

AcquiSuite – EMB Data Acquisition Server



ACQUISUITE – EMB A8810

Obvius' AcquiSuite is an intelligent, flexible data acquisition server allowing users to collect energy data from meters and environmental sensors. Designed to connect to IP-based applications such as enterprise energy management, demand response and smart grid programs, the AcquiSuite server lets you connect thousands of energy points, benchmark energy usage and reduce energy costs.

EMBEDDED (OEM) SOLUTION

The compact EMB footprint and industrial temperature range (-30 to 70C) makes this a perfect solution for embedded applications. Reduce development time and speed up integration by collecting and distributing energy information directly from your equipment.

DATA COLLECTION

The AcquiSuite collects and logs data from connected (wired or wireless) devices based on user selected intervals. Data from downstream devices is time stamped and stored locally in non-volatile memory until the next scheduled upload or manual download. Using an Ethernet (LAN) connection you can push or pull data via HTTP, XML, FTP or any custom protocol utilizing our AcquiSuite Module to build your own application, including integrated cellular communication options.

INSTALLATION & FEATURES

No software is required. Easily access information through ANY web browser. There are several additional features including alarming, SNMP Traps, network configuration, wireless diagnostics, USB, security provisions and backlit LCD. Our integrated meter driver library is designed to speed up installation and lower integration costs through "plug-and-play" connectivity.

COMPATIBILITY

The AcquiSuite is compatible with nearly any front-end software platform allowing customers to use a variety of reporting tools; whether it's a local server or an enterprise wide reporting suite. Obvius offers a free utility for automated .CSV file downloads or an affordable hosted solution for \$195.00 annually (unlimited data storage).

PARTNERS

Obvius' outstanding integration and software partners supplement our products and services to ensure you receive the very best energy monitoring solution.

APPLICATIONS

- Measurement and verification (M&V)
- Reduce energy costs
- Access energy information from local or remote sites
- Benchmark building energy usage
- View "real time" performance data
- Track energy use and peak demand for Demand Response programs
- Monitor performance of critical systems (lighting, HVAC, PDUs, inverters, etc.)
- Alarm notification for data points above or below target levels (including SNMP Traps)
- Monitor renewable energy performance and production
- Push or pull meter data to energy dashboards, kiosks and software applications
- LEED / Energy Star certification

ABOUT OBVIUS

Obvius manufactures data acquisition and wireless connectivity products specifically for energy management. We deliver cost-effective, reliable hardware designed to speed up installation. Our products are based on an open architecture allowing our customers to collect and log energy information from virtually any meter or sensor. The ability to support multiple communication options provides remote access to all your energy information. Founded in 2003, Obvius is located in Tualatin, Oregon. We serve a global clientele and continue to drive innovation by simplifying data collection.

SOLUTIONS

- Data Acquisition
- Wireless Communication
- Meters & Sensors
- Custom Packaged Solutions
- Integration & Software Partners

AcquiSuite A8810

Obvius helps customers collect and distribute energy information. Users can begin with one best-of-breed product that satisfies a requirement, or incorporate several products and services for a complete energy management solution.

Specifications

| | |
|--------------------|---|
| Processor | ARM9 embedded CPU |
| Operating System | Linux 2.6 |
| Memory | 32 MB RAM |
| Flash ROM | 16 MB NOR Flash (expandable with USB memory device) |
| Interval Recording | 1 to 60 minutes, user selectable (default 15 minutes) |
| LEDs | Ethernet, Modbus TX/RX, power, alarm |
| Console | 2 x 16 LCD character, two push buttons |

Power

| | |
|--------------|---|
| Power Supply | 24VDC, 500mA <small>*This unit is to be sourced by a Class 2 power supply with the following output: 24VDC, 500mA min not to exceed 8A</small> |
| Isolation | RJ45 Ethernet and RS-485 port are isolated to 1500VDC from the main board. (Power and USB non-isolated) |

Communication

| | |
|-----------|--|
| Protocols | Modbus/RTU, Modbus/TCP, TCP/IP, PPP, HTTP/HTML, FTP, NTP, XML, SNMP-Trap |
| LAN | RJ45 10/100 Ethernet, full half duplex, auto polarity |
| USB | USB expansion port |

Inputs

| | |
|-------------|--|
| Serial Port | RS-485 Modbus, supports up to 32 external devices (expandable) |
|-------------|--|

Physical

| | |
|--------|--|
| Weight | 0.42lbs (0.19kg) |
| Size | 4" x 4.25" x 2" (102mm x 108mm x 51mm) |

Environment

| | |
|---------------|------------------------------------|
| North America | -30 to 70C, 95% RH, non-condensing |
|---------------|------------------------------------|

Codes and Standards

FCC CFR 47 Part 15, Class A, EN 61000, EN 61326, CE, UL61010 Recognized

Additional Notes

NEMA enclosures available upon request

Cellular modems available upon request

Manufactured in the USA



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