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Battery Life, Storage and Charging





What is this?

This help document offers guidance on battery life for the EasyLog™ EL-WiFi data logging sensor products.

Approximately how long will a fully charged battery last in my EasyLog™ EL-WiFi sensor?

The EasyLog[™] EL-WIFI data logging sensors are powered by quality LiPo batteries. The battery life of the sensor is dependent on use. Transmitting data uses a lot of battery power. By increasing the time between transmissions the battery will last longer. See the table below.

Transmission Period	Typical Battery Life
1 Minute	1 Month
15 Minutes	3 Months
1 Hour+	6 Months+

The product will arrive partly charged but you should charge it for 24 hours before use for optimum performance. The battery can be recharged using a PC, a USB wall adapter, or a portable USB battery pack using the USB lead provided. It can also be permanently powered by a USB wall adapter or USB battery pack. Readings may be affected for some sensor types, while the internal battery is being charged. However once charged, continued connection of the charger will have no effect.

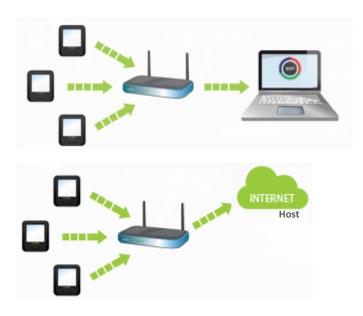
Battery life is dependent on a wide range of parameters including:

- Transmission period.
- Operating temperature. (Lower extremes will have a significant effect).
- WiFi encryption method.
- WiFi encryption key rotation frequency (determined by the AP/router).
- Signal strength between router and WiFi device.
- Presence volume and type of WiFi traffic from other devices.
- Sample rate.

Battery Life, Storage and Charging



Regardless of whether you have chosen to store your data on a PC or on the EasyLog™ Cloud, optimum battery life is achieved when each data transmission from the WiFi sensor is successfully received by the host. If the PC Software is not running, the WiFi network is down, or for any other reason connection between sensor and host is lost, the sensor attempts to periodically re-establish communications until connection is made and data is synced. To ensure optimal battery life we recommend that wherever possible, a wireless connection to the host is permanently maintained.



What is the service life of the battery inside my EasyLog™ EL-WiFi Sensor?

It is generally accepted, that the service life of a battery has come to an end when it reaches 80% of its original capacity (of course the battery will continue to work satisfactorily beyond this). Our EL-Wifi range of products use a quality LiPo (Lithium Polymer) battery, which under normal conditions of operation, charging and storage will provide a service life in excess of 300 charge/discharge cycles.

For example, if you recharge your sensor every three months, the battery service life would be at least 75 years.

Battery Life, Storage and Charging



How should I store my EasyLog™ WiFi Sensors?

If you need to store your WiFi sensors for any length of time, we recommend the following guidelines in order to preserve battery capacity:

- 1. Do not exceed the acceptable storage temperature range of -20 to +30°C. Storage at room temperature is OK, although more battery capacity is preserved at lower temperatures.
- 2. If the WiFi symbol is shown, flashing or fixed, in the top left corner of the LCD then the WiFi sensor *must* be factory reset by pressing and holding the button for 20 seconds, prior to storage.
- 3. The battery should be part-charged to 40-50% capacity prior to storage. This can be achieved by charging the WiFi sensor for approximately 4 hours from flat (8 hours when using a EL-WiFi-DTP+, EL-WiFi-DTC or a sensor with an extended battery pack). We do not recommend storing a fully charged or fully discharged WiFi sensor.
- 4. For long-term storage, we recommend that batteries are periodically topped-up to maintain a nominal 40-50% capacity. We recommend recharging for 3 hours every 6 months.

Why is the battery in my EasyLog™ WiFi Sensor not charging?



It is safe to recharge the WiFi sensor between 0 and 40°C. A safety feature inside, prevents charging when the *internal* temperature is outside this range. This 'charging error' condition is indicated when both MIN and MAX are shown together on the LCD.

How do I ensure that I get the best possible battery life from my EasyLog™ WiFi Sensors?

- Do not exceed the acceptable operating temperature range of -20 to +60°C. Lower temperatures will significantly reduce battery capacity.
- Choose the longest Transmission Rate suitable for your application. Remember, you will receive alarm notifications immediately, regardless of your Transmission Rate setting.
- Wherever possible avoid deep discharging your sensor. Recharge your sensors while they still have some charge left on a schedule to suit you.
- If storing your sensors, do not exceed the acceptable storage temperature range of -20 to +30°C and maintain a 40-50% charge.
- Wherever possible maintain a permanent wireless connection to the host (PC or EasyLog[™] Cloud).

Capture Diagnostic Information





What is this?

This help document shows you how to capture diagnostic information from the WiFi Sensor Software.

WARNING: Only complete this procedure when requested by one of our support team.

This document does not apply when storing your data on the Cloud.

On rare occasions our support team may request files from your system in order to help diagnose technical problems.

- 1. Close the WiFi Sensor Software
- 2. Zip-up the following files ...

Do not move, delete or open these files

Program Files\Wifi Sensor Software\corewifidata.bdf

Program Files\Wifi Sensor Software\corewifidata.ldb

Program Files\Wifi Sensor Software*.wdf (all files with a .wdf extension)

This folder might be called Program Files (x86)\Wifi Sensor Software on some operating systems.

My Documents\WiFi Sensor Software*.txt (all files with a .txt extension)

My Documents\WiFi Sensor Software*.wdf (all files with a .wdf extension)

This folder might be called Documents\WiFi Sensor Software on some operating systems.

These files may be large. We recommend that you use a file-sharing website to send these files to our support team.

Cloud Server Settings





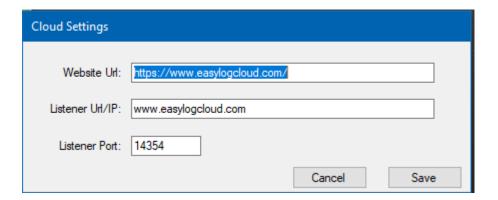
Checking my www.easylogcloud.com settings

Start the WiFi Sensor Software on your PC.

At the Home screen, press the Ctrl, Alt and S keys together. i.e. hold down the Ctrl and Alt keys and press S.



If when pressing Ctrl+Alt+S you get a Support Information Window on your HP or Compaq PC, see our Help Guide "Ctrl-Alt-S on HP and Compaq PC" – Restoring the operation of Ctrl+Alt+S on HP and Compaq PCs.



- The Cloud Settings will be displayed.
- If the settings are exactly as shown, you don't need to change anything, click Cancel.
- Only if necessary, edit the settings. Double check your entries and click Save.
- Do not change the Listener Port unless instructed to do so by our support team.

EasyLog Cloud operates a number of Cloud servers to accommodate the needs of our customers. In almost all cases the default Cloud settings will be correct for your application.

These settings are persistent and will be remembered when you close the software, or install a software upgrade.

How to completely remove the EasyLog™ WiFi Sensor Software from your PC





What is this?

This Help Guide refers to the EasyLog™ WiFi Sensor Software.

How to completely remove the EasyLog™ WiFi Sensor Software from your PC

1. Uninstall the WiFi Sensor Software.

Window 7: use **Control Panel | Programs**Windows 8 & 10 : search **Programs and Features**.

Locate the WiFi Sensor Software in the list and select Remove or Uninstall.

- Completely remove the folder Program Files\Wifi Sensor Software.
 This might be Program Files (x86)\Wifi Sensor Software on some operating systems.
- 3. Completely remove the folder **My Documents\WiFi Sensor Software**. This might be **Documents\WiFi Sensor Software** on some operating systems.
- Delete the file My Documents\config.wft.
 This might be Documents\config.wft on some operating systems.

The software and any related data is completely removed.

Configuring WEP Network Encryption





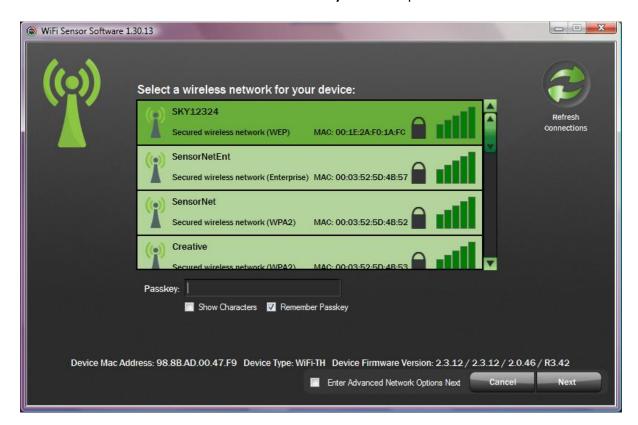
What is this?

This Help Guide gives guidance on using the EasyLog™ EL-WiFi data logging sensors in WiFi networks with WEP encryption.

Will my EasyLog™ EL-WiFi Device work with WEP encryption?

Yes, our WiFi devices fully support all common encryption methodologies, including WEP.

When using the PC software to connect your WiFi sensor device to a network with WEP encryption, select the network from the list and enter the **Passkey** in the box provided.



Configuring WEP Network Encryption



Password entry for WEP encrypted networks, generally takes one of two forms ...

- A Password, sometimes called a Passphrase.
 This is a normal text string in the form.. FROG123, myPA55word, 29AcaciaRoad etc..
- 2. A **Passkey**, sometimes called a **WEP Key**.
 This is a Hexadecimal number string in the form.. 1A648C9FE2, 7d64622e47, 7b7d5855325c76654c484c2667

The WiFi Sensor Software supports only a Passkey.

If you only have a **Password**, you can easily find on-line resources to help convert your Password into a **Passkey** (search 'WEP key generator').

A note about WEP encryption

Encryption is applied to data being transmitted over networks to ensure that it is secure and private. The latest methods for doing this are very advanced and offer exceptionally high levels of security. WEP (Wired Equivalence Privacy), being a legacy encryption methodology is unable to offer such high levels of protection, is easily cracked using commonly available tools and is widely accepted to be insecure.

We do not recommend the use of WEP where it can be avoided.

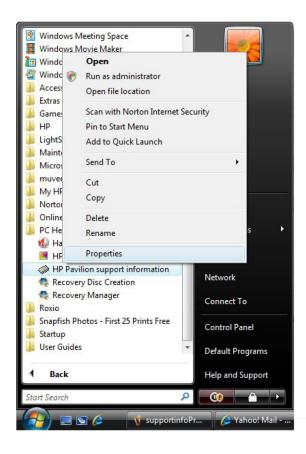
CTRL+ALT+S on HP and Compaq PC





I'm trying to set or confirm the Cloud server setting in the WiFi Sensor Software. When I press the Ctrl+Alt+S keys I get a Support Information Window on my HP or Compaq PC.

HP and Compaq desktop computers are designed to display System Information when pressing Ctrl+Alt+S keys simultaneously. However, this key combination is needed by the WiFi Sensor Software, in order to display the Cloud server settings window.



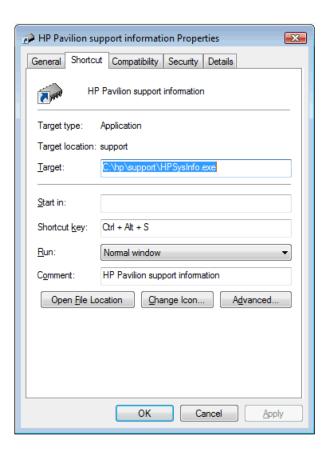
To change or disable the key combination associated with the HP or Compaq System Information window, follow these steps:

- 1. Click Start 🦣 , All Programs , «HP Help and Tools «.
- 2. For Compaq computers, right-click either Compaq Support Information or Compaq Presario Support Information , and click Properties .

For Pavilion computers, right-click either HP Support Information or HP Pavilion Support Information, and click Properties. Path to Support Information Properties (in Windows Vista)

CTRL+ALT+S on HP and Compaq PC





Click inside the Shortcut keys field, and either delete the contents of the Shortcut Keys (None) or change it to another key combination that you are not using in other software programs. For example, if you want to change the key combination to Ctrl+Alt+Z, select the Shortcut key field and press all three keys at the same time.







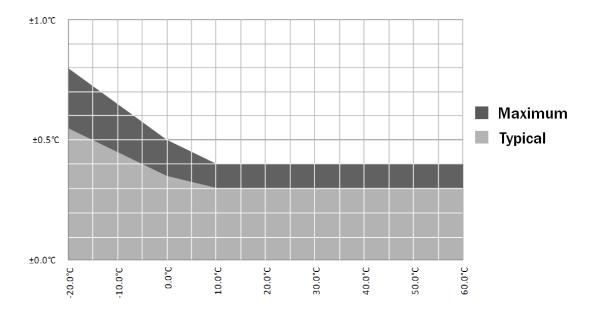
What is this?

This Help Guide provides information regarding the expected performance of the WIFI-TH and WIFI-TH+ products, and gives guidance for product handling

Detailed specification and handling instructions for WIFI-TH and WIFI-TH+

WIFI-TH Full Range Temperature Specification

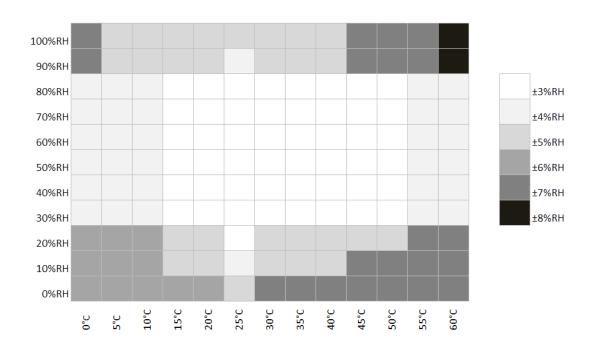
The following chart gives an indication of expected tolerance in temperature measurements across the full measurement range.





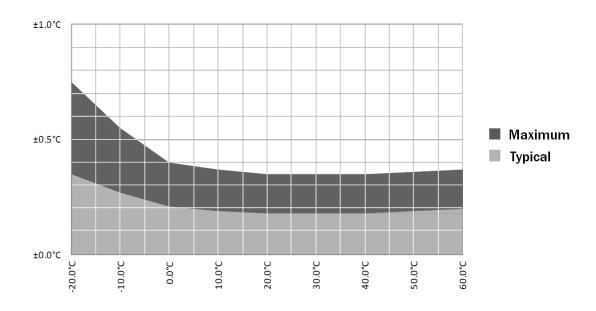
WIFI-TH Full Range Humidity Specification

The following chart gives an indication of expected maximum tolerance in humidity measurements across the full measurement range.



WIFI-TH+ Full Range Temperature Specification

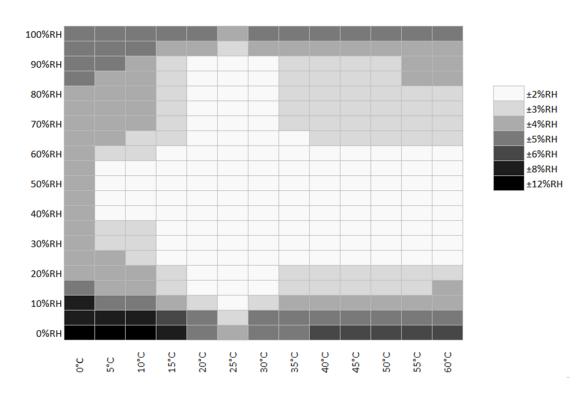
The following chart gives an indication of expected tolerance in temperature measurements across the full measurement range.





WIFI-TH+ Full Range Humidity Specification

The following chart gives an indication of expected maximum tolerance in humidity measurements across the full measurement range.



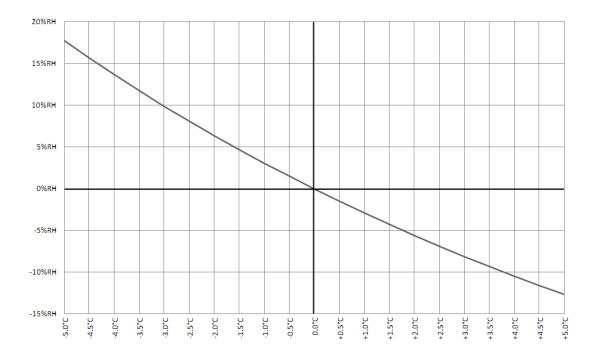
Effect of Environmental Extremes

Long term exposure to humidity levels above 80%RH, may temporarily offset RH measurements (±3%RH after 60 hours). Once returned to less extreme conditions the device will slowly return towards calibration state.



Temperature- Differential Effects

If a temperature differential exists between the sensor body and ambient surrounding, an offset in temperature and RH measurement will occur. A sensor moved from one set of ambient conditions to another will take a short period to equalise to the temperature of the new location. Similarly, internal heat generated whilst charging the battery, will typically cause a +2.5°C offset in temperature measurements and a decrease in RH measurements. The chart below gives an indication of the relationship between temperature differential and RH measurement offset at an ambient temperature of +25°C.



A sensor device being permanently powered via a USB, will normally be in a fully charged state. In this case there should be little effect from the self heating described above - the battery is kept fully charged with short bursts of power from the charger - producing negligible heat.



Hysteresis

In addition to the effects described above, up to ±1%RH hysteresis can be expected in results.

Long Term Drift

Under normal conditions: the maximum drift in temperature measurements for both the WiFi-TH and WiFi-TH+ will be 0.04°C per year, and the maximum drift in humidity measurements for both products will be 0.5%RH per year.

Product Handling

The humidity measuring element in the WiFi-TH and WiFi-TH+ products can be contaminated through exposure to a variety of compounds. These products should not be kept in proximity to volatile chemicals such as solvents and other organic compounds. Ketenes, Acetone, Ethanol, Isopropyl Alcohol, Toluene, etc. are known to cause measurement offset (often irreversible). Please note that such chemicals are an integral part of epoxies, glues, adhesives*, etc. Chemicals such as these are also added as plasticisers into plastics, used for packaging materials, and can outgas for extended periods. Acids and bases may affect the sensor and should be avoided: Hydrogen Chloride, Sulphuric Acid, Nitric Acid, Ammonia etc. Also Ozone in high concentration or Hydrogen Peroxide should be avoided. Please note that the above examples do not represent a complete list of all harmful substances. Generally speaking, if a material or compound emits a strong odour you should not keep a WiFi-TH or WiFi-TH+ product in close proximity to it.

We strongly suggest that these products are stored and shipped in EasyLog standard packaging where possible, or else in card based packaging. Do not store or ship these products in polystyrene or bubble wrap.

*For a list of adhesives that have been approved for use with the WiFi-TH and WiFi-TH+ products please contact Lascar Electronics Ltd.





What is this?

This Help Guide offers guidance on using the File Duplication function in the WiFi Sensor Software.

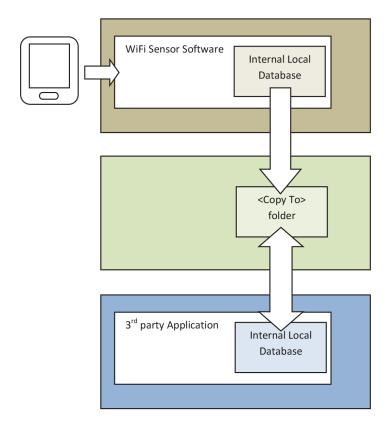
How do I use the File Duplication?

WARNING: Do not use this function unless you are sure it is right for your application.

This document does not apply when storing your data on the Cloud.

What is the purpose of the File Duplication Function?

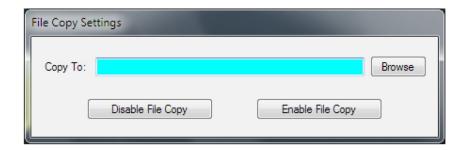
To provide duplicate data for each EasyLog WiFi sensor connected to a PC-based system that can be opened, manipulated and subsequently deleted by a 3rd party Application which may be running on the same or a different PC. The duplicate data files will be updated when ever new sensor data is received, and copied to a user definable folder. The system does not preclude the use of network drives.





How do I Enable the File Duplication Function?

At the WiFi Sensor Software Home screen the user or system admin can access the File Copy Settings, by pressing <Alt Ctrl F> (i.e. Holding down Alt and Ctrl keys and pressing the F key).



This allows the user to set the path where duplicate data files are to be copied (<Copy To> folder), and Enable or Disable the File Copy function.

What is the structure of the Duplicated File?

Each time a sensor data packet arrives at the WiFi Sensor Software, whether as a result of a normal (timed) transmission, or a single packet transmission during sensor syncing, the software will generate a file in the <Copy To> folder, containing the data received, prefixed by the sensor configuration data.

The format is shown below.

- <Sensor Type>XX
- <Firmware Version>XX.XX
- <Sensor MAC>98:8B:AD:XX:XX:XX
- <SSID>xxxxxxxxxx
- <Sample Rate>XXXX
- <Transmit Frequency>XXXX
- <Temp Scale>F/C
- <Temp High Alarm>XX.Xs
- <Temp Low Alarm>XX.Xs

File Duplication



- <Temp Alarm Hold>ON/OFF
- <Humidity High Alarm>XX
- <Humidity Low Alarm>XX
- <Humidity Alarm Hold>ON/OFF
- <Temperature High Alarm Triggered>YES/NO
- <Temperature Low Alarm Triggered>YES/NO
- <Humidity High Alarm Triggered>YES/NO
- <Humidity Low Alarm Triggered>YES/NO
- <Battery Status>XX
- <Signal Strength>XX

time,temperature,humidity,samplestart,recdate

2012-11-21 12:24:59,20.5,0,12,2012-11-21 12:25:57

2012-11-21 12:25:09,20.5,0,12,2012-11-21 12:25:57

2012-11-21 12:25:19,20.5,0,12,2012-11-21 12:25:57

2012-11-21 12:25:29,20.5,0,12,2012-11-21 12:25:57

2012-11-21 12:25:39,20.5,0,12,2012-11-21 12:25:57

2012-11-21 12:25:49,20.5,0,12,2012-11-21 12:25:57

In the above example, the sensor is configured to take readings every 10 seconds, and transmit them when it has accumulated 6 readings.

Notes about the configuration data:

If configuration fields are not relevant to the sensor type, they are not included in the list. If an Alarm is not enabled, no fields relating to that Alarm will be present.

- All configuration fields contain the field description e.g. <Sensor Name> followed by the parameter in plain text.
- Temp Scale is a single character 'F' or 'C'
- <Sensor Type> is TH, TP, T etc.
- Temp Alarm levels are listed in <Temp Scale>
- Humidity Alarm Levels are assumed to be in %RH

File Duplication



- <Battery Status> is 0-10 (battery health) or 11=Power Connected & Charging or 12= Power Connected & Fully Charged.
- <Signal Strength> is 0-10 (10 is the best signal).
- <Sample Rate> and <Transmit Frequency> are assumed to be in seconds.

File Names

The name of the copy file is unique, and in the following format.

<computer name>_instrumentN_x.wdf

where

<computer name> is name of the source computer. This allows multiple systems to use a central

<Destination> repository.

N = a unique sensor number (allocated during first attachment to the PC) and

x = samplestart - this is the data sequence start number (from the data within the file). This is unique to each received data packet. In the above example the samplestart=12. If the wdf files normally contain 6 data readings the next samplestart sequence will be 18, 24, 30 etc... If the sensor is syncing, the wdf file will contain considerably more data readings. The samplestart number is reset to zero when the sensor starts a new recording session, the 3rd party application must accommodate this when chaining copy files together.

File Locking

The \<Copy To>\<computer name>_instrumentN_x.wdf file will be written with Exclusive Write attribute, attempts to read the file during this time will result in an error, which needs to be trapped and handled by the reading process. When the EL-WiFi software has completed writing, the file will become accessible for reading.

After processing the data in the copy file, the 3rd party Application must delete the file.

Finding the Firmware Installed in my WiFi Device



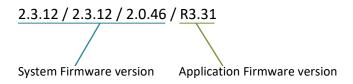


What is this?

This Help Guide shows how to check the version of Firmware in your EL-WiFi sensor device

Finding the Firmware installed in my WiFi Device

The firmware version comprises two parts, and is usually reported as shown:



How do I find the firmware version installed in my EL- WiFi Device?

PC Software

You can check the firmware version when setting up your Sensor using the WiFi Sensor Software on your PC.

The full firmware version is displayed on the Network Selection screen.

- Run the WiFi Sensor Software.
- Connect the Sensor to the PC using the USB cable supplied.
- Click on **Set-Up Device**, and select **On This PC** or **On The Cloud**.
- The Network Selection screen will be displayed.
- You can click **Cancel** if you don't want to proceed with Set-Up.



Finding the Firmware Installed in my WiFi Device



Firmware Updater Software

The Application and System Firmware versions are displayed in the **Device Parameters** when the device is connected.

- Run the Firmware Update Software.
- Connect the Sensor to the PC using the USB cable supplied.
- The Sensor will be detected automatically, and the Device Parameters displayed.

On the EasyLog Cloud

- Sign-In to your Cloud account.
- Navigate to the **Device** page.
- Click on the sensor.
- The full version is displayed.



On the device

- Press and hold the button for 10 seconds.
- When the button is released the Application Firmware version is briefly displayed.



Help with Firewalls (Symantec, Windows, ZoneAlarm & McAfee)





Help with the Symantec Firewall

What is this?



This Help Guide refers to the WiFi Sensor Software. These instructions are for the Symantec Norton Internet Security software, although they may equally apply to other Symantec products.

How do I allow the EasyLog Cloud WiFi Sensor Software to communicate through my Symantec Norton firewall?

Open up Norton Internet Security

- 1. In the main window, click Settings.
- 2. In the Settings window, under Detailed Settings, click Firewall.
- 3. On the Program Rules tab, select WiFi Sensor Software.
- 4. In the Access drop-down list for the program entry, click Allow.
- 5. Click Apply.

How do I open the ports required by EasyLog Cloud WiFi Sensor Software?

Open Norton Internet Security

Choose the Settings menu option on the control panel and click Configure in the Smart Firewall menu tab.

- 1. Select Configure under the Advanced Settings section of the menu followed by the Add menu button. Click Allow and Next in the Add Rule Wizard.
- 2. Choose the Only <u>Communications</u> that match all types and ports listed below menu option followed by the Add button.
- 3. Click individually specified ports and enter the port numbers being blocked by Norton Internet Security. You will need to open up TCP port 10080 and UDP ports 1024 and 8010. After entering the port number, select the OK and Next menu buttons.
- 4. Enter a name for the new firewall rule followed by the Next and Finish menu buttons and exit Norton Internet Security to complete opening the desired port.



Help with Windows Firewall

What is this?

This Help Guide refers to the WiFi Sensor Software. These instructions are for the Windows Firewall incorporated in Windows 7 and 8, although they may equally apply to other Windows Operating Systems.

How do I allow the EasyLog WiFi Sensor Software to communicate through my PC firewall?

- 1. Open your Windows Firewall
- 2. In the left pane, click Allow a program or feature through Windows Firewall.
- 3. Click Change Settings. If you're prompted for an administrator password or confirmation, type the password or provide confirmation.
- 4. Select the check box next to the program you want to allow, select the network locations you want to allow communication on, and then click OK.



How do I open the ports required by the EasyLog WiFi Sensor Software?

Open your Windows Firewall

- 1. In the left pane, click Advanced Settings. If you're prompted for an administrator password or confirmation, type the password or provide confirmation.
- 2. In the Windows Firewall with Advanced Security dialog box, in the left pane, click Inbound Rules, and then, in the right pane, click New Rule.
- 3. Select Port and click Next.
- 4. Select TCP and Specific Local Port and type 10080 in the box.
- 5. Click Next and select Allow the connection
- 6. Click Next and tick the required boxes
- 7. Give the rule a name and click Finish
- 8. Follow the same rules for UDP ports 1024 and 8010



Help with ZoneAlarm Firewall

What is this?

This Help Guide refers to the WiFi Sensor Software. These instructions are for the ZoneAlarm Pro Antivirus and Firewall software, although they may equally apply to other ZoneAlarm products.

How do I allow the EasyLog WiFi Sensor Software to communicate through my PC firewall?

Open ZoneAlarm Pro Antivirus and Firewall

- 1. In the Firewall tab, click **Settings** for the **Application Control** category.
- 2. Click View Programs.
- 3. Click Add.
- 4. Select WiFi Sensor Software.
- 5. Click Open.

How do I open the ports required by the EasyLog WiFi Sensor Software?

- 1. Select Firewall.
- 2. In either the Trusted Zone or Public Zone area, click Custom. The Firewall settings dialog appears.
- 3. Scroll to the security level (High or Medium) to which you want to add ports.
- 4. Select the desired port type: incoming UDP, outgoing UDP, incoming TCP, or outgoing TCP.
- 5. You will need to unblock TCP port 10080 and UDP ports 1024 and 8010
- 6. Click Apply, then click OK.



Help with McAfee Firewall



What is this?

This Help Guide refers to the WiFi Sensor Software. These instructions are for the McAfee All Access software, although they may equally apply to other McAfee products.

How do I allow EasyLog WiFi Sensor Software to communicate through my PC firewall?

Open your McAfee application.

- 1. Click Web and Email Protection.
- 2. Click Firewall.
- 3. Click Internet Connections for Programs drawer.

NOTE: Depending on the version of the McAfee software you have installed, this may be called Program Permissions.

- 4. Scroll to the bottom and click Add.
- 5. Click Browse and locate the folder ..
 - a. C:\Program Files (x86)\WiFi Sensor Software\
 - b. On some systems the folder may be .. C:\Program Files\WiFi Sensor Software\
- 6. Select the program WiFi Sensor Software.exe and click Open.
- 7. Set the access type to Full in the Access: drop-down menu.
 - a. Click Save.

How do I open the ports required by the EasyLog WiFi Sensor Software?

Open your McAfee Windows Security software.

- 1. Click Web and Email Protection.
- 2. Click Firewall.
- 3. Click Ports and System Services.
- 4. Click Add.
- 5. Enter the WiFi Sensor Software of the application with the System Service Name field. The exact name is unimportant. Scroll down.
- 6. In the Local TCP/IP Ports: field enter 10080.
- 7. In the Local UDP Ports: field enter 1024, 8010.
- 8. In the Open ports to: drop-down menu, select All PCs.
- 9. Click Save.
- 10. Verify that the application functions correctly.















What is

This help document offers guidance on Network Requirements and Settings for EasyLog™ EL-WiFi data logging sensors.

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Sensors working on the Cloud?	.9



What Network Requirements are required to use the EasyLog™ WiFi Sensor Products?

The earlier versions of the EasyLog[™] data logging sensors require an *802.11b compatible network and support the following encryption methods:

- None. No authentication or encryption not recommended
- WPA/WPA2 Pre-shared key (PSK) -- recommended
- WPA/WPA2 Enterprise (see below for more information)
- WEP 64bit or 128bit encryption. Requires WEP passkey in hexadecimal rather than ASCII passphrase.

The earlier WiFi Sensors will only operate on a *802.11b network using data rates of 1,2,5.5 & 11 Mb/s. Wireless access points must be configured to allow *802.11b traffic (not g or n only modes). The later devices will operate on an 802.11g/n WiFi network.

By default the WiFi Sensors will obtain an IP address via DHCP, this is normal for most networks. The IP address can also be manually configured (see below for more information).

When using the PC software the sensors must be connected either wired or wirelessly to the same network and use the same IP address range as the PC.

If the software is running on a virtual machine it may be given a different IP address to the host PC. It will need to be given an IP address that is in the same range as the WiFi Sensors.

If you have multiple network connections on the PC, the software may not be able to automatically choose the one which the WiFi Sensors are connected to. See below for more information.

When using the EasyLog™ Cloud service the sensors and the PC do not need to be on the same network but both require an internet connection during setup.

Wireless access points must have wireless isolation or guest modes disabled to enable communication between devices.

Corporate networks may need additional configuration to allow communication between the sensor and the PC.

MAC Address filtering on the access point must be disabled or the address of the sensors included in the allowed list. The MAC Address can be found on the serial number label on the back of the unit.

* This does not apply to WiFi data loggers with the MAC address range 98:8B:AD:2x:xx:xx, as these are later 802.11g/n client devices and will detect g and n network rates.



How do the EasyLog™ WiFi Sensor Products communicate on the network and what firewall settings may be required?

The WiFi Sensors communicate using different methods depending on whether they are connected to a local PC or to the EasyLog™ Cloud.

All communication is initiated by the WiFi Sensors themselves. While not communicating, the devices are in a low power mode with the radio module turned off.

Local PC:

The Firewall must allow full access to the WiFi Sensor Software, failure to do so will prevent the sensors from communicating.

From Application Firmware version 3.xx onwards, the WiFi sensors primarily use TCP port 10080 to communicate with the PC Software. In addition they use UDP broadcast packets on UDP ports 1024 and 8010 for alarm notifications and discovery of a PC once TCP connection has been lost. Any firewalls running on the PC will need the TCP and UDP ports open for correct operation.

Cloud Service:

In order to set up the WiFi Sensors on the Cloud, both the PC Software and the Sensors require an internet connection. The PC Software connects to the Cloud via a HTTPS connection in order to set up the sensor. This is only required during initial configuration. The WiFi Sensors communicate with the Cloud using TCP port 14354. Most domestic routers do not have restrictions on outbound TCP connections but corporate networks may require an exception in the router/firewall.

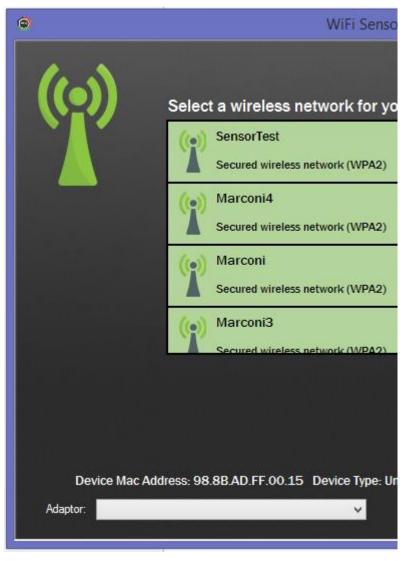
UDP Broadcast:

Communication between the WiFi Sensors and the WiFi Alert unit is achieved using UDP broadcast as the sensors do not have knowledge of how many Alerts are listening on the network. It is also used by the WiFi Sensors when running in local PC mode when TCP connection to the PC is lost. This is in order to recover from the situation where the IP address of the sensor may have changed. In order to reduce network traffic, many managed wireless networks have UDP broadcast traffic filtered by default which may inhibit the operation of the WiFi Devices. On Aruba managed networks this setting is called 'Drop Broadcast and Multicast Traffic'.



My PC has multiple network connections. Is this a problem?

When using the WiFi Sensors with the PC software, they must be on the same network in order to communicate. If the PC has multiple network connections e.g. wired and wireless, the WiFi Sensor Software may not be able to automatically select the correct network connection.



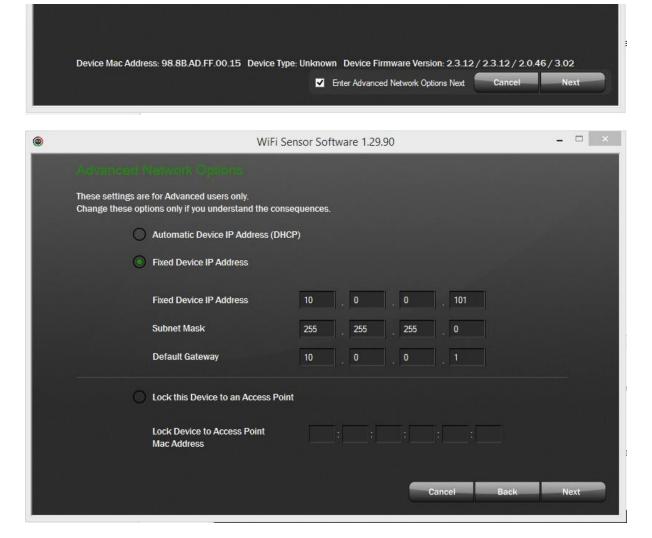
On the Wireless Network selection screen, click on the green antenna symbol on the top left of the window. This will cause a dropdown box to appear on the bottom left. Select the network adaptor which corresponds to the same network as the WiFi Sensors. Then continue the setup as normal.



How do I configure my WiFi Sensors with a static IP Address?

If you do not have a DHCP server on your network or wish to manually assign an IP address, these settings are found on the Advanced Network Options screen. Ticking the box on the Wireless Network Selection screen then clicking Next will take you to the advanced options.

If you are manually assigning static IP addresses to the sensors you must also assign a static address to the PC you are using to administer the sensors.





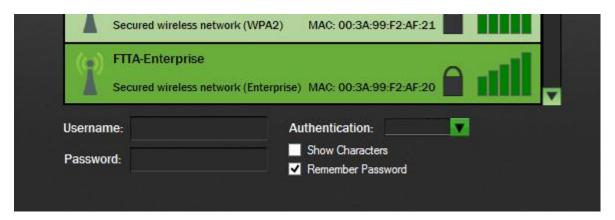
Can I connect my WiFi Sensors to a wireless network with Enterprise Authentication?

Enterprise Authentication is supported on devices with System Firmware of 2.3.12 and above.

We support the following Authentication Methods:

- PEAP/MSCHAPv2
- FAST
- TTLS

Selecting an Enterprise network will prompt entry of a username and password:



You also need to select the authentication type in the dropdown box. Consult your IT Administrator if you are unsure what type of enterprise network you have.

We do not support the following types which require a client certificate to be installed:

- TLS
- GTC
- LEAP

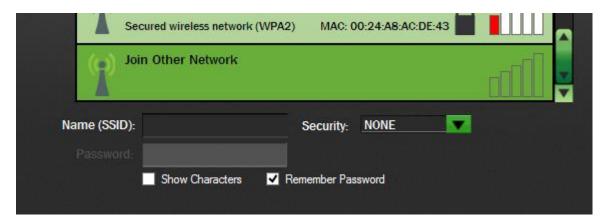


My Wireless Network doesn't appear in the list, what could be causing this?

If you have refreshed the network list several times but your network does not appear, there are several possible causes:

The wireless network could be out of range of the sensor, try moving the sensor and the access point/router closer together and trying again.

The wireless network name (SSID) could be hidden. Either change the access point or router configuration to make the SSID visible or use the option to connect to Join Other Network and enter the details manually.



The SSID may contain invalid characters. The Wifi sensors are unable to handle certain special characters such as spaces or commas in the SSID or trailing spaces at the end. You may need to change the SSID of the network. This also applies to passwords.

The wireless network may not have the correct modulation or data rates enabled. The Wifi sensors require *802.11b to be enabled. See section What Network Requirements are there to use the EasyLog™ EL-WiFi Sensor Products?



This will not apply to WiFi data loggers with the MAC address range 98:8B:AD:2x:xx:xx, as they are later 802.11g/n client devices and do not require the legacy modulations enabled.



I am getting an 'Error Saving' message at the end of the set-up process for my WiFi Sensor, what could be causing this?

At the end of the set-up process, the WiFi Sensors transmit a test message to the PC Software or to the Cloud in order to confirm that the configuration is correct. This error message is most often due to the test connection failing.

Local PC:

The most common reason for the test connection to fail is the packets being blocked by a firewall on your PC. Please follow our firewall configuration guides to ensure that you have the required ports open.

In order to communicate, the PC must be on the same network as the wireless device which the sensors are connected to. Another cause of the test connection failing can be if you have multiple network adaptors on your PC, such as a wired and wireless connection or a USB 3G Modem connected. Please see the help section on multiple network adaptors here.

Cloud Service:

When connecting a sensor to the Cloud, the message is transmitted across the internet to the Cloud Server. This requires the sensor to be able to access the internet via the wireless network on TCP Port 14354. Most domestic internet routers do not have restrictions on outbound TCP connections by default. Users on corporate networks may need to contact their IT Administrator to ensure that TCP Port 14354 is open for outbound traffic.



There is an Enterprise Level Firewall (eg Sonicwall, Fortigate) on our network; will this stop the WiFi Sensors working on the Cloud?

The answer to this depends very much on the configuration of the Firewall. If the Firewall is configured to allow unrestricted outbound traffic, it should not cause any issues.

Some corporate firewalls are configured to only allow traffic from known or authenticated clients, eg using Windows Domain Login. As the WiFi Sensors are unable to respond to requests to identify themselves, the Firewall may not allow access through to the internet. In this case, an exception will need to be added for the IP or MAC Address of the WiFi Sensor. Please consult your IT Administrator.

How do I Restart or Reset my EasyLog™ WiFi Device?















What is this?

This Help Guide refers to EasyLog™ WiFi Devices, including Sensors and Alert

How do I Restart or Reset my EasyLog™ WiFi Device?

Under normal circumstances, you do not need to reset your EasyLog™ WiFi Device. However you may be instructed to do this by our support team to recover a Device which is not working properly, or return it to its factory state.

Restart

Performing a Restart on the WiFi Sensor will restart the internal firmware, retaining all configuration and network settings. The Sensor will disconnect from the wireless network, and immediately enter a low power sleep mode. It can take up to 30 minutes for the Sensor to re-connect and synchronize after a Restart. Under normal circumstances the Sensor will synchronize within 15 minutes. Once communication is re-established the Sensor returns to its normal transmission rate. A Restart will cause a new recording session to be started.

To perform a Restart...



WiFi-TH/WiFi-TH+

From the Sensor Home screen Press and hold the button for 10 seconds Release when the **LOW** symbol starts to flash.



All other Sensor types

T,T+,TP,TP+,TC,DTP,DTP+,DTC



From the Sensor Home screen Press and hold the button for 10 seconds

Release when the LCD shows



How do I Restart or Reset my EasyLog™ WiFi Device?





WiFi-AL (Alert)

Press and hold the button for 10 seconds Release when the LEDs start to cycle.

Factory Reset

Performing a Factory Reset on the WiFi Sensor will clear all internal configuration and network settings. The Sensor will disconnect from the wireless network, and all WiFi activity is stopped. When you want to use your Sensor again, you'll need to connect the Sensor to a wireless network and reconfigure it using the WiFi Sensor Software.

You should perform a Factory Reset prior to shipping the Sensor or before storage.

To perform a Factory Reset...



WiFi-TH/WiFi-TH+

From the Sensor Home screen Press and hold the button for 20 seconds

Release when the LCD shows



All other Sensor types

T,T+,TP,TP+,TC,DTP,DTP+,DTC

From the Sensor Home screen Press and hold the button for 20 seconds

Release when the LCD shows FA-5

How do I Restart or Reset my EasyLog[™] WiFi Device?





WiFi-AL (Alert)

Press and hold the button for 20 seconds. The LEDs will cycle. When the LEDs go out, release the button.

Transferring Existing Data



What is this?

This Help Guide refers to the WiFi Sensor Software

How do I transfer existing Sensor data to a new PC running the WiFi Sensor Software?

If you need to start using a new PC to store your data, and you have existing Sensor data on your old PC which you want to retain, you can transfer this data to your new PC, by copying folders and files.

The new PC must be on the same network as the WiFi Sensors, and in the same sub-net.

Close the WiFi Sensor Software, before you begin.

1. Copy the following folder from your old PC to your new PC, including any subfolders and their contents, overwriting all existing files.

\Program Files\WiFi Sensor Software\

Or \Program Files (x86)\WiFi Sensor Software\ on some PCs

2. Copy the following folder from your old PC to your new PC, including any subfolders and their contents, overwriting all existing files.

\My Documents\WiFi Sensor Software\

Or \Documents\WiFi Sensor Software\ on some PCs

3. Copy this file from your old PC to your new PC

\My Documents\WiFi Sensor Software\config.wft

Or \Documents\WiFi Sensor Software\config.wft on some PCs

Download and install the latest WiFi Sensor Software on the new PC. This may perform a repair or update to the copied version. Your existing data will not be overwritten. Download the latest WiFi Sensor Software from www.lascarelectronics.com/software/easylog-software/easylog-wifi

Transferring Existing Data



When you're sure that all your data is copied across, and that you can access it on your new PC you can completely uninstall the software from your old PC, by following the steps in our Help Guide - "Completely remove the EasyLog WiFi Sensor Software from your PC". You cannot have more than one PC on the same network running the WiFi Sensor Software and listening for Sensor transmissions.

When you run the WiFi Sensor Software on the new PC, the WiFi Sensors will automatically find the new PC and start storing data to the new location. To establish connection to the new PC more quickly, press the Sensor button(s) 3 times to display the signal strength screen. This causes an immediate connection and transmission of outstanding data.















What is

This document is a step-by-step problem solver, addressing some of the most commonly encountered problems and issues when setting up and using EasyLog™ WiFi data logging sensors.

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Section 1 – WiFi Device will not connect to the PC via USB

You have the WiFi Sensor Software downloaded and installed on your PC. You've run the software and connected the WiFi device to the PC using the USB cable provided but the software does not recognise connection of the device.

- 1) Unplug the USB cable and reconnect
- 2) Sometimes USB cables can fail, if possible try another USB cable
- 3) There may be a problem with the USB ports on your PC, try another USB port
- 4) Restart the PC and reopen the WiFi Sensor Software

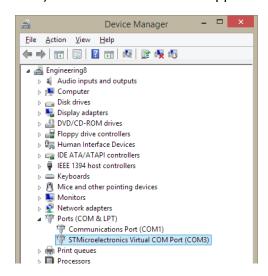
If the above has not resolved the problem please try the options below ...

- 1) Restart the WiFi device by holding the button for 10 seconds (the unit flashes 'LOW' battery symbol or shows **r5L**)
- 2) Factory reset the WiFi device by holding the button in for 20 seconds (dependent on FR type, the unit shows r5 or FRr5)
- 3) Unplug any unnecessary USB devices



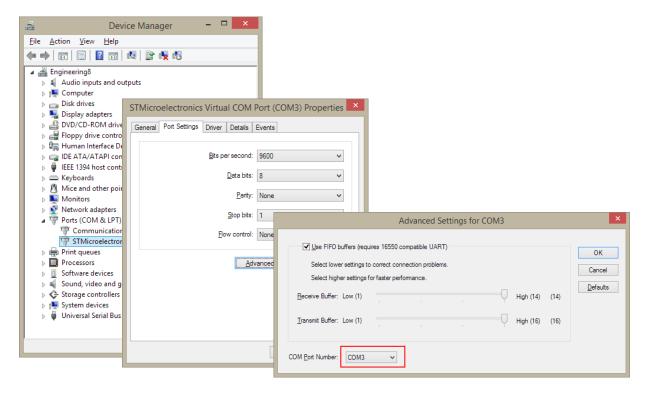
If the instructions on the preceding page have not resolved the problem, please try the options below ...

1) Check that the Device appears in Device Manager when connected via USB



You should see a COM Port labelled STMicroelectronics. Check that is it is not disabled and showing as working normally.

- 2) If the Device is listed but not working please reinstall the software.
- 3) Change the COM port number. To change the COM port go to Control Panel, Hardware and Sound, Device Manager, Ports, STMicroelectronics Virtual COM port, Port Settings, Advanced and then select a COM port from the drop down menu that is not in use.



If you have tried all of the above but the Device is still not recognised by your PC please contact your supplier.



Section 2 - Connecting to wireless networks

My wireless network does not appear in the list during setup

- 1) Refresh the network list
- The WiFi Device may be out of range of the access point or router - move the Device closer
- 3) The wireless network name (SSID) for your network may be hidden select
 Other Network and enter the parameters manually
- 4) Restart your access point or router
- 5) Your wireless network may not support the required *802.11b data rates check configuration of your access point or router. Refer to the Network Requirements and Settings guide.
- On rare occasions the SSID may contain invalid characters which can stop it from being displayed. Refer to the Network Requirements and Settings guide.

If you have tried all of the above but the wireless network still does not appear in the list, please contact your IT Administrator or supplier

My wireless network appears in the list but the WiFi Device fails to connect

- Have you selected the correct wireless network? There may be multiple networks with the same name (SSID). If necessary check the MAC Address of your access point or router against that shown in the list of networks.
- 2) Check that the password being entered is correct don't forget it is case sensitive
- 3) The WiFi Device may be out of range of the access point or router move the Device closer
- 4) If the wireless network is using WEP Encryption ensure that the HEX key is being entered rather than the password. Online converters are available. The passkey consists of a string of characters A-F and numbers 0-9.
- 5) Does your password contain any punctuation or special characters? Most punctuation is fine but some characters, particularly spaces and commas cannot be handled by the WiFi Sensors. Try changing the password to remove any special characters.
- * This will not apply to WiFi data loggers with the MAC address range 98:8B:AD:2x:xx:xx, as they are later 802.11g/n client devices and do not require the legacy modulations enabled.



NOT CONNECTED



If the instructions on the preceding page have not resolved the problem please try the advanced options below:

- 1) If the PC has two network connections you may need to manually select the network which will be used to communicate with the WiFi Devices. Refer to the Network Requirements and Settings guide.
- 2) If there are multiple access points with the same SSID you may need to manually select the individual access point. Refer to the Network Requirements and Settings guide.
- 3) Check if *802.11b is enabled on the wireless access point or router.
- 4) Ensure MAC address filtering on the access point or router is either disabled or the WiFi Device is in the allowed list.
- 5) If you are using a DHCP service to allocate IP Addresses on your network (this is normally the case) check that you have not reached the limit on the number of IP Addresses. If necessary refer to your IT Administrator.
- 6) If you are running the software on a Virtual Machine, it must be allocated an IP address in the same range as the physical PC.
- 7) If the network requires you to log in on a web page after association, the WiFi Device will not be able to communicate using it.



This does not apply to WiFi data loggers with the MAC address range 98:8B:AD:2x:xx:xx, as these are later 802.11g/n client devices and will detect g and n network rates.

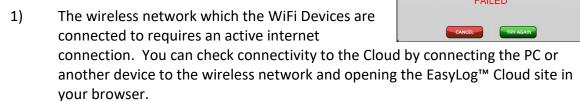


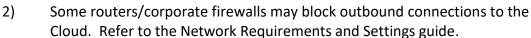
Section 3 – Failure to complete the setup process

My WiFi Device fails to save settings when setting up on the PC

- 1) Make sure that the Firewall on the PC allows full access to WiFi Sensor Software.
- 2) If your PC has multiple network connections this may prevent communication with the WiFi Device. If possible disconnect any networks other than the one which the WiFi Device is connected to. Refer to the Network Requirements and Settings guide.
- 3) Some wireless networks are configured in 'Isolation' mode which must be disabled to allow communication between the WiFi Device and the PC. This will normally be found in the advanced settings of the access point or router. Guest networks will also prevent communication with other devices on the same network.
- 4) The EasyLog™ WiFi Devices use UDP packets on ports 1024 and 8010, it may be necessary to open these up to allow communication.

My WiFi Device fails to save settings when setting up on the Cloud









Section 4 – Cloud Sign-In problems using the PC Software.

I cannot Sign-In to my Cloud Account from the PC software.

If you are unable to sign in to your Cloud Account through the PC software please check that:

- 1) Your PC has an active internet connection and you are able to view the EasyLog™ Cloud website using your browser.
- 2) You have activated your Cloud Account by following the link in the Sign-Up email
- 3) You are using the correct email address and password





Section 5 – Loss of Connection

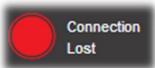
My WiFi Device loses connection to the PC or the Cloud.

Generic (applies to both Cloud and PC connected WiFi Devices)....

- Check the signal strength of the wireless network (press button on WiFi Device 3 times to view signal strength) and consider moving the WiFi Device or access point/router
- 2) Try restarting your wireless access point or router
- 3) If your wireless network consists of multiple access points with the same SSID the WiFi Device may not be connecting to the access point with the strongest signal. Refer to the Network Requirements and Settings guide.
- 4) If you are not using the latest firmware version, consider updating your WiFi Device.

Cloud

1) Check your internet connection. Can other wireless devices connect to the internet?



2) Consult your IT Administrator, there may be network authentication or corporate firewall rules which are preventing the WiFi Device from communicating. Detailed information on how the WiFi Device communicates can be found in the Network Requirements and Settings guide.

PC Software

1) In the event that the WiFi Device loses connection with the PC software it uses UDP broadcast packets to attempt to discover this. Some wireless networks are configured to block UDP broadcast. Check your access point configuration. Alternatively configure your PC and WiFi Devices with static IP Addresses (Refer to the Network Requirements and Settings guide).

2) Resource limitations on the PC running the WiFi Sensor Software may cause the processing of messages from the WiFi Devices to take an excessive amount of time. This may cause the WiFi Devices to lose connection. Try closing some programs or restarting your PC. Some Firewall and Anti-Virus/Security software may also cause issues here.



Section 6 - Miscellaneous Items

- 1) If you are using the PC software and the Next button is missing on the Alarms page ensure your font scaling is set to 100%
- 2) If the software doesn't run on Windows 8 or Windows 10 you may need to install .NET 3.5 SP1 framework and .NET 4.5.





What is this?

This guide describes the process of updating an EL-WiFi device's firmware.

- 1. From version 1.30.41 of the EasyLog ™ WiFi Sensor Software onwards, the Firmware Updater is found within the Advanced Tools section.
- 2. Click on the Firmware Updater icon to launch the software. Follow the on-screen instructions.





3. Connect the WiFi Device you want to update to the PC using the USB cable supplied.

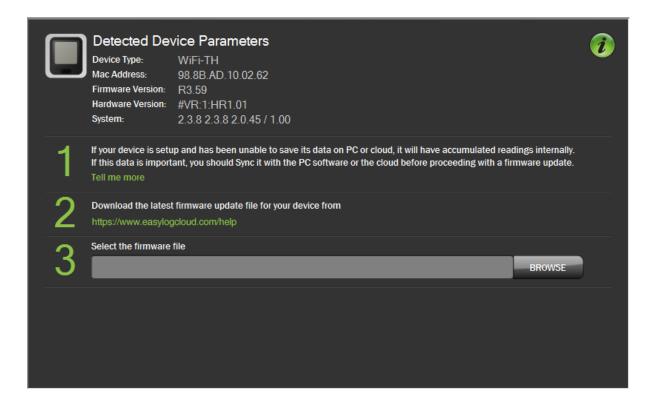


If you are unable to connect do the following:

- a. Check that the USB cable is connected securely to the WiFi device and the PC.
- b. Try re-connecting the USB cable.



4. Update Firmware – this page shows details of the connected WIFi device, including the MAC address and the current version status of firmware, hardware and system. Follow the steps indicated to update your device with the latest firmware.

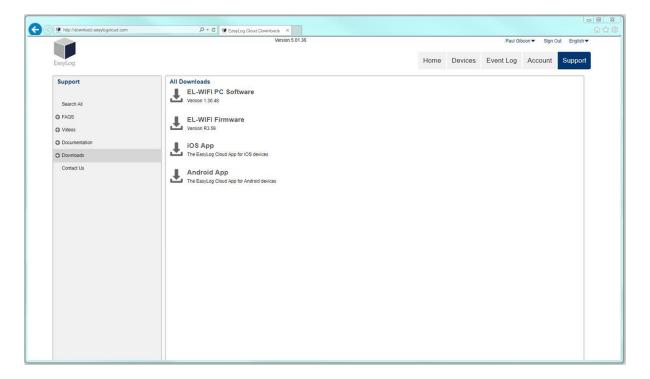


5. Click on the link in step 2 to open the 'Download' web page.

Note: If the web is not accessible from this PC you can download the firmware separately and copy the file over.



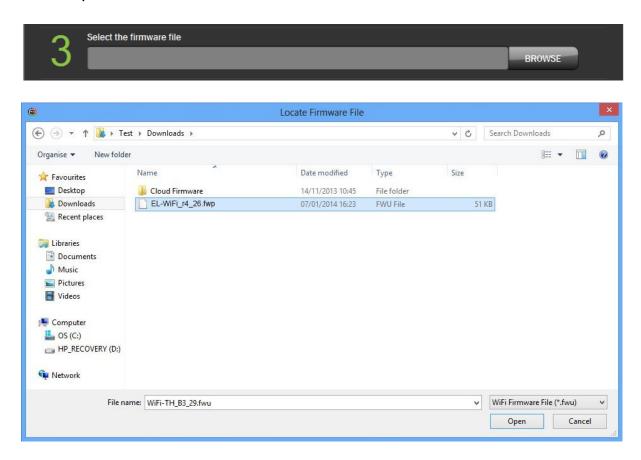
6. Select the Downloads option and click on 'EL-WiFi Firmware' to download the firmware update package.



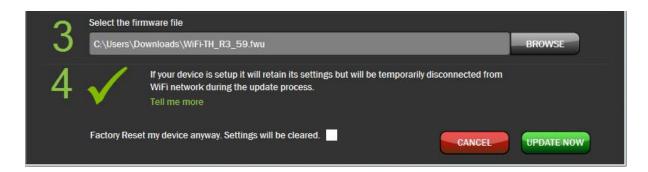
7. Follow the on-screen instructions and save the file to an easily accessible location on your PC.



8. Once the file is saved onto your PC return to the 'WiFi Sensor Firmware Updater' software. Click browse and locate the saved file.



9. If possible, existing network and configuration settings will be preserved during the update process. If this is not possible, the software will warn you that a Factory Reset will be performed. If you are sure that you do not need to preserve any settings, you can choose to Factory Reset my device anyway, by selecting that option.







Note: Please be aware that following a Factory Reset, any accumulated internal readings that have not been synchronised will be lost.

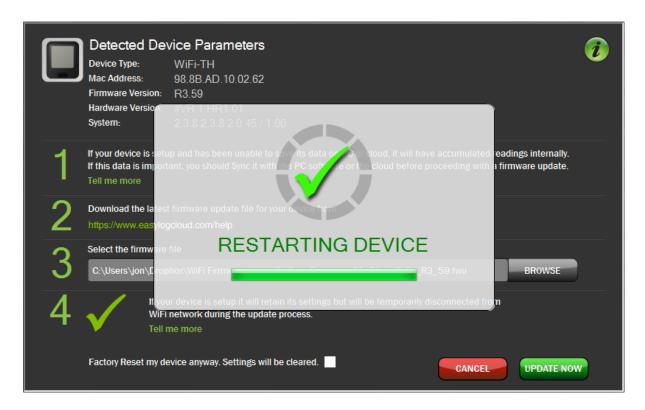
10. Click 'Update Now' to start updating your WiFi Device.

Note: The WiFi Device must remain connected during the update process.





11. Once updated the WiFi Device will restart.





12. Your WiFI Device is updated. Click 'OK' to exit the Firmware Updater Software.



13. If you chose to Factory Reset your device or were required to do so during the update process you will now need to set-up your device using the WiFi Sensor Software following the on screen instructions.

Using the USB Download Tool





What is this?

This help document offers guidance on using the USB Download tool with the EasyLog™ WiFi Sensor Software.

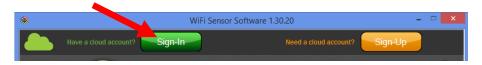
What is the purpose of the USB Download Function?

Under normal operation the EasyLog™ WiFi sensors will regularly transmit their readings to either a PC or the EasyLog™ Cloud. However, under some circumstances where this is no longer possible, the PC Software is able to retrieve any unsent readings via the USB port. The retrieved readings can be stored either locally on the PC or if the sensor was setup for the Cloud the readings can be synchronised to the Cloud just as if the sensor had continued to transmit.

How to perform the USB Download

To perform the download you will need to connect the sensor to the PC using the micro USB cable supplied. Once connected run the WiFi Sensor Software as per normal.

If the sensor was setup on the Cloud and you want the unsent readings uploaded to the Cloud then sign in first using the button at the top.



Note: You will not be able to synchronise readings to the Cloud if the sensor you are connected to is not presently set up on the account you sign in to.

Using the USB Download Tool



Click on Advanced Tools and select USB Download.



The software will now connect with the sensor via USB. Once connection has been established you will be offered various settings for the download.

Depending if you signed into the Cloud and the sensor was detected within your account you will be offered the choice to synchronise to the Cloud or Download to the PC. Select the appropriate destination. If your destination is not available the software will notify you.

If you choose to upload to the Cloud then any further settings required will be taken from your Cloud account settings.



Using the USB Download Tool



If you choose to download to the PC then you will need to select some appropriate settings



Why am I being asked about temperature scale and time zone?

All WiFi sensors store their internal readings in degrees Celsius (°C). The USB Download utility can convert the readings to degrees Fahrenheit (°F) if required.

All readings within the sensor are logged against UTC (GMT+0). You can select to have the readings logged against UTC or the local time zone as set up on your PC.





Before Starting:

- Factory Reset: If you are having difficulty setting up a logger and getting failed setups then a factory reset may resolve the issue. This will clear all the memory on the logger of previous configuration and allow an "Out of the box" Experience again.
 - To do a Factory Reset hold the central button for 20 seconds. You should see after 10 seconds "rSt" on the screen then after 20 seconds "FaRs". Then let go of the button. The logger will now reset and should be ready for setup after around 10 seconds.
- Some networks may need firewall port settings changed or additional exceptions added to allow for successful communication between the logger and its intended recipient. Please see below for details.

Local PC Setup:

- TCP 10080 Inbound and Outbound on the local PC.
- UDP 8010 Inbound and Outbound on the local PC.
- UDP 1024 Inbound and Outbound on the local PC.
- UDP Broadcast must be enabled on the Access-point (AP), if not possible then a static IP address will need to be assigned to the logger during setup. This will often be found where setup was successful but then the logger no longer connects to the local PC/cannot be found.
- The logger and the PC must both be on the same subnet as each other.

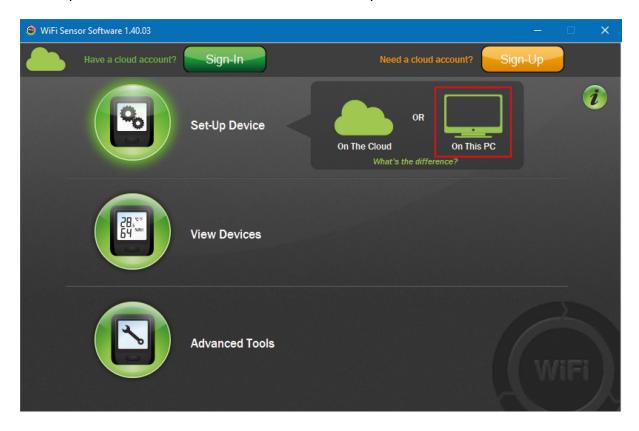
Cloud Setup

- TCP 443 Inbound and Outbound on the Router/Firewall.
- TCP 14354 Inbound and Outbound on the Router/Firewall.
- On a corporate network that only allows access to specific IP addresses the following addresses must be allowed.
 - 0 78.136.35.242
 - 0 134.213.3.2

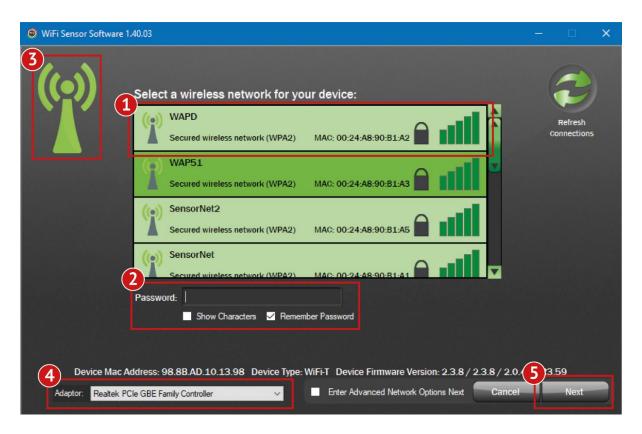


Local PC setup

To setup a new device on the local PC click on "Set-Up Device" then "On This PC".





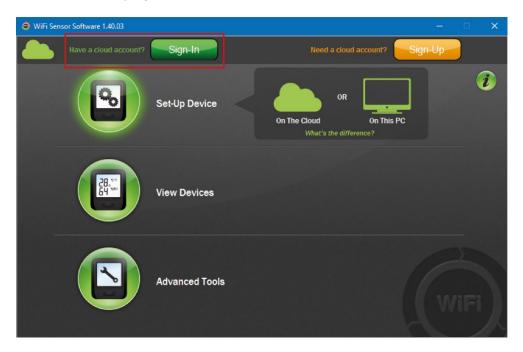


- Ensure that the logger is connected via USB and that only one logger is connected at any one time.
- Next [1] select the Wi-Fi access point to be used by the logger and [2] enter the password below.
- Then [3] Click on the green antenna in the top left, a new option will show at the bottom called "Adaptor".
- [4] Select your local network adapter and not "Software Loopback Interface 1". Finally [5] click "Next".
- Now you can configure the logger with your desired settings:
 - Sensor Name
 - o Use of Degrees C or F
 - o Sample Rate
 - Communication Rate
 - High and Low Alarms
- The last step will save the settings then the logger will attempt to communicate with the PC via the network. If successful you will be prompted to unplug the logger.

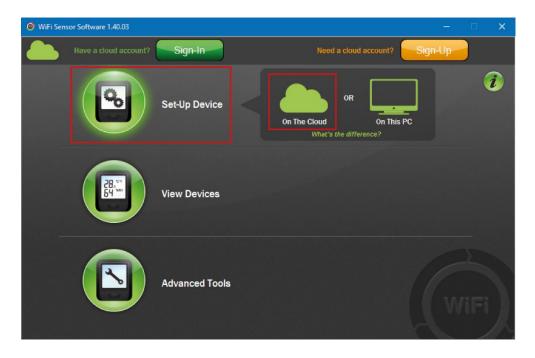


Cloud Setup

- To set up the logger onto the cloud click on "Sign-In" at the top of the home screen.
- Enter your details for EasyLog Cloud. If you do not yet have an account please visit www.easylogcloud.com



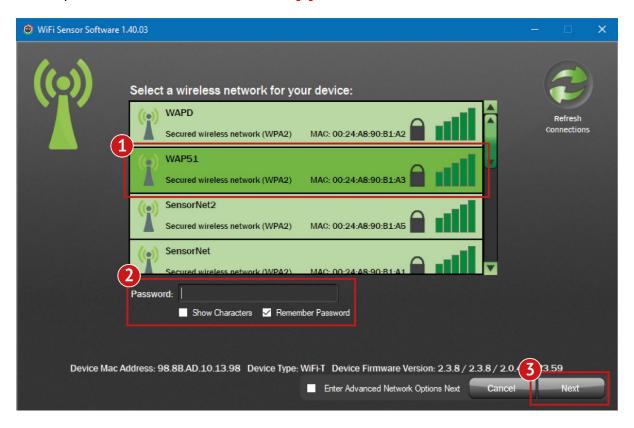
• Next click on "Set-up Device" then "On the Cloud".



• Ensure that the logger is connected via USB and that only one logger is connected at any one time.



• Next [1] Select the Wi-Fi Access Point that the logger is to use. Then [2] Enter the password for the network. To finish [3] click on "Next".



- The next screen will allow you to name the sensor. However, note that the settings cannot be changed from this screen. When done click "Next", the settings will be saved then you will be prompted to unplug the sensor afterwards.
- To view the sensor data or to change its settings such as Sample Rate, Sync Schedule etc... log into the cloud via www.easylogcloud.com
- You can also open the Wi-Fi Sensor Software and click on "View Devices" then "On the Cloud".