Quick Start Guide

FlashLink® Model 40527 Preconfigured

Certified Vaccine PDF Data Logger

DeltaTrak®

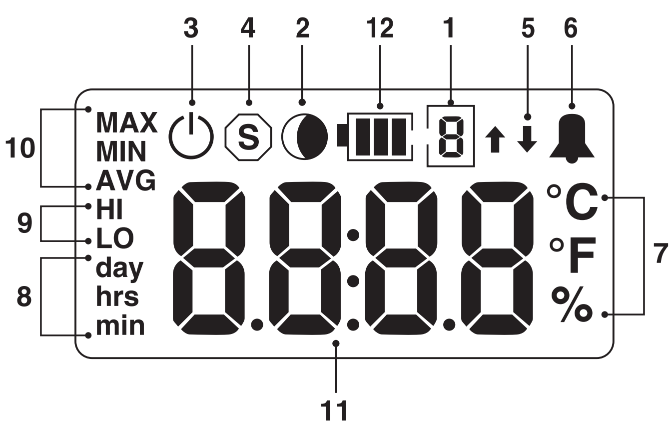
Getting Started with the FlashLink Certified Vaccine PDF Data Logger, Model 40527

The Glycol Bottle

This digital data logger (DDL) features a stainless steel sensor enclosed in a bottle of propylene glycol. The cable has a stereo jack for quick disconnect to easily detach the DDL and download data. The glycol buffered sensor emulates products in the storage unit and keeps the sensor from setting off false alarms due to rapid temperature fluctuations caused by frequent door opening during normal daily use.

Place the glycol bottle sensor in the center of the refrigerator or freezer, attach the DDL to the outside of the unit. Allow at least 1 hour for the sensor to reach equilibrium before activating the logger. When the sensor doesn't have enough time to equilibrate to the internal temperature, it will trigger a false alarm if it is still above the high alarm set point.

The LCD Screen



1. Sensor/alarm channel enumerator
2. Shadow logging icon
3. Active mode icon
4. Stop mode icon
5. High and low alarm arrows
6. Alarm icon
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
12. Battery Capacity Gauge

Basic Operation

The logger comes preconfigured for immediate use, with alarm set points for either refrigerated or frozen environments. There is no need to load additional software on your computer, only Adobe Reader is required to view reports. Installing DeltaTrak's FlashLink Program Manager software is optional, and allows changes to the preconfigured settings, including alarm limits and logging interval.

Starting the Logger

Press and hold the START button until a temperature reading appears on the LCD without flashing (Figure 1). If the glycol bottle is inside the refrigerator and was allowed to acclimate for at least 1 hour, it will be simulating the temperature of the vaccines vials stored around it. If **LLL.L** appears on the LCD, the sensor is not connected (Figure 2). Check the stereo jack to make sure it is completely inserted.

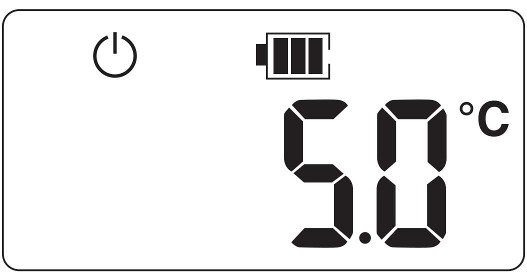


Figure 1

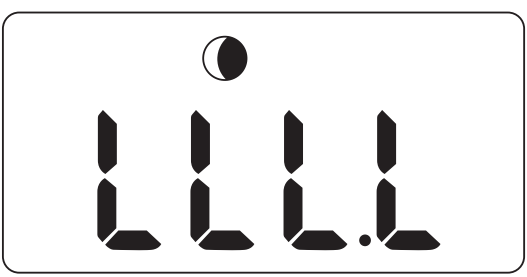
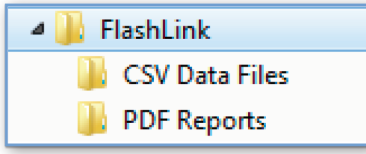


Figure 2

Downloading Reports

Before using the DDL for the first time, create the following folders and sub folders on the computer used to store downloaded data:



Press and hold the STOP button until **StoP** appears on the LCD without flashing. Detach the DDL from the glycol bottle sensor so that the sensor remains in the storage unit. Plug the DDL into the USB port of the computer you will be using to download the data files. The DDL will appear in File Manager as a removable drive named FlashLink. Open the drive and save the PDF file in the PDF Reports folder and save the CSV file in the CSV Data Files folder. If the PDF file did not open automatically, click on it and it will open in Adobe Reader.

NOTE: It is important to save these files before resetting the DDL. A reset will clear all recorded data from its memory.

FlashPDF Report will automatically show on screen.

FlashLink PDF Report

DeltaTrak.

Trip Information

Order	
Shipper	
City	
Receiver	
Carrier	
Signature	

Logger Configuration

Interval	00 Hrs 10 Mins 00 Secs
Start Delay	000 Days 00 Hrs 00 Mins
Serial #	60015338-0101
Model #	40525
Alarm Skip	0 pts
Alarm Delay	000 Days 00 Hrs 00 Mins
Time Zone	GMT - 04

Alarm Results

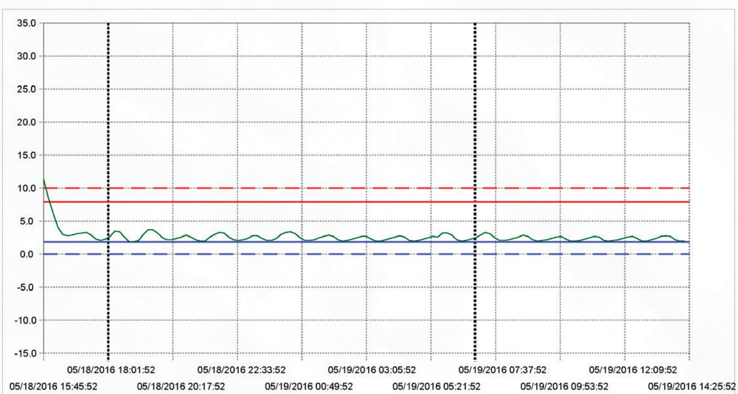
	Limit	Cumulative Limit	First Event	Events	Total Time	Pass/Fail
Extreme High	10.0 °C	000 Days 00 Hrs 00 Mins	05/18/2016 15:45:52	1	000 Days 00 Hrs 10 Mins	FAIL
High	8.0 °C	000 Days 00 Hrs 00 Mins	05/18/2016 15:45:52	2	000 Days 00 Hrs 20 Mins	FAIL
Low	2.0 °C	000 Days 00 Hrs 00 Mins	05/18/2016 18:45:52	17	000 Days 02 Hrs 50 Mins	FAIL
Extreme Low	0.0 °C	000 Days 00 Hrs 00 Mins	None	0	000 Days 00 Hrs 00 Mins	PASS

Logged Data Summary

Type	Points	Recorded Period	Start Time	Stop Time	Download Time
Normal	136	22 Hrs 40 Mins 00 Secs	05/18/2016 15:35:52	05/19/2016 14:15:52	05/19/2016 14:21:11

Statistical Summary

Minimum	Maximum	Average	Degree Minutes	Mean ± Standard Deviation	Mean Kinetic Temperature
1.9 °C	11.3 °C	2.6 °C	13.0 °C x Mins	2.6 °C ± 1.0 °C	2.7 °C



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The succeeding pages are displayed in table format, listing all data points that have been recorded.

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FlashLink® PDF Report

#	Time	°C	#	Time	°C	#	Time	°C
00001	05/18/2016 15:45:52	11.3	00052	05/19/2016 00:15:52	3.3	00103	05/19/2016 08:45:52	2.7
00002	05/18/2016 15:55:52	8.5	00053	05/19/2016 00:25:52	3.4	00104	05/19/2016 08:55:52	2.2
00003	05/18/2016 16:05:52	6.2	00054	05/19/2016 00:35:52	3.1	00105	05/19/2016 09:05:52	2.0
00004	05/18/2016 16:15:52	4.1	00055	05/19/2016 00:45:52	2.5	00106	05/19/2016 09:15:52	2.1
00005	05/18/2016 16:25:52	3.0	00056	05/19/2016 00:55:52	2.1	00107	05/19/2016 09:25:52	2.2
00006	05/18/2016 16:35:52	2.8	00057	05/19/2016 01:05:52	2.1	00108	05/19/2016 09:35:52	2.4
00007	05/18/2016 16:45:52	2.9	00058	05/19/2016 01:15:52	2.2	00109	05/19/2016 09:45:52	2.6
00008	05/18/2016 16:55:52	3.1	00059	05/19/2016 01:25:52	2.5	00110	05/19/2016 09:55:52	2.7
00009	05/18/2016 17:05:52	3.2	00060	05/19/2016 01:35:52	2.7	00111	05/19/2016 10:05:52	2.3
00010	05/18/2016 17:15:52	3.3	00061	05/19/2016 01:45:52	2.9	00112	05/19/2016 10:15:52	2.0
00011	05/18/2016 17:25:52	2.9	00062	05/19/2016 01:55:52	2.7	00113	05/19/2016 10:25:52	2.0
00012	05/18/2016 17:35:52	2.3	00063	05/19/2016 02:05:52	2.2	00114	05/19/2016 10:35:52	2.1
00013	05/18/2016 17:45:52	2.1	00064	05/19/2016 02:15:52	2.0	00115	05/19/2016 10:45:52	2.3
00014	05/18/2016 17:55:52	2.3	00065	05/19/2016 02:25:52	2.1	00116	05/19/2016 10:55:52	2.5
00015	05/18/2016 18:05:52	2.7	00066	05/19/2016 02:35:52	2.3	00117	05/19/2016 11:05:52	2.7
00016	05/18/2016 18:15:52	3.5	00067	05/19/2016 02:45:52	2.5	00118	05/19/2016 11:15:52	2.6
00017	05/18/2016 18:25:52	3.4	00068	05/19/2016 02:55:52	2.7	00119	05/19/2016 11:25:52	2.1
00018	05/18/2016 18:35:52	2.6	00069	05/19/2016 03:05:52	2.7	00120	05/19/2016 11:35:52	2.0
00019	05/18/2016 18:45:52	1.9	00070	05/19/2016 03:15:52	2.3	00121	05/19/2016 11:45:52	2.1
00020	05/18/2016 18:55:52	1.9	00071	05/19/2016 03:25:52	2.0	00122	05/19/2016 11:55:52	2.2
00021	05/18/2016 19:05:52	2.1	00072	05/19/2016 03:35:52	2.0	00123	05/19/2016 12:05:52	2.4
00022	05/18/2016 19:15:52	3.0	00073	05/19/2016 03:45:52	2.2	00124	05/19/2016 12:15:52	2.6
00023	05/18/2016 19:25:52	3.7	00074	05/19/2016 03:55:52	2.4	00125	05/19/2016 12:25:52	2.7
00024	05/18/2016 19:35:52	3.7	00075	05/19/2016 04:05:52	2.6	00126	05/19/2016 12:35:52	2.4
00025	05/18/2016 19:45:52	3.2	00076	05/19/2016 04:15:52	2.8	00127	05/19/2016 12:45:52	2.0
00026	05/18/2016 19:55:52	2.5	00077	05/19/2016 04:25:52	2.6	00128	05/19/2016 12:55:52	2.0
00027	05/18/2016 20:05:52	2.2	00078	05/19/2016 04:35:52	2.1	00129	05/19/2016 13:05:52	2.2
00028	05/18/2016 20:15:52	2.2	00079	05/19/2016 04:45:52	2.0	00130	05/19/2016 13:15:52	2.4
00029	05/18/2016 20:25:52	2.4	00080	05/19/2016 04:55:52	2.1	00131	05/19/2016 13:25:52	2.7
00030	05/18/2016 20:35:52	2.6	00081	05/19/2016 05:05:52	2.3	00132	05/19/2016 13:35:52	2.8
00031	05/18/2016 20:45:52	2.9	00082	05/19/2016 05:15:52	2.5	00133	05/19/2016 13:45:52	2.7
00032	05/18/2016 20:55:52	2.6	00083	05/19/2016 05:25:52	2.7	00134	05/19/2016 13:55:52	2.2
00033	05/18/2016 21:05:52	2.2	00084	05/19/2016 05:35:52	2.6	00135	05/19/2016 14:05:52	2.0
00034	05/18/2016 21:15:52	2.0	00085	05/19/2016 05:45:52	3.2	00136	05/19/2016 14:15:52	2.0
00035	05/18/2016 21:25:52	2.0	00086	05/19/2016 05:55:52	3.2			
00036	05/18/2016 21:35:52	2.6	00087	05/19/2016 06:05:52	2.9			
00037	05/18/2016 21:45:52	3.0	00088	05/19/2016 06:15:52	2.2			
00038	05/18/2016 21:55:52	3.3	00089	05/19/2016 06:25:52	2.0			
00039	05/18/2016 22:05:52	3.2	00090	05/19/2016 06:35:52	2.1			
00040	05/18/2016 22:15:52	2.6	00091	05/19/2016 06:45:52	2.3			
00041	05/18/2016 22:25:52	2.2	00092	05/19/2016 06:55:52	2.5			
00042	05/18/2016 22:35:52	2.1	00093	05/19/2016 07:05:52	2.9			
00043	05/18/2016 22:45:52	2.2	00094	05/19/2016 07:15:52	3.3			
00044	05/18/2016 22:55:52	2.4	00095	05/19/2016 07:25:52	3.1			
00045	05/18/2016 23:05:52	2.8	00096	05/19/2016 07:35:52	2.5			
00046	05/18/2016 23:15:52	2.8	00097	05/19/2016 07:45:52	2.1			
00047	05/18/2016 23:25:52	2.4	00098	05/19/2016 07:55:52	2.1			
00048	05/18/2016 23:35:52	2.1	00099	05/19/2016 08:05:52	2.2			
00049	05/18/2016 23:45:52	2.1	00100	05/19/2016 08:15:52	2.4			
00050	05/18/2016 23:55:52	2.4	00101	05/19/2016 08:25:52	2.6			
00051	05/19/2016 00:05:52	3.0	00102	05/19/2016 08:35:52	2.9			

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Restart After Download

After saving the PDF and CSV files, remove the DDL from the USB port, the LCD should still display **StoP**. To reset, press and hold down both the **START** and **STOP** buttons at the same time until stops flashing on the LCD.

Release the buttons and the LCD will show a sequence of icons flashing as it resets. When you see a blank screen with , first plug the DDL back into the glycol bottle sensor connector, and then press and hold the **START** button until the current temperature reading appears on the LCD (Figure 1). The DDL will now resume recording.

Remaining Battery Voltage

The LCD includes a battery icon to indicate when the battery is low.

Troubleshooting

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