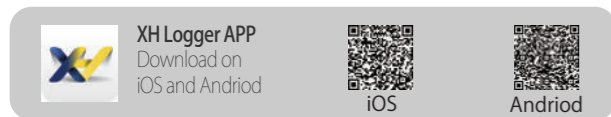


XH Series Data Logger

XH13



- Set Logging of statistical data of temperature & humidity
- Work great on both Android and iOS mobile devices
- Set parameter & download PDF report via Cloud
- M.K.T. Mean Kinetic Temperature calculation
- USB/ Rechargeable Battery power supply



FAE Tech Support
service@brainchild.com.tw

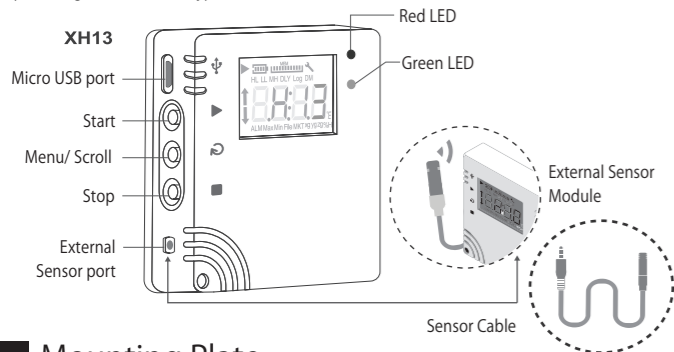
Contact Us
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*This specification is subject to possible change without prior notice.
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XHLogger Quick Start

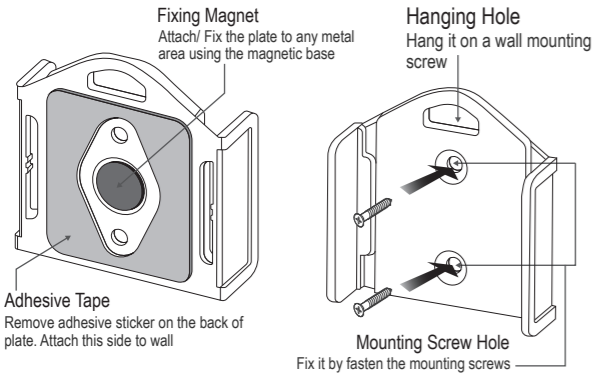
Package

- Data Logger x 1
- Mounting Plate/ Fixed Sticker x 1
- XH13 Battery Installed (3.7V/ 1500mA Li-ion)
- Screws/ Anchors x 2
- Quick User Guide x 1
- (Rechargeable Li Battery)
- External Sensor Probe x 1



Mounting Plate

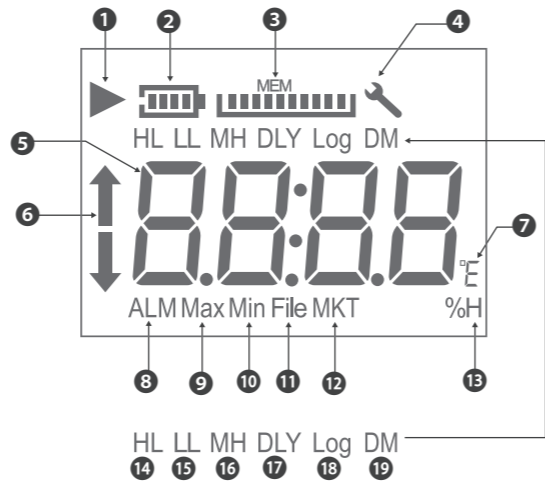
• Back/ Front Plate



LED

- Flashing Red/ Green LED, when devices startup successfully
- Flashing Green LED, indicates working in recording monitoring mode
- Flashing Red LED, indicates errors occurred, alarms triggered
- Red LED blinks 3 times & off continuously, when the connection is interrupted

LCD Display



- 1 The symbol ► indicates unit recording. Flashing ► indicates delayed recording, pending for scheduled tasks. The symbol ► will disappear after logging completed.
- 2 Battery capacity displayed in proportion
- 3 Remaining memory capacity displayed in proportion
- 4 The wrench icon indicates errors occurred, disappears when confirms no error occurred.
- 5 Real-time temperature or humidity info.
- 6 ALM bar: When temperature/humidity reaching the alarm condition, HL ↑ (High Limit) or LL ↓ (Low Limit)
- 7 Temperature Unit °C/ °F
- 8 ALM: When temperature/humidity
- 9 Max. temperature/humidity Value
- 10 Min. temperature/humidity Value
- 11 MKT: Mean Kinetic Temperature Caculation
- 12 File: Total number of files
- 13 %H: Relative Humidity %
- 14 HL: High Limit
- 15 LL: Low Limit
- 16 MH: month/ hour
- 17 DLY: Delay Time
- 18 Log: Log interval
- 19 DM: date/ minute

*Please refer to User Manual, Configuration & Data Analysis, for more information.

3-Key Operation

Action	Description
START ► - Short press	Reconnection
START ► - Long press	Start recording
SCROLL/MENU ◀ - Short/ Long press	Toggle screen/ menu views
STOP ■ - Short press 5 times cont.	Reset and clear all old pairing
STOP ■ - Long press 3 secs	Stop recording after logging
- Long press 3 secs after stopping	Sleeping mode before logging
All keys ►◀ - Short press	Wakeup from sleep mode

Operation Mode

Start Recording	Description
Immediate (APP)	Immediate recording after configuration when setting activation from the App
Button (XH13)	Long Press START ► key for more than 3 secs when setting the XH through App The button mode also working with <Start Delay>, long press START ► key for more than 3 secs. When reaching the start delay time, it will automatically start recording
Specific Time (APP)	Start recording when reaching the specific time, when setting from the App
Stop Recording	Description
None	Stop by App configuration
Button	Long press STOP ■ key for more than 3 secs at logging mode, or stop by App
Specific Time	When reaching the stop time, it will automatically stop recording

Pairing & Configuration

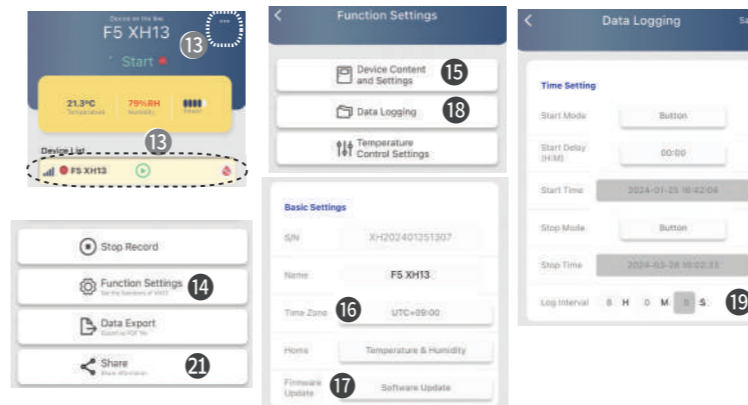
• APP Pairing

- * At least one XH13 running, search and download "XH Logger" from mobile App Store.
- * Open the XH Logger APP icon on your mobile. For first time user,
- * Tap 1 [WiFi] in the upper right corner.
- * Tap 2 [Register] to complete a new account registration.
- * Tap 3 [Log in]. Fill in your email and password to login. Go to the App homepage
- * Tap 4 [Scan the QR Code] to add a new XH13 device.
- * Scan the QR Code on the back of the cover
- * Click 5 [Join] add a XH13 for iOS devices and [Connect] for Android devices.
- * Wi-Fi connection is available for pairing only when SN is shown XH13_XXXXXX in the Wi-Fi list. If the screen 6 [Join]/[Connect] missing, must check whether in pairing mode or not. If not, reset the device to pair again.
- * Select one Wi-Fi name from the list to connect to the XH13. Choose one from the signal strength list. From [SSID List Signal Strength], select one Wi-Fi name 7 and type this Wi-Fi password. 8
- * Press 9 [Save] in the upper right corner. Tap [OK]. Device added successfully and Pairing has been completed. 10 11



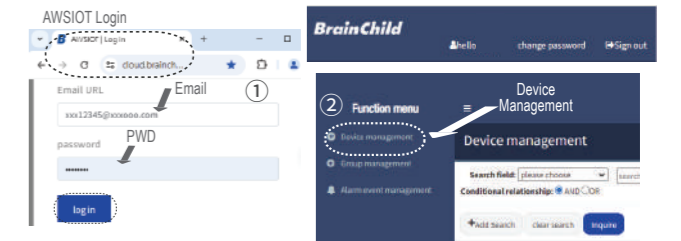
• APP Quick Configuration

- * Set Time Zone: The step is required to activate, resetting Time to unlock the system default setting. Select one connected XH name 12, which connected shown green light. Tap 13[...]. State in the upper right corner to enter this single device configuration. Reset Time and save to exit again even if your local time is the same as the default. Tap 14 [Function Settings] > 15 [Device Content] > 16 [Time Zone] to select the local time zone, and then tap [Save] to exit.
- * Set Log Interval: The step is required to activate, resetting Log Interval to unlock the system default setting. Set the interval not zero. Tap 17 [Function Settings] > 18 [Data Logging] to select the log interval, 19HMS hour/minute/second interval at least one not zero, and then tap [Save] to exit.
- * Change the language interface: if needed
The App supports English and Traditional Chinese. To change language, go to mobile Settings, change Language & Region (iOS).
- * Update Firmware to the latest version
-Tap 14 [Function Settings] > 15 [Device Content] > 17 [Firmware Update]>>Software Update] to update the firmware to the latest version, and then tap [Save] to exit.
-Reset Time and save to exit again even if your local time is the same as the default. Tap 14 [Function Settings] > 15 [Device Content] > 16 [Time Zone] to select the local time zone, and then tap [Save] to exit.
- * Start Recording
-Start Recording immediately: Select one connected XH name 12. Tap 13[...]. State in the upper right corner to enter this single device configuration. Tap [Start Record].
-Scheduled Session Start: Tap 13[...]. State in the upper right corner to enter this single device configuration. Tap 14 [Function Settings], and select [Data Logging]/ [Start Mode>At Time]. Select the time setting details [Start Time/Stop Time], and then tap [Save] to exit.



• AWSIOT Cloud Web Operation/ Activation

- * Please finish registration in the App and pair the device via the App. Login to the webpage using owner accounts, https://cloud.brainchildtw.com. ① Please note that XH13 could only newly being added from the App.
- * After AWSIOT registration, login to the web. Click on the left upper corner [Device Management], and then enter device operation. ②



Battery Charge

- * The XH13 uses a rechargeable battery; when receiving the brand new product, before usage for the first time, please charge the new device to full level via USB port. Use one microUSB-USB cable, connecting USB port to power supply DC5V/1A.(≥1A) When the device completely no power, less than 20%, the totally charging time to fully charged takes around 4 hr to finish with connecting to DC5V/1A charging adapter. For normal usage, recharge the device every 2 to 3 months.

Battery Level with 0-4	Battery Level with 0-4
4 scales: Power 100%	1 scale: Power 40%
3 scales: Power 80%	0 scale: Power < 40%
2 scales: Power 60%	Frame Blinking: Power < 20%

Error Code

Code	Reason
Er01	Wi-Fi module abnormal disconnection, failed to start, please restart or reset
Er02	Cloud registration failure, please registration and pairing again
Er03	Login failed, please note whether ID/Password are correct, Wi-Fi signal as stable
Er04	AWS/MQTT connection failure, please check your network connection working
Er05	Wireless AP failed to connect, please check if the router is working properly.
Er06	Sensor failure, please contact local dealers or the original manufacturer Firstly check whether the external sensor connected correctly firmly
Er07	Device time stamp not available, device timer abnormal. Please connect to the XL Logger cloud/ App to synchronise the time. Reset the time zones. ⑥ 16
Er08	The total files exceeds 100 and the memory is full. Please clear all file data
Er09	Start recording without setting parameters, logging interval error, setting/ configuration error. Please reset log interval. ⑥ 19

An error symbol will appear when any error occurred/ red led flashing

XH13 FAQ

※ Frequently Asked Tech Support Questions

- How to receive alerts via Email ?
Users need to register new accounts on App/ Webpage using email as login IDs. The error messages will send to this email for notification. Select a frequently used email account as receiving alerts email when temperature/ humidity occur. ① ② ③
- How to add a new XH13 device to cloud web account ?
A new XH13 hardware device can only be added from the App version by scanning the QR code. After pairing, login to AWSIOT, the XH will appear
- How to share XH13 with others members ?
* Login to the webpage using owner accounts, https://cloud.brainchildtw.com. Select one online XHLogger, ③ clicking green button [Share]. ④ inputting a member's email address, and select permission type. Click the button [Share]. After setting, the share account also can receive alerts emails when system sends alerts notification.



- * Login to the App, select one connected XH 12. Tap 13[...]. State in the upper right corner to enter this single device configuration. Tap 21[Share] > [New] to add new member to the Share List, and then tap back icon to exit.
- How to upgrade the firmware of the XH13 ?
* Upgrade via XH Logger App: After register and connect to the App. Scan the QR code on the XH. Complete pairing. Go to state>Function Settings> Device Content> Software Update. 17 Follow the steps to complete.
- * Upgrade via AWSIOT Cloud: ① ② Go to Function Menu> Device Management > Select one online> Firmware update. ⑤ Follow the steps to complete.

*** If you have any other tech problems, please contact us and provide the serial number on the sticker from the back of the device.