRN is added ... n 2.911 d 5 i - ii Applicant Company name: MOCREO PTE. LTD. Grantee code: 2BFZL FCC ID:2BFZL-**LS1** FRN:0035312479 Contact Name: Tang Komi Address:10 ANSON ROAD #33-17 INTERNATIONAL PLAZA SINGA...  
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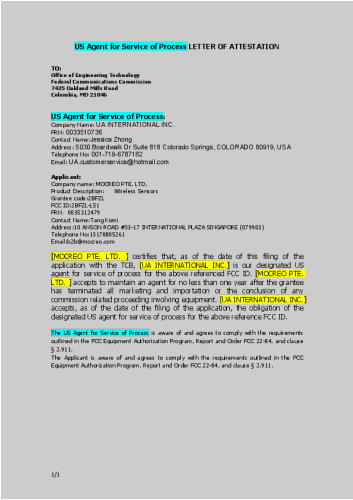


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C5266091 X8 Letter of Authorization Agent v1 docx Administrator MOCREO PTE LTD LS1 2BFZL 2BFZLLS1 Is1

C5266091\_X8\_Ed.1 Letter of Authorization MOCREO PTE. LTD. Company: MOCREO PTE. LTD. Address: 10 ANSON ROAD #33-17 INTERNATIONAL PLAZA SINGAPORE 079903 Product Name: Wireless Sensors Model Number: **LS1**, LS2, LS3, LS4, LS5, LS6, LS7, LS8, LM1, LM2, LD1, LD2, MS1, MS2, MS3, LW1, LW2, LC1, LB1, LA1 FC...

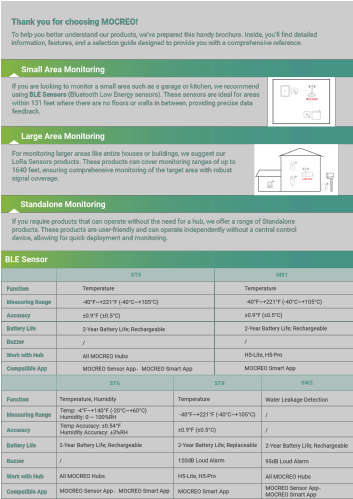
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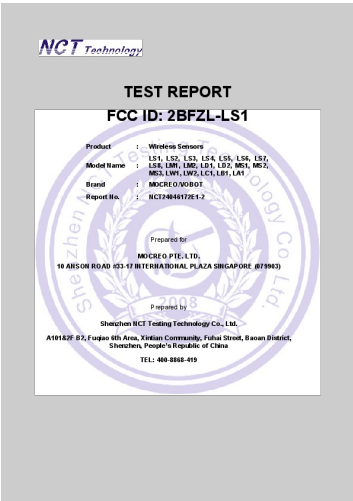
C5266091 X23 Ed2 US Agent docx Administrator MOCREO PTE LTD LS1 2BFZL 2BFZLLS1 Is1 US Agent for Service of Process LETTER OF ATTESTATION TO: Office of Engineering Technology Federal C ... ompany name: MOCREO PTE. LTD. Product Description: Wireless Sensors Grantee code:2BFZL FCC ID:2BFZL-**LS1** FRN0035312479 Contact Name:Tang Komi Address:10 ANSON ROAD #33-17 INTERNATIONAL PLAZA SINGAPORE ...

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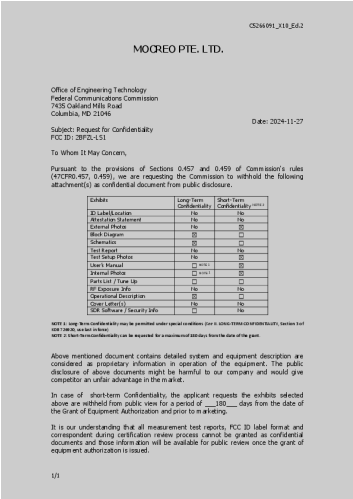
MOCREO Product Comparison v1 0 doc mocreo â resources product comparison How t Ensuring Vaccine Safety Advanced Monitoring for Optimal Storage Temperature Controller ST7 CL 16 3 2025 — If you are looking to monitor a small area such as garage or kitchen we recommend using BLE Sensors Bluetooth Low Energy sensors Thank choosing MOCREO! To help better understand our products 39 ve prepared this handy brochure Inside ll find detailed information features and selection guide designed provide with comprehensive reference Always Connected LoRa Hub H5 Pro Can You Verify if the Freezer s Automatic Defrost Feature Is Working Properly ST5 MS1 Large Area Standalone handy ||| Thank you for choosing MOCREO To help you better understand our products, we ve prepared this handy ... 200C 1.8F 2-Year Battery Life; Rechargeable / All MOCREO Hubs MOCREO Sensor AppaMOCREO Smart App **LS1** Temperature -0.4F- 131F - 18- 55C 0.9F 0.5C 2-Year Battery Life;Replaceable H5-Pro MOCREO Sma... lang:en score:31 filesize: 2.48 M page\_count: 2 document date: 2025-03-14



[FCC Test Report for MOCREO/VOBOT Wireless Sensors \(FCC ID: 2BFZL-LS1\)](#)

This document is an FCC test report for MOCREO/VOBOT Wireless Sensors, model LS1 and series models, FCC ID: 2BFZL-LS1. It details conducted and radiated emissions, bandwidth, and frequency tolerance tests performed by Shenzhen NCT Testing Technology Co., Ltd.

lang:en score:29 filesize: 1.18 M page\_count: 29 document date: 2024-12-03



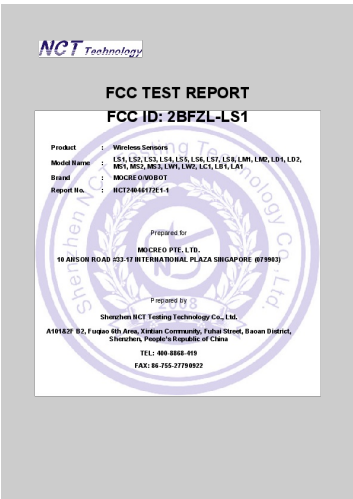
[\[pdf\] Confidentiality Request Letter](#)

C5266091 X10 Ed2 Request for Confidentiality1 Long docx Administrator Confidentiality MOCREO PTE LTD LS1 2BFZL 2BFZLLS1 Is1

MOCREO PTE. LTD. C5266091\_X10\_Ed.2 Office of Engineering Technology Federal Communications Commission 7435 Oakland Mills Road Columbia, MD 21046

Subject: Request for Confidentiality FCC ID: 2BFZL-LS1 Date: 2024-11-27 To Whom It May Concern, Pursuant to the provisions of Sections 0.457 and 0.459...

lang:en score:29 filesize: 158.54 K page\_count: 2 document date: 2024-11-29



[\[pdf\] Declaration of Conformity Test Report](#)

NCT24046172E1 1 FCC ID BLE report doc Administrator Test MOCREO PTE LTD LS1 Wireless Sensors 2BFZL 2BFZLLS1 Is1

FCC TEST REPORT FCC ID: 2BFZL-LS1 Product Model Name Brand Report No. : Wireless Sensors : LS1, LS2, LS3, LS4, LS5, LS6, LS7, LS8, LM1, LM2, LD1, LD2, MS1, MS2, MS3, LW1, LW2, LC1, LB1, LA1 : MOCREO/VOBOT : NCT24046172E1-1 Prepared for MOCREO PTE. LTD. 10 ANSON ROAD #33-17 INTERNATIONAL PLAZA...

lang:en score:28 filesize: 815.68 K page\_count: 31 document date: 2024-12-03


MOCREO PTE LTD  
Address 10 ANSON ROAD #33-17  
INTERNATIONAL PLAZA SINGAPORE (079903)

Inverted F Antenna Specification

Summary

ITEM	ANT SPEC				
Model Name	2.4G ANT				
Center Frequency	Horizontal		Vertical		
	2400MHz	2450MHz	2500MHz	2400MHz	2500MHz
MAX. Gain	Horizontal		Vertical		
	-1.26	-0.76	-0.58	-1.25	-1.46
Impedance	50 Ohm				
Antenna Beam Pattern	Omni-directional				
Impedance	50 Ohm				
Manufacturer	MOCREO PTE LTD				

Antenna Photo & Length (mm)



[pdf] Specifications Declaration of Conformity

Microsoft Word Inverted F Antenna Specification doc Administrator MOCREO PTE LTD LS1 Wireless

Sensors 2BFZL 2BFZLLS1 Is1

MOCREO PTE. LTD. Address:10 ANSON ROAD #33-17 INTERNATIONAL PLAZA SINGAPORE 079903 Summary ITEM Model Name Center Frequency MAX. Gain Polarization Azimuth Beam Pattern Impedance Inverted F Antenna Specification ANT SPEC 2.4G ANT Horizontal Vertical 2400MHz 2450MHz 2500MHz 2400MHz 2450MHz 250...

lang:fr score:25 filesize: 1.63 M page\_count: 3 document date: 2024-12-04

FCC ID:2BFZL-LS1

RF Exposure Evaluation

According to KDB 447498 D01 General RF Exposure Guidance v06 and part 2.1093. Unless specifically required by the published RF exposure KDB procedures, standalone 1-g head or body and 10-g extremity SAR evaluation for general population exposure conditions, by measurement or numerical simulation, is not required when the corresponding SAR Test Exclusion Threshold conditions, listed below, is (are) satisfied.

For 100 MHz to 6 GHz and test separation distances  $\leq 5$  mm the 1-g and 10-g SAR test exclusion thresholds are determined by the following:  
 $E_{max}$  = power of channel, including time-up tolerance, mW / (mm test separation distance, mm)  
 $E_{ave}$   $\leq 3$  for 1-g SAR, and  $\leq 7.5$  for 10-g extremity SAR, where  
 $f_{channel}$  is the RF channel transmit frequency in GHz.  
Power and distance are rounded to the nearest mW and mm before calculation.  
The result is rounded to one decimal place for comparison.

Here,

Mode	Frequency (MHz)	Max Power (dBm)	Target power tolerance (dBm)	Measurement tolerance (dBm)	Max Power (mW)	Min. Distance (mm)	SAR Threshold	Limit	
BLE	GFSK	2402	0.2	0.0 1.0	1	1.259	0.00	0.360	3.0
		2440	0.29	0.0 1.0	1	1.259	0.00	0.360	3.0
		2480	0.12	0.0 1.0	1	1.259	0.00	0.360	3.0
Lora	GFSK	915	-4.00	0.0 1.0	-4	0.360	0.00	0.120	3.0

Remarks:  
1.  $ERP = E_{max} \times 20 \log(f_{channel}) - 104.7$   
ERP is the equivalent isotropically radiated power, in dBm  
 $E_{max}$  is the field strength of the emission at the measurement distance, in dBu/m  
 $d_{max}$  is the measurement distance, in m  
So  $ERP = 90.51 + 20 \log(f_{channel}) - 104.7$   
 $\leq -4.65$  dBm  
2. BT Antenna gain is -0.58 dB, Lora (915MHz) Antenna gain is 3 dBi  
3. BT and Lora can transmit at the same time  
4. In the case of simultaneous launches for Lora and BT:  
The Max Calc. Thresholds: BT: 0.367, Lora: 0.123  
BT and Lora: 0.2973+0.1232=0.4205  
So a SAR test is not required.

[pdf] Declaration of Conformity SAR Rating

FCC MPE doc Administrator MOCREO PTE LTD LS1 2BFZL 2BFZLLS1 Is1

FCC ID:2BFZL-LS1 RF Exposure Evaluation According to KDB 447498 D01 General RF Exposure Guidance v06 and part 2.1093 Unless specifically required by the published RF exposure KDB procedures, standalone 1-g head or body and 10-g extremity SAR evaluation for general population exposure conditions, by ...

lang:en score:20 filesize: 121.73 K page\_count: 1 document date: 2024-12-04

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1. 100 MHz to 6 GHz

2. 100 MHz to 6 GHz

3. 100 MHz to 6 GHz

4. 100 MHz to 6 GHz

5. 100 MHz to 6 GHz

6. 100 MHz to 6 GHz

7. 100 MHz to 6 GHz

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NCT24046172E1 1 FCC ID BLE report Appendix data docx Administrator MOCREO PTE LTD LS1

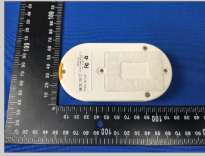
Wireless Sensors 2BFZL 2BFZLLS1 Is1

Table of Contents 1. -6dB Bandwidth ..... 13 FCC ID:2BFZL-LS1 FCC\_BLE Part15.247 Test Data 1. -6dB Bandwidth Condition NVNT NVNT NVNT Antenna ANT1 ANT1 AN...

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External Photos

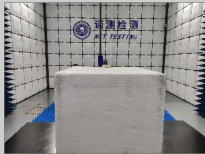
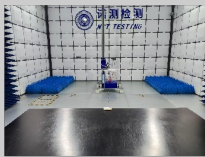


[\[pdf\]](#) Decleration of Conformity Product Photos

External EUT photos doc Administrator MOCREO PTE LTD LS1 2BFZL 2BFZLLS1 Is1

External Photos ...

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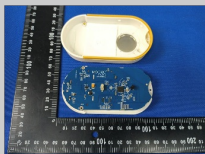
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Test Photo doc Administrator photo MOCREO PTE LTD LS1 2BFZL 2BFZLLS1 Is1

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Internal Photos



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Internal EUT photos doc Administrator MOCREO PTE LTD LS1 2BFZL 2BFZLLS1 Is1

Internal Photos BLE Antenna LoRa Antenna ...

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红心天线

ISO

通过 ISO9001 质量管理体系认证

证书编号: 202301019001

Shenzhen Red Heart technology Electronics Co., LTD

深圳市红心科技电子有限公司

产品承认书

SPECIFICATION FOR APPROVAL

公司名称:

Product:

915 Spring Antenna

Model:

HX-TH915-2481-AZLH

客户料号:

规格:

详见规格书

日期:

2024-09-25

客户回签:

工程 部	品质 部	批准

深圳市红心科技电子有限公司:

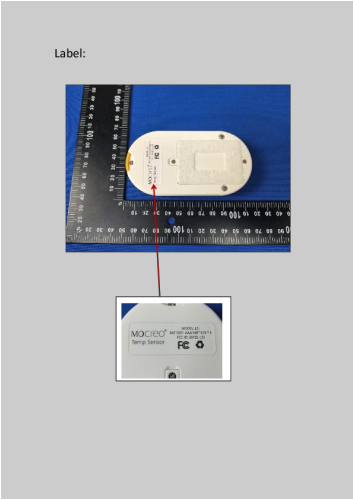
工程 部	品质 部	批准
庄伟峰	张欢	刘卢

电话: 0755-21091219 官网: <http://www.hxsf-antenna.com/>  
地址: 深圳市福田区梅林街道梅东社区梅兰社区第二工业区 C14 栋内第 2 楼  
Floor 2/F, Meishan Building C14, E14, 4th Industrial Zone,  
Gaoping Community, Meishan Street, Bantao District, Shenzhen

[Shenzhen Red Heart Technology Electronics Co., LTD - 915 Spring Antenna Specification](#)

Product specification for the 915 Spring Antenna (Model: HX-TH915-2481-AZLH) from Shenzhen Red Heart Technology Electronics Co., LTD. Includes technical parameters, performance data, and dimensional drawings.

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[\[pdf\] Label](#)

Label docx Administrator ID label and location MOCREO PTE LTD LS1 Wireless Sensors 2BFZL 2BFZLLS1 Is1

Label: ...

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