Manuals+ — User Manuals Simplified.

BrainChild

XH12 Data Logger

BrainChild XH12 Data Logger User Guide

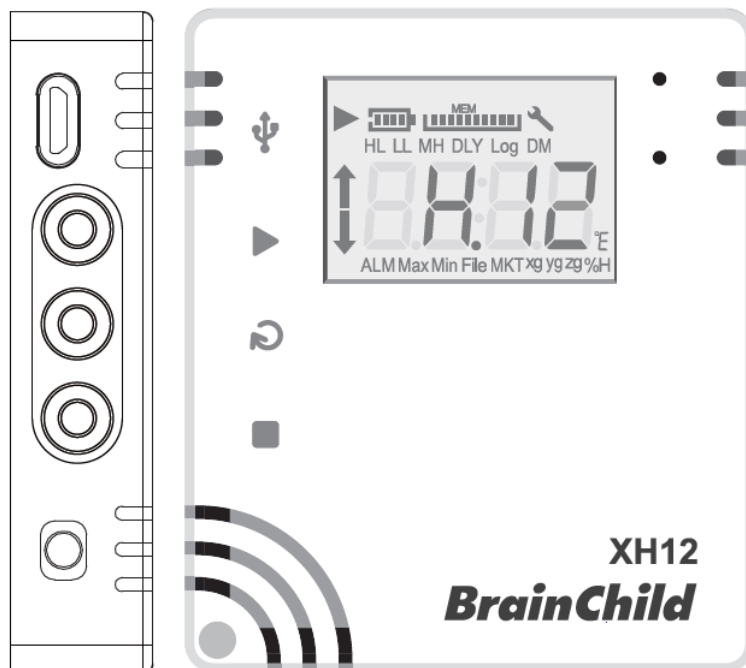**Contents**

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BrainChild XH12 Data Logger

XH Series Data Logger

- Set Logging of statistical data of temperature & humidity
- Wireless configuration, monitoring; set parameter & download report via Wi-Fi
- M.K.T. Mean Kinetic Temperature calculation
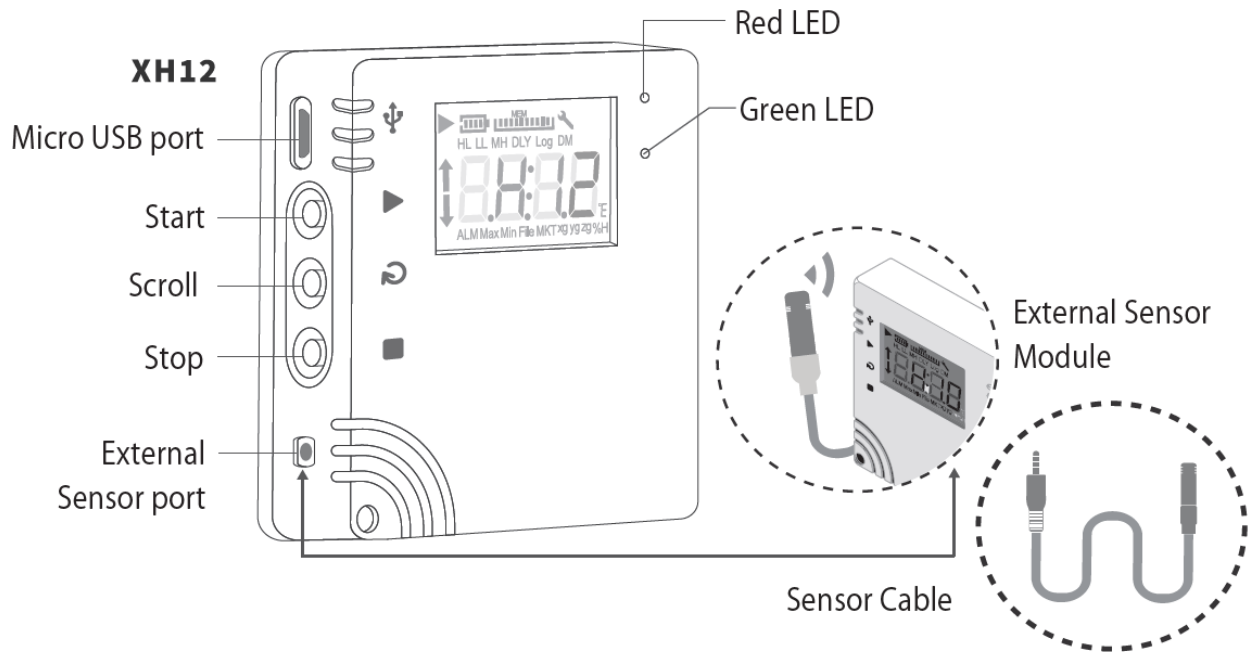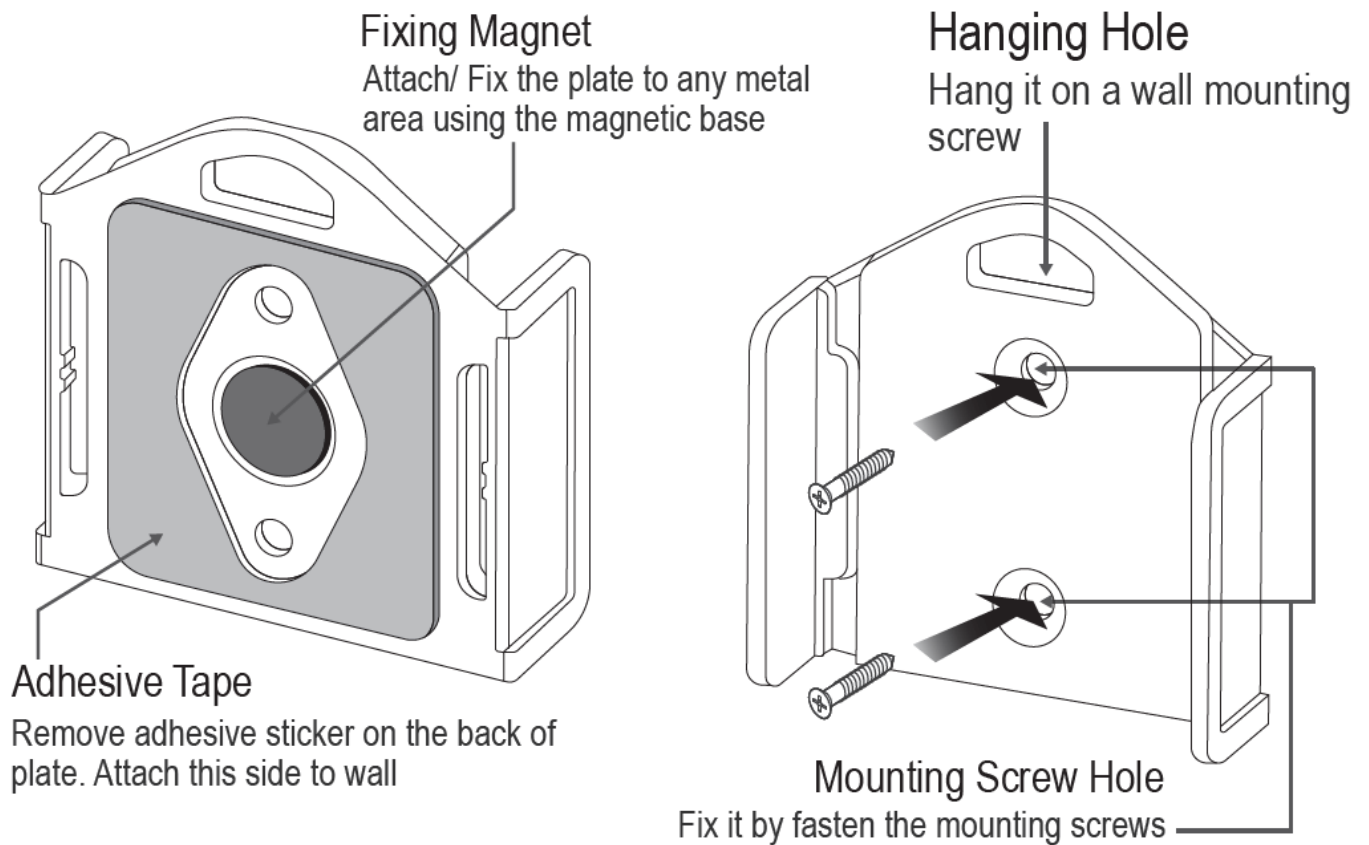- USB/ Battery power supply

XHLogger Quick Start

Package

- Data Logger x 1
- XH12 Battery Installed (3.7V/ 1500mA Li-ion)
- (Rechargeable Li Battery)
- Mounting Plate/ Fixed Sticker x 1
- Screws/ Anchors x 2
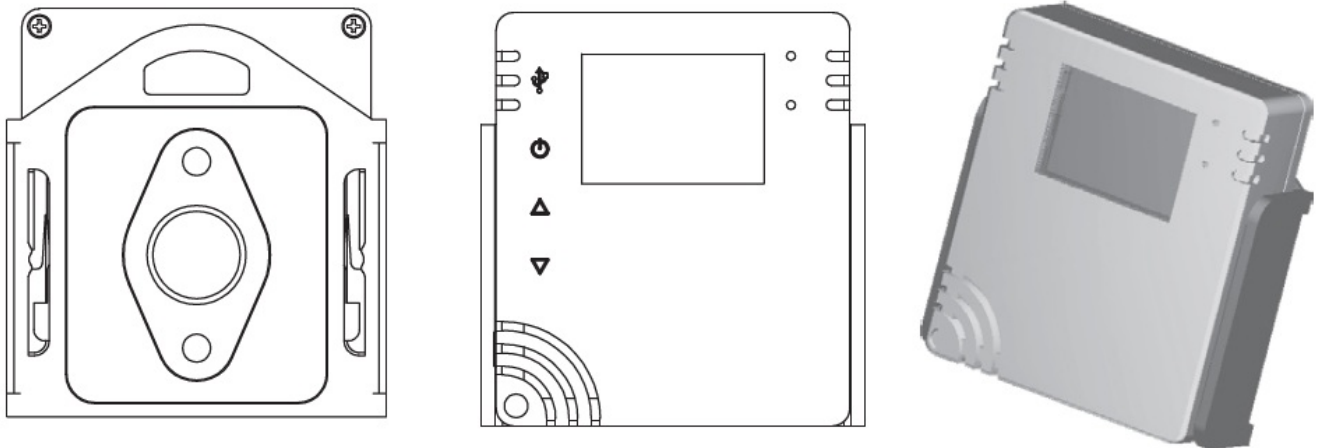- Quick User Guide x 1
- External Sensor Probe x 1

Mounting Plate

Back/ Front Plate

Fixing Magnet
Attach/ Fix the plate to any metal area using the magnetic base

Hanging Hole
Hang it on a wall mounting screw

Adhesive Tape
Remove adhesive sticker on the back of plate. Attach this side to wall

Mounting Screw Hole
Fix it by fasten the mounting screws

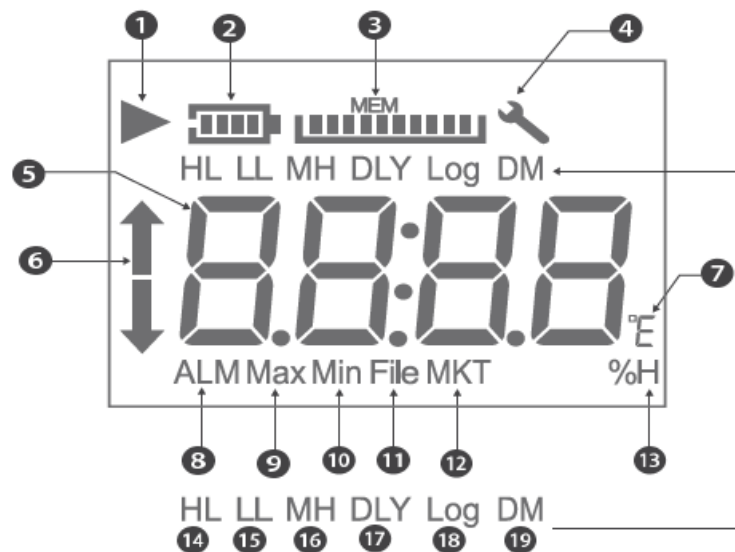**Bracket + XHLogger Place the XHLogger into the mounting bracket**

LED

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

LCD Display

1.
2.

The symbol ▶ indicates unit recording. Recording will start only when the timer matching settings. Flashing indicates ▶ delayed reocrding, pending for scheduled tasks.

The symbol ▶ will disappear after logging completed.

3. Battery capacity displayed in proportion

4. Remaining memory capacity displayed in proportion

5. The wrench indicates 🔧 errors occurred, disappears when confirms no error occurred.

6. Real-time temperature or humidity info.

7. ALM bar: When temperature/humidity reaching the alarm condition, ⬆ (High Limit) or LL ⬇ (Low Limit)

8. Temperature Unit °C/ °F

9. ALM: When temperature/humidity value reaching the alarm trigging condition

10. Max. temperature/humidity Value

11. Min. temperature/humidity Value

12. MKT: Mean Kinetic Temperature Caculation

13. File: Total number of files

14. HL: High Limit

15. MH: month/ hour

16. Log: Log interval

17. %H: Relative Humidity %

18. LL: Low Limit

19. DLY: Delay Time

20. 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 more than 3 secs	Start recording
SCROLL ⟳ - Short press	Toggle screen views
STOP ■ - Long press more than 3 secs	Stop recording after logging; Sleeping mode before logging
SCROLL ⟳ + STOP ■ - Long press	Registration/ Pairing
STOP ■ - Press & Hold for 5 times	Reset

Operation Mode

Start Recording	Description
Immediate (PC)	Immediate recording after unplugging the USB at USB mode when setting the XH through DLV
Button (XH12)	Long Press START ▶ key for more than 3 secs when setting the XH through DLV whether to connect the USB or not
	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 (PC)	Start recording when reaching the specific time, when setting the XH through DLV whether to connect the USB or not

Stop Recording	Description
None	Stop by DLV software only (via USB interface)
Button	Long press STOP ■ key for more than 3 secs at logging mode, or stop by DLV software
Specific Time	When reaching the stop time, it will automatically stop recording, or stop by DLV software

Data Configuration/ Analysis

Download DLV, the Data Logger Viewer software, from the manufacturer's website. The PC Software can be used for configuration of the data logger, viewing and analysing of historical data.
NOTE: *Recording has been locked by default factory settings, please reset time zone firstly & time interval.

Wi-Fi Pairing

DLV/ Wi-Fi Pairing Video

Quick and easy wireless pairing

- Take one XH12 which is new to the system 🌡🌡 (If this XH device used before, already paired wireless before, press the third button, STOP ■ key, more than 3 secs for 5 times, thus clear the previous Wi-Fi setting)
- Open the DLV software on your PC via micro USB port. Go to <Sensors> on the top menu.
- Press and hold sync the 2&3 keys, ↻Scroll+■ for 3 secs. rEG registration steps will appear.
- Wi-Fi setting screen appeared on DLV, follow the sequence steps to complete wireless pairing.
- Press <Finish> after pairing successfully. Go to <Sensors> list-page, the connected Wi-Fi already discovered on the page.

Sensor > New > SSID/PWD > Next > rEG > Finish

Please follow the below steps:

1. Make sure your PC is equipped with WiFi function and turn it on.
2. Make sure the WiFi is connected to a proper hotspot.
3. Fill in the below fields for the hotspot.
4. Press button 'Next'.

Input ID/ Password

WiFi
SSID: g12345
Password: ●●●●●●●●●●

Please follow the below steps:

1. Take one sensor which is new to this system.
2. XH12 Press and hold keys 2&3 at the same time until the word rEG appears and then release. The LCD display will display "Con1" and "Con2" in sequence.
3. Inspect the below list and see if the new sensor is detected and listed.
4. Repeat steps 1 – 3 for the remaining new sensors and then press button 'Finish'.

rEG step

No.	Model	S/N	

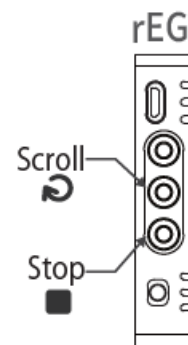When match none shown none listed

rEG

Scroll
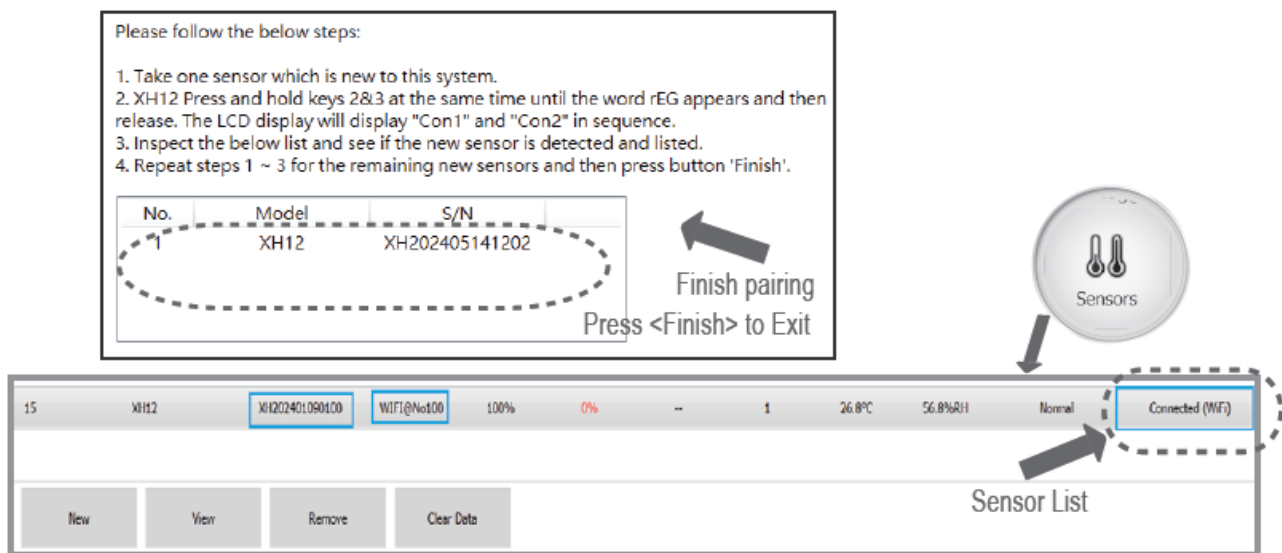Stop

Please follow the below steps:

1. Take one sensor which is new to this system.
2. XH12 Press and hold keys 2&3 at the same time until the word rEG appears and then release. The LCD display will display "Con1" and "Con2" in sequence.
3. Inspect the below list and see if the new sensor is detected and listed.
4. Repeat steps 1 ~ 3 for the remaining new sensors and then press button 'Finish'.
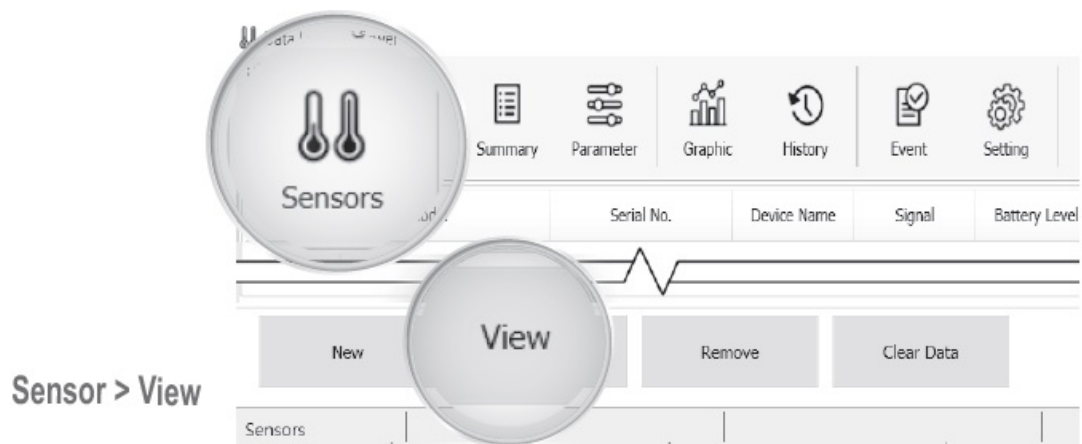
No.	Model	S/N
1	XH12	XH202405141202

Finish pairing

Press <Finish> to Exit

Sensors

| 15 | XH12 | XH202401090100 | WIFI@No100 | 100% | 0% | -- | 1 | 26.8°C | 56.8%RH | Normal | Connected (WiFi) |

Sensor List

New   View   Remove   Clear Data

DLV Quick Activation

1. Step 1: Connect the XHLogger to PC, micro-USB plug of the USB cable into the PC USB port.

   *Use only USB data file transfer cables to collect data for analysis

2. Step 2: The Sensor list will renew newly discoveried devices, click <View> of new items

3. Step 3: Go to <Parameter> set your local time zone

Sensor > View

4. Step 4: Set <Log Interval>, the number must not be zero
5. Step 5: Press <Save> after all settings applied

Parameter > Time Zone

Parameter > Log Interval

* Connect the XHLogger to your PC via USB transfer cable
* Install Data logger viewer to your PC
* Double click on DLV logo
* Go to Parameter > Time Zone > Save
* Set correct time zone/ log interval
* Save the setting to initialize recording

Error Code

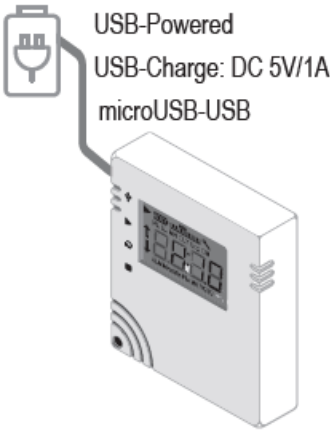| Code	Reason
Er01	Wi-Fi module abnormal disconnection, failed to start, please restart or reset
Er02	DLV registration failure, please registration and pairing again
Er03	Login failed, please note whether ID/Password are correct, Wi-Fi signal as stable
Er04	Connection with DLV failed, please check if Wi-Fi disconnected or DLV turned off.
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
Er07	Firstly check whether the external sensor connected correctly firmly
Er08	Device time stamp not available, device timer abnormal
Er09	Start recording without setting parameters, logging interval lerror, setting configuration error. Please reset. Go to Parameter > Data logging The total files exceeds 100 and the memory is full. Please clear all file data

An error symbol will appear when any error occurred

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

Battery Charge

* The XH12 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. 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.

Tech Support:
service@brainchild.com.tw
XH12 QSG ENv1.0, 2024-05-23

XH12

Frequently Asked Tech Support Questions

After successfully paring DLV with XH12, do I need to keep DLV software open to stay connection

For normal usage, the XH12 will keep connection with DLV, also sending data back to DLV continuously. When the XH12 cannot find DLV, it will try to search DLV and the LED screen will display Er04, which will make battery draining fast. Even power saving mechanisms exist, it is recommended to keep the connection between DLV and XH12 all the time

During pairing processing, cannot find any XH12 device on the list?

Press the STOP button 5 times, and wait until "rSt" displayed on LED to clear paring setting on this device. Manually operate the pairing procedure again. Enter and make sure paring networking SSID and password correct. Before pairing again, check Wi-Fi and networking environment, whether the signal too weak on the location. Also avoid turning phone hotspot to replacing Wi-Fi, which cause networking connection unstable. Please note that it is required to run program under windows 10 OS or above.

Will the connection between DLV and XH12 failed after when the DHCP assigns a new IP address

Under normal network circumstances, DLV and XH12 use the same domain for connection. When IP address on the computer changed, DLV will still search and update the link automatically.

When the error code, Er05, is shown on XH12 LED

Er05 occurs when XH12 cannot connect to the paired Wi-Fi, so please check the network device firstly and then restart the DLV software and confirm that IP domain of DLV is the same as setting before.

How to reconnect the device with DLV software again

The device has been paired successfully before, yet if the device unexpected disconnection problems occur, the user can try to pair again to establish the connection between XH12 and DLV. Press the STOP button 5 times, and wait until "rSt" displayed on LED to clear paring setting on this device. Manually operate the pairing procedure again.

The DLV is activated and finished pairing but my XH12 cannot work properly

The first step to activate DLV is to click on the device name; go to Parameter firstly to reset Log Interval Time Zone. Set Log Interval not zero H M S and set current Time Zone. Save and Exit

How to change the DLV language interface

To change the DLV language, click on the device name and go to Settings on the top menu. On the General tab, change Language field and Exit the program. Launch the DLV again, the new language interface will start.

Documents / Resources

BrainChild XH12 Data Logger [pdf] User Guide
XH12, XH12 Data Logger, Data Logger, Logger

References

- **User Manual**

NEXSENS X2 X2 Data Logger User Guide

X2 X2 Data Logger User Guide X2 X2 Data Logger IMPORTANT - BEFORE FIELD DEPLOYMENT: Completely configure new…

- **METER ZL6 Data logger User Guide**

METER ZL6 Data logger Preparation Inspect and verify ZL6 components are intact. Installation will require a mounting post.…

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- **DICKSON DWE2 Data Logger User Guide**

DICKSON DWE2 Data Logger Important Information This Quick-start Guide presents an overview of the Dickson DWE data logger,…

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