

FlashLink. Models 20932, 20938

Certified Vaccine USB Data Logger





Operating System Requirements Windows XP, Windows 7, 32 bit or 64 bit computers.

Hardware Requirements 400 MHz minimum, 512 MB RAM Memory, 500GB Hard Drive, One USB Port 2.0 or 3.0 **Device Compatibility**

FlashPDF Program Manager supports FlashLink Reusable USB Data loggers and In-Transit Data loggers.

Other Software Requirements Adobe Acrobat Reader 8.0 or greater

Getting Started with the FlashLink Certified Vaccine USB Data Logger

The Glycol Bottle

The logger features a bottle with glycol solution surrounding the sensor inside. It emulates temperature changes experienced by most vaccines and fluids stored in refrigerators and freezers. Glycol also acts as a buffer to prevent false alarms with rapid temperature fluctuations expected from door openings and normal cycling of the compressor.

Once the glycol bottle is placed in the storage unit, allow enough time for it to acclimate to the internal temperature of the unit before putting the logger into service. The logger can be detached from the sensor for downloading data.

Note: An "LLL.L" shown on the LCD display indicates the external probe sensor isn't plugged into the thermometer.

Software Download and Installation

- 1. Open a web browser and go to www.deltatrak.com website.
- 2. Locate the main menu at the top of the web page under the DeltaTrak company logo and then select **Support** in the menu.
- 3. Scroll down to 'Software and Drivers' in the menu and Click this selection.
- 4. Along the left side of the page, go down to Certified Vaccine Data Logger with Glycol Bottle (WHO pre-qualified) section, and then Click on FlashPDF Program Manager 5.0 or greater
- 5. Fill out the form and Click on the **Submit** button at the bottom of the form.
- 6. On the next screen, please take note of the phone number for Technical Support and Click on **Download** in the center of the screen.
- 7. On the next screen, select the location where you will save the download

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file and Click Save to start your download.

- 8. When the download is completed, navigate to the location on your computer where you saved the download file.
- 9. Double Click the FlashPDFPM.zip file. A new window will open.
- **10.** Double Click on the **FlashPDF 5.0 program Manager Setup.exe** file and the software installation will begin.
- **11.** When the **Welcome** screen is displayed, the installation process will guide you through the remaining steps for the software installation.

Help File

Please read the help file before getting started. The Help system can be accessed by a single **right click** on the FlashPDF Program Manager lightning bolt icon in the system tray and selecting "*About*" from the pull down menu.

Select the link "**Click here for help**" to access the Help system which will provide detailed instructions on how to configure the data logger in more detail and how to retrieve and analyze data from your data logger.

Configure your Data Logger

Remove the FlashLink Certified Vaccine USB Data Logger from its package

Important

Press the **START** button and release when **hib1** appears on the LCD, press the **START** button a second time and release when **hib2** appears on the LCD, press the **START** button a third time and release when **hib3** appears on the LCD. Press the start button again and the logger will go into start-up mode; all segments of the LCD will light up briefly, then the screen will go blank and only the **()** icon will appear.

Connect the logger to any available USB port on your computer.

Locate the FlashPDF Program Manager Icon in the system tray and **single right click** on it.

Open the configuration window by clicking on **Setup** in the menu. **Current Configuration** dialog box will appear.

Options
Setup
Import
ColdTrak File Processing
Exit
About
Check For Updates

shPDF - PDF Logger Configuration Wi	izard	? **
urrent Configuration		
		1/2
Logging		
Start Type:	Start Button:	Test
start Delay:	Stop Button:	Test
Period:	LCD 30 Second Refresh:	Test
nterval:	Waypoints:	Test
lode:	PC Connection Action:	Test
Display Scale:	PDF Data Table:	Test
lemory Usage:	Time Zone	Test
Data Tags Order: Shipper:	Serial Num Test	ber
City:		
Receiver:	Trip Numbe	er 🔤
Carrier:	Test	
Back	Reactivate	Next Cancel

Click on 1/2 on the top right to get to second Current Configuration window

FlashPDF Program Ma	nager - Logger Configura	tion Wizard - 60004055	
Alarm			2/2
Enabled:	Enabled		
High Limit:	8.0°C (46.4°F)	Extreme High Limit:	75.0°C (167.0°F)
Low Limit:	2.0°C (35.6°F)	Extreme Low Limit:	-10.0°C (14.0°F)
Delay:	0Hrs 10Mins	Red LED:	Enabled
Skip:	0	Yellow LED:	
Above High Limit:	0Days 4Hrs 0Mins	Above Extreme High Limit:	0Days 0Hrs 0Mins
Below Low Limit:	0Days 4Hrs 0Mins	Below Extrme Low Limit:	0Days 0Hrs 0Mins
Battery		Buzzer	
Battery Life:	95.5%	High / Low	Enabled
Battery Indicator:	Enabled	Extreme High / Low	Enabled
		Interval	45.0 seconds
Back		Reactivate	Next Cancel

Second Current Configuration window shows Alarm and Buzzer settings, and Battery information.

Battery Information

This window shows current battery life and whether the battery life indicator icon is enabled on the LCD of the logger.

Logging Options

See FlashPDF Help File for more information about configuration options.

Manual Sleep Delay Delay Delay V Days Delay V Days	Logging Period	Display Fahrenheit Celsius Show Battery Capacity on LCD 30 Second Refresh Waypoints Enable
0 🔆 v Minutes	0 • + Hours 15 • • Minutes 0 • • seconds	Time Zone UTC-8
Derating Mode	Optimize None Period Interval	PDF Show Data Table

- **Suggested Settings:**
- 1. Set Start Options to manual
- 2. Set Period to 30 days
- **3.** Set **Minimum Logging interval** to Every 15 minutes

After setting the Logging Options, click Next

	: RashPDF Program Manager - Logger Configuration Wizard - 60004055					
()				Alarms	Skip 0 🔶 Readir	gs
Buzzer V High/Lo V Extreme		Interval ·] 45 seconds		Delay 0 A Hours 10 A Minutes	LED Red Yellow	
Limits Extreme High	High	Low	Extreme	Time Out of Rang Above Extreme High Lir 0 Days 🔶 0 Hrs		
—				Above High Limit 0 Days ÷ 4 Hrs Below Low Limit 0 Days ÷ 4 Hrs	 A Mins A Mins A Mins 	
75.0 🐳 "C	8.0 🜩 °C	2.0 🜩 °C	-10.0 🜩 °C	Below Extrme Low Limit 0 Days 0 Hrs		
Back			Rea	ctivate	Next Ce	incel

Alarm Options

Set high/low and extreme high/ low temperature threshold limits for triggering the alarm. Option to enable flashing red or yellow LED and an audible buzzer. Suggested Settings: High = 8° C / Low = 2° C

After setting Alarm, Buzzer and LED options, click Next

🏂 FlashPDF Program Man	ger - Logger Configuration Wizard - 60004055
Data Tags	
F	Crder - D Shipper - D City - D Receiver - D Carrier - D
Back	Resctivate Next Cancel

Data Tags

The optional information on this screen is intended for shipping the logger with products. It can be used to identify storage unit number, location of the logger, and drug lot codes.

Click Next to continue.

New Configuration

The New Configuration dialog box shows the settings that will be programed into the logger. To make changes, click the **Back** button. Click on **1/2** in the top right corner to toggle to the second New Configuration dialog box which shows Alarm, Buzzer and Battery information. Clicking **Next** from this first window will bypass the second window and the **Logger Configuration** dialog box will open.

lew Configu	vager - Logger Configuratio	n Wizard - 60004055		2	Click on 1/2 to toggle between the two New
Logging Start Type: Start Delay: Period: Interval: Mode: Display Scale: Memory Usage:	Manual 666Days 15Hrs 30Mins 0Hrs 30Mins 0Secs Normal Celsius 99%	Start Button: Stop Button: LCD 30 Second R Waypoints: PC Connection Ac PDF Data Table: Time Zone		Enabled Enabled Pause Enabled UTC-8	Configuration dialog boxes
Data Tags Order: Shipper: City: Receiver: Carrier:			Serial Number 60004055 Trip Number 45359000		
Back Save		Reactivate		Next Cancel	

≶ FlashPDF Program Ma	nager - Logger Configurat	ion Wizard - 60004055	? ×
New Configu	ration		
Alarm			2/2
Enabled:	Yes		
High Limit:	8.0°C (46.4°F)	Extreme High Limit:	86.0°C (186.8°F)
Low Limit:	2.0°C (35.6°F)	Extreme Low Limit:	-40.0°C (-40.0°F)
Delay:	0Hrs 20Mins	Red LED:	Enabled
Skip:	16	Yellow LED:	
Above High Limit:	3Days 5Hrs 35Mins	Above Extreme High Limit:	0Days 0Hrs 0Mins
Below Low Limit:	3Days 5Hrs 35Mins	Below Extrme Low Limit:	0Days 0Hrs 0Mins
Battery		Buzzer	
Battery Life:	95.7%	High / Low	Enabled
Battery Indicator:	Enabled	Extreme High / Low	Enabled
		Interval	45.0 seconds
Back Save		Reactivate	Next Cancel

Review Alarm, buzzer and battery settings in the second **New Configuration** dialog box. To make changes, click the **Back** button, click **Next** to continue. Click **OK** to begin configuration.



NOTE: Clicking OK on the New Configuration dialog box will start logger configuration and will write the information to the logger memory.

Logger is being configured.



To configure another logger, select **Yes** and click **Next**. Click **Save** to save the current configuration parameters for future use.

To close the programming mode select **No** and click **Finish.** Disconnect the data logger from the computer.



Configured Logger

The () icon should show on the LCD display indicating it is ready to be put into service



The USB Logger LCD Screen

		1
	1	Sensor 1 icon (CH 1)
	2	Normal operation mode icon
	3	Active mode icon
	4	Stop mode icon
	5	High and Low alarm arrows
	6	Alarm icon
day hrs	7	°C,°F & % scale icons
	8	Day, Hours and Minutes icons
	9	High and Low Alarm set point icons
	10	Statistical icons
	11	4 digit numerical display

Using the Logger

Attach the logger to the outside of the storage unit and place the glycol bottle inside. Ideal positioning of the bottle should be as close to the center of the unit as possible.

Starting Data Logger

If the logger is configured for manual start, press and hold the **START** button, **"Strt"** appears on the LCD. Release the **START** button after temperature is displayed.

Once they glycol bottle is acclimated inside the storage unit, it will closely emulate temperature of vaccines and other fluids within.

Downloading Logger Data and Generating Reports

Detach the logger from the sensor, leave the glycol bottle inside the storage unit. Connect the logger to the USB port of a computer.

If FlashPDF Program Manager is installed on the computer, the software will automatically access and download recorded data from the logger.

A PDF report appears on the monitor and is automatically saved on the PC.



A Downloading dialog box should appear on the lower right hand corner of the computer screen indicating that information is being downloaded.

Once the information is downloaded, FlashPDF will show **Creating PDF** then **Success** in the same dialog box.

Order :	Alarro State :	Pass	Model # :	20932
	- High Alarm Limit :	46.4*F(8.0*C)	Serial # :	80090093
	Low Alarm Limit:	35.6°F (2.0°C)	Data Prints :	148
Shipper :	Total Time		Skip Alarm :	0
	Above High Limit :	0 Days 0 Hrs 45 Mins	Data Type :	Normal
	Below Low Limit:	0 Darfs 0 Hrs 0 Mins	Interval :	0 Hrs 15 Mins 0 Secs
Ciaf :	Total Alarm Time :	0 Darfs 0 Hrs 45 Mins	Recorded Period :	1 Dats 13 Hrs 0 Mins
	MKT:	39.8°F (4.3°C)	Start Delaf :	0 Hrs 0 Mins 0 Secs
Receiver :	Degree Minutes :	45.9°F x Mins (25.5°C x Mins)	Start Time :	7/20/2013 4-50:55 PM
	Average Temp :	40.9 F x Mins (20.0 C x Mins) 39.6*F (4.2*C)	Stop Time :	7/22/2013 5:50:55 AM
	Minimum Temp :	36.1°F (2.3°C) @ 7/21/2013 4:20.66 PM	Download Time :	7/22/2013 7:21:44 AM
Carrier :	Maximum Temp :	48.0°F (8.9°C) @ 7/20/2013 6/36/56 PM	Time Zone :	GMT-8
47'F	h			8.3°C 7.8°C 7.2°C 6.1°C 6.1°C 5.6°C 5.6°C 5.6°C 4.4°C 3.3°C
39'F				

The FlashPDF Report will automatically show on screen.

A temperature graph will display the entire data logging sequence. The Date and Time readings are listed on the graph.

#	Time	F(C)
1	7/20/2013 5:05:56 PM	42.6 (5.9)
2	7/20/2013 5:20:56 PM	42.4 (5.7)
3	7/20/2013 5:35:56 PM	42.2 (5.7)
4	7/20/2013 5:50:56 PM	42.3 (5.7)
5	7/20/2013 6:05:56 PM	44.9(7.1)
6	7/20/2013 6:20:58 PM	48.8 (8.2)
7	7/20/2013 6:35:58 PM	48.1 (8.9)
8	7/20/2013 6:50:58 PM	47.5(8.8)
9	7/20/2013 7:06:58 PM	48.5 (8.0)
10	7/20/2013 7:20:58 PM	48.4 (8.0)
11	7/20/2013 7:35:56 PM	46.2(7.9)
12	7/20/2013 7:50:56 PM	45.4(7.4)

The second page will display the Data Table information, listing all data points that were recorded

Reports: Generating a PDF or CSV File

FlashPDF Program Manager automatically generates both PDF and CVS files for reporting. The files are placed in a folder and automatically named with the logger serial number, date and time of download.

The locations of the files are:

/My Documents/FlashPDF/PDF

1013-7-22					
G O v 📕 × Libraries × Documents × FlashPDF × PDF × 2013-7-22 ▼ 🚱 Sea					
Organize 👻 Share with	▼ Burn New folder		8	- 🗌 🕐	
Favorites	Documents library 2013-7-22		Arrange by:	Folder 🔻	
Recent Places Downloads	Name ^	Date modified	Туре	Size	
🕞 Libraries	2013_7_22_7_21_45.pdf	7/22/2013 7:21 AM	Adobe Acrobat Doc	246 KB	

/My Documents/FlashPDF/CSV

2013-7-22	▼ Documents ▼ FlashPDF ▼ CSV ▼ 2013-7-22		▼ 6	_ 🗆 🗙 Gearch 2
Organize ▼ Share with ▼ Burn New folder			8==	• 🔳 🔞
Favorites	Documents library 2013-7-22		Arrange by:	Folder 🔻
Secent Places Downloads Libraries	Name ^	Date modified	Туре	Size
	函 0_2013_7_22_7_21_55.csv	7/22/2013 7:21 AM	Microsoft Excel Com	6 KB

Resetting the Logger for Next Use

Once the logger information has been downloaded, locate the FlashPDF Program Manager Icon and single **right click** on it. Click **Setup** in menu to open the configuration screen.

Click on the Reactivate button in the lower

center of the New Configuration dialog box. The logger will be configured with the same settings as previous logging period

🐆 FlashPDF Pr	ogram Manag	er - Logger Configuratio	n Wizard - 6000405	5		? ×
New Co	onfigura	ition				
Logging						1/2
Start Type Start Dela		Manual	Start Button: Stop Button:		Enabled Enabled	
Period: Interval: Mode:		0Hrs 30Mins 0Secs Normal	Waypoints: PC Connection A PDF Data Table:	Action:	Pause	
Display S Memory U		Celsius 99%	PDF Data Table: Time Zone		Enabled UTC -8	
Data Ta	gs			Serial Number		
Order: Shipper: City:				60004055 Trip Number		
Receiver: Carrier:				45359000		
Back	Sar	$\overline{\mathbf{i}}$	Reactivate	N	ext	Cancel

Click **OK** and **Finish**. Disconnect the logger from the computer.

Reconnecting the logger to the cable can be done without removing the glycol bottle from the storage unit.

Troubleshooting

Call Tech Support at: Phone: 925-249-2250 Ext 5120 Toll Free 800-390-0804 USA & Canada Email: techsupport@deltatrak.com



Options
Setup
Import
ColdTrak File Processing
Exit
About
Check For Updates



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