Overview
Campbell Scientific’s TurfWeather® is an automated weather station designed for OEMs in the turf grass market. It consists of meteorological sensors, a solar panel, and a protective case that houses the data logger/transmitter and rechargeable battery. The case and solar panel mount to a pole with a 1.25-inch-to-2-inch outer diameter (optional or user-supplied).

The TurfWeather’s datalogger measures the sensors, then stores and processes the data. The datalogger contains an internal spread spectrum radio for transmitting data to a PC. Campbell Scientific ships an RF401A-series spread spectrum radio with the TurfWeather. This radio connects to the PC, and receives transmissions from the weather station. With typical line-of-sight conditions and using a ¼ wave antenna, the TurfWeather can transmit data over distances of half a mile.

Benefits and Features
- Preprogrammed according to each OEM’s needs—whether the OEM requires simple meteorological data or complex data processing such as ETo calculations
- Low power consumption
- Watertight enclosure that protects electronics and enhances long-term reliability
- Transmits data using spread spectrum radios
- Simple, integrated design for faster installation

Measurements
- Wind speed
- Wind direction
- Air temperature
- Relative humidity
- Rainfall
- Solar radiation
- Barometric pressure

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More info: 435.227.9120
Standard Components

1. CR206X Datalogger with 915 MHz Radio
2. 0.8 Ah lead-acid battery
3. Solar radiation sensor
4. Air temperature and relative humidity probe
5. Tipping bucket rain gage
6. Wind direction sensor
7. Wind speed sensor
8. 1.25 inch to 2 inch outer diameter pole
9. 5 W solar panel
10. Protective case

Customizations

Programming
The TurfWeather is preprogrammed according to each OEM’s needs—whether the OEM requires simple meteorological data or complex data processing such as ETo calculations.

Datalogger/Spread Spectrum Radio
- CR211X Datalogger with 922 MHz Spread-Spectrum Radio
- CR216X Datalogger with 2.4 GHz Spread-Spectrum Radio

Accessory Telemetry and Power Kit
The ATP100 kit includes a 10-inch-by-12-inch enclosure that houses a 7 Ah rechargeable battery and NL240 Wi-Fi interface. The enclosure is typically mounted to a pole. Several antenna options are offered. The kit also may be purchased without the NL240 for applications requiring other communication options.

Mounts
- CM375 30 foot Portable Mast
- CM300 23 inch Mounting Pole
- CM305 47 inch Mounting Pole
- CM310 56 inch Mounting Pole

Sensors
- High accuracy (0.01 inch per tip), external tipping bucket also available; contact Campbell Scientific for more information.

The TurfWeather is a commercial-grade station. For turf grass applications that require research-grade performance or more durable sensors, Campbell Scientific offers the ET107 Evapotranspiration Station.