

Tempest^o

A revolutionary personal weather system



Tempest is a meticulously designed personal weather system that delivers unmatched accuracy. Weather observations stream instantly from the solar-powered, wireless Tempest station through WeatherFlow's data center and are used to help provide a better forecast for your exact location.

Data collected by each is shared with the National Weather Service, contributing to a more accurate general forecast and helping us all predict and prepare for extreme weather.

Make Your Smart Home A Genius

Tempest was designed to be simple and provide advanced data. A design with no moving parts, nearly zero maintenance and instant online weather and forecasting data. Install the Tempest home weather system in less than five minutes and it will do the rest!

- Adjust your irrigation schedule based on the rain that's fallen... or the rain that's forecast to fall
- Turn on attic exhaust fans if the temperature is high
- Turn on ceiling fans if the temperature is high
- Turn on whole house attic fan & turn off the AC if the outside temperature is cooler than inside
- Turn on outside accent lighting when light level falls below a set limit
- Turn on an engine block heater on work days when the outside temperature is close to freezing

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- Adjust heating/cooling levels based on the temperature and humidity forecast
- Adjust indoor lighting levels based on outdoor sunlight levels
- Adjust awning and shade positions based on ambient light, solar radiation, wind, etc

Tech Specs

Measurement	Range	Accuracy	Interval
Air Temperature	-35°F to 140°F	± 0.7°F	1 min
Relative Humidity	0 to 100%	± 2%	1 min
Atmospheric Pressure	up to 1100 mbar	± 1 mbar ; station and sea-level	1 min
Lightning activity	0 to 40 km (25 miles)	varies by distance	Instantly
Wireless	300m (1000ft++)	sub-Ghz telemetry	
Wind Speed	0 to 100 mph	± 0.5 mph	continuous sampling
Wind Direction	0-359°	± 5°	continuous sampling
Ambient Light	1 to 128 kLUX	± 100 mLUX	1 min
UV Index	0 to 11+ index		1 min
Solar Irradiance	0 to 1900 W/m2	± 5%	1 min
Rain Onset		first rain drops	Instantly
Rain Intensity	Light to Torrential	± 0.2mm / hr	Instantly
Rain Duration	daily total	1 minute	1 minute
Rain Accumulation	daily total	± 10%	1 min
Mount	Adjustable pole mount		
Power	Solar Powered		

Compatible with: iOS and Android

Wi-Fi Range: 1000 feet

Cellular hub: prepaid data plan for at least 750 hours

Key Product Features:

- Reports temperature, solar radiation and UV, humidity, barometric pressure, wind speed and direction, dew point, lightning strikes, rainfall and more.

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- Solar-powered outdoor sensor with wireless transmission to hub up to 1000+ ft and updates every three seconds.
- No moving parts, nearly zero maintenance, installation in minutes and instant online access via AI-powered app, personal weather webpage, and direct link to Weather Underground.
- Uses WeatherFlow's advanced machine learning to continuously fine-tune your weather station's accuracy for a better local forecast over time.
- Share your Tempest dashboard with friends and family or embed a custom HTML code to your website. REST API plus UDP and BLE local broadcast.

Measured Variables & Features:

- Outdoor temp, humidity, dew point, feels like temp.
- Station pressure and sea-level pressure
- Wind speed, wind direction, average and gusts
- Lightning activity (strikes and distance up to 25 miles)
- Rain onset, intensity, duration and accumulation
- DeltaT, wind chill, wet bulb temp, air density
- UV index, brightness, solar radiation
- iOS and Android apps & free personal weather page
- Free personal weather page: [LIVE EXAMPLE](#)
- Auto-calibration with Continuous Learning system
- Works with Alexa, Google Home, IFTTT and more

The meticulously designed Tempest Weather System leverages powerful machine learning and state of the art modeling capabilities to provide the most precise, local forecast available - guaranteed. No-moving parts, completely wireless, simple installation, with instant online access to weather data via free iOS and Android apps.

Weight: 3.5 lb

Package Dimensions: 7.25 x 7.25 x 12

Watt hours per battery: 3.12

Lithium content (grams): 0.49

Number of Lithium-ion Cells: 1

Number of Lithium Metal Cells: 0

Battery weight (grams): 38

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