

XH Series Data Logger XH10/ XH11

- Set parameter & download PDF report via USB data transfer cables
- Free & user-friendly PC software (DLV)
- M.K.T. Mean Kinetic Temperature calculation
- USB/ Battery power supply, 1-year+ long lasting battery



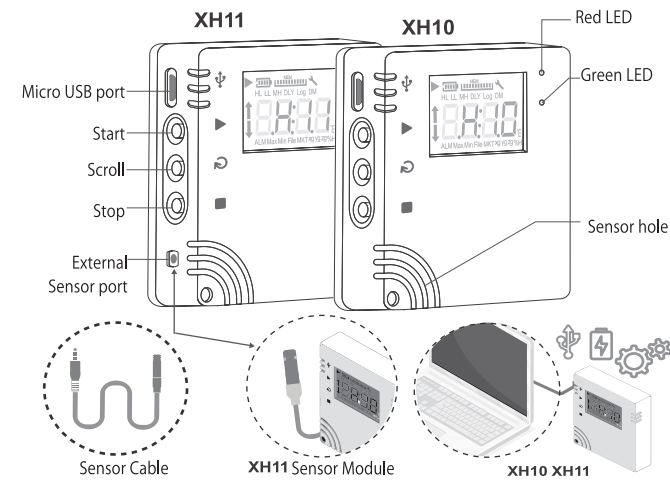
Tech Support: service@brainchild.com.tw
XH10/11 QSG Env1.0, 2024-02-15

XHLogger Quick Start

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Package

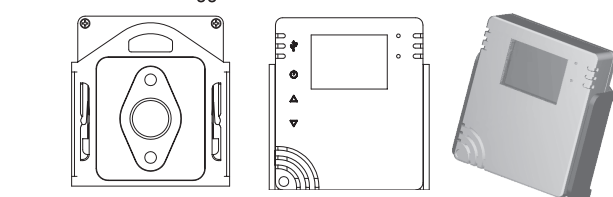
- Data Logger x 1 (XH10 or XH11)
- Long-lasting lithium battery x 1 (ER14250, 1/2AA 3.6V, disposable)
- Mounting Plate/ Fixed Sticker x 1
- Screws/ Anchors x 2
- Quick User Guide x 1
- External Sensor Probe x 1 (for XH11)



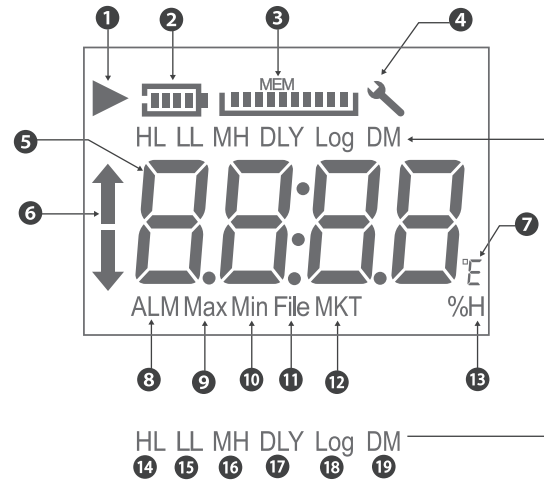
Mounting Plate

- 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



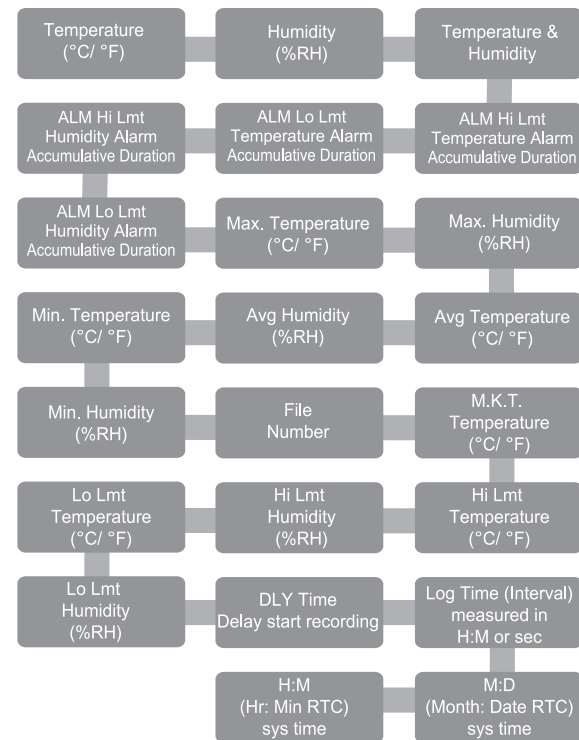
LCD Display



- 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 icon 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

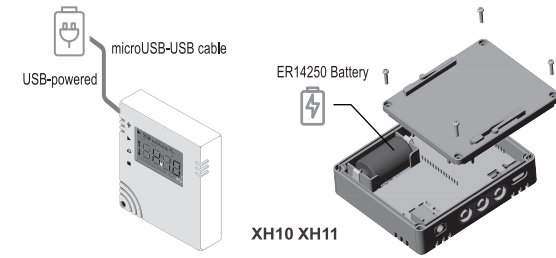
*Please refer to User Manual, Configuration & Data Analysis, for more information.

Scrolling Sequence



Battery Replacement

- * If no power or long storage before usage, battery loosen during transportation, check the battery located properly or replacement.
- * For battery replacement, loosen and remove 4 screws/ back-cover. Replace the disposable lithium battery. (long lasting, max. 1+ year life). Install the back cover. After new battery replacement, long press 3 keys simultaneously and release.



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

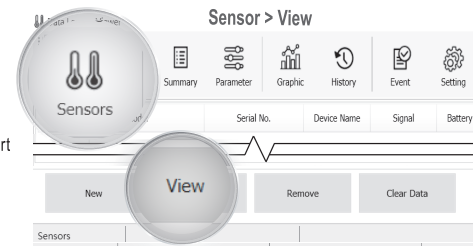
System Requirements

Item	Minimum Requirement
System	IBM PC compatible with Intel Pentium IV or above
OS	Windows 7 Service Pack 1 or above
Memory	1GB
Hardisk	50GB above free space on the HDD
Communication	micro USB interface

NOTE: If Windows 7 operating system is used then service pack1 is necessary for the software to be installed properly, otherwise error messages such as "Block Issues" will appear.

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 3:** Go to Parameter > Time Zone, setting your local time zone
*Select logging time, start time, log duration if needed

- Step 4:** 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
- * Save the setting to initialize recording

Quick DLV Start Video

LED

- Flashing Red/ Green LED: Devices starting up
- Flashing Red LED every 4 sec: Devices working at monitoring/ USB mode
- Flashing Green LED every 4 sec: Log interval 1~9 sec at logging mode
- Flashing Green LED every 10 sec: Log interval more than 10 sec at logging mode
- Flashing Red LED every 2 sec: Errors occurred, alarms triggered



Error Code

Error No	Reason
Er06	Sensor failure, please contact local dealers or the original manufacturer For XH11, firstly check whether the external sensor connected correctly firmly
Er07	Device time stamp not available, device timer abnormal Please use DLV software to update parameters sync
Er08	The total files exceeds 100 and the memory is full. Please clear all file data
Er09	For brand new XHLogger devices, please setup linking with DLV to setup required parameter. Start recording without setting parameters, logging interval error, setting configuration error. Please reset. Go to Parameter > Data logging

An error symbol will appear when any error occurred

Operation Modes

USB Mode

Once the XHLogger plugs to a laptop/PC, the USB mode will start. At USB mode, the laptop/PC will generate a hard drive to show the device plugged into it. In the meantime, a PDF file will be generated from a few seconds to a few minutes based on the size of the records on the device.
*Connect to PC via one micro USB-USB data transfer cable instead of normal USB cables

Logging Mode ►

- LED: Green LED will be flashing every 4 sec in Logging mode.

How to Start Recording

- Immediate (PC):** After setting the XHLogger through PC software in USB mode and unplugging the USB, it will start logging mode immediately.
- Button (XHLogger):** Once the user press ► START key for more than 3 seconds in Monitoring mode. It will enter Logging mode. The LCD logging icon ► will be flashing. The flashing logging icon ► indicates the device waiting to be started to log, while ► remaining on display means recording in process and entering the Logging mode. The measuring value is saved periodically in the flash memory in Logging mode.
- Specific Time (PC):** Set the specific time through the Data Logger viewer software first and then unplug the USB data cable. The LCD logging icon ► will be flashing. Until the specified time reached, it will automatically start the Logging mode.

How to Stop Recording

- PC:** After Logging mode started, it can only be stopped from the Data Logger Viewer software.
- Button (XHLogger):** Once the user press ■ STOP key for more than 3 seconds in Logging mode. It will enter Monitoring mode. It will stop recording, and ► will disappear.
- Specific Time (PC):** After Logging mode starting, when the specified stop time is reached, it will automatically stop recording and ► will disappear. During the Logging mode, recording can be stopped from the Data Logger Viewer software.

Monitoring Mode ►

Once press ■ STOP for more than 3 sec in Logging mode. The Monitoring mode will start. The START symbol ► will disappear, recording tasks stopped. Red LED flashing, LCD home screen will show and refresh the current temperature/ humidity value every 10 sec but won't be saved in flash memory. Stay up to 8 sec if not shown the home screen on LCD, and bring back to home screen automatically after 8 sec.

- LED: Red LED will be flashing every 4 sec in Monitoring mode

Shutdown Mode ■

The shutdown mode can only be operated in Monitoring mode. Press ■ STOP key for more than 3 seconds in Monitoring mode, the device will enter the Shutdown mode. After replacing the battery and restarting the power supply, the device must be connected to the computer via USB data cable. After the date and time updated on PC DLV, then the user can use the logging function. The user can press any key to bring the device back to monitoring mode. If the unit does not respond, perform a system restart. Press any key to bring the device back to monitoring mode. If the unit does not respond, press ► START and ■ STOP bring back to Monitoring mode.

System Restart

Hold ► START, ◀ SCROLL and ■ STOP three keys for more than 1 second simultaneously and then release. The system will restart. If start/release too fast and the restart fails, the screen will stop updating. Restart it again.