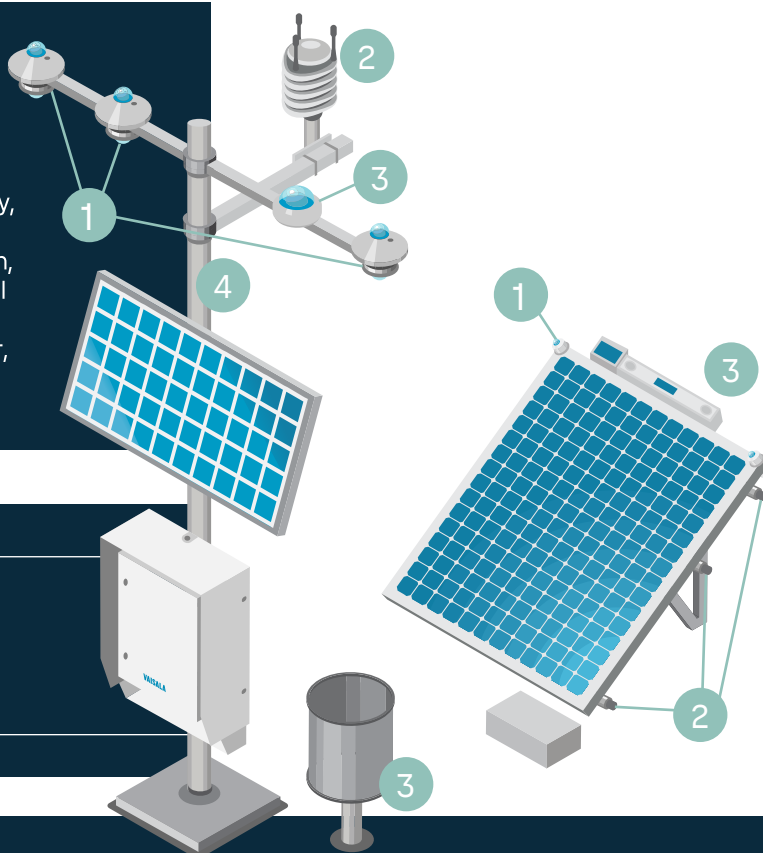


Automatic Weather Station AWS810 Solar Edition System components

AWS810 Solar Edition includes turnkey components for the most common solar power plant needs with different sensor configurations. Get exactly what your solar farm needs with options ranging from a single GHI or GTI measurement to fully-equipped solar weather stations.

Main components

1. Solar irradiance sensors: Global Horizontal Irradiance (GHI) and Plane Of Array (POA)
2. Meteorological sensors: Wind speed, wind direction, ambient and PV module temperature, relative humidity, atmospheric pressure
3. Optional components: Albedometer, diffuse irradiation, rear-side POA, soiling sensor, rain gauge, reference cell interface, solar power
4. Powering and mechanics: Solar power, mains power, mast and sensor arm



Data logger components

- Powering with back-up battery
- Data management unit with ethernet and optional 4G modem and optional fiber optic
- Local data storage
- Sensor interfaces

Connections and interfaces

PV plant SCADA interface

- Quality controlled sensor data
- Local network with ethernet cable (default), fiber optic (optional), or serial (RS-485, optional)
- Modbus TCP/IP (Modbus Sunspec interface)

Local and remote user interface connection

DMU801 Web UI

- Maintenance and configuration
- Software update and restart
- Observation visualization
- Local data storage

Optional network management

- Vaisala Network Manager NM10
- Monitoring, events, alerts
- Metadata management
- Remote restart and centralized software updates

