



# MINEW MST03 Asset Temperature Logger Owner's Manual

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**MINEW MST03 Asset Temperature Logger**



## Product Usage Instructions

- To power on the device, press the button for 3 seconds until the blue light turns on.

## Precautions

- Certifications: CE and FCC ID can be provided upon request.
- For other certifications, please contact the manufacturer.

## FAQ

Q: How do I power on the Asset Temperature Logger?

A: Press the button for 3 seconds until the blue light turns on.

Q: What is the recommended operating temperature for the device?

A: The recommended operating temperature is between -30°C to 60°C.

Q: What is the service life of the battery?

A: The battery has a service life of 2 years under default settings.

Q: How many temperature data points can be stored in the device?

A: The device can store up to 6000 temperature data points.

Q: Is the device waterproof and dustproof?

A: Yes, the device has an IP67 rating, making it waterproof and dustproof.

Q: How can I access the temperature data reports?

A: The temperature data reports can be accessed in PNG and CSV formats.

Q: What is the warranty period for the product?

A: The warranty period is 12 months from the date of shipping, excluding the battery and other accessories.

## MST03 Asset Temperature Logger



### Product Overview

MST03 is a movable asset temperature logger designed by Minew mainly for application scenarios including logistics, cold chain, healthcare, warehouse, food, museums, etc., to realize asset temperature measurement and location tracking during asset transportation or storage. Built with a low-power Bluetooth chip and sensors, it can not only achieve temperature measurement all day but also receive temperature alerts by configuring the normal-temp or low-temp alert range. Additionally, the asset temperature logger can store up to 60000 series temperature data, and users can export the data report supported PNG or CSV format, which can be regarded as a dataproof during the logistic transportation.

### Key Features

- Real-time Temperature Measurement
- Temperature Alert Record
- Asset Location Application
- 6000 Temp Data Storage
- IP67 Waterproof & Dustproof
- 2 Years Service Life
- PNG & CSV Temp Report
- Batch Devices Management

### Product Specifications

#### Basic Parameters

Color	White customizable
Size(L * W * H)	48.8*29.6*4.9 mm
Weight	6.8 g
Resistance	IP 67
Battery	Coin battery, 210 mAh, unreplaceable
Service Life	2 years default setting

Temperature Measurement Options	Temperature sensor Or thermistor
Flash	Yes
Button	Yes
LED	1*Red & 1*blue
OTA	Yes
Configuration App	MSensor iOS & Android system supported
Deployment Recommended	Double-side adhesive, Ziplock bags Optional
Device Operating Temperature	-30 °C ~ 60 °C
Device Password	minewtech1234567 (default)
Others	Accelerometer optional

## Technical Parameters

Chip	nRF52 series
Bluetooth Version	Bluetooth® LE 5.0
Transmit Power	-40 ~ +4 dBm, default 0 dBm
Broadcast Interval	100 ms ~ 5 s, default 5 s
Broadcast Range	Normal-temp environment: 85 m (open area) Low-temp environment: 35 ~ 85 m (open area)
App Connection Distance	Normal-temp environment: 10 m Low-temp environment: 5 – 10 m
Temp Measurement Period	Period: 5 s ~ 24 h, default 10 s
Sensor Measurement Accuracy	-30 °C ~ 40 °C $\pm 0.1$ °C~0.3 °C (Temperature Sensor / $\pm 0.5$ °C (Thermistor
Temp Measurement Delay	Default 5 mins
Temp Measurement Range	Low-temp version: -30 °C ~ 60 °C (default) Normal-temp version: -10 °C ~ 60 °C optional
Temp Alert Range	High-temp Range: 0 °C ~ 50 °C default: 5 °C ~ 40 °C Low-temp Range: -30 °C ~ -1 °C default: -25 °C ~ -5 °C
Temp Data Storage	Up to 60000 series
Temp Report Types	PNG, CSV

**Note:** Please contact our sales team for more device information.

## Device Operations

- **Power-on:** Press the button for 3 seconds until the blue light on.
- **Power-off:** Only can be turned off through the MSensor App, and the red light will shine 5 times.
- **Battery level:** View the battery condition through the MSensor App.

## Device Operating Condition

- After device activation, press the button until the blue light on indicates the device is working normally.

## Temperature Alert

- When detecting an abnormal temperature, the red light of the device will shine for 15 seconds. And the temperature alerts can be viewed through the MSensor App.

## Parameter Configurations

- Users can realize parameter configurations, including broadcast, sensors, etc., through the MSensor App.

## Temperature Report

- The PNG or CSV report can be exported by the MSensor App.

**Note:** Please contact our sales team for more operation information.

## Precautions

1. It is recommended not to use higher broadcast power and a smaller broadcast interval to ensure service life.
2. The device is shipped off by default, users can configure the broadcast and sensor parameters through the MSensor.
3. Do not connect the device often through MSensor App to ensure service life.
4. Do not use the product beyond the normal working temperature or under extreme temperatures for a long time to cause product damage. It is recommended that the product be stored at room temperature (20 °C ~ 35 °C).
5. With the increased frequency of use, the sensor's measurement accuracy will be affected.
6. Please do not tear the product shell to affect its waterproof ability or even cause product damage.
7. Please do not install the product again and again after using double-sided tape deployment to affect the adhesion of the double-sided tape.
8. Although the product has a certain waterproof performance, because of the special nature of the product material, it is not recommended to use the device in the underwater environment directly or for a long time to cause product damage.
9. If using the device for food or fresh food tracking, it is recommended to contact our sales team to further communicate the deployment method.
10. When the product is used, please pay attention to avoiding direct sunlight for a long time to avoid the aging of the shell.

## Certifications



**Note:** CE and FCC ID can be provided upon request. If other certifications are needed, please contact us.

## FCC STATEMENT

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

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.



**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 under 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:

- Reorient or relocate the receiving antenna.
- 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.

To maintain compliance with FCC's RF Exposure guidelines, This equipment should be installed and operated with a minimum distance between 20cm between the radiator and your body: Use only the supplied antenna.

## Packaging information

Items	Inner carton(battery included)	External box(battery included)
Pictures		
Quantities	70 pcs	700 pcs
Gross weight (with accessories )	549 g	5.6 kg
Sizes	30.5 × 11 × 7.2 cm	32 × 23.5 × 40 cm

## Quality Assurance

- The factory has already obtained the certification of ISO9001 Quality System. Each product has been strictly tested (tests include transmission power, sensitivity, power consumption, stability, aging, etc.).
- **Warranty Period:** 12 months from the date of shipping (Battery and other accessories excluded).

## Declarations

### Statement of Rights






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## Disclaimer


Minew team reserves the right to the final explanation of the document and product differences. And it is not responsible for liability of property or personal injury with the wrong operation if users develop related products without checking the technical specifications of this manual.

## Contact Information


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## Documents / Resources

	<a href="#">MINEW MST03 Asset Temperature Logger</a> [pdf] Owner's Manual MST03, 2ABU6-MST03, 2ABU6MST03, MST03 Asset Temperature Logger, Logger, Temperature Logger, MST03 Temperature Logger, Asset Temperature Logger
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## References

-  [Bluetooth Beacon, Sensor & IoT Gateway Original Manufacturer](#)
-  [IoT Device Shop: BLE Beacon, Bluetooth LoRa Gateway Sensor](#)
- [User Manual](#)

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

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