

XH Series Data Logger XH12

- 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

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XH12 QSG EN1.0, 2024-05-23

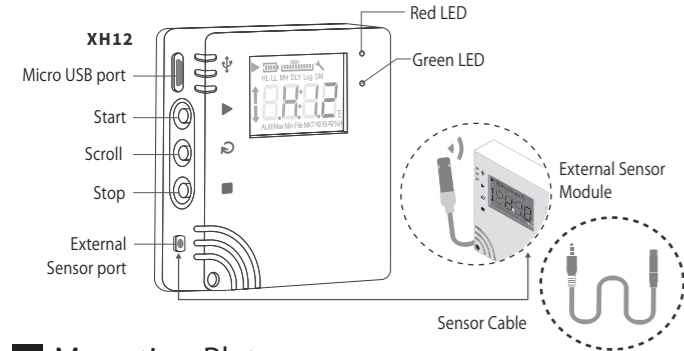


XHLogger Quick Start

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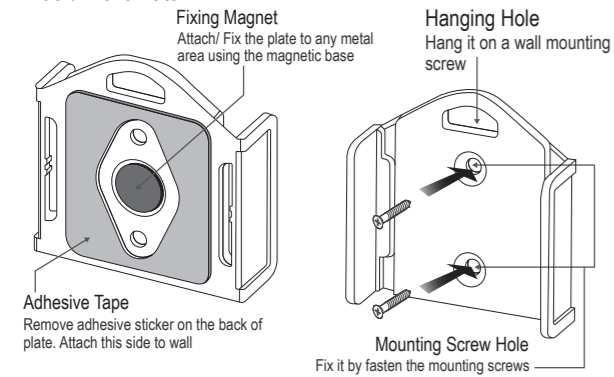
Package

- 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

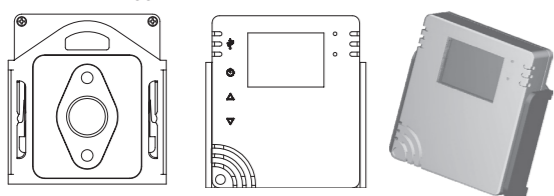


Mounting Plate

• Back/ Front Plate



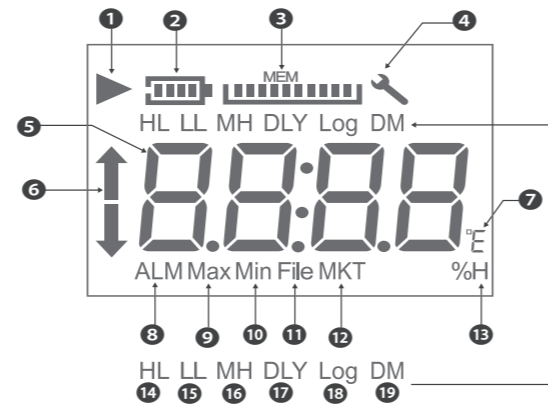
• Bracket + XHLogger Place the XHLogger into the mounting bracket



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



- The symbol ► indicates unit recording. Recording will start only when the timer matching settings. Flashing ► indicates delayed recording, pending for scheduled tasks. The symbol ► will disappear after logging completed.
- Battery capacity displayed in proportion
- Remaining memory capacity displayed in proportion
- The wrench ⚙ indicates errors occurred, disappears when confirms no error occurred.
- Real-time temperature or humidity info.
- ALM bar: When temperature/humidity reaching the alarm condition, HL ↑ (High Limit) or LL ↓ (Low Limit)
- Temperature Unit °C/ °F
- ALM: When temperature/humidity value reaching the alarm triggering condition
- Max. temperature/humidity Value
- Min. temperature/humidity Value
- MKT: Mean Kinetic Temperature Calculation
- File: Total number of files
- %H: Relative Humidity %
- HL: High Limit
- LL: Low Limit
- MH: month/ hour
- DLY: Delay Time
- Log: Log interval
- 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

Sensor > New

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)

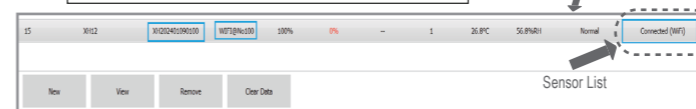
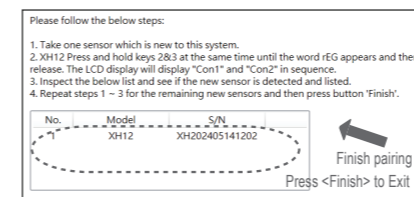
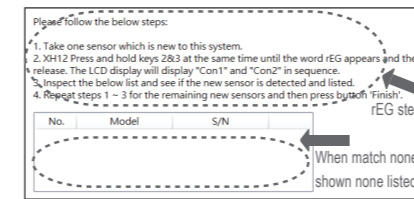
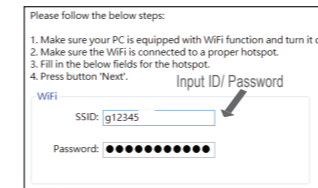
* Open the DLV software on your PC via micro USB port. Go to <Sensors> on the top menu.

* Press and hold sync the 2&3 keys, Scroll+ Stop, 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

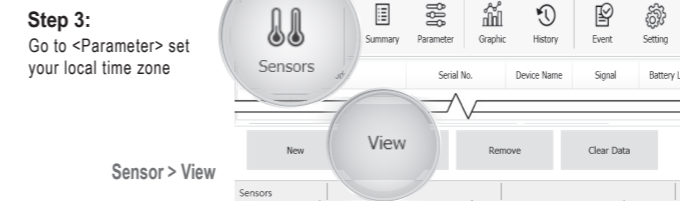


• DLV Quick Activation

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

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



Step 4: Set <Log Interval>, the number must not be zero

Step 5: Press <Save> after all settings applied



- * 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 error, 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

XH12 FAQ

※ Frequently Asked Tech Support Questions

► After successfully pairing DLV with XH12, do I need to keep DLV software opening 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 pairing setting on this device. Manually operate the pairing procedure again. Enter and make sure pairing 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 pairing 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 <Setting> 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.

*** 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.

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

