CAMPBELL SCIENTIFIC®
WHEN MEASUREMENTS MATTER

SOLAR800
Quick-Deploy Solar Resource Assessment Station

End-to-End

Complete Meteorological Solution for Solar Resource Assessment

Key Benefits

- *The right measurements*
- *Easy and quick to deploy*
- *No specialized training*
- *Data automatically delivered*

Major System Components

Configuration Software
> Communication IP Addressing

MET Station
> Tripod
> Power Supply
> Cell modem and/or Ethernet interface

MET Measurements
> Solar Position
> Global Horizontal Irradiance
> Plane of Array Irradiance
> Air Temperature
> Wind Speed
> Precipitation
> Relative Humidity
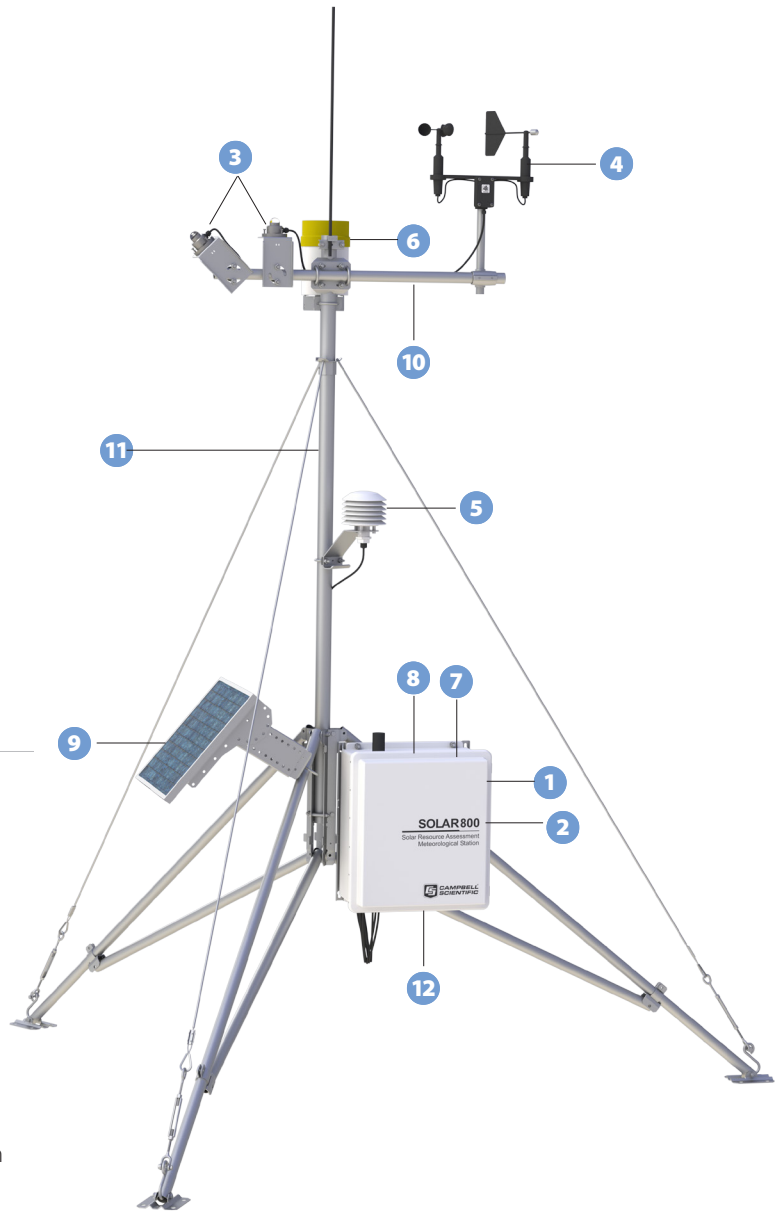> Wind Direction
> Barometric Pressure

Overview

The SOLAR800 is a complete solar measurement data acquisition solution specifically designed for solar resource assessment. The SOLAR800 delivers the on-site observations essential for a thorough understanding of a project site's solar resource and variability.

The SOLAR800 is easy and quick to deploy, requiring no specialized training for proper installation and operation. Data is automatically sent to the client's server, cloud, SCADA, and/or FTP site.

specs, questions, & quotes: **435.227.9120**

www.campbellsci.com/solar800

Default Components

1. CR800 Measurement and Control Datalogger

2. NL201 Ethernet Interface

3. LP02 Second Class Pyranometer

4. 03002 Wind Sentry Set

5. 109 Temperature Probe in 6-plate radiation shield

6. TE525 Tipping Bucket with Pedestal Mount

7. BP24 24 Ah Rechargeable Power Supply

8. CH150 Regulator

9. SP20 20 W Solar Panel

10. CM204 2-foot Crossarm with Bracket

11. CM106 7-to-10 ft Galvanized-Steel-Tubing Tripod

12. PWENC16/18 Prewired Enclosure, 16 in. x 18 in.

Customizations

The SOLAR800 includes many options that allow you to configure the station to your project's specifications, while retaining its turn-key functionality. The following is a list of the available options:

Pyranometer Options
› **Option -SC:** Two LP02 Second Class Pyranometer
› **Option -SS**: Two CMP11 Secondary Standard Pyranometers

Met Instrument Options
› **Option -SM**: 03002 Wind Sentry Set, TE525 Tipping Bucket Rain Gage, 109 Temperature Probe
› **Option -AM**: 03002 Wind Sentry Set, TE525 Tipping Bucket Rain Gage, CS100 Barometer, CS215 Temperature and Relative Humidity Probe

Power Supply Options
› **Option -NP**: Order when a power supply other than the standard solar option or AC option is needed
› **Option -SP:** 20 W Solar Kit that includes a BP24 battery and 20 W panel with mounting hardware and prewired connector.
› **Option -AC:** 1.75 A power supply kit that contains Phoenix step power supply. Provides 100 to 240 Vac/24 Vdc

Communications Options
› **Option -NC:** Order when a communication option other than the standard cellular option or Ethernet option is needed
› **Option -CE:** Ethernet kit that includes an NL201 Network Link Interface (configured in bridge mode) and field power cable**.**
› Contact Campbell Scientific about cellular phone options