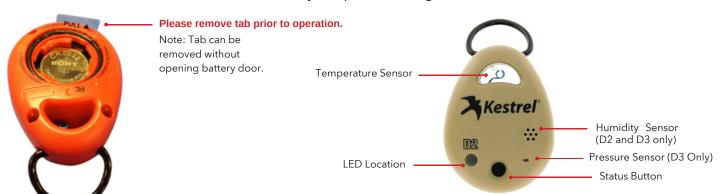


pacific data system

Getting Started with Your Kestrel DROP

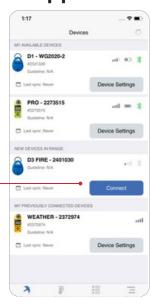
Please note: You will need to remove the battery tab prior to using the DROP.



Connecting your DROP to the Kestrel LiNK Application

Please note: You must connect the DROP to our Kestrel LiNK application PRIOR to using it in the field to ensure the date and time are updated on the DROP and the settings are correct.

- To begin, download Kestrel LiNK for Android or iOS from the Play Store (icon shown).
- Make sure Bluetooth is enabled on the mobile device you are using.
 - Open the Kestrel LiNK app and when your device appears, select the Connect button.



Connecting your DROP to the Kestrel LiNK Application

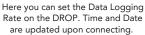
Please note: You must connect the DROP to our Kestrel LiNK application PRIOR to using it in the field to ensure the date and time are updated on the DROP and the settings are correct.

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ELITE X - 2559514	-
#2559514	
Model: 5700XAL	E Last Sync: Jan 28, 2021
	Settings
ENVIRO - 2521057	-
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From the Devices screen, select the Settings button.

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Device Settings D3 FIRE - 2401030 EDIT #2401030 Model: Kernel D3 FIRE * 4	Manage Device D SFIRE - 2401030 Model: Kestel D3 FIRE
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Manage device data	You have no logged data point Last Logged Data Point
Manage alerts Check for Firmware Updates	Sync Log
DEVICE SETTINGS	Device Sync Rate
RH Calibration	Data Logging Rate
Device Info	30 min
Forget Device Disconnect	Wrap Log Wrap Log will update Kestrel dev
	Clear App Log
	Clear Device Log

Navigate to the Manage Device Data Screen.



Kestrel DROP[®] HOW TO Wireless Environmental Data Loggers pacific data systems

← Manage Dev	ice Data	
D3 FIRE - 2401030 #2401030 Model: Kestrel D3 FIRE	D	al 🚥
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Data Logging Rate		
Wrap Log Wrap Log will update Kestre	el device se	etting.
Clear App Log		
Clear Device Log		
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Uploading and Exporting your Data

From Manage Device Data Screen:

- Press Sync Log to manually upload all the data on the
- DROP. Press Export Log to export the data log as a
- CSV file. You can view and export all saved data on the History tab.

Using Your Kestrel DROP

• As soon as the battery supplies power to the DROP, it begins logging data. Battery life will depend on logging rate, amount of time connected to Kestrel LiNK app and ambient temperature. The only way to stop a DROP from logging is to remove the battery.

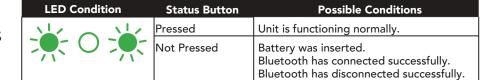
• The DROP will log at the default of once per hour unless the user changes the logging rate with the Kestrel LiNK app.

• The DROP will continue logging until the memory is full or if "wrap log" is enabled, it will log until the battery runs out.

• Status Button and LED functions: status button will promote a DROP to the top of the devices list in the LiNK app. "Beacon Mode" on the app will cause the LED to blink.

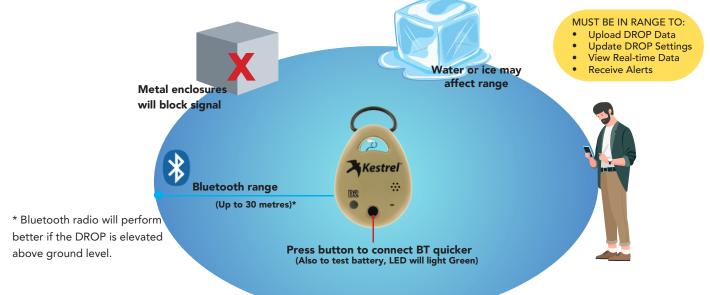
	Unit is on. (Only powers off if battery is removed)	
If Battery Is Inserted	Bluetooth is on.	
	DROP is logging data.	

LED Indicators



Note: Status button can be used to immediately send a connection signal to your iOS/Android device.

DROP Connection Guidance





Battery Replacement

(Please note: After battery replacement, you MUST reconnect to the Kestrel LiNK application to ensure time and date are updated for logging purposes.)



Note: Please inspect the o-ring when opening battery door and ensuring it is clean before replacing door. Also ensure it is properly aligned when closing battery door.

Getting More from Your DROP

Temperature

- A slight air flow of 2 mph or more will speed up temperature response times.
- DROP can be used to measure water or snow temperature by submerging the thermistor.
- DROP can withstand being in 1 meter of water for up to 30 minutes.

Humidity

- For accurate humidity readings, allow the DROP to equilibrate to its environment. Depending on the temperature and humidity differential between environments, this can take between 20 and 90 minutes.
 Note: Users can use the graph in the Kestrel LiNK app to monitor when the humidity reaches equilibrium as the humidity graph will
- trend flat when it reaches this point.
 After submersion in a liquid, humidity readings, if available on your DROP, will be impacted until the humidity sensor area has fully dried. Gently blowing on the sensor area (the small grid of holes in the front case) can speed this process.
- After exposure to temperatures over 80°C/176°F, an offset in humidity may be present for a period.

Connectivity

- Typical range is 100 ft but longer ranges can be achieved. Metal enclosures, ice, submersion in liquids, obstructed lines-of-site and ground level or non-vertical logging positions will reduce connection range.
- If more than 3-4 DROPs are present, turning off auto connect and manually connecting one at a time will help the app connect successfully. Typically, a maximum of 8 DROPs can be connected to a device at a time.
- The DROP uses Bluetooth Low Energy (BLE) to connect to devices.

Operating Temperature

The DROP will operate without restriction from 14°F/-10°C to 131°F/55°C. Operation at lower temperatures will be limited by the available power and life span of the coin cell battery. Downloading a full data log in temperatures below 14°F/-10°C may tax the battery to the point where the DROP will not operate until the battery has been replaced. For best results below 14°F/-10°C, use a fresh battery, keep data log downloads short (1000 data points or fewer), or allow the DROP to warm to above 14°F/-10°C before connecting or attempting to download logs. The DROP can generally be expected to continue to log data points down to 0°F/-18°C with these limitations.

Battery Life

- Cold conditions, frequent logging rates, and frequent log downloads will all shorten battery life.
- When downloading extremely large data logs or making firmware updates, avoid using low batteries and conditions below 32°F/0°C.
- Estimated battery life at the baseline settings programmed into your DROP when shipped from the factory (10 min logging rate, 5 sec connection rate) and room temperature (and room temperature (77°F/25°C) is about 4 months. Intensive logging and connection settings (2 sec logging rate, constant connection) can reduce battery life to as little as 11 days.