

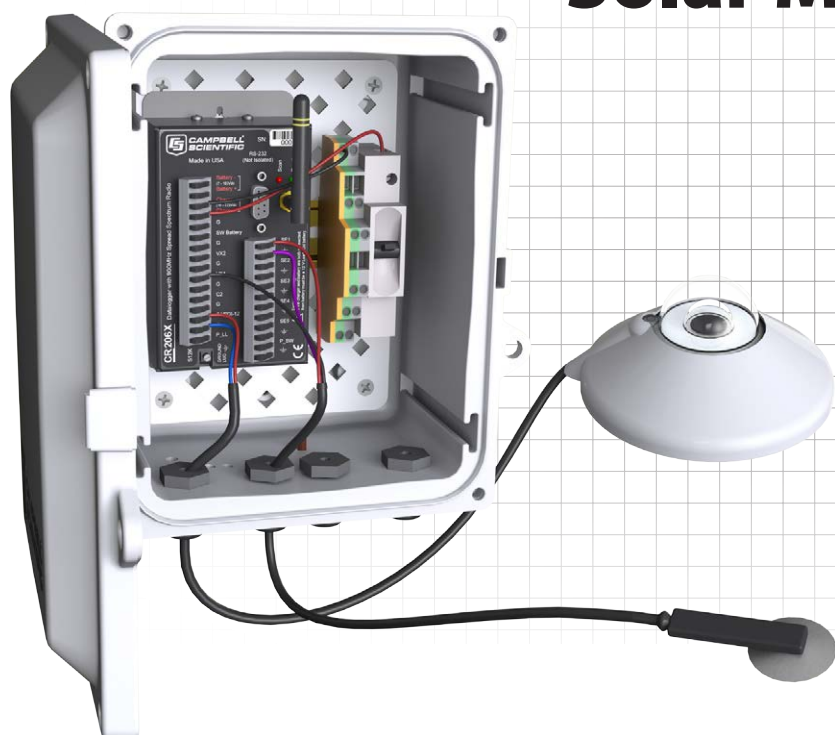


SOLAR200

Solar Monitoring Station

Commercial and Industrial Solar Monitoring Station

Simple, Flexible, Field-Ready



Measurements

Standard:

- Plane-of-Array Irradiance
- Back-of-Module Temperature

Extended:

- Air Temperature
- Wind Speed
- Precipitation
- Global Horizontal Irradiance

Overview

The SOLAR200 is a simple solar monitoring solution for commercial and industrial installations. This turnkey station is delivered field-ready, designed for quick and easy installation and commissioning. Critical parameters solar irradiance and back of module temperature(s) are measured and reported along with data quality and station perfor-

mance and operational status indication and feedback. Additional measurements; air temperature, wind speed, precipitation, and/or global horizontal irradiance are optional. The SOLAR200's data are obtained via Modbus RS-485 or TCP/IP, cellular modem, or using Campbell Scientific's LoggerNet Software package.

Benefits and Features

- › High reliability and longevity with a Campbell Scientific CR200X Measurement and Control Datalogger
- › Easy, turn-key installation
- › Standard, off-the-shelf, station configurations
- › Customizable options to pin-point station specifications
- › Complete station factory test prior to shipment maximizes field-readiness
- › Battery-backed system for continuous data collection
- › RS-485, TCP/IP, cellular, Wi-Fi, and other wireless communication options

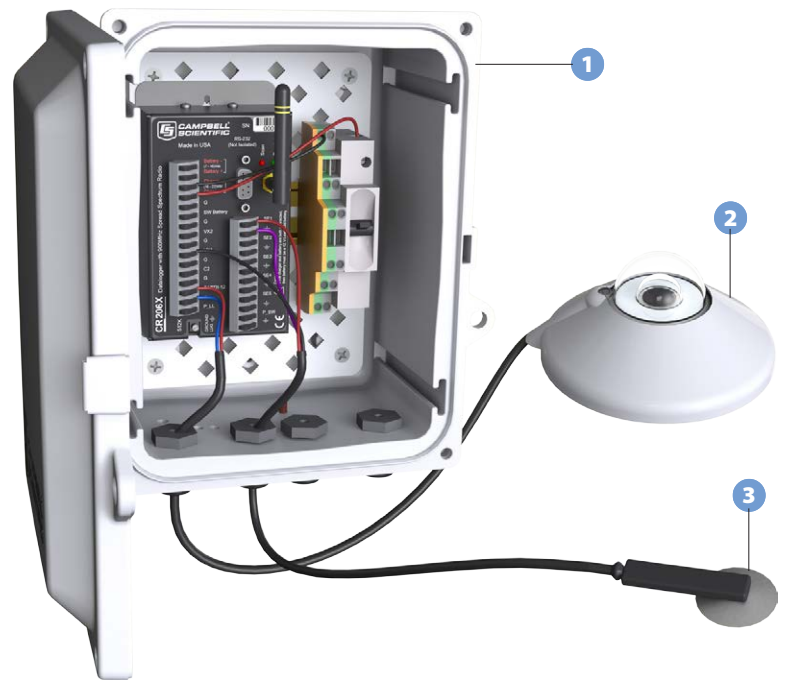
specs, questions, & quotes: 435.227.9030

www.campbellsci.com/solar200



Default Components

- 1 Datalogger enclosure
- 2 Irradiance sensor
- 3 Back of module temperature sensor(s)
- 4 Quick deploy Guide (not shown)
- 5 Operations and Maintenance Guide (not shown)



Ordering

The SOLAR200 includes many options that allow you to configure the station to your project's specifications, while retaining its turn-key functionality. Order the station using the following form:

SOLAR200/Irradiance/Back of Module Temperature/Communications/Power

Options

The following is a list of the available options:

Irradiance

- › Option SS: Secondary-Standard pyranometer
- › Option FC: First-Class pyranometer
- › Option SC: Second-Class pyranometer
- › Option Ref: Reference Cell

Back of Module Temperature

- › Option Q1: One 110PV-L50 sensors with 50 ft cable
- › Option Q2: Two 110PV-L50 sensors, each with a 50 ft cable
- › Option Q3: Three 110PV-L50 sensors, each with a 50 ft cable

Communication

- › Option MRTU: Modbus RS-485
- › Option MTCP: Modbus TCP/IP
- › Option Cell: Cellular
- › Option Wi-Fi: Wi-Fi
- › Option RF: Radio

Power Supply

- › Option AC-UL: AC power (UL Certification) with battery backup
- › Option AC: AC power (non-UL) with battery backup
- › Option Solar: Solar powered with battery backup
- › Option 24VDC: 24 Vdc with battery backup

Additional MET

- › Option AT: Air temperature sensor
- › Option WS: Wind speed sensor
- › Option PPT: Precipitation gage
- › Option GHI: Global Horizontal Irradiance sensor

Examples

Example 1

SOLAR200/Ref/Q1/M-TCP/AC-UL

Orders a SOLAR200 with a reference cell, one back of module temperature sensor, configured for Modbus TCP/IP data retrieval, and AC powered with UL certification.

Example 2

SOLAR200/FC/Q2/M-TCP/24VDC/AT/PPT

Orders a SOLAR200 with a first class pyranometer, two back of module temperature sensors, configured for Modbus TCP/IP, 24 Vdc powered, air temperature sensor, and precipitation gage.

