Campbell
SCIENTIFIC®

renewable energy

Introducing the SunSentry

This changes everything...

Campbell Scientific | Working to advance science and technology for the benefit of humankind

Short Lead Times. Better Prices. Still Flexible.

The pre-engineered SunSentry is the most versatile, standardized solar operational met station on the market. You get the lead times and cost savings of a mass-produced product with the flexibility you need for your project. Use the sensors of your choice or choose from one of our proven, pre-configured systems.

The Ultimate Partner: We Sell Execution.

Solar plants are complex construction projects with tight deadlines, budgets, and tolerances. To ensure things go smoothly, your assigned project manager ensures you get exactly what you need, exactly when you need it, built to standards that will outlive your plant.

Legendary Data and Build Quality

Those who know insist on using Campbell Scientific data loggers and systems as the gold standard for mission-critical applications. Mt. Everest, Death Valley, Antarctica. Our designs are refined from 50 years' experience of delighting tough clients and measuring environmental parameters in the roughest spots on earth.

Pile Mounted. Ladder Safe.

The SunSentry is designed as the easiest system on the market to install by attaching securely to a pile you drive near your inverters during construction. No cement pads are required, saving material and labor costs, while still being ladder safe for quick sensor maintenance.

Built to Survive Insurance-Claim Weather Events

In a race to the bottom, most company's masts and mounts have become so cheap and flimsy that they can't withstand extreme weather, like high wind. Why would you buy rugged, precise sensors to record catastrophic weather events if the station structure can collapse during the event?

Turn-Key Solutions

Each system comes ready to go with no programming needed. Just connect to your SCADA system and you're done.

Services from Concept to Operation

Campbell Scientific offers everything you need: hardware you install yourself, expert pre-construction consulting, full installation services, commissioning, long-term maintenance SLAs, and training for your own O&M staff.

Three-Year Warranty and World-Class Support

Trust our industry-leading, three-year warranty on all hardware and sensors. If something goes wrong, live tech support is a call away to help get you up and running immediately, or with technicians standing by who can come on site if necessary.

Specifications

NOTE	Additional specifications can be found with associated sensors and on the CR1000Xe web page.
IEC 61724-1:2021	Class A Compliant
IEC 61724-1:2017	Class A Compliant
ISO 9060:2018	Class A GHI, DHI, POA, RPOA, and albedo measurements available Class C RPOA, DHI, and albedo measurements available
IEC 61000-4-5 (Sensors)	See each sensor for more information.
Operating Temperature Range	-40 to +80°C (Sensor selection dependent)
Maximum Measurement Scan Rate	1 Hz
Maximum SCADA Polling Rate	1 Hz
Isolation Provisions	Isolated power supplies and signal isolators
Uninterruptable Power Supply	Standard options include 3–7 days of backup power.
Power Requirements	120 Vac for AC pull box or 10 to 30 Vdc input to main met enclosure
Modbus Over RS-485 Ports	Four communications port pairs, independent and isolated
SCADA Communications	Ethernet, DNP3, Modbus TCP
Additional Communications Protocols	CPI, PakBus, SDM, SDI-12, Modbus, TCP, DNP3, UDP, NTCIP, NMEA 0183, I2C, SPI, and others
Real-Time Clock Accuracy	±3 min. per year Configurable NTP correction (Optional GPS correction ±10 µs)
ADC	24-bit
Data Storage	4 MB SRAM + 72 MB flash (Storage expansion of up to 16 GB with removable microSD flash memory card)
Data Storage Ports	microSD

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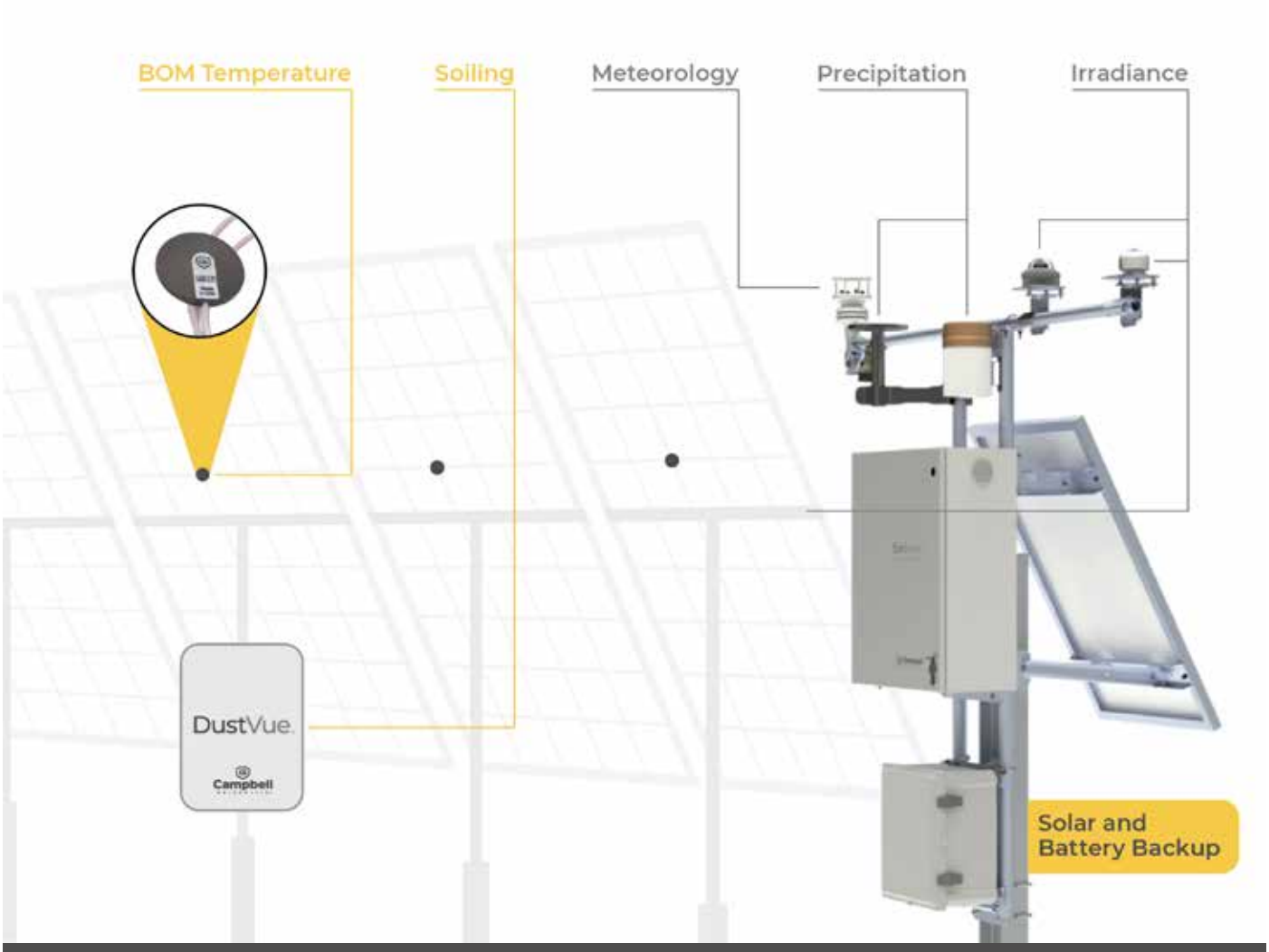
Scalable to double the industry requirements



Learn more about the how the SunSentry has changed the standards you should expect in operational solar met stations.

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