

Obvius PV Advance Integrated Data Acquisition System



Truly Flexible Data Acquisition & Monitoring Solutions for the PV Industry

Contact Info

1-866-204-8134 · sales@obvius.com

Visit us at www.obvius.com



Open Architecture

Device Protocols

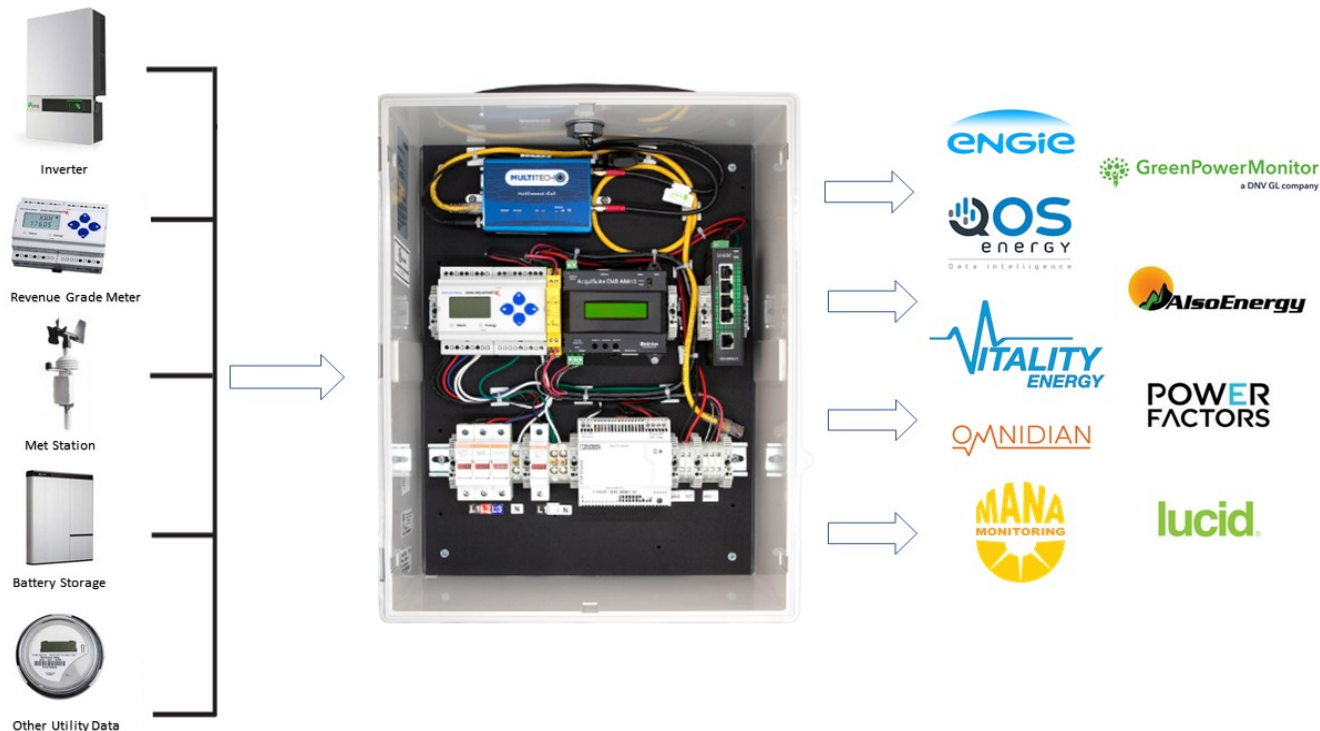
- ✓ Modbus RTU
- ✓ Modbus TCP
- ✓ BACnet IP
- ✓ SunSpec
- ✓ Hardware Agnostic

Data Acquisition

- ✓ Web Based GUI
- ✓ User Selectable Configuration
- ✓ 1-60 Minute Logging
- ✓ Cellular Data Upload
- ✓ LAN Data Upload

Data Usage

- ✓ User Controlled Data Uploads
- ✓ 3rd Party Monitoring Platforms
- ✓ Multiple Upload Channels
- ✓ BMS/BAS Systems
- ✓ Software Agnostic



Flexibly Optimize Your Critical Data

The PV Advance allows owners and operators the freedom to:

- Integrate any Modbus or BACnet IP device, regardless of make and model
- Choose the best monitoring platform to suit their needs
- Upload data to multiple destinations
- Develop their own monitoring dashboard
- Take control of their Critical Data, regardless of software provider
- Leverage a totally open platform to satisfy current and future energy needs

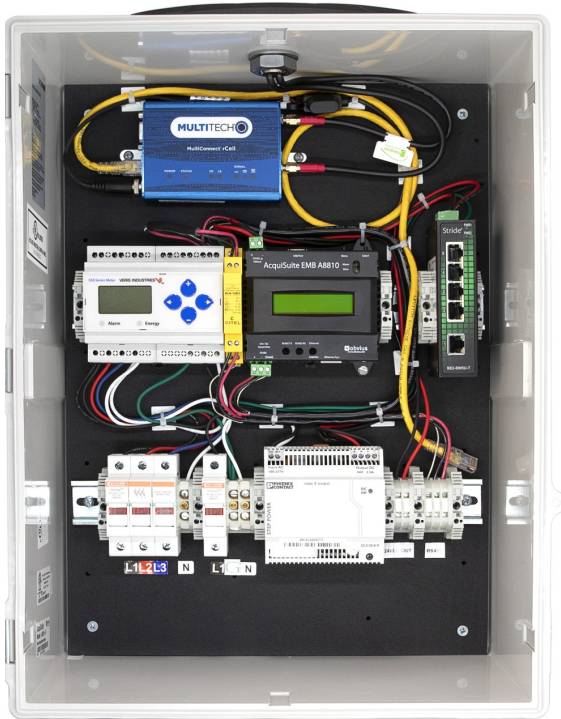
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Hardware Specifications



The PV Advance Contains

- A8810 AcquiSuite Data Acquisition Server
- MultiTech 4G Dual Carrier Cellular Router (Optional)
- Veris E51C2 Revenue Grade Bi-Directional Power Meter (Optional)
- Unmanaged Ethernet Switch
- Dual Band Cellular Antenna
- Wide Range DC Power Supply—110-277 VAC
- Voltage Termination
- RS485 Surge Suppression
- 24VDC Power Output

Specifications, Certifications, & Warranty

Supported Protocols	Modbus RTU—Up to 32 Devices
	Modbus TCP—Up to 100 Devices
	BACnet IP—Up to 100 Devices
	SunSpec Modbus—Up to 100 Devices
Size	20.05" (H) * 14.64" (W) * 7.85" (D)
Environmental	-30 to 70C, 95% RH, non-condensing
Warranty	5 year
Certifications	UL508A, NEMA 4X Enclosure, ETL, CE, SunSpec Certified

Complete data sheet available at obvius.com/Solutions/Solar_PV_Advance

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FAQ

Q. What inverter makes and models are compatible with the PV Advance?

A. The AcquiSuite is compatible with any inverter that utilizes Modbus protocol. Furthermore, the AcquiSuite is SunSpec Certified, which can simplify the integration process.

Q. What size site (KW / MW) can I monitor with the PV Advance?

A. Technically, there is no limit. When using the PV Advance, the number of devices being monitored (inverters, meters, met stations, battery storage systems, trackers, etc) is far more important. The PV Advance was designed for Commercial, Industrial, and Distributed Generation Projects. See below for recommended limits.

Q. How many devices can I connect to the PV Advance?

A. The PV Advance does not have a hard limit to the number of devices or data points that one can monitor. However, there are best practices to ensure optimized performance.

Recommended Device Limits

·32 devices connected over RS485 (Modbus RTU, SunSpec via Modbus RTU)

·100 devices connected over Ethernet (Modbus TCP/IP, BACnet IP, SunSpec via Ethernet)

Q. What monitoring software platforms does the PV Advance use?

A. Because of its flexibility, a user could theoretically use any software platform they want with the AcquiSuite. Data from the AcquiSuite is uploaded as a .CSV format, and therefore open for a software developer to integrate. We do have recommended industry partners for 3rd party monitoring and are happy to make introductions. Featured Partners can be found here at obvius.com/Partners/Software

Q. Can I develop my own monitoring software to use with the AcquiSuite?

A. Yes, many of our partners have done this and we can support your efforts by providing technical documentation and sample scripts.

Q. What are my logging frequency and upload options?

A. The PV Advance is configurable to log between 1 and 60 minute intervals. Also, there is a speed logging module which allows users to log data at up to 1 second intervals. Upload options are also customizable within the General User Interface.

Q. Is any sort of certification or training needed to use the PV Advance?

A. Any electrical meter should always be installed and serviced by a qualified electrician. The A8810 AcquiSuite does not require any specialization or certification to operate. The user interface was designed to be intuitive, and support is available from Obvius and our Integration Partners. Specific site needs vary, but basic AcquiSuite commissioning can be done by anyone with general understanding of energy data acquisition and networking.

Q. What is the cost of the PV Advance and how can I purchase?

A. Pricing depends on meter and modem options, however because we are an original equipment manufacturer, we are able to offer our panels at very competitive prices. Obvius can also provide bundled solutions with Met Stations, Cellular Data Plans, and Current Transducers. Purchasing can be done directly or through one of our many industry partners.

Please contact Obvius for pricing and purchasing specific to your project needs.

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