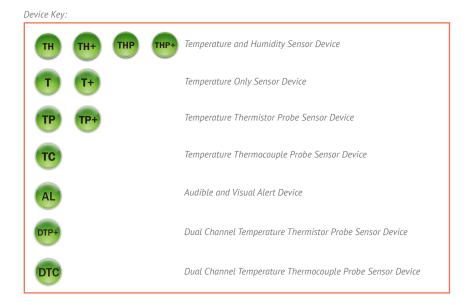


## WiFi Hints & Tips

### Contents

Page No.	Section No.	Title
2	Section 1.0	Prerequisites
3	Section 1.1	Cloud Data Storage
4	Section 2.0	Signing Into A Cloud Account
5	Section 3.0	Connecting A Device & Network Set-Up
8	Section 3.1	Enterprise Networks
9	Section 3.2	Advanced Network Configuration
10	Section 4.0	Device Set-Up
11	Section 5.0	Viewing Previously Saved Data
12	Section 6.0	Firmware Updates
13	Section 7.0	LCD Icons
14	Section 7.1	Device Screens
15	Section 8.0	Battery Life & Charging
16	Section 9.0	Reset & Factory Restore









## Section 1.0 - Prerequisites

### Ensure that you have the following:



21CFR WiFi Device

Micro USB Cable

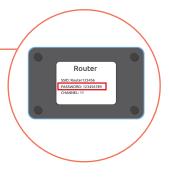




Router or Access Point PC or Laptop (running Windows 7, 8, 10)

### System Set-Up

- 1 You will need the SSID and password for the wireless network. The password is sometimes referred to as the passphrase or passkey and often found on the rear of the wireless router.
- 2 Download and install the free 21CFR WiFi Sensor software from www.easylogcloud.com.
- 3 Make sure you 'allow' any security access highlighted by your Firewall or Antivirus program. Your system may automatically request this.
  - When you have installed the software an icon will be placed on your desktop.







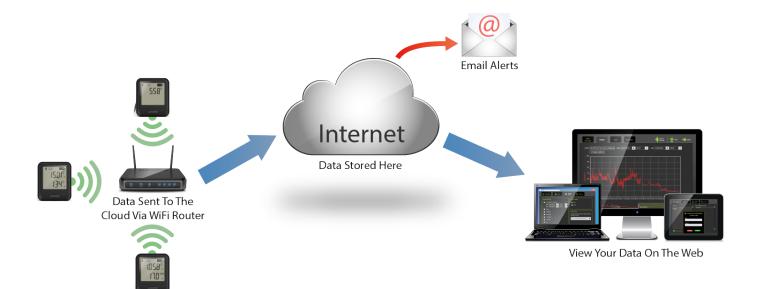




# Section 1.1 - Cloud Data Storage

#### **Cloud Data Storage**

With Cloud data storage all your data is stored remotely on our secure servers . Data is transferred to our servers through the internet and is then accessible from anywhere via a web browser on any internet enabled device.









# Section 2.0 - Signing Into A Cloud Account



3 Upon clicking the Sign Up button you will be taken to the Cloud sign-up web page, at which point you will be lead through the sign up process. Once completed please continue to Step 4.

To sign into your EasyLog Cloud Account on the WiFi Sensor Software click the green 'Sign In' button and then enter your account details into the fields that appear. Finally click 'Sign In' to log into your account.

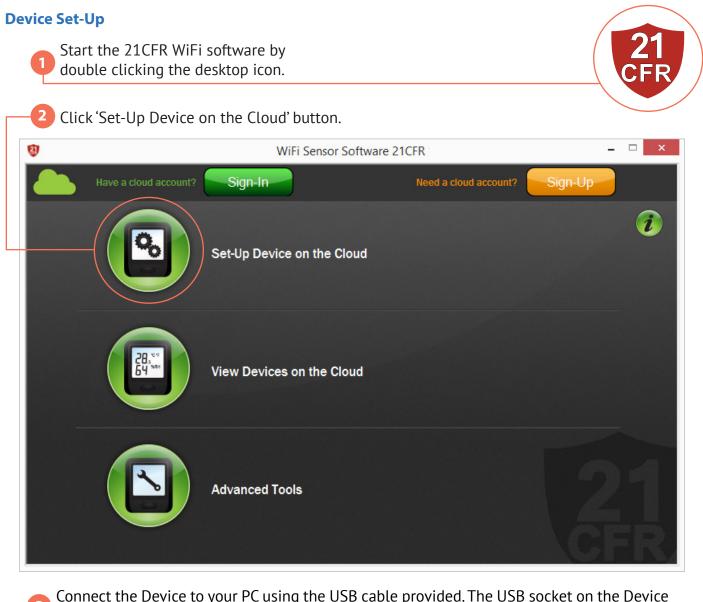








## Section 3.0 - Connecting A Device & Network Set-Up



Connect the Device to your PC using the USB cable provided. The USB socket on the Device is protected by a rubber bung, remove this to gain access to the socket.





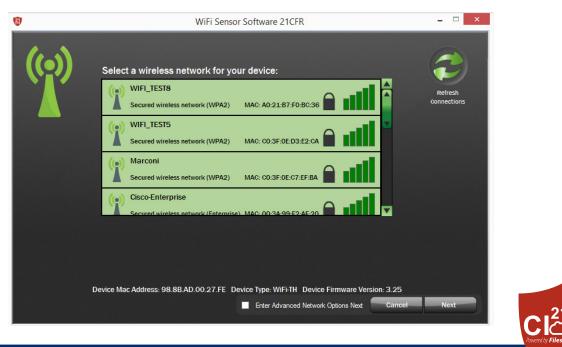
### Section 3.0 - Connecting A Device & Network Set-Up

*Note:* If the Device connects successfully you will see the following screen. If it fails, check the cable is fully connected to the Device and PC. The software will automatically try again.



#### Scanning

When the message 'scanning' appears the Device is listening for wireless networks that are currently in range. Once scanning has completed a list of available networks will be displayed. If the list is blank press the 'refresh connections' button on the top right.





### www.easylogcloud.com

Issue 5\_11-2016 Page 6 of 28



### Section 3.0 - Connecting A Device & Network Set-Up

5 Select the network you wish to connect to.

- <sup>6</sup> If you use a hidden network simply scroll to the bottom of the list and select 'Join Other Network' and then fill in your network details.
- Z Enter the password. Press 'Connect'. After the router has successfully connected press 'Next'.

*Note: If the Device fails to connect to your wireless router the following screen will appear. Follow the on screen instructions and check the four points below.* 

81	WiFi Sensor Software 21CFR	_ 🗆 🗙
	<complex-block></complex-block>	Refresh Connections
	Enter Advanced Network Options Next Cancel	Next

- 1) Check your password
- 2) Click on the software refresh button
- 3) Re-orientate the position of your Device
- 4) Ensure your WiFi router is turned on and within range of the Device







## Section 3.1 - Enterprise Networks

8	WiFi Sensor Software 21CFR	- 🗆 🗙
((•))	Select a wireless network for your device:	
	Marconi2 Secured wireless network (WPA2) MAC: 58:6D:8F:13:54:BF	Refresh Connections
	SensorNetEnterprise Secured wireless network (Enterprise) MAC: 00:23:69:C0:B0:37	
	Marconi3 Secured wireless network (WPA2) MAC: F8:D1:11:84:B0:63	
	Marconi Secured wireless network (WPA2) MAC: CO:3E-0E-07-FE-BA	
	Username: user1 Authentication: PEAP	
	Password: ★★★★★★★★ Password: ★★★★★★★★ Password: PEAP Password: TILS FAST	
	Device Mac Address: 98.8B.AD.00.00.73 Device Type: WiFi-TH Device Firmware Version: 3.32	
	Enter Advanced Network Options Next Cancel	Next

To configure an Enterprise network, enter your username and password. You will also need to select the Authentication type. If you do not know which one to use, please consult your IT administrator.







## Section 3.2 - Advanced Network Configuration

If you need to configure additional network settings such as a static IP address, tick the Enter Advanced Network Options box before clicking 'Next'. If you are unsure, just click 'Next'.

<b>Ø</b>	WiFi Sensor Software 21CFR	- 🗆 🗙
((•))	Select a wireless network for your device:	
	Marconi2 Secured wireless network (WPA2) MAC: 58:6D:8F:13:54:BF	Refresh Connections
	SensorNetEnterprise Secured wireless network (Enterprise) MAC: 00:23:69:C0:B0:37	
	Marconi3 Secured wireless network (WPA2) MAC: F8:D1:11:84:B0:63	
	Marconi Secured wireless network (WPA2) MAC: C0:3E-DE:C7:EE-BA	
	Password:	
C	Device Mac Address: 98.8B AD.00.00.73 Device Type WiFi TH. Device Firmware Version: 3.32	Next

Enter the IP address to configure the device along with the Subnet Mask and Default Gateway.

It is also possible to lock the Device so that it will only connect to one Wireless Access Point. This may be necessary if you have multiple Access Points with the same SSID. Enter the MAC Address of the Access Point.

3)	WiFi Sensor Software 21CFR – 🗆 🗙			- 🗆 🗙
	Advanced Network Options			
These settings are for Advanced us Change these options only if you ur				
Automatic Devi	e IP Address (DHCP)			
Fixed Device IP	Address			
Fixed Device IP	Address 192	. 168 . 123	. 321	
Subnet Mask	255	. 255 . 0	. 0	
Default Gatewa	192	. 168 . 0	]. 1	
Lock this Device	to an Access Point			
Lock Device to Mac Address	access Point 00 :	1A : 2B : 3C	: 4D : 5E	
			Cancel Back	Next





# Section 4.0 - Device Set-Up

Enter your device name. This page also shows the default settings for your device, any changes you wish to make can be done through your EasyLog 21CFR Cloud Account. Once you have entered your device name click 'Next'.

*Note:* For the TC, DTC, DTP+, TP and TP+ WiFi Sensor Devices this page will offer you a choice of probe type. Please select the one you wish to use with your device before continuing.

81	WiFi Sensor Software 21CFR – 🗆	×
	Give your device a name MiRi Sensor (max 20 char.)	
	Your device will be set-up on the Cloud using the following default settings: Temperature Scale: +C Sample Rate: al Minuto Transmission Period: 5 Minutes Alarms: Okashied	
	Audit Check: Off Device Location: New Devices	
	Note: You can change these device settings later on the Cloud	
	Cancel Back Next	

• Once your device is set-up on your EasyLog 21CFR Cloud Account you will see this confirmation screen.

8	WiFi Sensor Software 21CFR	- □	×
	SET-UP SUCCESS		
	Your device has successfully been set-up on the Cloud.  Please disconnect the USB cable now.		
	To see this device on the FilesThruTheAir cloud cick View Devices, and select On The Cloud.	Finish	

Click 'Finish' to return to the start screen. **Go to 21cfr.wifisensorcloud.com and Sign In to your account to view your devices.** 







## Section 5.0 - Viewing Previously Saved Data

To view any files exported from your cloud account and saved on this PC, click on "Advanced Tools" and then "View Saved Data". Only files exported in the text format can be viewed in this Software.









## Section 6.0 - Firmware Updates

#### **Device Firmware Updater**

1

2

To ensure the best possible performance and to support the latest features, we recommend that your devices run the latest firmware versions. Click on the Firmware Updater icon  $\mathcal{O}$  in Advanced Tools, to get started.



If you require assistance please use the Firmware Hints and Tips accessible from the 🥡 button on the Firmware Updater homescreen.

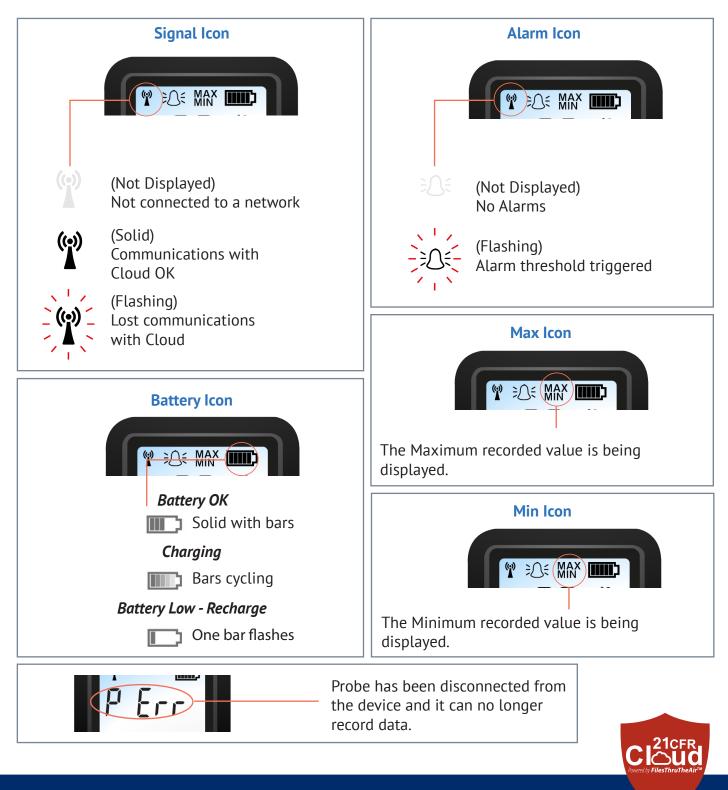
1	Firmware Updater		
	Detected Dev		
	Device Type: Mac Address: Firmware Version: Hardware Version: System:	WFi Device 98.8B AD 20.13.B4 R4.26 #VR:1:HR1.01 5.1.7 13.3.3G / 2.00	
1		up and has been unable to save its data on the cloud, it will have accumulated readings internally. Iant, you should Sync it with the cloud before proceeding with a firmware update.	
2	Download the lates	t firmware update file for your device from	
	http://download.file	esthrutheair.com/21cfr.html	
3	Select the firmware	file BROWSE	





# Section 7.0 - LCD Icons

### **LCD** Icons



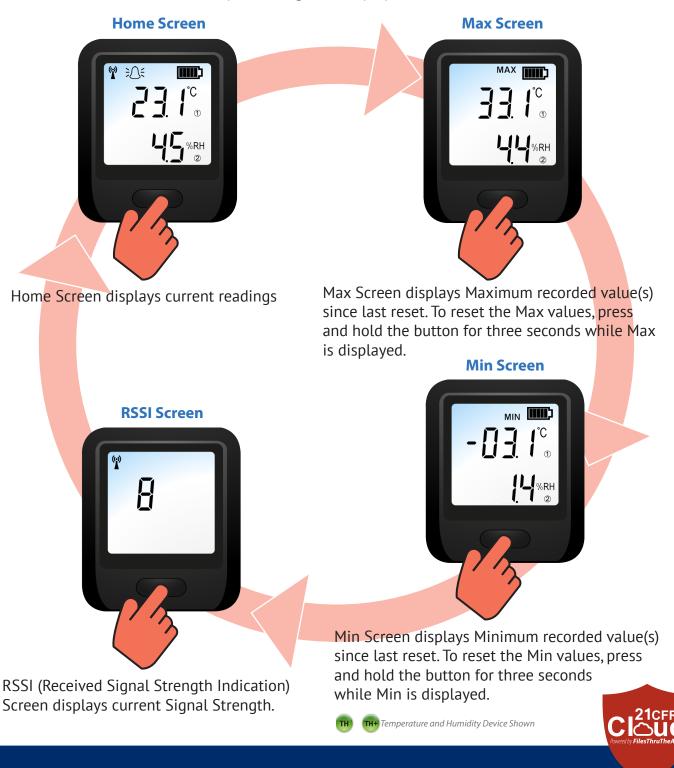




# Section 7.1 - Device Screens

#### **Device LCD Screens**

Use the button on the Device to cycle through the display screens.



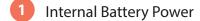




# Section 8.0 - Battery Life & Charging

#### **Optimising battery performance:**

The Devices can be powered in one of two ways:



2 USB/Mains Power

#### **Battery Power**

These Devices contain rechargeable batteries. It is good practice to optimise your system to avoid excessive recharging cycles.

To do this be aware of the following;

Transmitting uses a lot of battery power. By increasing the time between transmissions the battery will last longer.

For example; for a short battery life transmit every minute, for a medium battery life transmit every 10 minutes and for a long battery life transmit once every hour.

#### **Battery Life and Power Supply**

The product will arrive partly charged but ideally you should charge it for 24 hours before use for optimum performance. The battery can be recharged (unit must be between 0 - 40 °C) via a PC, a USB +5V 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.

Battery life is dependent on: transmission period, WiFi encryption method, WiFi encryption key rotation frequency (determined by the router/ access point), signal strength between router/access point and WiFi device, presence volume and type of WiFi traffic from other devices, sample rate and operating temperature.

#### **USB/Mains Power**

If you have a critical process or do not wish to recharge Devices, you can opt to have the USB charger plugged in continuously.





ENE MAX



# Section 8.0 - Battery Life & Charging

#### **Reset / Restore Sensor Device**

### 1 Reset Device

*Warning:* The Device will retain all settings but may lose data that has not been transferred to the PC.

From the Sensor Home screen Press and hold the button for 10 seconds. Release when the LCD shows **r5L** 

### 2 Restore Factory Settings

#### Warning: Only use restore when all other methods have failed.

A factory reset can also be performed, hold the button for 20 seconds until **FAr 5** appears on screen. Doing this will return the Device to the factory state deleting all settings and clearing all previously recorded data.



