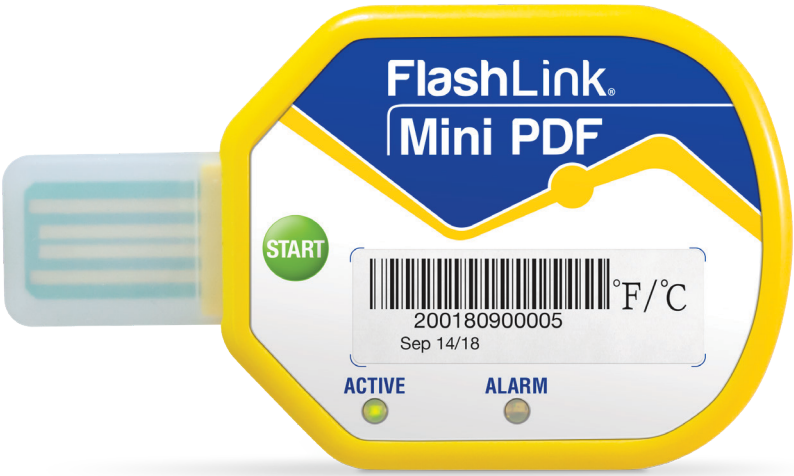
BioXTEND®

User Guide

FlashLink®

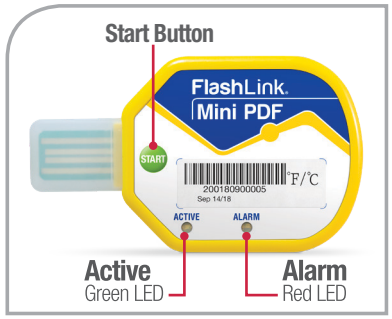
Mini PDF In-Transit Logger

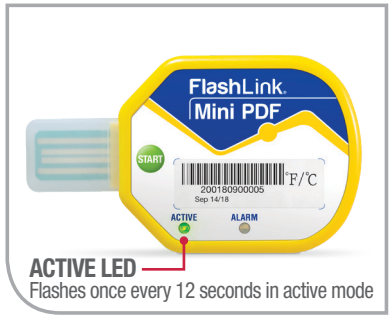
Mini PDF Registrador En Tránsito



Shipper Instructions to Start Logger:

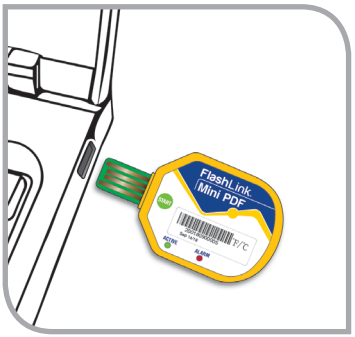
1. Fill out the shipping information section located below the logger on the card.
2. Press and hold the green START button until the green ACTIVE LED flashes 5 times.
3. The logger will enter a factory programmed 30-minute delay start. During this period, the green LED will flash twice every 12 seconds to indicate it's in delay start mode.
4. After the delay start time has expired, the logger begins recording temperature. During active recording the green LED will flash once every 12 seconds to confirm it is in active mode.
5. Remove peel-away barcode label and apply to shipping document. Serial number on logger and barcode label matches PDF reports for traceability.
6. Use adhesive strips on back of card to attach to pallet or package.





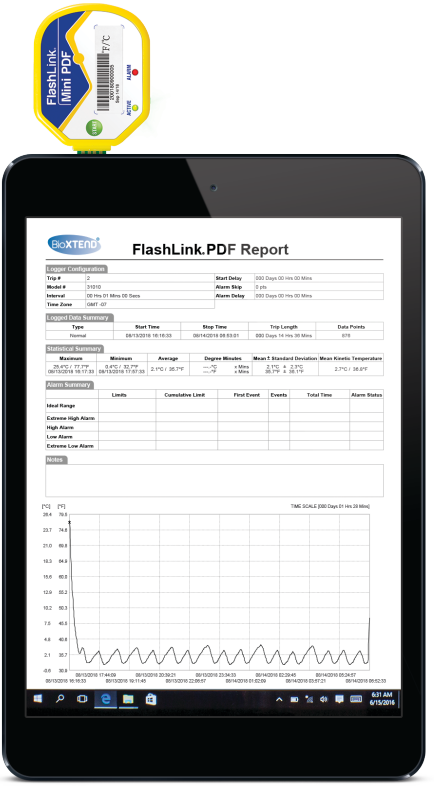
7. Optionally, the logger can be placed inside a carton to track the temperature of the product.

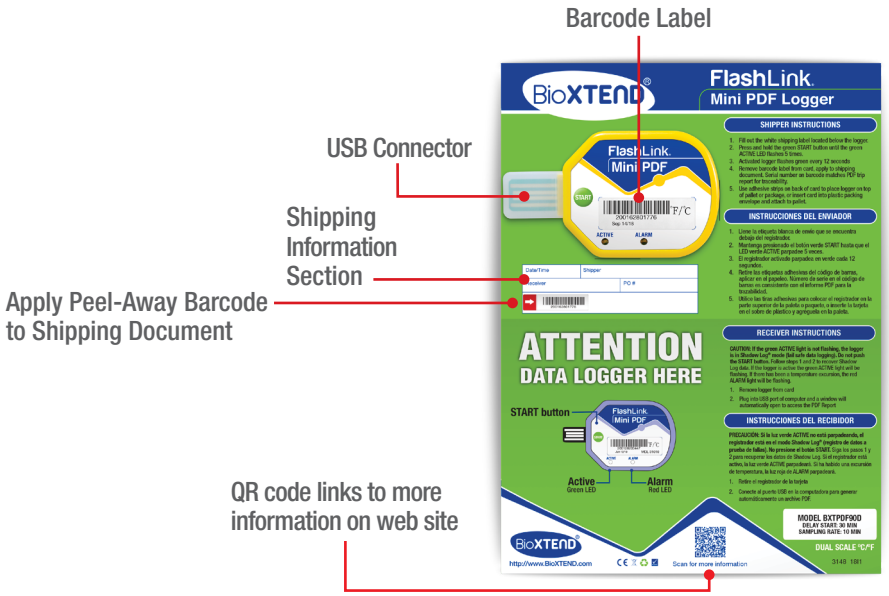
Receiver Instructions to Stop Logger and Download Trip Reports



1. Remove logger from card.
2. To stop the logger, insert connector into USB port of Windows PC or tablet with Adobe Reader, or a compatible Adobe Reader application
3. The LEDs will flash alternately red-green red-green to indicate reports are being generated. Red and green LEDs will remain lit to indicate PDF and CSV reports are now ready to be viewed

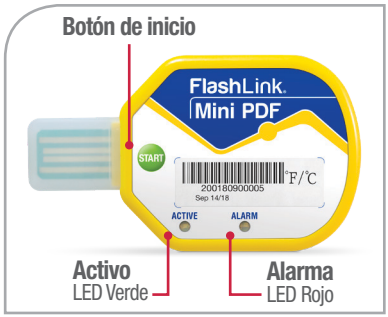
4. When the file folder pops up on the screen, double click on the PDF and CSV files to open and view the reports.
5. Save or print the files prior to disconnecting the logger from the computer.
6. If the logger is inserted into a computer after the initial download, the green and red LEDs remain lit to indicate reports are ready to view.
7. Please note that reports are created during the first download and Stop Time is permanently recorded. Stop Time is saved as the time of last recorded data point before the unit is downloaded, or if stopped when memory is full.





Instrucciones del Transportista al iniciar el registrador:

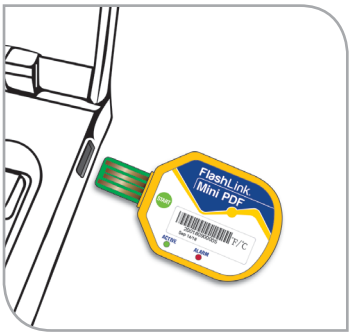
1. Llene la sección de información de envío ubicada debajo del registrador en la tarjeta.
2. Mantenga presionado el botón verde de INICIO hasta que el LED ACTIVO verde parpadee 5 veces.
3. El registrador ingresará en un inicio programado de 30 minutos de retraso. Durante este período, el LED verde parpadeará dos veces cada 12 segundos para indicar que está en modo de inicio demorado.



4. Después de que el tiempo de inicio de retraso haya expirado, el registrador comienza a registrar la temperatura. Durante la grabación activa, el LED verde parpadeará una vez cada 12 segundos para confirmar que está en modo activo.

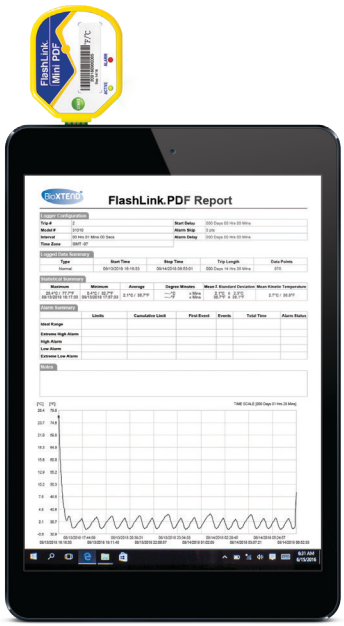
5. Quite la etiqueta de código de barras desprendible y aplíquela al documento de envío. El número de serie en el registrador y la etiqueta de código de barras coincide con los informes en PDF para su trazabilidad.
6. Use tiras adhesivas en la parte posterior de la tarjeta para unirlas al pallet o paquete.
7. Opcionalmente, el registrador se puede colocar dentro de una caja de cartón para controlar la temperatura del producto.

Instrucciones del Receptor para Detener el Registrador y Descargar Informes de Viaje



1. Remueva el registrador de la tarjeta.
2. Para detener el registrador, inserte el conector en el puerto USB de una PC o tablet con Adobe Reader, o una aplicación compatible de Adobe Reader

3. Los LED parpadearán alternativamente rojo-verde rojo-verde para indicar que se están generando informes. Los LED rojo y verde permanecerán encendidos para indicar que los informes en PDF y CSV están listos para ser vistos
4. Cuando aparezca la carpeta de archivos en la pantalla, haga doble clic en los archivos PDF y CSV para abrir y ver los informes.
5. Guarde o imprima los archivos antes de desconectar el registrador de la computadora.
6. Si el registrador se inserta en una computadora después de la descarga inicial, los LED verde y rojo permanecen encendidos para indicar que los informes están listos para verse.



7. Tenga en cuenta que los informes se crean durante la primera descarga y el tiempo de detención se registra de forma permanente. El tiempo de parada se guarda como la hora del último punto de datos grabado antes de que se descargue la unidad, o si se detiene cuando la memoria está llena.

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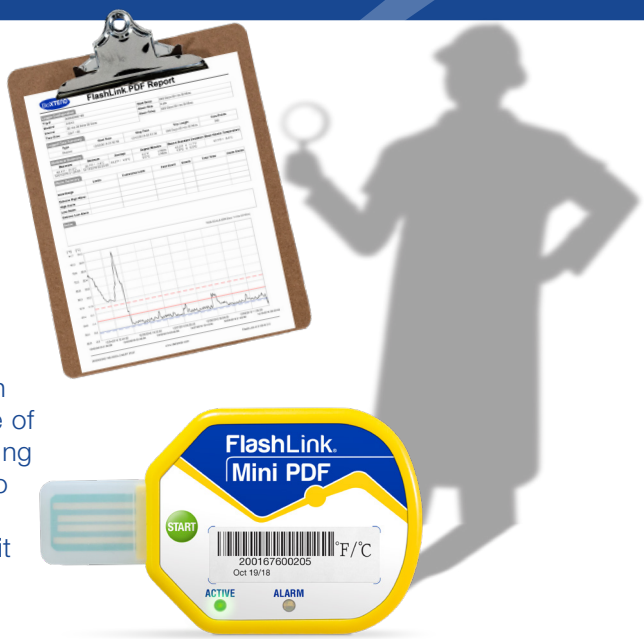
Technical Note **TN0005**

Shadow Log®
How Does it Work?



Overview

Why Shadow Log®

All too often, shipments of temperature sensitive goods arrive with data loggers that have not been started. This defeats the purpose of using this type of monitoring device, resulting in receivers not having any visibility of temperature conditions the goods were exposed to along the route. No one will know if a break in the cold chain has occurred, when it happened, at what temperature, and how long it was out of range. The whole load may be a total loss, with no evidence available when legal actions are necessary.

Guarantees Trip Data

Shadow Log® is a patented technology feature of the FlashLink Mini PDF In-Transit Logger. It guarantees temperature data is recorded even if the units are never started by the shipper, so that receivers will always have trip history for every inbound load. These reports provide complete information to verify if and when breaks occur in the cold chain. They help to identify who is responsible, and are used as evidence in claim situations and legal proceedings.

How does it work?

- Shadow Log® starts when the logger is programmed at the factory
- Logger records temperature data at regular intervals
- Stores in memory, ~80 day capacity
- Continuous loop - when memory is full, new data over writes oldest data points
- Operates with very low power, will not drain battery
- Do not press START if Shadow Log® icon is on the LCD. Pressing START will erase Shadow® data and begin normal logging at intervals based on model specifications

How can I tell when a logger is in Shadow Log® mode?

No LED lights flashing indicates logger is in Shadow Log® mode

Green LED flashing = Active logging mode

Red LED flashing = Active logging with alarm condition

Downloading Loggers with Shadow Log® Data

- Do not press START when logger arrives in Shadow Log® mode
- Plug the logger into the USB port of a computer
- PDF and CSV reports are generated

Compare Reports

- Indicates if data is from Shadow Log® mode or normal logging
- Shadow Log® includes data points before the trip started
- Easy to identify and verify trip data with time/date stamp visible on the graph
- Low temperature spike shows when logger went into refrigerated or frozen truck or container
- High temperature spike at end of trip, when logger is removed from the load

Report with Shadow Log® Data

BioXTEND **FlashLink® PDF Report**

Logger Configuration

Trip #	200000000186	**Start Delay**	000 Days 00 Hrs 30 Mins
Model #	31010	**Alarm Skip**	0 pts
Interval	00 Hrs 30 Mins 00 Secs	**Alarm Delay**	000 Days 00 Hrs 00 Mins
Time Zone	GMT +00		

Logged Data Summary

Type	Start Time	Stop Time	Trip Length	Data Points
Shadow	12/03/2018 21:50:58	12/10/2018 02:51:08	006 Days 05 Hrs 00 Mins	298

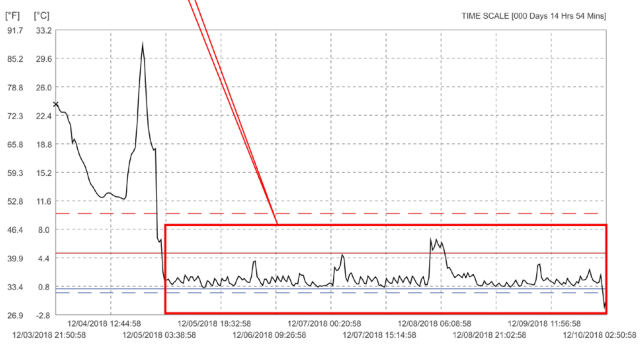
Statistical Summary

Maximum	Minimum	Average	Degree Minutes	Mean ± Standard Deviation	Mean Kinetic Temperature
88.3°F / 31.3°C 12/04/2018 21:20:58	28.7°F / -1.8°C 12/10/2018 02:20:58	40.2°F / 4.6°C	0.0°F x Mins 0.0°C x Mins	40.2°F ± 11.7°F 4.6°C ± 6.5°C	47.1°F / 8.4°C

Alarm Summary

	Limits	Cumulative Limit	First Event	Events	Total Time	Alarm Status
Ideal Range						
Extreme High Alarm						
High Alarm						
Low Alarm						
Extreme Low Alarm						

Notes



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Report with Normal Data

BioXTEND **FlashLink® PDF Report**

Logger Configuration

Trip #	200000000207	**Start Delay**	000 Days 00 Hrs 30 Mins
Model #	31010	**Alarm Skip**	0 pts
Interval	00 Hrs 10 Mins 00 Secs	**Alarm Delay**	000 Days 00 Hrs 00 Mins
Time Zone	GMT +00		

Logged Data Summary

Type	Start Time	Stop Time	Trip Length	Data Points
Normal	12/05/2018 01:15:44	12/10/2018 03:05:44	005 Days 01 Hrs 50 Mins	731

Statistical Summary

Maximum	Minimum	Average	Degree Minutes	Mean ± Standard Deviation	Mean Kinetic Temperature
46.0°F / 7.8°C 12/05/2018 01:15:44	33.0°F / 0.6°C 12/05/2018 21:15:44	35.0°F / 1.7°C	---.-°F x Mins ---.-°C x Mins	35.0°F ± 1.8°F 1.7°C ± 1.0°C	35.2°F / 1.8°C

Alarm Summary

	Limits	Cumulative Limit	First Event	Events	Total Time	Alarm Status
Ideal Range	≥ 32.9°F/ 0.5°C ≤ 41.0°F/ 5.0°C	Unlimited				
Extreme High Alarm	Over 50.0°F/ 10.0°C	000 Days 00 Hrs 00 Mins	NONE	0	000 Days 00 Hrs 00 Mins	✔
High Alarm	Over 41.0°F/ 5.0°C	000 Days 00 Hrs 00 Mins	12/05/2018 01:15:44	25	000 Days 04 Hrs 00 Mins	✖
Low Alarm	Under 32.9°F/ 0.5°C	000 Days 00 Hrs 00 Mins	NONE	0	000 Days 00 Hrs 00 Mins	✔
Extreme Low Alarm	Under 32.0°F/ 0.0°C	000 Days 00 Hrs 00 Mins	NONE	0	000 Days 00 Hrs 00 Mins	✔

Notes

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