AWS Cloud Data Logger

XH13

- Cloud storage for logged data, accessible anytime
- Compatible with XHLogger App
- Stores up to 79,800 temperature and humidity records
- User-friendly PC software (DLV) for easy operation
- Supports multiple customizable configurations
- Equipped with a 1500mAh rechargeable battery
- No cloud data usage fees under normal operation
- LCD display included
- MKT (Mean Kinetic Temperature) calculation supported

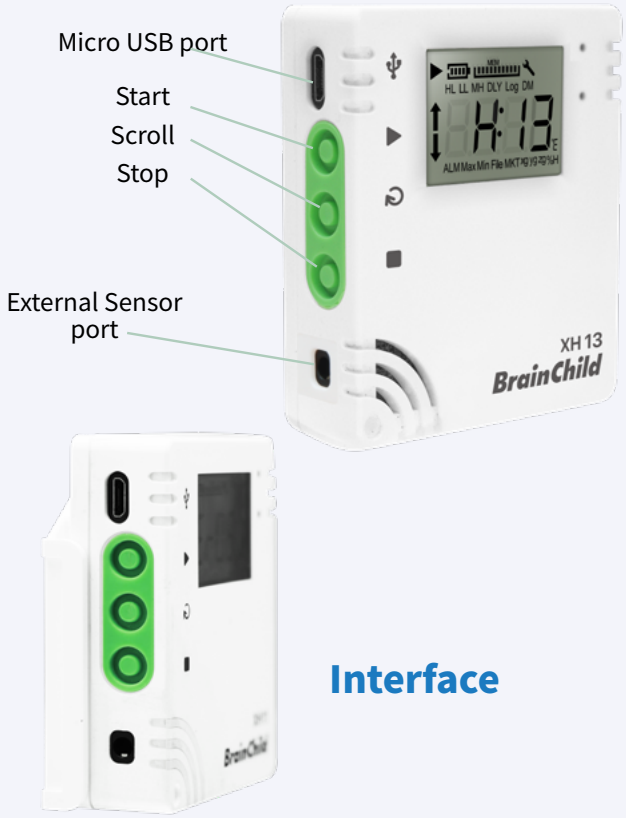
AWS Cloud Data Logger

XH13

Real-time Temperature & Humidity Monitoring

The XH13 AWS Cloud Data Logger is purpose-built for applications in logistics, manufacturing, storage, biotech, and healthcare—making it easy to stay on top of environmental changes.
With Wi-Fi connectivity, data is automatically uploaded to the cloud in real time. Paired with the XHLogger App, remote configuration and data download are both simple and efficient.
In the event of abnormal temperature or humidity levels, the system immediately sends alerts to your mobile device—helping you respond quickly and protect product quality.

- Cloud-based data storage
- LCD display & LED status indicators
- External sensor with 1M or 2M cable
- Intelligent power-saving function
- Auto data recovery after Wi-Fi loss
- USBUSB port for power or charging
- 1500mAh rechargeable battery
- Automatic °C/°F conversion and display
- Monitors temperature, humidity, or both
- Mean Kinetic Temperature (MKT) calculation
- Easy-to-use yet powerful mobile app
- Remote control via IoT
- Adjustable logging interval (10 mins to 24 hrs)
- Customizable start/stop modes
- Instant alerts via mobile app when thresholds are exceeded



Interface

Mounting Plate

Specifications

Power Supply	Dual-mode: USB powered / Rechargeable Li-ion battery		
Interface	micro USB (power/ charging)	**Communication Protocol**	Wi-Fi 2.4G/ HTTP/ AWS MQTT
Software	Mobile App: XH Logger, iOS and Android system Cloud: AWSIOT Webpage online, working with Windows 10 and the above		
Sensor Type	External sensor probe for temperature and humidity		
Sensor Response Time	Temperature >2 seconds; Humidity 8 seconds		
Logging Interval	User configurable from10 minutes to 24 hours		
Temperature range	-10℃ ~60℃ (14 ℉ ~122 ℉)	**Humidity range**	10%RH~90%RH
Display Resolution	0.1 ℃ / 0.1 ℉ / 0.1%	**LCD Operating Range**	-20° C (-4° F) ~60° C (122° F)
Temperature Accuracy	0° C ~ 50° C (±0.3° C), Others ±0.5° C		
Humidity Accuracy	20%~80%@25° C(±3%RH), Others ±5%RH		
Alarm Configuration	High High, High, Low, Low Low	**Time Accuracy**	NTP (Network Time Protocol)
Calibration	Calibration is completed by the original manufacturer		
Internal Memory	Each file can contain maximum79,872 logs, keeping logging and overwritten		
Start Option	Push button, Immediate, At time, Cloud controlled (App/ Webpage account)		
Auto Overwritten	Supported	**Preprogram Option**	User Programmable
Start Delay	Supported, 1 min to 23 hr and 59 min		
Stop Option	Botton; At Time	**Security Lock**	Password Protected
Default File Format	PDF	**Data Export**	PDF, Excel
Dimensions, XH Case	65.1*70*23.25mm	**Weight**	130g (Battery and 1M external sensor included)
Housing	PC540 PC+ABS	**IP Rating**	IP63
XH Warranty	12 months, battery not included		
Battery Type	3.7V/ 1500mA Li-ion, rechargeable Li battery		
Battery Charging Time	Power Supply DC5V/ 1A (≥ 1A). From 0 to 100% around 4 hours		
Battery Charging Cycle	2 to 3 months maximum with fully charged and normal usage		
Temp. During Charging	10° C (50° F) ~45° C (113° F)		
Battery Life	1 year-life @ 10 min. log interval, 1 year-life from the battery original factory		
Battery Warranty	N/A, please contact your dealer for detail		
Accuracy Certificate	Optional feature, available at extra cost		
Certification	CE, RoHS, FCC		

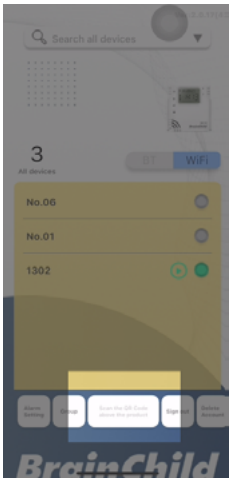
Connect and Go – Smarter Monitoring

Before using the XH13, you must first complete the pairing process with the local Wi-Fi network to ensure seamless connection to cloud services.
Please prepare the Wi-Fi network name (SSID) and password for the installation site, and download the XHLogger App on your smartphone or tablet (compatible with iOS and Android). Then, simply follow the on-screen instructions in the app to complete the pairing process and activate the device’ s cloud functionality.

Step 01

Tap [Register] to create a new account, or tap [Log In] and enter your email and password.

Step 02

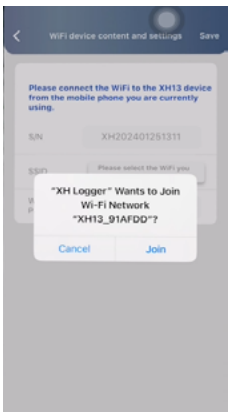


Tap [Scan the QR Code] to add a new XH13 device.

Step 03

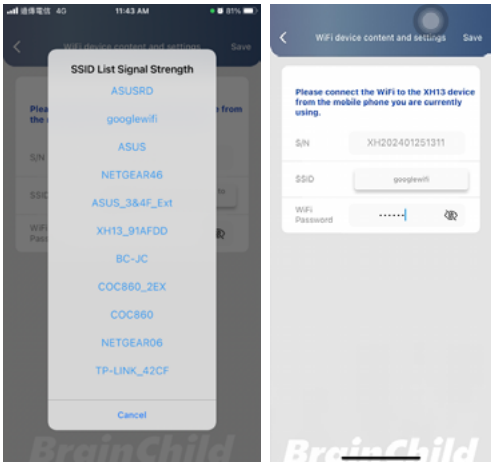
Scan the QR code located on the back of the device cover.

Step 04



When the device’ s serial number (SN) appears as XH13_XXXXXXX in the Wi-Fi list, tap [Join] (iOS) or [Connect] (Android) to proceed.

Step 05



From the list, select your Wi-Fi network (SSID), enter the password, and tap [Save] in the upper right corner.

Step 06

Tap [OK]. The device will be successfully added. Once connected, the XH13 will appear online with a green status indicator.

Manage and Monitor

Smarter Control, Anytime, Anywhere

GET IT ON Google Play

Download on App Store

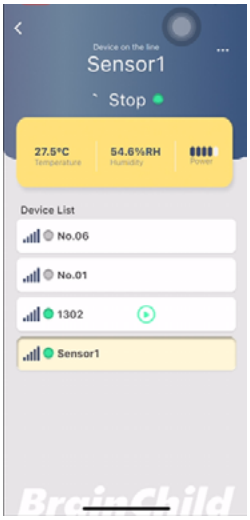
To ensure real-time and reliable transmission of temperature and humidity data, as well as efficient remote management, BrainChild’ s development team has independently created the XHLogger App and a dedicated web-based management platform.
By leveraging the robust cloud computing power of AWS, we deliver a complete and flexible user experience.

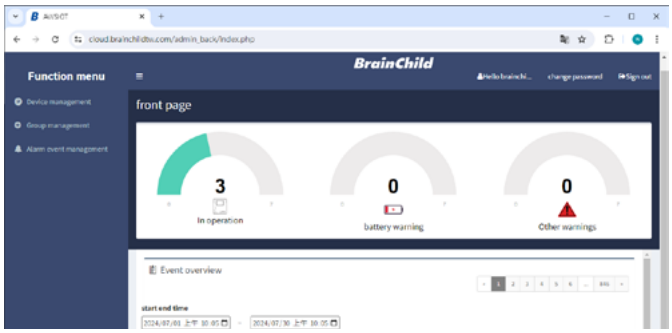
Through the XHLogger App, users can quickly pair devices, configure settings, and receive instant alerts directly on their smartphones.
Paired with the web-based cloud platform, users can perform advanced operations such as managing multiple devices, accessing historical data, and exporting reports.

Whether for personal environmental monitoring, laboratory management, or large-scale enterprise applications, the XH13 offers smart, cross-platform, multi-screen monitoring to meet a wide range of needs.

Receive real-time temperature and humidity updates directly on your smartphone.
In the event of any abnormal conditions, the system immediately sends push notifications, allowing users to stay informed and respond quickly to critical changes.

Instant Push Notifications



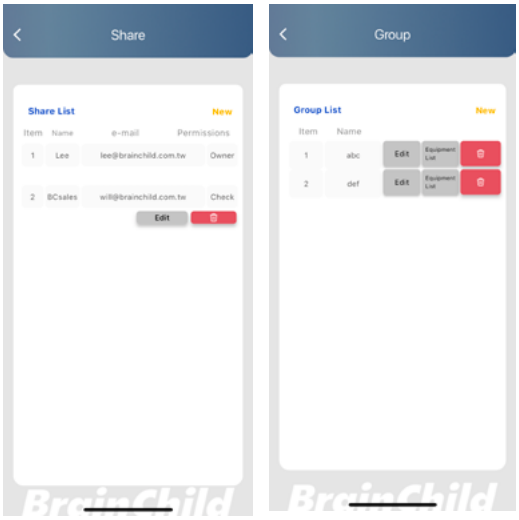


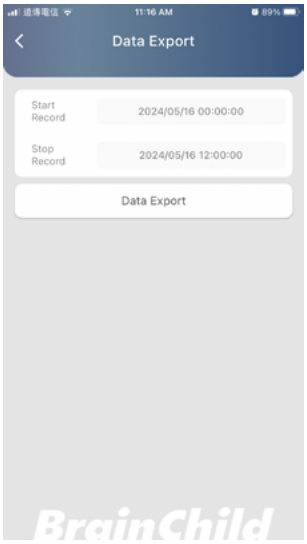
Monitoring Efficiency
The web-based management platform supports Responsive Web Design (RWD), ensuring compatibility with various screen sizes.
It provides a larger interface and comprehensive monitoring information, making it ideal for multi-location monitoring applications such as warehouses and factories.

Responsive Web Monitoring

The system supports device sharing, enabling multiple users to monitor devices simultaneously.
The main account can assign different permission levels to users and organize devices by shelf, area, or department—greatly enhancing monitoring flexibility and overall management efficiency.

Flexible Sharing and Group Management





Both the mobile app and web platform allow users to view and download reports and trend charts.
The web version also supports simultaneous analysis of multiple device charts.
All data is automatically uploaded to the cloud, and the devices feature a data-cycling function, eliminating concerns about memory capacity.

Cloud Storage and Data Access

Application Industries:
Smart Warehousing / Raw Material Storage for Food Factories / Biotechnology Industry / Medical Equipment Monitoring / Vaccine Storage / Culture Strain Incubation / Temperature and Humidity Mapping / Museum and Art Gallery Collection Preservation.

Why Choose the XH13?

The XH13 offers an efficient and flexible solution for real-time temperature and humidity monitoring.With Wi-Fi connectivity and direct uploads to the AWS cloud, users can check site conditions anytime, anywhere, and centrally manage distributed data—boosting operational efficiency and transparency.

Designed for quick deployment, the XH13 is ideal for temporary or short-term monitoring needs.

No complex wiring is required; once paired, the device immediately starts recording, enabling fast setup and agile response.

For businesses requiring long-term data retention, the XH13 ensures stable performance with automatic cloud backups and easy historical data access—supporting ESG audits, quality traceability, and compliance demands.

The device includes an AWS cloud data quota, covering typical usage without additional costs.For higher-frequency or large-volume data applications, please contact us for tailored traffic plans.

Applications

High-value crop cultivation monitoring

Storage Monitoring for Temperature-Sensitive Products

Temperature and Humidity Monitoring for Museum/Exhibition Artifacts

Pets in the house while everyone is out.

Self-Storage Unit

Delivery Transportation

BrainChild

Ontario (Head Office)
212 Watline Ave
Mississauga ON, L4Z 1P4
T: (905) 568-3100

Québec T: (514) 334-4744
Alberta T: (403) 291-1156
British Columbia T: (604) 525-7071

www.zesta.com
1-800-755-5418
info@zesta.com

ZESTA
Industrial Thermal Technologies

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