

MAINE IMMUNIZATION PROGRAM



VFC 800-WiFi Data Logger with Smart Probe Troubleshooting Guide



Table of Contents

VFC800 Data Logger Kit	3
Display Overview	4
Button Display Overview	6
VFC 800 Wi-Fi Data Logger: How to Fix a Connection Issue.....	7
How to Configure a VFC800-WiFi Data Logger.....	8
Starting the VFC800-WiFi Data Logger	16
Uploading Temperatures to LogTag Online without Wi-Fi.....	17
DDL Replacement Procedure for Coin Cell Backup Battery	19
Resources:	22

VFC800 Data Logger Kit

What's Included

Please check you have each of the items shown below before continuing with setting up your VFC800-WiFi.



VFC800-WiFi



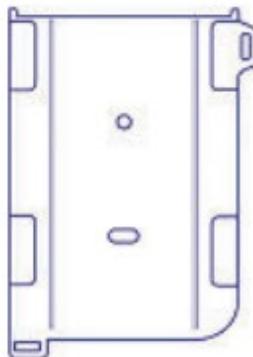
USB Cable



AC Adaptor



Glycol Buffer with Acrylic Stand



Installation & Mounting Kit
Wall mount bracket
(Included)



2x AAA Battery



External Probe

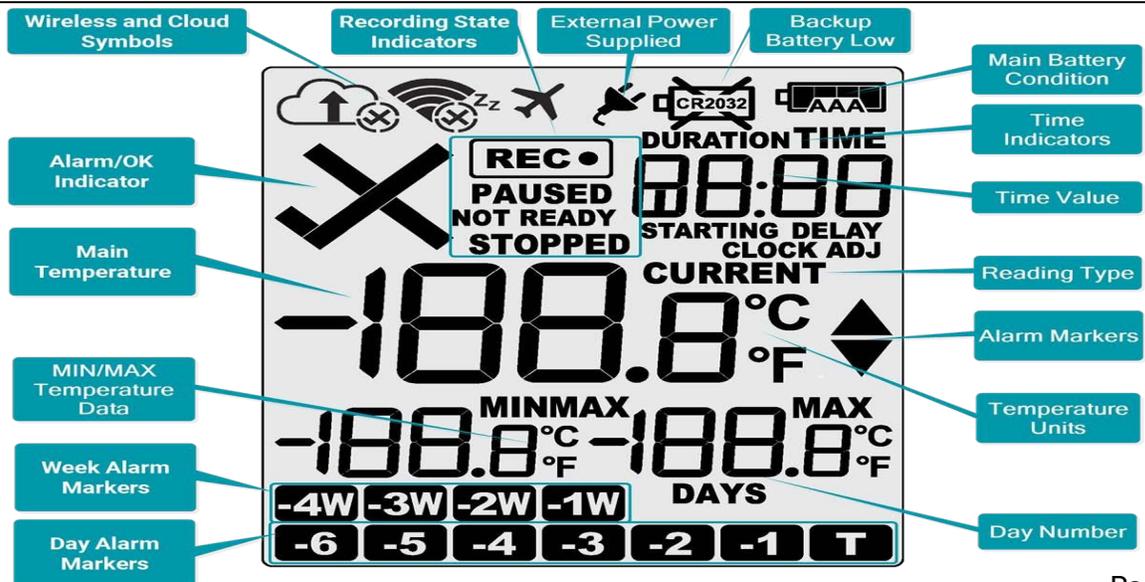
❖ *Each VFC800-WiFi data logger comes with an updated calibration certificate*

Display Overview

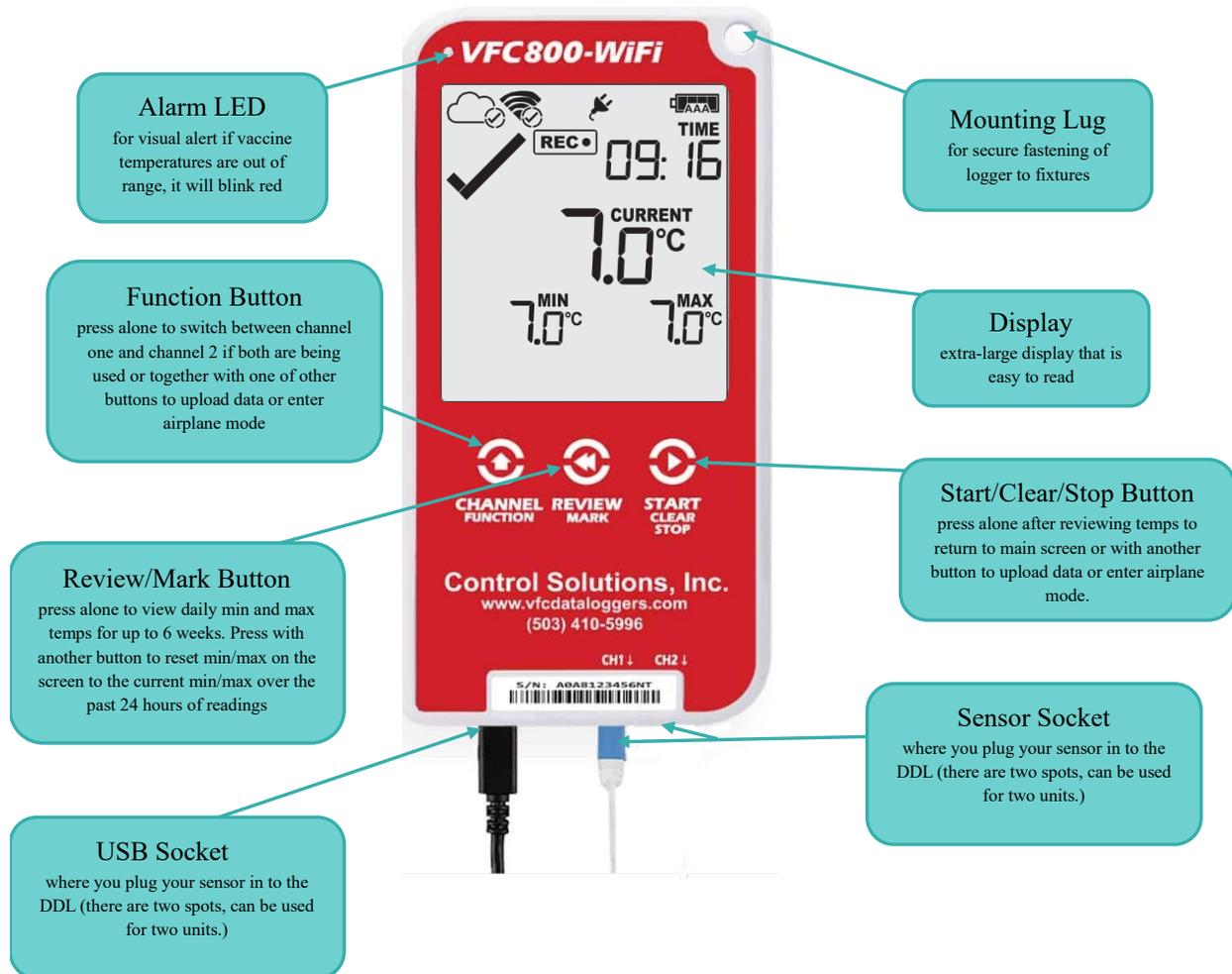
These following symbols will show on display screen if indicated.

	Main Battery Condition- AAA batteries are full.
	Main Battery Condition- AAA batteries are low and need to be replaced.
	Main Battery is empty- replace AAA batteries ASAP.
	External Power is being supplied (the DDL is plugged into an outlet). If there is no plug symbol, the DDL is no longer plugged into power source and is only running on batteries.
	Backup Battery (cell battery) is low and needs to be replaced ASAP.
	Data Logger is searching for wireless internet connection.
	Logger is not connected to wireless internet.
	Logger is successfully connected to wireless internet.
	Logger is only running on battery power, please plug in to outlet
	Data Logger is seaching for wireless cloud connection (LogTag Online).
	Data logger is not connected to the cloud. It is recording but not uploading the data to the cloud.
	Data Logger is connected to the cloud.
	Information from data logger is being uploaded to cloud.
	Alarm indicator- temperature is above or below acceptable limits (should also have audible sound).
	Temperatures are in appropriate range.
	Day Markers- T is for today, -1 is for yesterday, -2 is for 2 days ago etc. Goes up to -6 days. Will stay on screen if excursion is not cleared out.

	Week Alarm Markers- will show on screen from 1 week ago to 4 weeks ago when alarm first occurred.
	This will show if the wifi sensor is disconnected, no temperatures are being recorded. Reconnect probe ASAP.
	Sleep Mode- usefully if logger being stored as it doesn't use as much battery. DDL cannot be restarted via buttons when in sleep mode, must be reconfigured with Control Solutions VTMC Software.
	Logger is ready to be started after configuration. Can be turned off and on with buttons.
	Airplane Mode- If on, wireless functionality is disabled.
	▲ (OR) ▼ Arrow will appear if the temperature displayed is above or below acceptable range
	Data Logger has been paused, useful if you need to remove the sensor temporarily and don't want an alarm to be triggered.
	Data Logger is currently recording.
	Shows the current temperature of the unit it is attached to.
	The logger is not recording temperatures.
	Minimum temperature reached since data logger last configured. NOT the current min.
	Maximum temperature reached since data logger was last configured. NOT the current Max.



Button Display Overview



START/CLEAR/STOP

- To start logger after reconfiguration: DDL will say READY. Press and hold button until STARTING appears on DDL screen and let go. Screen should now show REC letting you know that DDL is recording. Temperatures will show after a few seconds.
- To clear an active alarm press and hold this button for about 2 seconds until the X indication on screen turns to a checkmark. As soon as checkmark appears, release button.
- Press once to return to main DDL screen after reviewing min and max data on the logger.

REVIEW/MARK

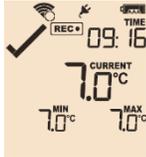
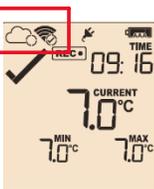
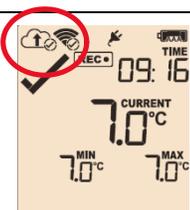
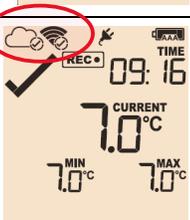
- To view current max temperature, press button. Press again to review current min temperature. Press again to review previous days' max temperature. You can continue to press and release to review previous days min/max for up to 4 weeks.
- To reset min/max on display from logger's overall min and max to the last 24 hours min/max, press and hold button. After 1 second, the number values will alternate with dashes. After 4 seconds the dashes remain on. Release the button within 2 seconds of the dashes staying on screen. The values should be reset, and dashes remain on screen until first temperature is taken at set time interval.

CHANNEL/FUNCTION



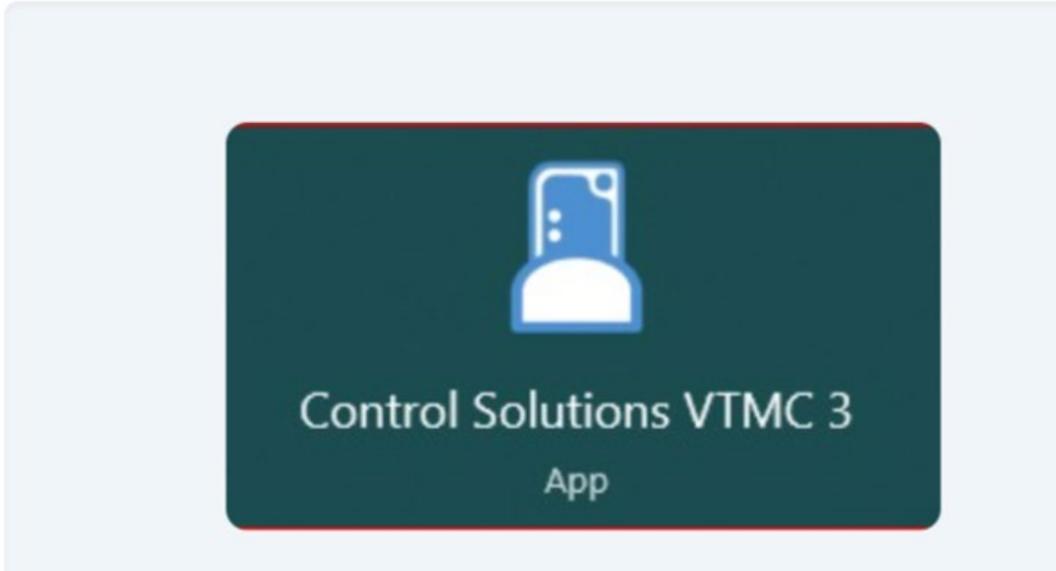
- To reconnect to Wi-Fi and/or cloud, press and hold this button together with **REVIEW/MARK** button for about 6 seconds. During this time, the upload arrow symbol will blink. Release both buttons together when the symbol stops blinking and remains on.

VFC 800 Wi-Fi Data Logger: How to Fix a Connection Issue

<p>1. The symbols in the upper right-hand corner of your datalogger screen should show check marks on both the cloud and Wi-Fi symbol if the data logger successfully connected to LogTag Online and Wi-Fi.</p>	
<p>2. If you do not see the cloud or Wi-Fi symbol with check marks but have temperatures showing, the battery shows full and no other warnings are showing, you will need to test the connection.</p>	
<p>3. To test connection, press and hold the Channel Function button and Review/Mark button at the same time for about 6 seconds. During this time, the upload arrow symbol will show and blink on the display. When the arrow stops blinking and stays on, release the buttons.</p>	 
<p>4. The cloud and Wi-Fi signal may show blank circles, but they will come back quickly.</p>	
<p>5. Once Wi-Fi is connected, a checkmark will show that circle. The cloud icon will continue to have a blank circle while it attempts to connect to the LogTag® online cloud server. Depending on the network traffic it can take a few seconds. Once connection is completed, checkmarks will appear in both Wi-Fi and cloud circle.</p>	
<p>6. Once connected, the logger will exchange data with LogTag® Online. This will be indicated by the arrow inside the cloud symbol. The arrow may blink or turn on and off repeatedly during the data exchange</p>	
<p>7. The logger has successfully completed its connection process when the cloud and Wi-Fi icon circles both show checkmarks. Double check the cloud (LogTag Online) to see if the data is uploaded. If you are already logged into the cloud, you will need to refresh screen.</p>	
<p>❖ If the issue is not resolved after following the above instructions, please contact Control Solutions at 1-503-410-5996 or support@vfcdataloggers.com.</p>	

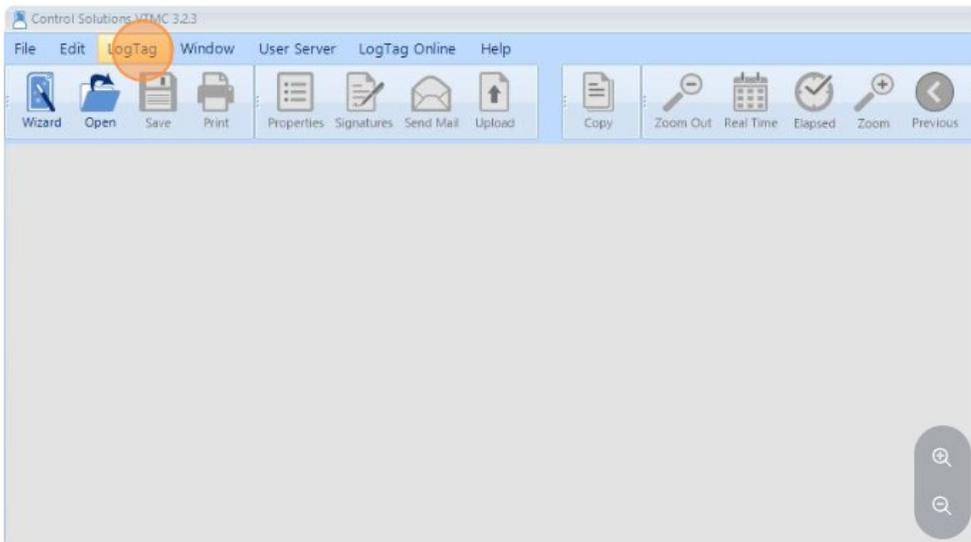
How to Configure a VFC800-WiFi Data Logger

- 1 Open the Control Solutions VTMC software

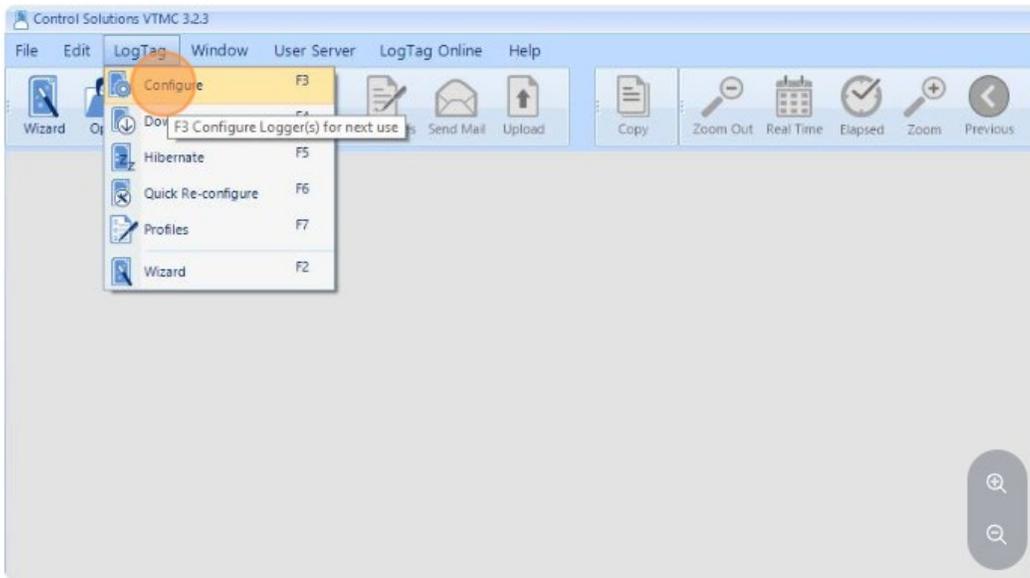


- 2 Connect your VFC800-WiFi/VFC400-WiFi to your computer with the included Micro-USB cable

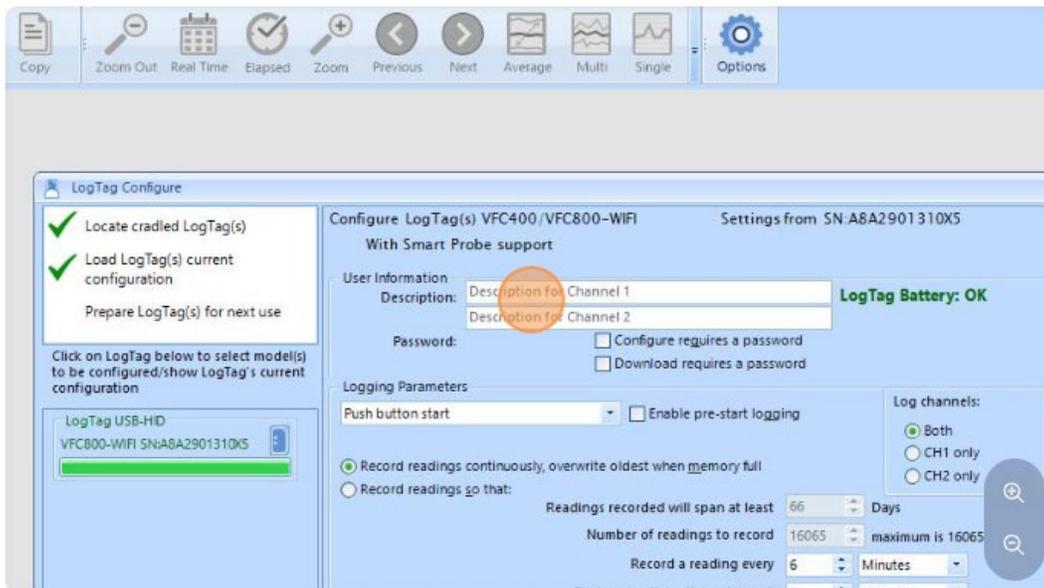
- 3 Click "LogTag"



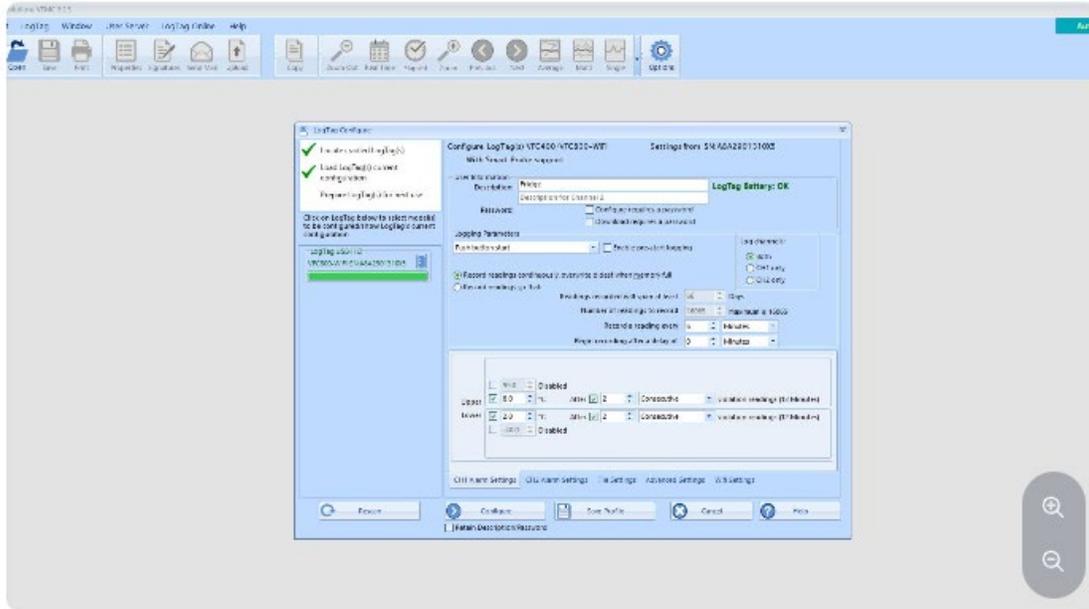
4 Click "Configure"



5 Click on "Description for Channel 1"

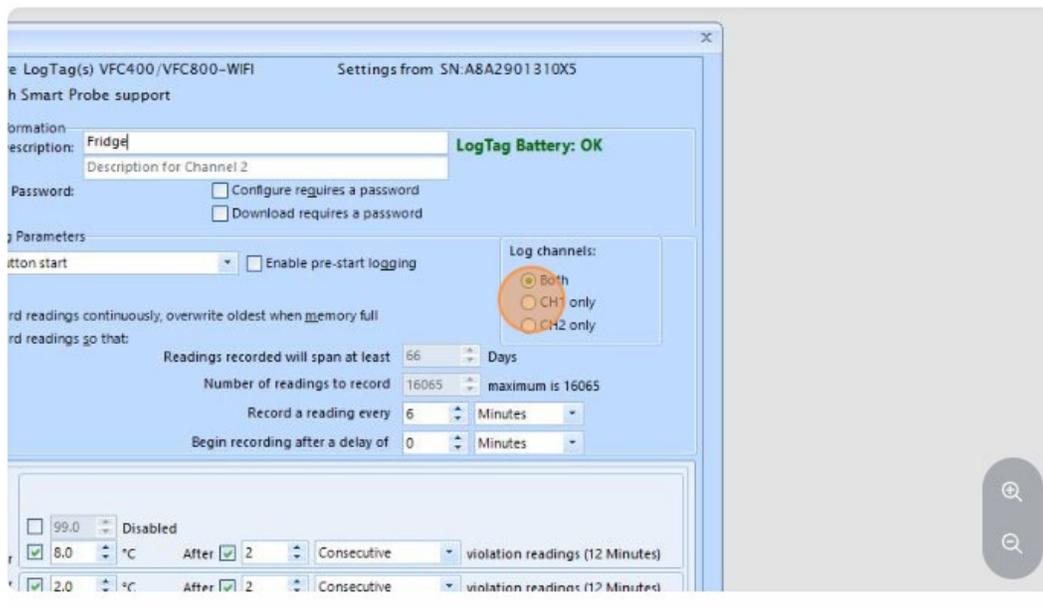


- 6 Enter in the name of what you would like Ch1 to be called

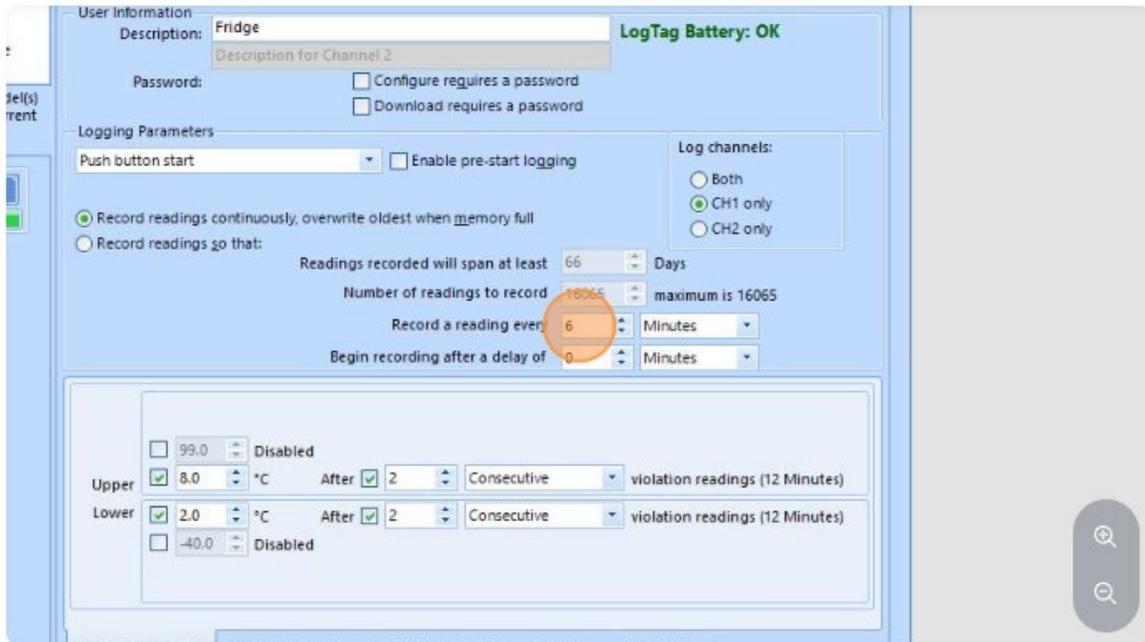


- 7 Repeat for Channel 2 if you have a 2nd probe and are using it.

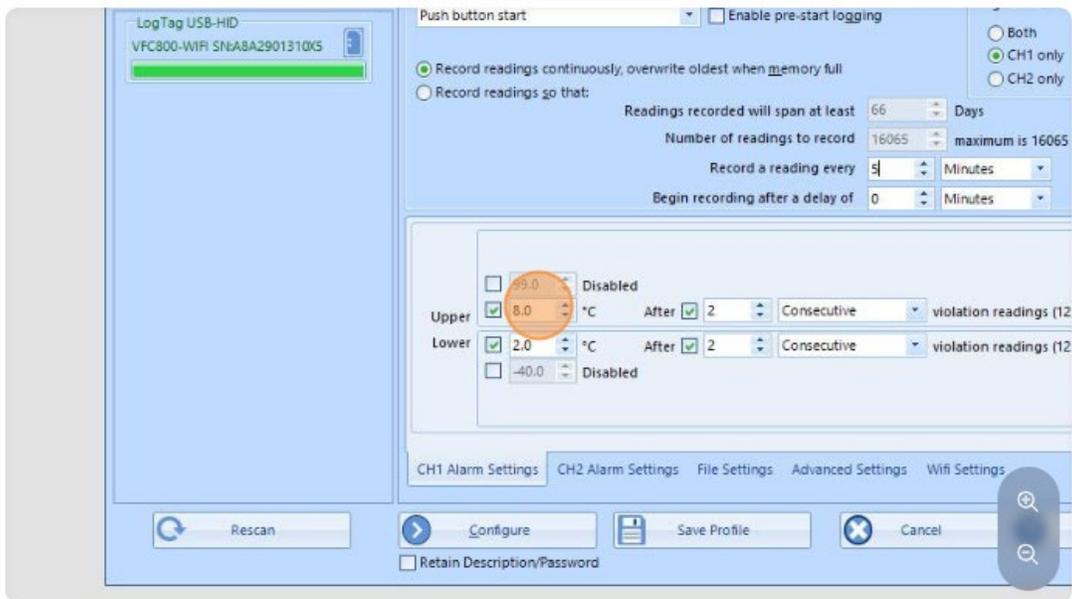
- 8 Choose if which channels you are recording data from (your logger will show which channel you are plugging the probe into)



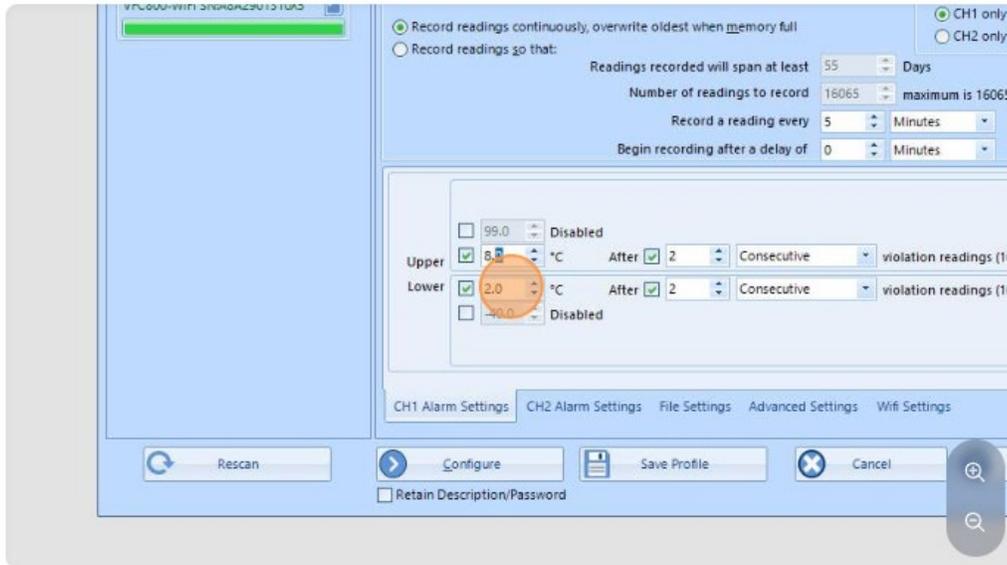
9 Set how often you would like your data logger to record a reading



10 Enter your upper temperature limit. For a fridge this is typically 8°C or 46°F, for a freezer this is typically -15°C or 5°F

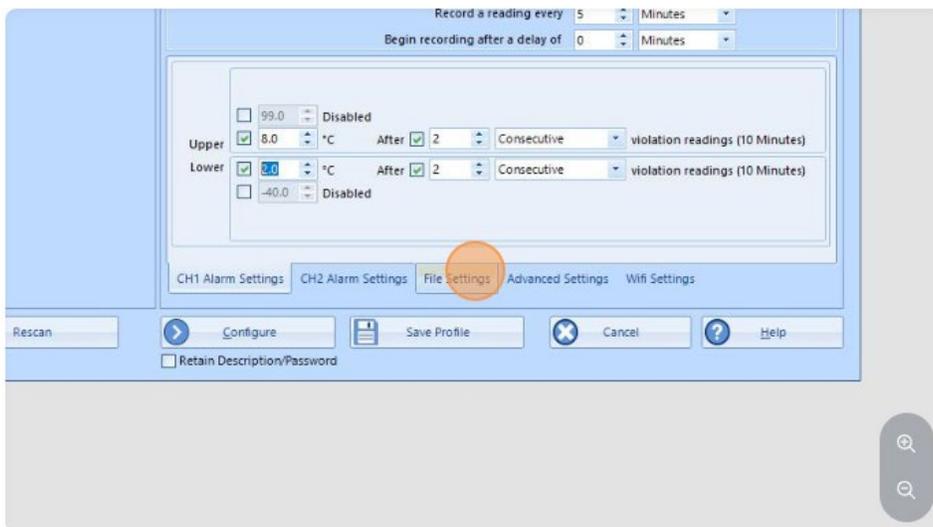


- 11 Enter your lower temperature limit. For a fridge this is typically 2°C or 36°F, for a freezer it is typically -40°C or -40°F

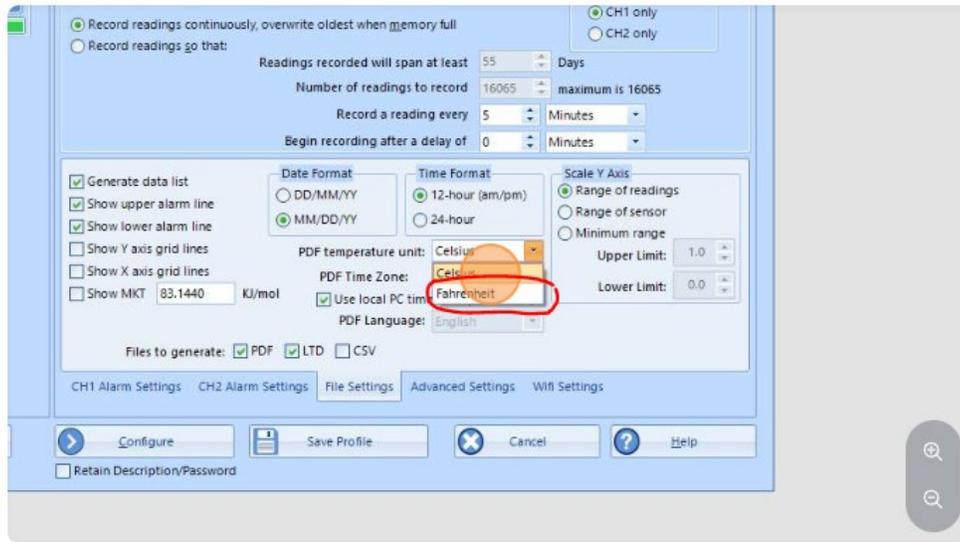


Note: Standard data loggers have a low limit of -40°C. Attempting to set a temperature below this will not save.

- 12 Click "File Settings"



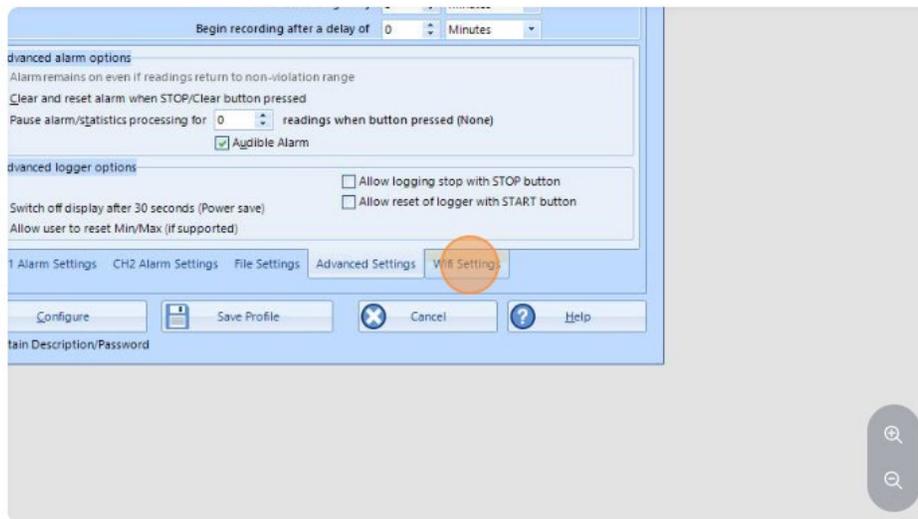
- 13 Select if you would like the data logger to display the temperature in °F or °C.
Note: This will NOT change the software to display the temperature scale, this is ONLY for the data logger itself.



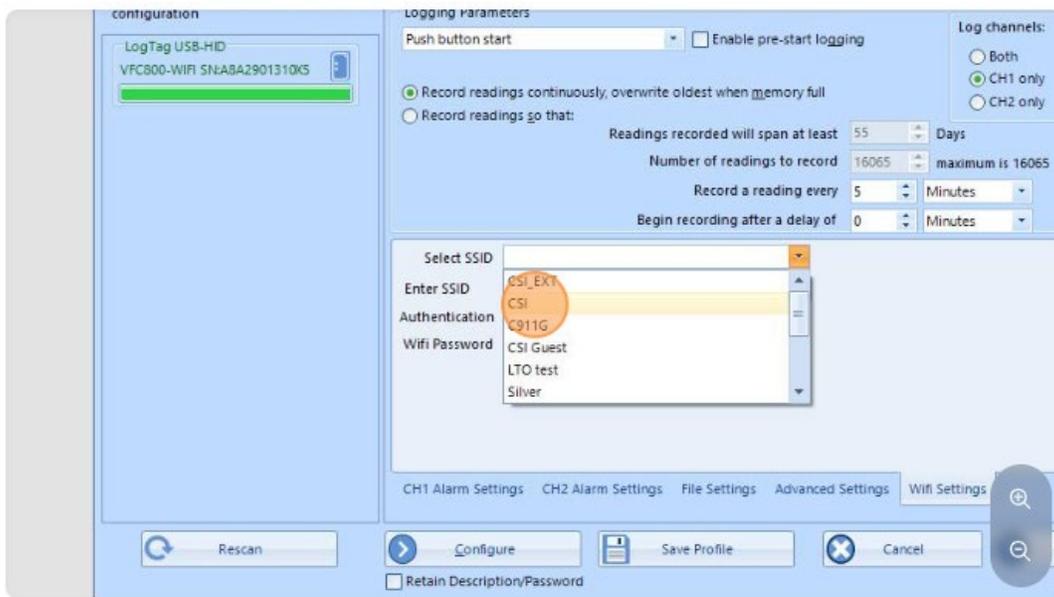
❖ All State data loggers are set to FAHRENHEIT

Tip: If you would like to change the temperature scale your software is displaying, that can be done in the Edit > Options menu. This is discussed in the "Software Setup" guide.

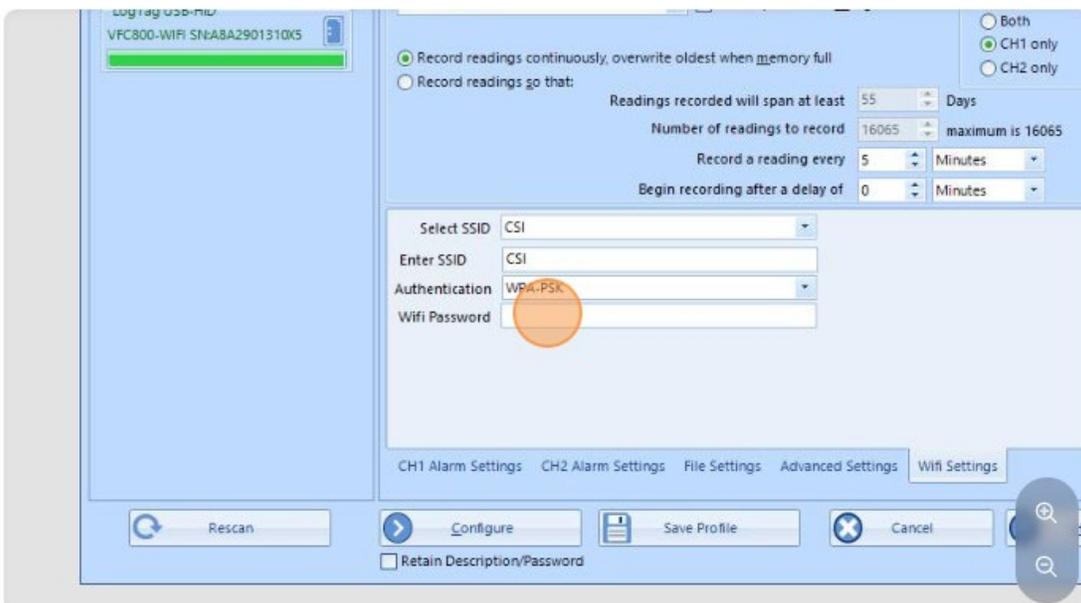
- 14 Click "Wifi Settings"



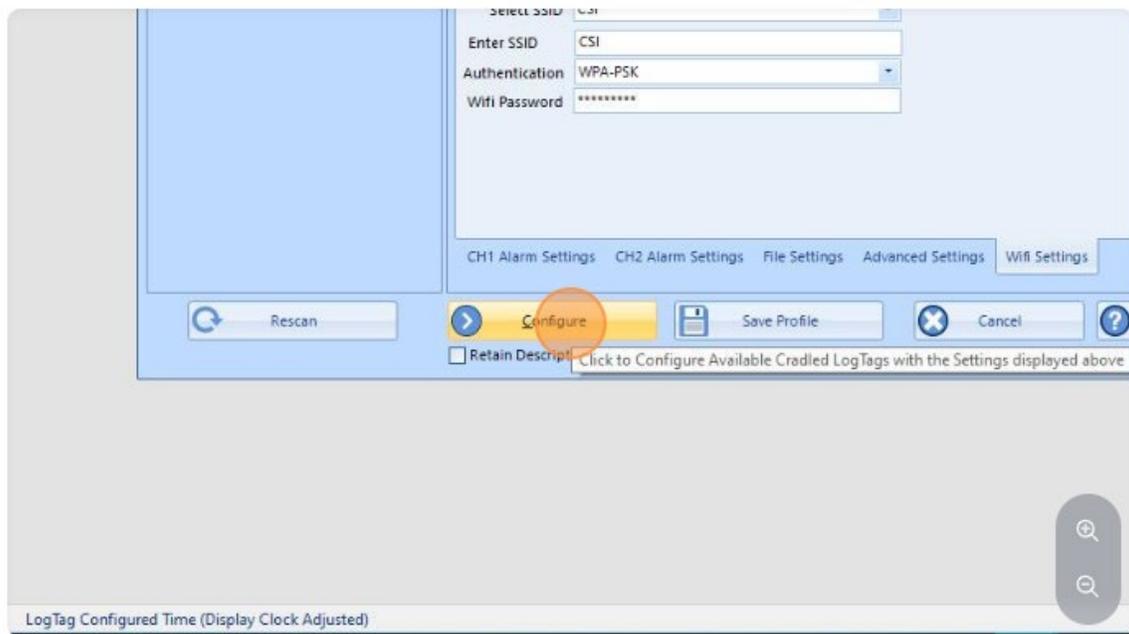
15 Select your wireless network from the SSID dropdown



16 Enter your wireless network password in the WiFi Password field



17 Click "Configure"



18 Your data logger has been configured and is now ready for use

➤ <https://www.vfcdataloggers.com/configure-vfc800-wifi/>

Starting the VFC800-WiFi Data Logger

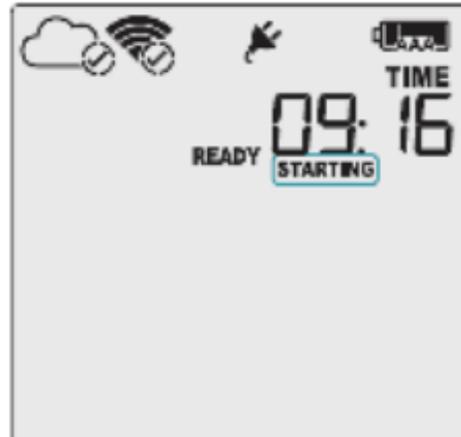
Starting your VFC800-WiFi

Press and hold the **START/ Clear/Stop** button.

STARTING will appear along with **READY**.

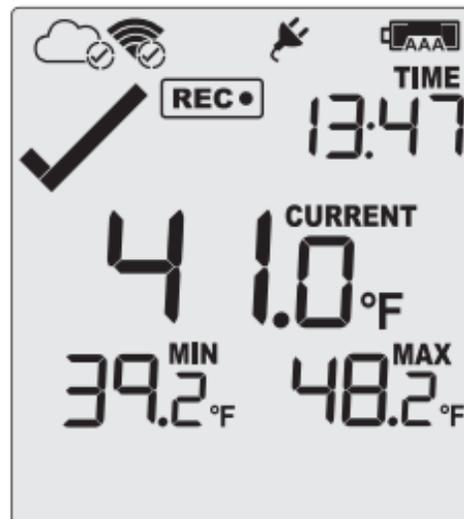
Release the button once **READY** disappears.

The VFC800-WiFi now records temperature data.

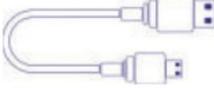
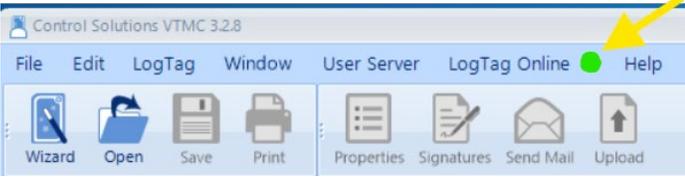
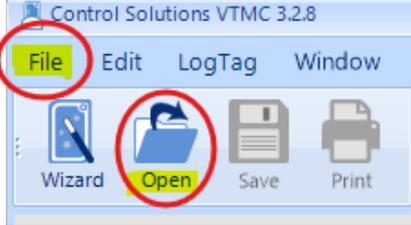
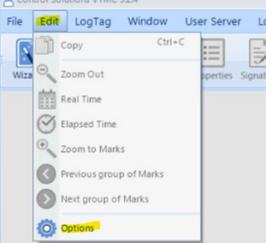


The Logger will **not** start if you:

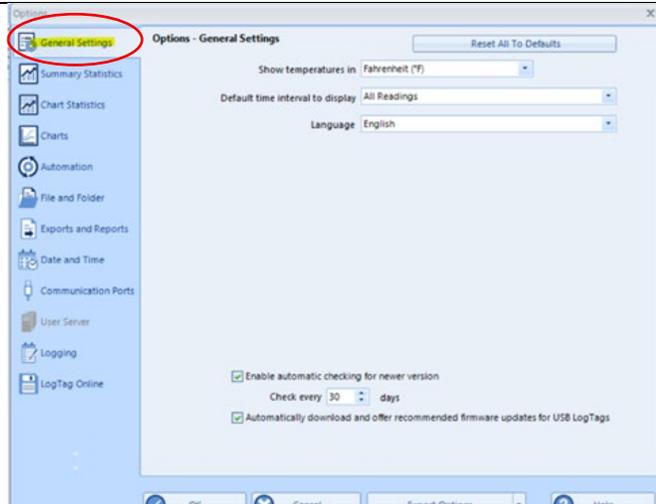
- Release the button before **READY** disappears.
- Keep holding the button for more than 2 seconds after **READY** disappears.
- The backup battery is critically low and the Logger is not connected to power.



Uploading Temperatures to LogTag Online without Wi-Fi

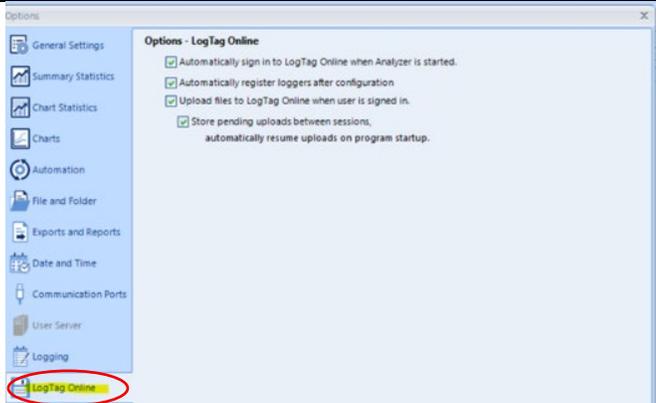
<p>1. Open Control Solutions software icon on your computer or laptop.</p>	
<p>2. Blank main screen and “options” on top banner. On the right-hand side of screen you should see “Auto download is ON”.</p>	
<p>3. Disconnect the LogTag device from the storage unit and attach to the computer or laptop via USB cord.</p>	 <p style="text-align: center;">USB Cable</p>
<p>4. Readings will automatically download to Control Solutions Software and appear on the screen. The green dot indicator at the top of the screen confirms readings will automatically load to LogTag online.</p>	
<p>5. Save or print the downloaded report before disconnecting the device. Do not close out of the screen until you have confirmed the temperatures are showing in LogTag Online.</p>	
<p>6. Go to Control Solutions software top banner and select “edit”, then “options”.</p>	

7. Make sure the “General Settings” screen mirrors the screenshot to the left



8. Click “LogTag Online Tab. Make sure the options mirrors the screen shot here:

- *Once complete, follow instructions from step 1.*



DDL Replacement Procedure for Coin Cell Backup Battery

Applies to UTRED30-WiFi Loggers. – VFC 800 Wi-Fi Smart Probe Data Logger

- If you see this symbol  on the display, the internal CR2032 coin cell backup battery is empty.
- You must replace this battery immediately, or you risk losing recorded data when the logger's power supply is removed or inserted.
- This coin cell battery typically lasts many years, however, when you frequently operate the device with near empty AAA batteries, extra load is put on the coin cell, and it depletes significantly faster.

SAFETY AND GENERAL WARNINGS

⚠ WARNING	
<ul style="list-style-type: none">• INGESTION HAZARD: This product contains a button cell or coin battery.• DEATH or serious injury can occur if ingested.• A swallowed button cell or coin battery can cause Internal Chemical Burns in as little as 2 hours.• KEEP new and used batteries OUT OF REACH of Children• Seek immediate medical attention if a battery is suspected to be swallowed or inserted inside any part of the body.• Contains a replaceable CR2032 3V button cell.• See product user guide for additional details, available on-line.	

To ensure safe and proper use, please adhere to the following guidelines:

- Do not force discharge, recharge, disassemble, heat above each model's published maximum temperature or incinerate. Doing so may result in injury due to venting, leakage or explosion resulting in chemical burns.
- When not in use, store the product and batteries in a cool, dry place according to the storage temperature requirements.
- Remove and immediately recycle or dispose of batteries from equipment not used for an extended period of time according to local regulations.
- Keep batteries out of reach of children. Coin cell batteries pose a choking hazard and can cause severe internal burns if swallowed.
- Note that even used batteries may cause severe injury or death.
- Inspect the battery compartment regularly for signs of corrosion, leakage, or damage, and if detected, stop using the product.
- Avoid storing batteries in direct sunlight or in environments where temperatures exceed 60 °C (140 °F).
- Do not attempt to recharge the batteries used in these products.

To undertake this procedure, you must observe proper anti-static precautions. This is best done by a technician with the appropriate equipment.

1. Remove the rear battery cover and remove the AAA batteries, as if you would for a battery replacement.
2. Remove the 2 screws in the battery compartment.



3. Separate the top and bottom halves of the case. Start prying near the bottom edge of the logger, at the sensor and power supply connections.
4. Remove the coin cell battery from the holder. Slide the cell from the rear using a blunt, non-metal object like a Popsicle stick or a toothpick.



5. Add the new battery.

Only use batteries from a reputable manufacturer! Check the temperature range of the battery and make sure it covers the operating temperature range of the data logger.

6. Reassemble the two case halves. Make sure the battery contacts clear the opening when closing the case.



7. Replace the screws, batteries and re-fit the rear cover.

Support:

- [UTRED30 or UTREL30 Coin Cell CR2032 Battery Low – LogTag](#)
- **If the issue is not resolved after following the above instructions, please contact:**
 - **Control Solutions at 1-503-410-5996 or support@vfcdataloggers.com.**

Resources:

- [LogTag VFC800-WIFI Data Logger Support and User Guides](#)
 - <https://www.vfcdataloggers.com/wp-content/uploads/2024/12/VFC800-QuickStartGuide.pdf>
 - <https://www.vfcdataloggers.com/wp-content/uploads/2023/04/vfc800wifiuserguide.pdf>
 - <https://www.vfcdataloggers.com/configure-vfc800-wifi/>

Control Solutions Support:

- <https://www.vfcdataloggers.com/product/vfc800-wifi/>
 - **Tel:** 1-503-410-5996
 - **Email:** support@vfcdataloggers.com



Maine Immunization Program Support:

- <https://www.maine.gov/dhhs/mecdc/health-professionals/immunization>
 - **Tel:** (207) 207-287-3746
 - **Email:** ImmunizeME.DHHS@maine.gov

