User Guide

FlashLink Model 40982

BLE Logger with Sharp Tip Probe



DeltaTrak

Introduction

The DeltaTrak FlashLink® Model 40982 is a **single use Bluetooth Low Energy (BLE) temperature data logger** designed for monitoring environmental conditions or product temperature during shipment. It captures temperature data using a thermistor probe and wirelessly transmits data to a BLE gateway device, or mobile application, enabling automated uploads to a cloud based web portal for real time visibility.

Package Contents

- FlashLink® BLE Temperature Logger (Model 40982)
- Attached Sharp Tip Probe with 3-meter cable
- Pre installed 3.0V lithium battery



Device Overview

Physical Specifications

- **Dimensions (Body):** 1.38 in × 0.43 in (35 mm × 11 mm)
- **Weight:** 0.64 oz (18 g) with battery
- **Sensor Type:** Thermistor
- **Sensor Cable Length:** 9.8 ft (3 m), 0.07 in (1.83mm) diameter
- **Casing Material:** ABS Plastic
- **Ingress Protection**

LED Indicators:

- **Green LED** – Indicates successful activation and normal recording
- **Red LED** – Indicates failed activation

Product Features

- Single-use BLE temperature data logger
- Designed for tracking environmental conditions or product temperature inside transport vehicles
- Sharp tip probe for product or external temperature measurement
- Temperature data is stored in the logger
- Wireless Bluetooth transmission (BLE 4.0/5.0)
- Trip data is uploaded to a cloud-based web portal via gateway or mobile app

Technical Specifications

Temperature Measurement

- **Measurement Range:** –58°F to 158°F (–50°C to 70°C)
- **Accuracy:**
  - ±0.9°F (–22°F to 131°F)
  - ±0.5°F (–30°C to 55°C)
  - ±1.8°F (±1°C) outside this range
- **Resolution:** 0.1°F/°C

Data Logging

- **Data Capacity:** 60,000 data points
- **Logging Interval:** 5 minutes
- **Start Mode:** Manual button activation

Battery & Shelf Life

- **Battery Type:** 3.0V lithium
- **Shelf Life:** 2 years

Communication

- **BLE Version**: 4.0/5.0
- **Advertising Interval**: 2 seconds

Certifications

- CE, RoHS, Calibration accuracy traceable to ISO 17025 and NIST
- Manufactured under ISO 9001:2015 quality management system
- MODEL: 40982
  FCC ID: 2ATXY-40982
  Compliance statement: This device complies with Part 15C of the FCC Rules.

Operating Instructions

Activating the Logger



Starting

1. **Press and hold the START button**
2. Continue holding until the **green LED begins flashing**, then release
3. After activation, the green LED will flash every **2 seconds for 30 seconds**

Successful Activation

- Green LED flashing = device is actively recording

Failed Activation

- Red LED flashing = activation failed
- Press and hold START again and retry

Recording and Data Workflow

1. Once activated, the logger begins capturing temperature data at the preset **5 minute logging interval**.
2. Temperature readings are stored locally and uploaded to the cloud portal when the device is within range of a BLE Gateway (FlashLink® BLE Gateway).
3. Alternatively, the BLE mobile app (FlashTrak® BLink) can be used to upload data to the cloud portal.
4. Destination location data is available when the logger is within range of linked BLE gateway or BLE mobile app.
5. Data is accessible on the DeltaTrak cloud platform for review, analysis, and documentation.

Installation and Deployment

Using the Probe

- Place the thermistor probe in the environment you wish to measure (e.g., supply air, product, insulated container)
- Ensure the cable is not pinched, cut, or tensioned

Mounting the Logger

- Mount inside vehicle/storage area away from direct contact with ice, condensation pooling, or physical impact
- Use adhesive or zip tie options depending on packaging configuration

LED Behavior Summary

LED Color	Behavior	Meaning
Green	Flashing every 2 seconds for 30s after activation	Successful start
Green	Flashing	Actively recording
Red	Flashing	Failed activation — retry

Storage and Handling

- Keep the device within its rated storage temperature until deployment
- Shelf life is **2 years**; avoid storing in high humidity conditions
- Do not attempt to replace the battery (single use device)

Safety and Compliance

- Complies with CE, FCC, and RoHS regulatory standards
- Device meets IP65 protection against dust and water spray
- Use only as directed for shipment/environmental monitoring

FCC Statement

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions:

1. This device may not cause harmful interference.
2. This device must accept any interference received, including interference that may cause undesired operation.

Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications.

However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna
- Increase the separation between the equipment and receiver
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

RF Exposure Information (MPE)

This device has been tested and meets applicable limits for Radio Frequency (RF) exposure. This equipment should be installed and operated with a minimum distance of 20 cm between the radiator and your body.

Manufacturer Contact Information

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