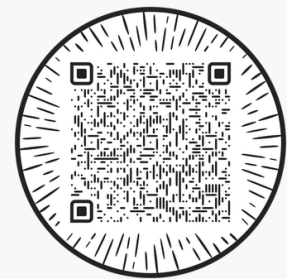


Tempest Weather System Installation Manual & User Guide

Tempest°



Let's get your Tempest system up and running.

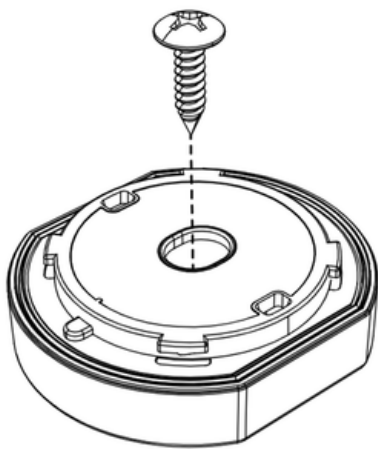
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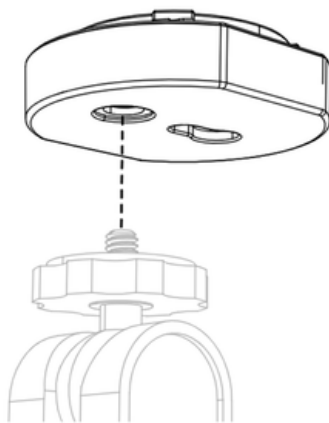
Quick Start Guide

- 1.Download and launch the Tempest Weather app.
- 2.Enable Bluetooth and follow the steps in the app to configure your devices.
- 3.Once setup is complete, you can install your Tempest device outdoors with exposure to wind, rain, and sun. If you plan to install Tempest in a difficult to access location we recommend temporarily installing your Tempest in an accessible area outside to ensure that everything is working correctly. View the [Siting and Installation Guide](#) for detailed information.

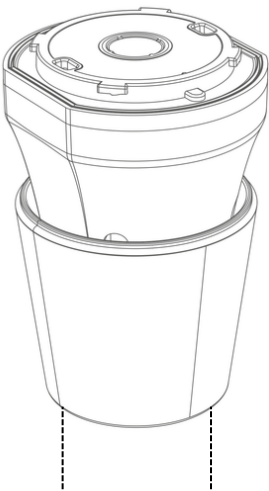
Mounting Options Included:



Flat base, wood screw & keyhole slot mount option



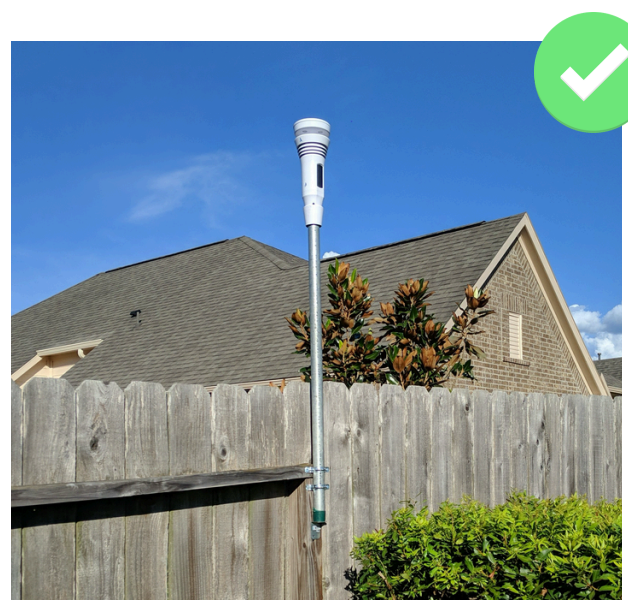
Flat base & 1/4-20 camera mount option



Pole mount option

Detailed Setup Instructions

- Download the 'Tempest Weather' mobile app from the Google Play Store or the Apple App Store.
- Enable Bluetooth on your smartphone or tablet and launch the app. If you are using an Android device, be sure to enable location services in order for Bluetooth connection services to function properly.
- Enter an email address and password. (Write it down so you don't forget!)
- The hardware (Hub + Tempest device) can only be configured to one account at a time. You can share the account login or the public URL generated for your station after it's set up.
- Mobile app setup walk-through
- Now tap "Setup Station" and follow the guided steps in the app to configure your hardware to a 'station'. A station consists of a Hub and connected sensor devices, e.g. the Tempest device.
- Plug in the Hub. Tap the NEXT button and proceed with setup.
- Twist off the base of your Tempest device. (It's watertight - twist hard!). Tap NEXT and proceed.
- Enter your Hub's serial number (located on a sticker on the bottom of your Hub). Tap the NEXT button.
- Name your station. (We suggest you pick a name that describes the location such as "NW River Bend" or even the town/city and street name works great.)
- Tap "Set" to set the geographic location. A map should appear to pinpoint your geographic location (make sure location services on your phone or tablet are enabled). You can drag the map around to adjust the pinned location if necessary. Once the pin is in the desired location, tap the check mark in the top right corner. Tap NEXT and proceed.
- Elevation above sea level is automatically determined based on the geographic location.



Note: For most owners, the recommended installation is between 6 to 8 feet (1.5-2.5 m) above the ground surface and away from obstacles. Exposure to direct sunlight and an open sky should be prioritized.

Connect the Hub to Your WiFi Network

- Gather your WiFi network name and password. Tap NEXT.
- Select your 2.4GHz WiFi network. Enter your WiFi password. If you don't see your desired WiFi network, tap "Refresh" in the upper right and/or reboot your WiFi router if you're still having trouble. For hidden SSID's select Manual Setup and enter the name of your network. See troubleshooting tips below if you're getting stuck.
- Success! Wait about 5 minutes for the initial sensor data to start filling in.

Siting and Installation of the Tempest Device

The Tempest is extremely accurate and can detect small differences in the micro-climates of your backyard. Following these basic guidelines will provide you with the best weather observations and forecasts for your location:

1. Choose an open location with good exposure to direct sunlight throughout the day.
2. Avoid close proximity to surfaces such as buildings, walls or the ground, while also avoiding any unnatural heat or moisture source such as vents or active chimneys.
3. For most owners, the recommended installation is between 6 to 8 feet (1.5-2.5 m) above the ground surface and away from obstacles. Exposure to direct sunlight and an open sky should be prioritized.

By following these guidelines you will collect measurements of temperature, rain, humidity, lightning and sunlight, which are accurate and well representative of your location. You will also get very accurate wind measurements from the Tempest device which will be useful for understanding the general level of wind at your location. And all the measured parameters from a basic installation will help improve your forecast! If you are interested in better estimating the winds aloft (NOAA standard reporting is at 10m) please consider a roof installation.

Troubleshooting Tips

Hub not found during set up.

What's happening:

No Bluetooth connection between Hub and phone.

Try this:

- Toggle Bluetooth off and back on, or restart your phone.
 - Enable app permissions:
 - Android: Bluetooth + Location/Nearby Devices
 - iOS: Bluetooth Sharing
 - Close the app, power cycle the Hub, then reopen the app.
 - Do **not** pair the device through your phone's Bluetooth settings. If it's already paired there, select "Forget Device."
-

I don't see my WiFi network in the list.

What's happening:

No 2.4GHz network detected.

Try this:

- Tap **Refresh** in WiFi setup.
 - Ensure router broadcasts **2.4GHz** (Hub does not support 5GHz).
 - Disable band steering or create a dedicated 2.4GHz network.
 - Reboot router, extenders, and Hub.
 - Move Hub closer to router.
 - Use Manual Setup if SSID is hidden.
-

I can't connect to my WiFi network.

What's happening:

Password, network, or security issue.

Try this:

- Re-enter password carefully.
 - Confirm a stable 2.4GHz network.
 - Restart Hub and router.
 - Close/reopen the app.
 - Use WPA/WPA2 security (not WEP or some WPA3 modes).
 - Check firewall settings.
-

The Tempest device is not found during setup.

What's happening:

The Tempest device must be powered on and in pairing mode before connecting to the Hub.

Try this:

- Be sure the switch on the bottom of the Tempest device is in the "on" position.
 - If not already blinking green (pairing mode), press and hold the clear button until it blinks green.
 - If unresponsive, leave the switch "on" and place outdoors in direct sunlight for several hours to recharge.
-

Troubleshooting Tips (*continued*)

My station Hub went offline/stopped reporting.

What's happening:

Either power, WiFi or radio connection has been interrupted to the indoor Hub or sensor device.

Try this:

- Check power and WiFi connection.
- Power cycle the Hub.
- In the app: Settings → Stations → Status for details.

Post-Set Up Issues

My Tempest device stopped reporting data.

What's happening:

The device may have lost power after a prolonged period of insufficient solar charging.

Try this:

- Ensure several hours of direct sun daily.
- Reposition away from shade.
- Consider Power Booster in low-sun locations.
- Device will reconnect automatically once charged.

Rain totals look too high or too low.

What's happening:

Wind-driven rain, spray, or nearby structures can affect readings. Unstable mounting can lead to increased totals.

Try this:

- Mount 6–8 ft high with a stable mast.
- Remove protective film from sensor top.
- Avoid roof runoff, sprinklers, or trees.
- Contact support for calibration help.

Wind speeds seem inaccurate.

What's happening:

Sensors are reading the conditions where they are positioned. Slower and more turbulent air exists at ground level and where obstacles obstruct and slow down winds.

Try this:

- Mount higher and away from trees, walls, fences.
- Aim for clear exposure (10x distance from nearby obstructions).
- Note: Professional standard is 33 ft high with no nearby obstructions.