



FlashLink® Models 40570, 40570-01, 40571, 40571-01

Certified Vaccine ULT PDF Data Loggers



Getting Started with the FlashLink Certified Vaccine ULT PDF Data Logger

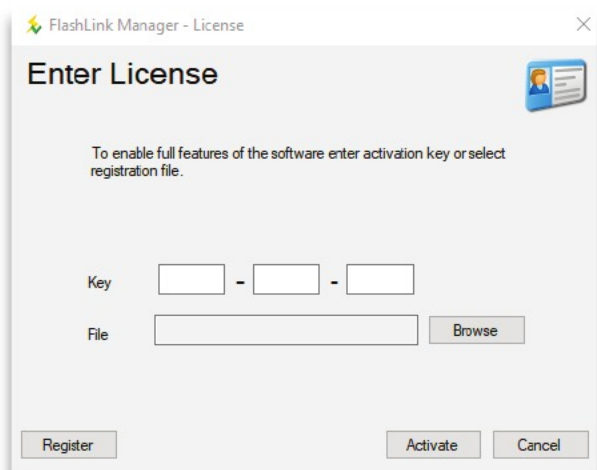
Installing the Software

Insert the FlashLink Program Manager flash drive into a USB port of a PC. There are two files, a license and FlashLink.exe software installation file. Save these to the PC hard drive. If you do not have a flash drive and only have the license, download the software from the DeltaTrak web site

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Note: The license key can be used on two computers.

Navigate to the files on the hard drive. Open the license document and note the license key number. Double click on FlashLink.exe and follow instructions in the dialog boxes that appear on the screen. When you get to the **Enter License** dialog box, key in the number provided in the license and select **Activate**.



The FlashLink shortcut icon will appear on the desktop and system tray. Double click the icon to open the program. FlashLink Program Manager runs automatically and detects when a data logger is connected to the USB port for programming and downloading.

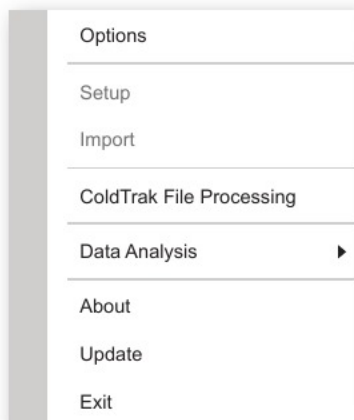


During software installation, subfolders for PDF and CSV file storage are created in the main FlashLink folder. When a data logger is downloaded, PDF and CSV reports are automatically generated and saved in these folders for record keeping.

Programming the Logger

Right click on the FlashLink icon to open the main menu.

- **Options** - Customize FlashLink software display, file storage location, report appearance, enable 21 CFR administration
- **Setup** - Create/save logger configuration files, including logging periods, intervals, alarm thresholds
- **Import** - Import and reuse saved Setup configuration files
- **ColdTrak File Processing** - Send data files to ColdTrak Server Database (optional cloud service)
- **Data Analysis** - View trends and details, compare multiple charts from a single data logger or several loggers
- **About** - Displays FlashLink software version, provides a link to Help files
- **Update** - Checks DeltaTrak server for available FlashLink software updates
- **Exit** - Closes FlashLink application



FlashLink Help is a complete user guide that is accessible from any screen by clicking on the [?] symbol in the top, right corner. Specific topics can easily be found in the table of contents or by using the keyword search bar.

Plug the FlashLink Data Logger into the USB port of the computer, select **Setup** to open the **Logger Configuration Wizard**. The current configuration is displayed. Click on **Next** to access **Logging Options** and select desired configuration parameters. **New Configuration** window will confirm settings, select **Next** and **OK** to upload the configuration to the data logger. The **Reactivate** option will keep the settings currently programmed in the unit.

Once configured, the logger can now be activated, downloaded and reset without having to use FlashLink Program Manager. The software will be needed when configuration changes are required.

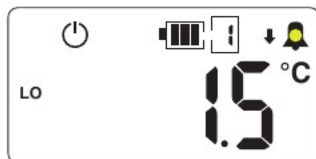
Alarm Notifications

The alarm must be enabled during logger configuration, including alarm set points. The bell icon and flashing LED will activate with the first alarm event. LEDs and icons remain on the LCD until the logger is reset or reconfigured.

Alarm delay can be programmed to trigger only when temperature excursions continue beyond the set delay period that starts with the first alarm event.

Level 1 High/Low Alarm

 Numeral 1 icon
Yellow LED flashes every 5 seconds
High  or Low 

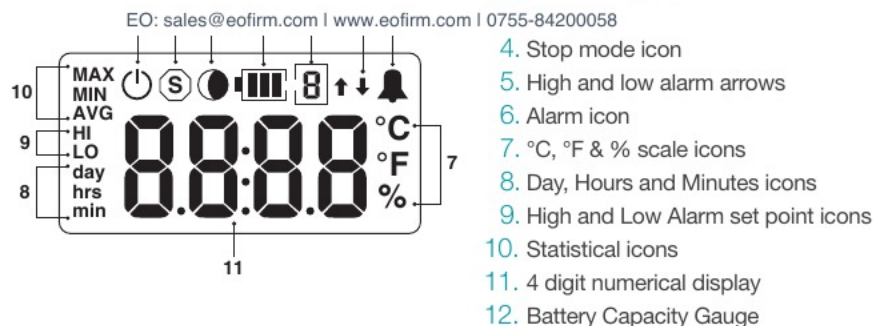


Level 2 Extreme High/Low Alarm

 Numeral 2 icon
Red LED flashes every 5 seconds
High  or Low 



The LCD Screen



The Sensor

These data loggers feature a stainless steel probe with a PTFE cable, designed for use in ultra-low temperature conditions, down to -115.6°F (-82°C). Model 40571 includes an aluminum buffer to emulate temperature of vaccines inside the vials, and also prevents false alarms which could occur from frequent door openings during normal use.

Place the sensor in the center of the refrigerator or freezer, attach the logger 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.

Starting the Logger

Press and hold the **START** button until a temperature reading appears on the LCD without flashing. If the sensor is inside the storage unit and was allowed to acclimate for at least 1 hour, it will be simulating the temperature of the vaccines stored around it. If **LLL.L** appears on the LCD, the sensor is not connected. Check the stereo jack connector to make sure it is completely inserted. Make sure the metallic cover over the connector is tight. If it comes loose, re-tighten.



Daily Statistics on LCD

Temperature statistics from the last 24 hours of recorded data are available for viewing on-demand at any time without stopping the logger.

A single press of the green **START** button shows a statistic on the LCD, each subsequent button-press advances to the next statistic. The LCD automatically reverts to current reading about five seconds after button release and showing a statistic. The LCD scrolls through values in this order:

- Maximum temperature
- Minimum temperature
- Average temperature

If alarms limits are programmed:

- High alarm set point
- Accumulated time above high alarm, if no excursions, 00:00 is displayed
- Low alarm set point
- Accumulated time below low alarm, if no excursions, 00:00 is displayed

Inserting Waypoints

If a temperature reading needs to be confirmed at a check point during transportation or storage, a waypoint can be inserted as a marker to flag date/time of this event. The waypoint option must first be enabled during logger configuration.

Press and hold the **START** button until **FLA9** appears on the LCD and release when it stops flashing. The waypoint has been inserted and the LCD will revert to current temperature reading. When reports are created at the end of the logging period, waypoints appear as a vertical line on the graph and have an asterisk in the data table.



Stopping the Logger

If monitoring needs to continue after the logger is downloaded, do not remove the sensor from the storage unit. Press and hold the red **STOP** button until **StoP** appears on the LCD without flashing. Detach the logger from the cable, make sure the sensor remains inside the storage unit.

Downloading Reports

Option 1 - When the **STOP** button is pressed, FlashLink ULT PDF Data Logger automatically generates PDF and CSV reports using its onboard software and saves these files to an internal memory. This allows personnel to download and save reports on any PC and does not require FlashLink Program Manager software.

Option 2 - Download data to a PC which is running FlashLink Program Manager software. When a data logger is plugged into the USB port, the software automatically detects the logger, generates and saves Adobe® PDF and CSV reports to the subfolders in the FlashLink main folder.

FlashLink PDF Report



Succeeding pages list all data points in table format



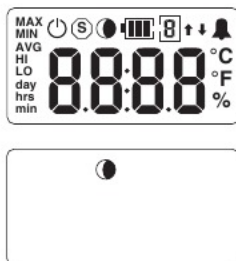
FlashLink PDF Report

#	Time	°C	#	Time	°C	#	Time	°C
0001	05/19/2018 15:00:12	11.3	0052	05/19/2018 15:00:15	3.3	0043	05/19/2018 15:00:12	4.5
0002	05/19/2018 15:00:12	0.5	0053	05/19/2018 15:00:15	3.4	0044	05/19/2018 15:00:15	2.2
0003	05/19/2018 15:00:12	6.2	0054	05/19/2018 15:00:15	3.5	0045	05/19/2018 15:00:15	2.3
0004	05/19/2018 15:00:12	0.1	0055	05/19/2018 15:00:15	2.5	0046	05/19/2018 15:00:15	2.1
0005	05/19/2018 15:00:12	10	0056	05/19/2018 15:00:15	3.1	0047	05/19/2018 15:00:15	2.3
0006	05/19/2018 15:00:12	1.8	0057	05/19/2018 15:00:15	2.1	0048	05/19/2018 15:00:15	2.3
0007	05/19/2018 15:00:12	0.5	0058	05/19/2018 15:00:15	2.2	0049	05/19/2018 15:00:15	2.8
0008	05/19/2018 15:00:12	1.1	0059	05/19/2018 15:00:15	2.3	0050	05/19/2018 15:00:15	2.7
0009	05/19/2018 15:00:12	3.3	0060	05/19/2018 15:00:15	2.7	0051	05/19/2018 15:00:15	2.3
0010	05/19/2018 15:00:12	3.3	0061	05/19/2018 15:00:15	2.8	0052	05/19/2018 15:00:15	2.8
0011	05/20/2018 17:00:02	7.3	0062	05/19/2018 15:00:17	2.7	0053	05/19/2018 15:00:15	2.8
0012	05/20/2018 17:00:02	1.2	0063	05/19/2018 15:00:17	2.7	0054	05/19/2018 15:00:15	2.3
0013	05/20/2018 17:00:02	1.2	0064	05/19/2018 15:00:17	2.8	0055	05/19/2018 15:00:15	2.3
0014	05/20/2018 17:00:02	1.2	0065	05/19/2018 15:00:17	2.8	0056	05/19/2018 15:00:15	2.3
0015	05/20/2018 17:00:02	2.7	0066	05/19/2018 15:00:17	2.3	0057	05/19/2018 15:00:15	2.8
0016	05/20/2018 15:00:12	3.5	0067	05/19/2018 15:00:17	2.8	0058	05/19/2018 15:00:15	2.8
0017	05/20/2018 15:00:12	2.4	0068	05/19/2018 15:00:17	2.7	0059	05/19/2018 15:00:15	2.8
0018	05/20/2018 15:00:12	2.6	0069	05/19/2018 15:00:17	2.7	0060	05/19/2018 15:00:15	2.8
0019	05/20/2018 15:00:12	0.9	0070	05/19/2018 15:00:17	2.3	0061	05/19/2018 15:00:15	2.1
0020	05/20/2018 15:00:12	1.9	0071	05/19/2018 15:00:17	2.3	0062	05/19/2018 15:00:15	2.1
0021	05/20/2018 15:00:12	2.1	0072	05/19/2018 15:00:17	2.3	0063	05/19/2018 15:00:15	2.4
0022	05/20/2018 15:00:12	10	0073	05/19/2018 15:00:17	2.2	0064	05/19/2018 15:00:15	2.8
0023	05/20/2018 15:00:12	3.7	0074	05/19/2018 15:00:17	2.4	0065	05/19/2018 15:00:15	2.7
0024	05/20/2018 15:00:12	3.7	0075	05/19/2018 15:00:17	2.4	0066	05/19/2018 15:00:15	2.4
0025	05/20/2018 15:00:12	3.7	0076	05/19/2018 15:00:17	2.4	0067	05/19/2018 15:00:15	2.8
0026	05/20/2018 15:00:12	3.5	0077	05/19/2018 15:00:17	2.4	0068	05/19/2018 15:00:15	2.8
0027	05/20/2018 15:00:12	2.2	0078	05/19/2018 15:00:17	2.1	0069	05/19/2018 15:00:15	2.2
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0030	05/20/2018 15:00:12	2.4	0081	05/19/2018 15:00:17	2.1	0072	05/19/2018 15:00:15	2.2
0031	05/20/2018 15:00:12	2.6	0082	05/19/2018 15:00:17	2.1	0073	05/19/2018 15:00:15	2.8
0032	05/20/2018 15:00:12	2.6	0083	05/19/2018 15:00:17	2.1	0074	05/19/2018 15:00:15	2.7
0033	05/20/2018 15:00:12	2.6	0084	05/19/2018 15:00:17	2.1	0075	05/19/2018 15:00:15	2.2
0034	05/20/2018 15:00:12	2.6	0085	05/19/2018 15:00:17	2.1	0076	05/19/2018 15:00:15	2.8
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0036	05/20/2018 15:00:12	2.6	0087	05/19/2018 15:00:17	2.1	0078	05/19/2018 15:00:15	2.8
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0038	05/20/2018 15:00:12	2.6	0089	05/19/2018 15:00:17	2.1	0080	05/19/2018 15:00:15	2.8
0039	05/20/2018 15:00:12	2.6	0090	05/19/2018 15:00:17	2.1	0081	05/19/2018 15:00:15	2.8
0040	05/20/2018 15:00:12	2.6	0091	05/19/2018 15:00:17	2.1	0082	05/19/2018 15:00:15	2.8
0041	05/20/2018 15:00:12	2.6	0092	05/19/2018 15:00:17	2.1	0083	05/19/2018 15:00:15	2.8
0042	05/20/2018 15:00:12	2.6	0093	05/19/2018 15:00:17	2.1	0084	05/19/2018 15:00:15	2.8
0043	05/20/2018 15:00:12	2.6	0094	05/19/2018 15:00:17	2.1	0085	05/19/2018 15:00:15	2.8
0044	05/20/2018 15:00:12	2.6	0095	05/19/2018 15:00:17	2.1	0086	05/19/2018 15:00:15	2.8
0045	05/20/2018 15:00:12	2.6	0096	05/19/2018 15:00:17	2.1	0087	05/19/2018 15:00:15	2.8
0046	05/20/2018 15:00:12	2.6	0097	05/19/2018 15:00:17	2.1	0088	05/19/2018 15:00:15	2.8
0047	05/20/2018 15:00:12	2.6	0098	05/19/2018 15:00:17	2.1	0089	05/19/2018 15:00:15	2.8
0048	05/20/2018 15:00:12	2.6	0099	05/19/2018 15:00:17	2.1	0090	05/19/2018 15:00:15	2.8
0049	05/20/2018 15:00:12	2.6	0100	05/19/2018 15:00:17	2.1	0091	05/19/2018 15:00:15	2.8
0050	05/20/2018 15:00:12	2.6	0101	05/19/2018 15:00:17	2.1	0092	05/19/2018 15:00:15	2.8
0051	05/20/2018 15:00:12	2.6	0102	05/19/2018 15:00:17	2.1	0093	05/19/2018 15:00:15	2.8
0052	05/20/2018 15:00:12	2.6	0103	05/19/2018 15:00:17	2.1	0094	05/19/2018 15:00:15	2.8
0053	05/20/2018 15:00:12	2.6	0104	05/19/2018 15:00:17	2.1	0095	05/19/2018 15:00:15	2.8
0054	05/20/2018 15:00:12	2.6	0105	05/19/2018 15:00:17	2.1	0096	05/19/2018 15:00:15	2.8
0055	05/20/2018 15:00:12	2.6	0106	05/19/2018 15:00:17	2.1	0097	05/19/2018 15:00:15	2.8
0056	05/20/2018 15:00:12	2.6	0107	05/19/2018 15:00:17	2.1	0098	05/19/2018 15:00:15	2.8
0057	05/20/2018 15:00:12	2.6	0108	05/19/2018 15:00:17	2.1	0099	05/19/2018 15:00:15	2.8
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0065	05/20/2018 15:00:12	2.6	0116	05/19/2018 15:00:17	2.1	0107	05/19/2018 15:00:15	2.8
0066	05/20/2018 15:00:12	2.6	0117	05/19/2018 15:00:17	2.1	0108	05/19/2018 15:00:15	2.8
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0069	05/20/2018 15:00:12	2.6	0120	05/19/2018 15:00:17	2.1	0111	05/19/2018 15:00:15	2.8
0070	05/20/2018 15:00:12	2.6	0121	05/19/2018 15:00:17	2.1	0112	05/19/2018 15:00:15	2.8
0071	05/20/2018 15:00:12	2.6	0122	05/19/2018 15:00:17	2.1	0113	05/19/2018 15:00:15	2.8
0072	05/20/2018 15:00:12	2.6	0123	05/19/2018 15:00:17	2.1	0114	05/19/2018 15:00:15	2.8
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0074	05/20/2018 15:00:12	2.6	0125	05/19/2018 15:00:17	2.1	0116	05/19/2018 15:00:15	2.8
0075	05/20/2018 15:00:12	2.6	0126	05/19/2018 15:00:17	2.1	0117	05/19/2018 15:00:15	2.8
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0082	05/20/2018 15:00:12	2.6	0133	05/19/2018 15:00:17	2.1	0124	05/19/2018 15:00:15	2.8
0083	05/20/2018 15:00:12	2.6	0134	05/19/2018 15:00:17	2.1	0125	05/19/2018 15:00:15	2.8
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0085	05/20/2018 15:00:12	2.6	0136	05/19/2018 15:00:17	2.1	0127	05/19/2018 15:00:15	2.8
0086	05/20/2018 15:00:12	2.6	0137	05/19/2018 15:00:17	2.1	0128	05/19/2018 15:00:15	2.8
0087	05/20/2018 15:00:12	2.6	0138	05/19/2018 15:00:17	2.1	0129	05/19/2018 15:00:15	2.8
0088	05/20/2018 15:00:12	2.6	0139	05/19/2018 15:00:17	2.1	0130	05/19/2018 15:00:15	2.8
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0090	05/20/2018 15:00:12	2.6	0141	05/19/2018 15:00:17	2.1	0132	05/19/2018 15:00:15	2.8
0091	05/20/2018 15:00:12	2.6	0142	05/19/2018 15:00:17	2.1	0133	05/19/2018 15:00:15	2.8
0092	05/20/2018 15:00:12	2.6	0143	05/19/2018 15:00:17	2.1	0134	05/19/2018 15:00:15	2.8
0093	05/20/2018 15:00:12	2.6	0144	05/19/2018 15:00:17	2.1	0135	05/19/2018 15:00:15	2.8
0094	05/20/2018 15:00:12	2.6	0145	05/19/2018 15:00:17	2.1	0136	05/19/2018 15:00:15	2.8
0095	05/20/2018 15:00:12	2.6	0146	05/19/2018 15:00:17	2.1	0137	05/19/2018 15:00:15	2.8
0096	05/20/2018 15:00:12							

Resetting After Download

Resetting the logger will clear recorded data from its memory. After saving the PDF and CSV files, remove the logger from the USB port, the LCD should still display **StoP**. To restart the unit without changing settings, 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 flash all icons while it resets. When you see a blank screen with  first plug the logger back into the sensor cable, make sure the metal cover over the stereo jack connector is tight, then press and hold the **START** button until the current temperature reading appears on the LCD. The logger will now resume recording.



Remaining Battery Voltage

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



Troubleshooting

Contact Tech Support:

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