DSHT ENVIRONMENTAL MONITORING

Bluetooth Temperature and Humidity Data Logger

Fast Bluetooth download
One-tap PDF reports



60 × 60 × 16 mm

Free apps on three platforms · OEM customization

Cold-chain logistics / Cold storage / Retail freezers

01 DOWNLOAD AND REPORTS

Fast Bluetooth download
One-tap PDF reports

Move from field readings to an archived report on your phone, with less transcription and manual preparation.

01
Connect

Stop logging, wake the device and connect in the app.

02
Download

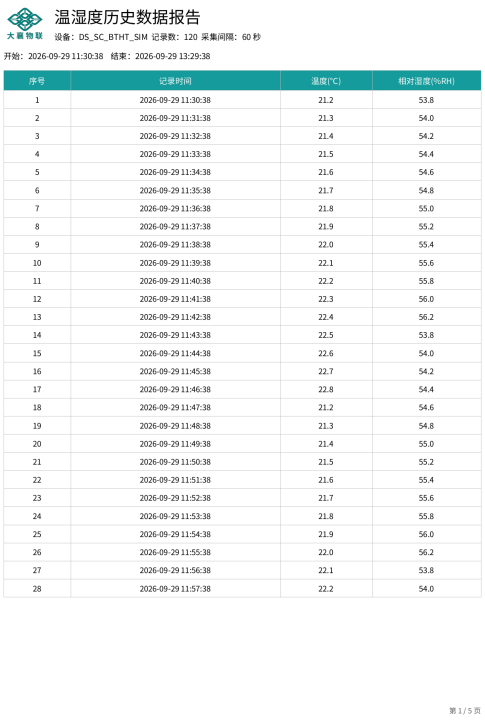
Retrieve local records by Bluetooth and view progress.

03
Review

Browse temperature and humidity record details.

04
Create PDF

Quickly generate a PDF for saving, handover and archiving.



温湿度历史数据报告

大襄物联 设备：DS_SC_BTHT_SIM 记录数：120 采集间隔：60 秒

开始：2026-09-29 11:30:38 结束：2026-09-29 13:29:38

序号	记录时间	温度(°C)	相对湿度(%RH)
1	2026-09-29 11:30:38	21.2	53.8
2	2026-09-29 11:31:38	21.3	54.0
3	2026-09-29 11:32:38	21.4	54.2
4	2026-09-29 11:33:38	21.5	54.4
5	2026-09-29 11:34:38	21.6	54.6
6	2026-09-29 11:35:38	21.7	54.8
7	2026-09-29 11:36:38	21.8	55.0
8	2026-09-29 11:37:38	21.9	55.2
9	2026-09-29 11:38:38	22.0	55.4
10	2026-09-29 11:39:38	22.1	55.6
11	2026-09-29 11:40:38	22.2	55.8
12	2026-09-29 11:41:38	22.3	56.0
13	2026-09-29 11:42:38	22.4	56.2
14	2026-09-29 11:43:38	22.5	53.8
15	2026-09-29 11:44:38	22.6	54.0
16	2026-09-29 11:45:38	22.7	54.2
17	2026-09-29 11:46:38	22.8	54.4
18	2026-09-29 11:47:38	21.2	54.6
19	2026-09-29 11:48:38	21.3	54.8
20	2026-09-29 11:49:38	21.4	55.0
21	2026-09-29 11:50:38	21.5	55.2
22	2026-09-29 11:51:38	21.6	55.4
23	2026-09-29 11:52:38	21.7	55.6
24	2026-09-29 11:53:38	21.8	55.8
25	2026-09-29 11:54:38	21.9	56.0
26	2026-09-29 11:55:38	22.0	56.2
27	2026-09-29 11:56:38	22.1	53.8
28	2026-09-29 11:57:38	22.2	54.0

第 1 / 5 页

Sample PDF generated by the app

Convenient data access

Download close to the device and reduce manual transcription in the field.

Ready for handover

Turn record details into a PDF for inspection files and business handovers.

Download and report-generation time varies with record count, phone performance and radio conditions. The app demo uses sample data and is not a speed measurement.

02 FREE COMPANION APPS

Free apps on three mobile platforms

Android, iOS and HarmonyOS apps are provided free for device setup, Bluetooth downloads and PDF reports.

Android · iOS · HarmonyOS



Record download



Record details



PDF report entry

Device setup · Bluetooth download · PDF reports · FOTA

Demo of the shared Android/iOS app interface, using sample data and settings, not a live Bluetooth measurement. Standard screens and reports are currently in Chinese; languages can be customized through OEM. Interfaces vary by platform and version.

03 CONTINUOUS LOGGING

Low-power sleep Long-term records

Reduce idle energy use and retain long logging runs in local memory.

44,748

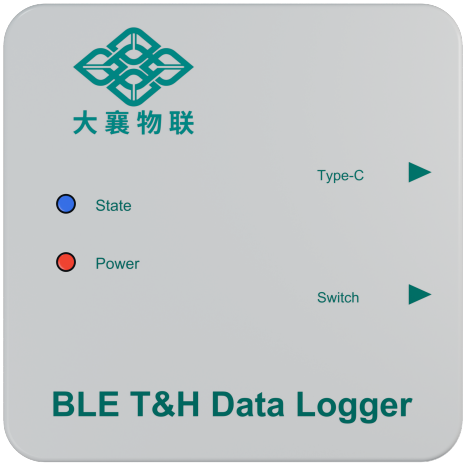
records in local memory

20 s

default interval

10.36

days of storage*



Low-power architecture

A 2000 mAh battery works with sensor and MCU sleep to reduce idle energy use and support long standby periods.

Intervals in seconds

Configure intervals from 5 to 65,535 seconds, with a 20-second default. Settings are saved to the device while logging is stopped.

44,748-record capacity

Store approximately 10.36 days of readings at a 20-second interval. The device logs independently until a phone retrieves the data.

Cold-condition testing

A room-to-cold sample test captured 3,281 temperature and humidity records, with a lowest reading of −27.7°C.

10.36 days is storage coverage, not battery life. −27.7°C is the lowest recorded value in the sample test, not a rated operating limit. Battery life depends on battery configuration, temperature, sampling and wireless activity.

04 APPLICATIONS

Record conditions Across the cold chain

One logger for environmental records and handovers at different stages.



Cold-chain logistics

Records that travel with the goods

Place the logger near goods in an insulated package or reusable container. Retrieve records on arrival to review temperature changes and exception periods.



Cold storage

Track storage locations

Deploy by location and retrieve data during routine inspections. Review the effects of door openings, defrosting and stock movement.



Retail freezers

Understand in-cabinet trends

Record at representative positions and review temperature trends associated with restocking, door openings and refrigeration cycles.

Keep vents clear. Avoid direct contact with liquids, condensation or strong cold-air outlets.

05 SECURITY AND MAINTENANCE

Keep the data
Keep the device current

Designed around data management, practical maintenance and supply continuity.

Local data management

The device retains readings and the app creates reports for archiving within your workflow.

Signed firmware updates

App-based FOTA uses SHA-256 integrity checks and P-256 signature verification to authenticate firmware and reduce unauthorized installation risk.

Updates wait for logging

Firmware updates are deferred while logging is active, so the current task can finish before maintenance.

Domestic core components

Controller, sensor and charging-management ICs from Chinese suppliers work with in-house application firmware to support sourcing, maintenance and ongoing development.

SHA-256 / P-256 / FOTA

For updates, maintain stable power, keep the phone near the device and leave the app in the foreground.

06 OEM CUSTOMIZATION

Your brand
Your app and reports

Align product identity, mobile branding and report delivery around the same logger platform.

01 Product branding

Customize your company logo, brand name and product markings for a consistent identity.

02 App customization

Customize the app name, logo, visual branding and business requirements, with scope agreed for the project.

03 PDF report customization

Customize report logos, titles, fields and layout to match your archiving and handover requirements.

1 Share requirements and references

2 Agree scope and sample layouts

3 Validate samples and confirm versions

The standard companion apps are free. OEM development, branding and report customization fees, minimum quantities, lead times and acceptance criteria are agreed by project.

07 PRODUCT DETAILS

Compact hardware Practical deployment

Set the interval for the task and use the app to configure, retrieve and update.

Product	DSHT Bluetooth Temperature and Humidity Data Logger
Dimensions	60 × 60 × 16 mm; 16 mm at the thickest point
Recorded data	Temperature, relative humidity and time information
Record capacity	44,748 records; about 10.36 days at 20 seconds
Wireless	Bluetooth Low Energy
Logging interval	5–65,535 seconds; 20-second default
Controls	Side button, status indicator and power indicator
Battery and charging	2000 mAh; approximately 1-hour charging
Port	USB-C fast charging
Companion apps	Android, iOS and HarmonyOS; standard apps free
Reports and OEM	One-tap PDF; product, app and report customization
Maintenance	App-based FOTA firmware updates
Applications	Cold-chain logistics, cold storage and retail freezer monitoring

Charging time varies with initial battery level, adapter and temperature. After cold use, return to the battery permitted charging temperature and ensure the device is dry. Rated range, accuracy, ingress protection and battery life depend on configuration and validation.

Environmental records for every stage of the cold chain.

08 STANDARD OEM INQUIRY

OEM inquiry form

Complete the items you know and mark open points “To discuss”. Copy this page or fill in the editable Word version, then submit by email or WeChat.

To liuhuali@doesiot.com

01 Contact and company	Company / name / role / email / phone
02 Market and language	Destination / app languages / PDF report languages
03 Quantities	Samples / first order / estimated annual volume
04 Use and environment	Logistics, storage or freezer / temperature / humidity and condensation
05 Logging requirements	Temperature or T&H; / interval / duration of each logging task
06 Customization scope	Product branding / app / PDF reports; circle and describe
07 App and report details	Mobile platforms and workflow / report fields, logo and layout
08 Schedule and compliance	Requested date / delivery location / certifications and testing
09 Attachments	Logo source / brand guide / report sample / app references or requirements
10 Quotation coverage	Samples, production, development, packaging, testing, freight / currency / Incoterm if applicable

Provide brand assets you are authorized to use. Specifications, pricing, quantities, lead times and compliance scope are subject to the agreed quotation and technical documents.

09 CONTACT AND COOPERATION

From requirements to samples and delivery

Send the completed OEM inquiry form and reference files so we can confirm configuration, customization scope and the information needed for a quotation.

01

Discuss requirements

Confirm use, environment, quantities and branding.

02

Scope and quotation

Define configuration, customization and quotation coverage.

03

Samples and validation

Review the product, app and reports against agreed criteria.

04

Confirm and deliver

Agree final versions, delivery plans and acceptance.

Wuxi Does IOT Co.,Ltd

A China-based supplier of industrial sensors and data acquisition equipment, with an in-house engineering team and manufacturing partners in the Yangtze River Delta.

Sales and OEM inquiries

liuhuali@doesiot.com

Contact on WeChat

Suggested subject: DSHT OEM Inquiry | Company | Destination