

#### SENSOR CAPABILITY

Single Temperature  
Dual Temperature

#### DEVICE COMPATIBILITY

Uses Bluetooth 4.0  
Connects to almost any Mac computer, Windows computer, Chromebook, iOS device, or Android device.

#### SENSOR SETTLE TIME

Give your PocketLab Thermo 30 seconds to settle, depending on set up and conditions

#### BATTERY

CR2032 coin cell  
240 hours of connected streaming

#### BATTERY CHARGING

Use a micro USB cable to charge. LED blinks red every 10 secs while charging, stops when fully charged.

#### TEMPERATURE PROBE RANGE

-55 to 125° C (-67 to 257° F)

#### ACCURACY

0.5°C (0.9°F)

#### RESOLUTION

0.01°C (0.02°F)

#### DATA RATE

4 points/sec (4 Hz) to 1 point/min (0.017 Hz)

#### PROBE LENGTH

1 meter (3 feet)

#### WHAT IS INCLUDED?

1 PocketLab Thermo Sensor  
1 CR2032 coin cell battery  
2 Temperature Probes

#### PRODUCT CARE

PocketLab Thermo circuit board is not waterproof. The probes are waterproof.

## Need Help?

### We're here for you!

Log in to PocketLab Notebook for tutorials, a knowledge base, and chat support. Visit [thepocketlab.com/notebook](http://thepocketlab.com/notebook)

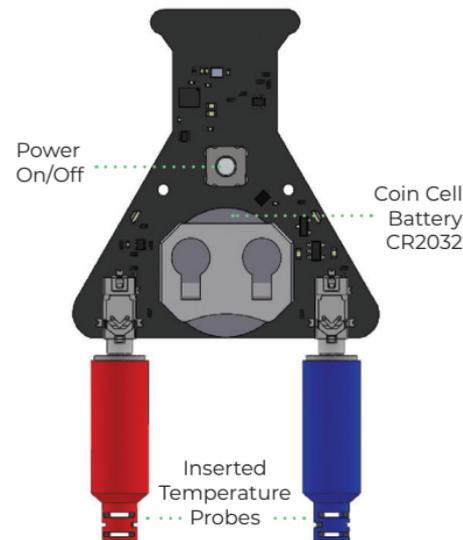
Questions? Send us a message: [thepocketlab.com/contact](http://thepocketlab.com/contact)

Explore detailed instructions and exciting experiments at [app.thepocketlab.com/thermo](http://app.thepocketlab.com/thermo)



# Thermo

## SENSOR USER GUIDE



# Get Started:

## GO TO: [app.thepocketlab.com](https://app.thepocketlab.com)

in Google Chrome/Microsoft Edge or use "the PocketLab" app on iOS/Android

## CONNECT SENSOR:

- Click "Connect a PocketLab"
- Turn on PocketLab (short press top button)
- Select your sensor in app window

**\*Important:** For Bluetooth pairing, use the app only, not your device settings.

## CREATE FREE ACCOUNT:

Save data, access interactive lessons, manage classes/student accounts, and more!

- Click "Teachers: *Login or Create Account*"
- For tutorials visit [thepocketlab.com/training](https://thepocketlab.com/training)

## BUTTON FUNCTIONS

### Short Press

Start Bluetooth pairing

### Long Press (5 secs)

Power Off

### RED-BLUE Fast flash

Disconnected, ready to connect

### BLUE Flash

Bluetooth pairing initiated (3X)

### RED-BLUE

### Dimmable temperature feedback

0°–100°C / 32°–212°F (dim-bright)

### RED Solid

Disconnecting from app

# Thermo Adventures!

## EXCITING INVESTIGATION

Explore cell function and organelles! Witness how cells collaborate and observe substances moving across a semipermeable membrane with iodine. Plus, monitor temperature changes with the Thermo sensor to delve deeper into cell mechanics!

## HANDS-ON EXPLORATION

Delve into bacterial growth and temperature changes! We'll use PocketLab Thermo to monitor temperature shifts while observing bacteria thrive in various conditions, uncovering insights into their adaptation and survival.

## FUN ENERGY EXPLORATION

Discover how energy moves in ecosystems! In the 'Energy in Popcorn' experiment, track temperature changes as popcorn pops. Students will grasp how energy flows between living and nonliving elements in nature, enhancing their understanding of ecosystems' interconnectedness.

## IGNITE CURIOSITY

Determine if an endothermic or exothermic reaction occurred.

## DISCOVER MORE!

Explore additional engaging Thermo lessons in the PocketLab Notebook Lesson Library!

[app.thepocketlab.com/thermo](https://app.thepocketlab.com/thermo)