

SOLAR METERS and MONITORING

Affinity Automation

Solar PV systems of all sizes have grown in complexity. No longer just passive systems, they are now active grid-citizens. System owners and operators recognize this tectonic shift in system function and are seeking answers. Solar Services by Affinity Automation can provide customers with Powerful Knowledge for control and monitoring solutions, the company says.

www.affinityautomation.com



AlsoEnergy

AlsoEnergy provides specialized monitoring and control solutions for PV systems. Software includes expert PV performance analysis along with comprehensive tools to manage energy portfolio assets. Custom solutions are available for PV projects of all sizes and descriptions, including SCADA.



Customers may choose between two software products: PowerTrack and DECK Monitoring.

www.AlsoEnergy.com

www.DECKMonitoring.com

Continental Control Systems

Continental Control Systems manufactures high-accuracy, revenue-grade WattNode electric power meters for measuring AC production as well as for tenant space submetering. The company's meters and current transformers are designed to provide



key electrical system measurements including power (kW) and energy (kWh) through a variety of communication protocols including revenue-grade BACnet, Modbus, and LonWorks and as pulse output. www.ccontrols.com

Carlo Gavazzi

Carlo Gavazzi has launched two new Eos-Array Web modules—the VMU-C Web Server and the VMU-W Cellular Wireless Modem—that further complement the Eos-Array, which is dedicated to the management, monitoring, and control of systems for PV plants.



Full monitoring of solar plants is accomplished by the combination of the newly released VMU-C and VMU-W with the existing Eos-Array modules, the VMU-S, VMU-P, and VMU-O. The VMU-S string level monitoring module, the VMU-P environmental measurement module, and the VMU-O input/output modules split into independent modules. www.GavazziOnline.com

Draker Energy

Draker provides reliable monitoring solutions to enable owners and operators of commercial, industrial, and utility-scale PV systems to maximize the efficiency and profitability of their solar assets. Draker's monitoring and SCADA solutions combine proven field instrumentation with



an intuitive Web-based data management application and engineering and support services. www.drakerenergy.com

eGauge Systems

eGauge Systems is said to offer a unique approach to renewable energy monitoring by combining revenue grade accuracy with a real-time meter, data logger, and web server. The eGauge can monitor a home's electricity on up to 12 circuits and measures production and consumption loads simultaneously.

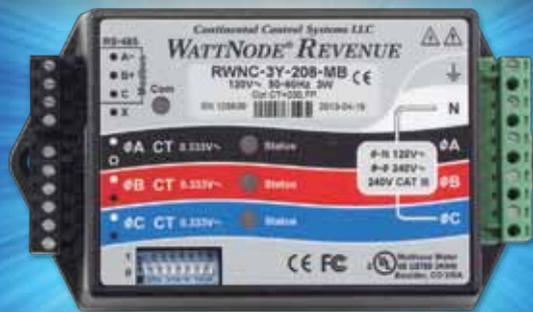
There are no ongoing monthly or support fees and there is no software to add. www.egauge.net



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THE SPEED OF LIGHT

Does your smart inverter need a revenue-grade power meter with a fast power (Opt FP) update rate?



WattNode Modbus with "Fast Power Option" updates the fast power reading every 200 msec. Allows for feed-in response time of 500msec.

Modbus®, BACnet®, LonWorks®, Pulse Output
Certified ANSI C12.1, PBI, UL, cUL

Continental Control Systems, LLC
1-888-WattNode (928-8663) • ccontrols.com

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Fronius

The Fronius Solar.web App Pro version is said to be the only solar monitoring app available on the Apple Watch, says the company.

Available to purchase for a small one-time fee in the AppStore, the Fronius Solar.web Pro App also allows mobile access to up-to-date historical data. Since several systems can be registered, users can view them all at any time using a single login. Functions of the Pro version include all the functionalities of the free version of the Fronius Solar.web App, as well as professional display and comparison of several PV systems; clear presentation of current values and archive; additional PV system information; and the only monitoring app available with the Apple Watch, real-time data available right on your wrist.

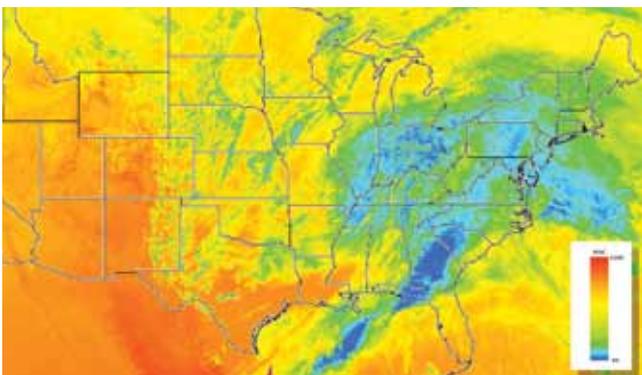
www.fronius.com



Locus Energy

Locus Energy offers Virtual Irradiance (VI), a satellite-derived irradiance engine that remotely identifies how much sunlight hits a geographic location at a one-square-kilometer resolution. When integrated with other data, such as the type of inverter, VI allows asset managers to determine if a system is performing up to expectations.

www.locusenergy.com



Measurlogic

Measurlogic has introduced its DTS SKT energy "NET" meter, specifically designed for the solar industry. It is a bi-directional, revenue grade, 2S socket meter with an embedded cell modem, using CDMA or GSM. The DTS SKT is perfect for solar leasing and performance-based incentive programs, in residential and commercial applications, says the company.

www.measurlogic.com



meteocontrol

meteocontrol North America offers independent engineering services as well as monitoring services based on innovative hardware and software solutions. Investors, operation managers, project developers, and operators of PV systems can benefit from these services and products, says the company. More than 37,500 systems with a performance over 10 GW are monitored by the company's safer'Sun and VCOM products.

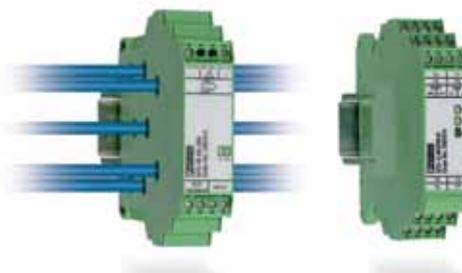
www.meteocontrol.com



Phoenix Contact

Phoenix Contact's new Solarcheck system can monitor string currents in large-scale DC photovoltaic installations. Solarcheck provides continuous measurement of string currents and voltages, allowing immediate detection of faults and associated production downtime. This enhances system availability and increases the revenue generated by the PV system, says the company.

www.phoenixcontact.com/solarcheck



Power Electronics

Power Electronics is a multinational company with its U.S. headquarters in Phoenix and specializes in the manufacturing of solar inverters, low and medium voltage variable speed drives, and soft starters. Power Electronics recently announced the introduction of FSDK recombiners and a PV Array transfer kit that makes HEC-UL central inverters and HEK Skid PV Stations achieve compliance with NEC2014's fuse servicing requirements and ground fault protection requirements.

www.power-electronics.com



Solar Data Systems

The Solar-Log & GE Meter is specially designed for the PV market and is engineered for simple installation, says the company. Fitting Solar-Log technology into the popular GE meter is said to provide customers with the best of both worlds: solar PV monitoring and revenue grade metering in a single and easy-to-install device.

www.solar-log.com



skytron energy

skytron energy has been developing integrated monitoring, control, and supervision systems for PV power plants since 1977. Now a leading supplier in the industry, specializing in utility-scale and commercial power plants, skytron has installed monitoring and control systems in more than 1,000 plants with a total capacity of 5 GW.

The company's core competencies are plant condition monitoring, dynamic power plant control, remote plant supervision, system migration of existing power plants, operation and maintenance, and PV asset management.

www.skytron-energy.com



SolarEdge

The SolarEdge cloud-based monitoring platform empowers maintenance teams to increase system uptime and decrease maintenance costs. SolarEdge module-level monitoring provides pinpoint, automatic alerts for immediate fault detection and remote troubleshooting, minimizing onsite visits, the company says. The platform delivers comprehensive fleet level analytics to track aggregated performance and issue tracking.

www.solaredge.com

