## **2019 Data Logger Updates**



LogTag<sup>®</sup> Tred30-7R (BLUE) & VFC 400 (RED)



# **Back up DDL Requirement**

As of January 2018, CDC will require that back-up thermometers be continuous recording devices (DDLs)

#### To meet VFC Program requirements the device must be equipped with:

- 1. A temperature probe
- 2. An active temperature display that can be easily read from the outside of the unit
- 3. The capacity for continuous monitoring and recording capabilities where the data can be routinely downloaded

#### Additional recommended features:

## **Back up DDL Requirement**

- Clinics only need ONE (1) DDL to remain in compliance
- Can purchase multiple if they want, but NOT required
- Does NOT need to be on unit—just in clinic ready to use

Question: If a provider has 2 refrigerators and 1 freezer, how many *back up DDLs* do they need?

Answer: 1 backup DDL

### **Buttons**



## The RED VFC 400 has the same buttons as the BLUE LogTag

#### **Buttons**



#### Review/Mark Button

Press button to go into review mode and see min/max temperatures Press button again to go back through the min/max for previous days This action places an inspection mark in the log every time you push the button.

Start/Clear/Stop Button

Press clear button to exit review (i.e. exit review mode and return to normal mode).

The current temperature display will return automatically after 30 seconds.

#### Device and Buttons Actions Overview



The Start/Clear/Stop button has multiple functions: Press to start your recording. Press to stop your recording. Press to exit the day summary mode.

## VFC400 (RED) Device Overview

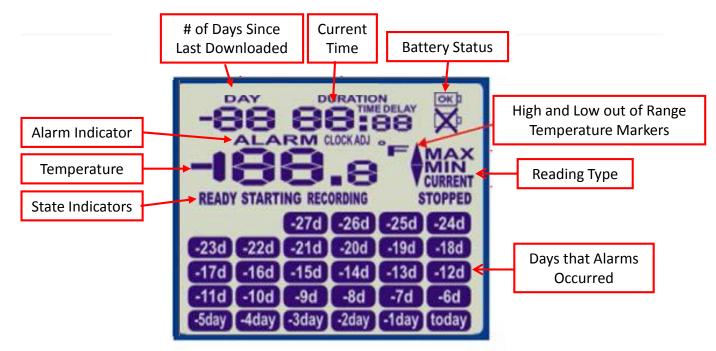
Pressing the Review/Mark button will place the logger in review mode.

Pressing this button again while in review mode will allow you to review up to 30 days of min/max temperatures.

This action also places an inspection mark in the log if recording is active. The inspection marks validate your twice daily temperature checks.

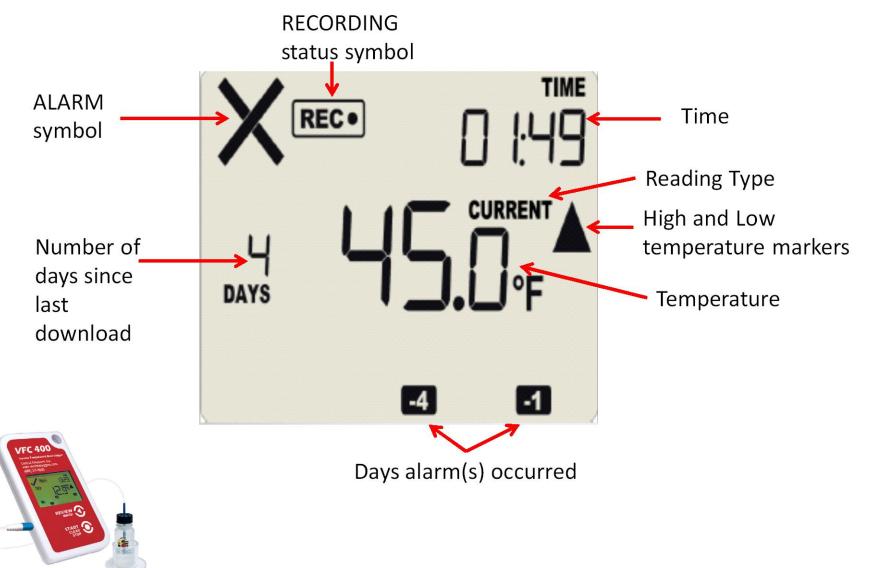


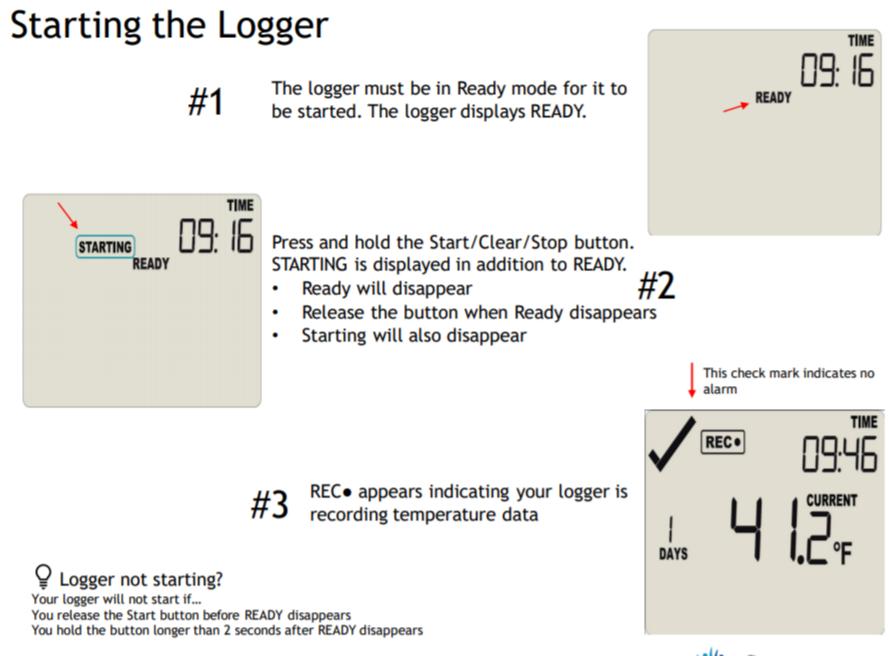
# LogTag (BLUE) Display Overview





# VFC 400 (RED) Display Overview





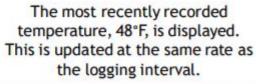
Control Solutions, Inc. | 503-410-5996 | support@vfcdataloggers.com

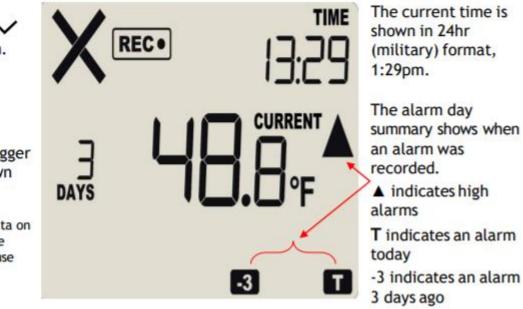
## Reading the Display

An X is shown instead of ✓ because there is an alarm.

The number of days the logger has been recording is shown here.

Remember to download data on a regular schedule. Allowing the memory to become full will cause your logger to stop recording.





The temperature has returned to an acceptable range but the alarm status remains.



This example shows the next day at 1:49am The temp is now within range however; the  $\mathbf{X}$  remains and the audible alarm will continue to sound until the data is downloaded.

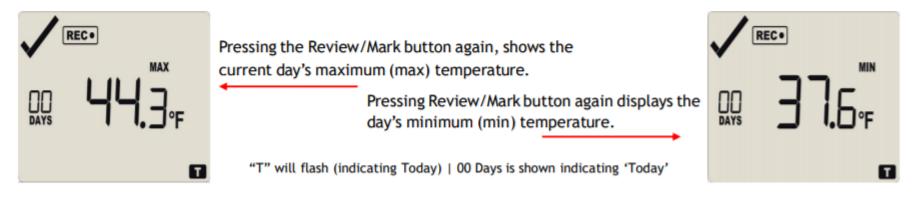
The day summary has shifted by 1 day as the display time has gone through midnight (00:00).

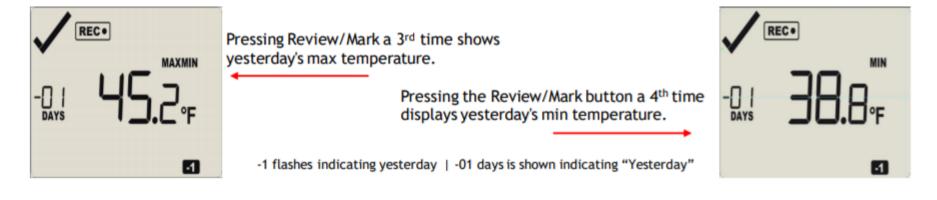
-4 day and -1 day are displayed indicating an alarm occurred 4 days ago and 1 day ago.

## Reviewing Daily Statistics

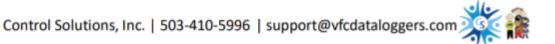
One press of the Review/Mark button puts the logger in review mode allowing you to view minimum/maximum (min/max) temperatures.

Min/Max temps can only be viewed when the logger is in Recording or Stopped mode.





 $\mathbf{Q}$  You can review the min/max for as many days as the logger has been logging. After pressing the review button if nothing is pressed for 30 seconds the regular display returns.



## Stopping the Logger

Stopping the logger prior to downloading is recommended.



Press and hold the Start/Clear/Stop button for 1-2 seconds.

- STOPPED will appear
- REC• will disappear after 1-2 seconds
- Release the button when REC• disappears

The display will say STOPPED and show only the number of days collected.



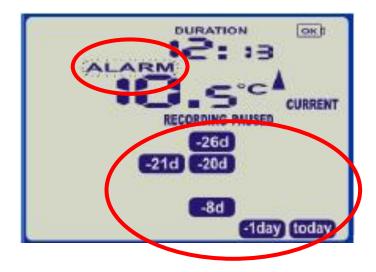
Now you can download your data.

- Take the logger to your PC
- Open the Control Solutions VTMC software (you can get the software here)
- Place the logger in the docking station to download the data

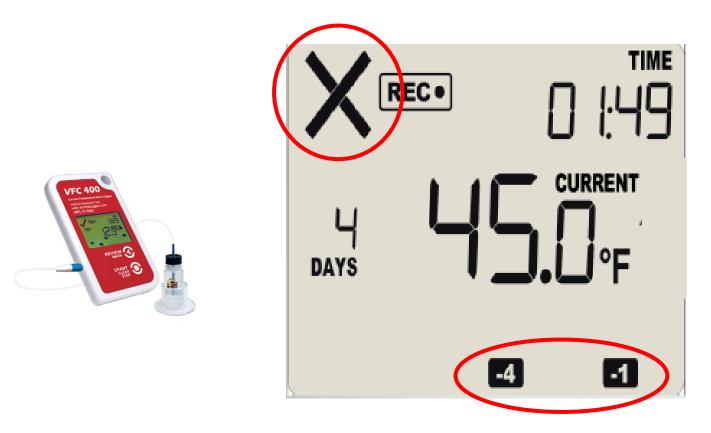


## **ALARM Status (BLUE)**





## **ALARM Status (RED)**



Can be set to have audible "beeping" alarm when out of range!

## Recalibration

- <u>It will be the provider's responsibility to get their data logger recalibrated</u> when the certificate of calibration expires.
- Send ~2-4 weeks before due date
  - Back of DDL ("Due Date") OR calibration certificate ("Next Cal")

	Custome	er Informa	tion			Equipn	nent Informat	tion	
Customer:	Chicago	Dept of P	ublic Health	E	quipment II	D: LT16-	0921		
Address:	2160 W	est Ogden	Ave.	M	odel No:	TRED	30-7R		
				M	anufacture	r: LOG	TAG		
City, State Zip: Contact: Phone:	Chicago	o IL	60612	Se	erial No:	18609	917461		
	10/07/2016			Calibration S Temp: Humidity:	00000000000000000000000000000000000000		As Found: Result:	In T	Folerance Pass
	? Years		/	rechnician	n: Angela R	teryea			
Measurement	t Group 1		As Found		-	-			
	t Group 1 <u>Units</u>		As Found In Toler	Res	sult Pass	Proce	edures CWB-1 R3		
Measurement Tolerance	t Group 1 <u>Units</u>	Lir		Res rance	sult	Proce	CWB-1 R3	ft (Cal S	tatus)
Measurement <u>Tolerance</u> Tolerance (+/-)	t Group 1 <u>Units</u>	Lir <u>Upper</u>	In Toler	Res rance	sult Pass	Proce	CWB-1 R3	ft (Cal S <u>Error</u>	
Tolerance Tolerance (+/-) ( Desc N	t Group 1 <u>Units</u> 0.3 <sup>°</sup> C		In Toler	rance	sult Pass As Found	Proce CSI-0	CWB-1 R3 As Le		
Measurement <u>Tolerance</u> Tolerance (+/-) ( <u>Desc</u> <u>N</u>	t Group 1 <u>Units</u> 0.3 °C Iominal	Upper	In Toler nits Lower	Res rance <u>Actual</u>	sult Pass As Found <u>Error</u>	Proce CSI-0 <u>Result</u>	CWB-1 R3 As Le <u>Actual</u>	Error	Result
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Control Solutions, Inc. certifies that the above equipment has been calibrated using instrumentation capable of producing results that are traceable through NIST to the International System of Units (SI). Control Solutions, Inc. is accredited to ISO/IEC 17025:2005.



## **Recalibration**



Stop the data logger. Remove the DDL, glycol bottle, and probe from your storage unit.



Remove the metal probe from the glycol bottle.



Download the information to your computer.



Put a piece of tape over the hole left from the probe and store the bottle safely until you get the data logger back.



Clip the plastic tie around the top of the bottle. A new tie will be sent when your DDL is returned.



Attach the probe to the data logger and place both items into a padded envelope or small box with bubble wrap. Complete the City of Chicago NIST Calibration RMA Form and include this form with the package.

## **Recalibration**

## City of Chicago NIST Calibration RMA Form

Contact Information	n				
Company Name					
Contact Name					
Phone Number					
Email Address					
Billing Address					
Shipping Address					
(if different than					
billing address)					
PO Number					
(if needed)					
Instrument Informa	tion				
Qty of Loggers					
Any problems with					
the instrument(s)?					
Calibration Pricing		2-point \$40			
	Ų	er temps (+5 deg C & -15 deg C) Includes: Replacement battery,			
spare battery & (5)	zip ties				
		credited to the ISO/IEC 17025:2005 standard. All calibrations come			
complete with an NIS	ST traceable Certificat	e of Calibration compliant to ISO/IEC 17025:2005.			
	your probe with	the data logger when returning for re-calibration			
Accessories		VEC Detterme \$5 and Other and LasTer Detterme \$2			
Spare Battery		VFC Battery \$5 each Qty or LogTag Battery \$2			
5' probe with Glycol	buffer vial	Qty \$30 each Qty			
10' probe with Glycol buffer vial		\$40 each Qty			
Glycol bottle only		\$5 each Qty			
Glycol bottle and Inst	tallation Kit	\$20 each Qty			
(includes acrylic stan					
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- Providers **DO NOT** need to order extra battery (calibration includes the extra battery)
- Can call Control Solutions with questions (888) 311-0636
- This form is available to download on the VFC Program HAN website.

# **Changing the Battery**

#### LogTag uses a watch battery type CR2032

- 1. Remove the sticker where the calibration information is printed (Figure 1.)
- 2. Remove battery compartment cover by turning the cover with a coin or the new battery
- 3. Remove the battery with a paper clip and replace the battery\* (Figure 3.)
- 4. Replace the battery compartment cover and the calibration sticker



Figure 1.



Figure 2.



Figure 3.

\*Note: It may be challenging to remove the battery. Use a paper clip to help. DO NOT use a pen or pencil as this can damage the battery holder.

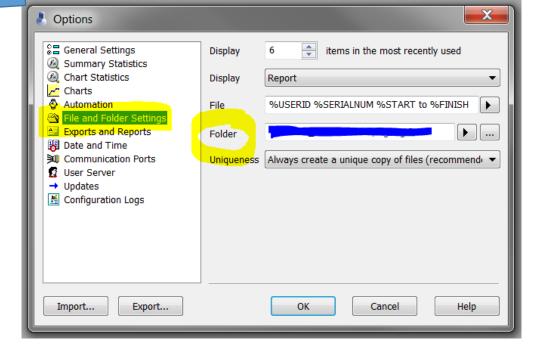
## **DDL Reports – What to Look For**

LogTag Reco	rder has been downloaded 4/14/2017 2:39:43 PM (UTC -06:00, daylight time)	) 51.5		51.5 🔺
Alarm Status Recorder Info		49.5		19.5
Low 🗙 Fail Serial # : 1860919869 Model : TRED30	-7R Battery: OK 7 Trip #: 3	1	5	
High X Fail User ID :	,	47.5	-	17.5
Recorder Configuration				
Start type : Push button start	Temperature alarms	1  -		
6 Start delay : None	Lower: 35.0 °F	45.5	4	15.5
Interval : 15 Minutes	<b>Upper : 46.0 °F after 4 Consecutive</b>			
		43.5		13.5
Recorded Data		,		
First reading : <b>11/8/2016 7:44:42 AM</b> Last reading : <b>1/27/2017 7:29:42 AM</b>	Temperature statistics Lowest : 26.1 °F	41.5		11.5
Elapsed Time : 79 Days, 23 Hours, 45 Minutes	2 @ 11/15/2016 4:59:42 PM	1.5		1.5
8 Total readings : 7680	Highest : 50.9 °F			
First evaluated : 11/8/2016 7:44:42 AM	@ 1/22/2017 11:59:42 PM	39.5		9.5
Last evaluated : 1/27/2017 7:29:42 AM Evaluated Time : 79 Days, 23 Hours, 45 Minutes	Average reading : <b>33.7 °F</b> Standard Deviation (S) : <b>3.3 °F</b>			
Evaluated Readings : 7680	Mean Kinetic Temperature 34.11 °F	37.5		37.5
Low Alarm	High Alarm	,		
Triggered : @ 11/8/2016 7:44:42 AM Time below : 55 Days, 10 Hours, 37 Minutes, 30 Seconds	Triggered : @ 1/22/2017 11:59:42 PM Time above : 1 Hour, 15 Minutes	35.5		.5.5
Occurrences : 63	Occurrences : 1			
°F - Minutes below : 252165.12 4	°F - Minutes above : 292.28 4	33.5 -		33.5
<b>1</b> : The red "X" means you had temper	ratures out of range			
2: Your temperature alarm settings sh	ould be 36-46 F/2-8 C for	31.5 -		31.5
refrigerators, (-40)-5F/(-40)-(-15)C for	freezers			
3: Your highest highs and lowest lows	are stored here	29.5	2	29.5
4: The duration and start of high/low	excursions are here			
5: A graph of your clinic's temperature	es appears here	27.5		27.5
6: Make sure your alarms are set for u				
interval is 15 minutes	FF	05.5		
7: Make sure your battery status is Ok		25.5 <del> </del> 7:44:42		
8: All the data since you last download		11/8/2	016 11/17/2016 11/26/2016 12/5/2016 12/13/2016 12/22/2016 12/31/2016 1/9/2017 1/18/2017 1/27/201  Readings (°F)	17
Report ( Chart ) Data ) Summary ) Day Summary /			( ) ( ) ( ) ( ) ( ) ( ) ( ) ( ) ( ) ( )	<b>V</b>
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# Where can I find my previous DDL files on my computer?

Control Solutions VTMC 2.9	Build 6
<u>File</u> <u>E</u> dit <u>L</u> ogTag <u>H</u> elp	
📄 ( 🔭 Options 🕞 🧝	e e <u>Q</u> [

- This dialog box will tell you where your DDL files are saved.
- Only some people at your practice might have access to that folder, so you may need to log off and log someone else onto the computer before you can open that file.



# Email all temp excursions to chicagovfc@cityofchicago.org

- Any time you have a temperature excursion, you need to email the following to Chicago VFC's email:
  - The DDL file(s) including the beginning (when the temperatures first went out of range), middle, and end of the temperature excursion (when the temperatures went back into range). If your clinic is on the Cloud, upload your temperatures and notify Chicago VFC that you have done so.
  - An explanation of what occurred, and why the temperatures were out of range. Include what you've done to fix the problem so far, if applicable.
  - The time the vaccines were moved out of the unit, if they were moved.
  - Your VFC PIN (in the subject line).
- WAIT to use vaccines on patients until Chicago VFC has evaluated the viability of the vaccine.