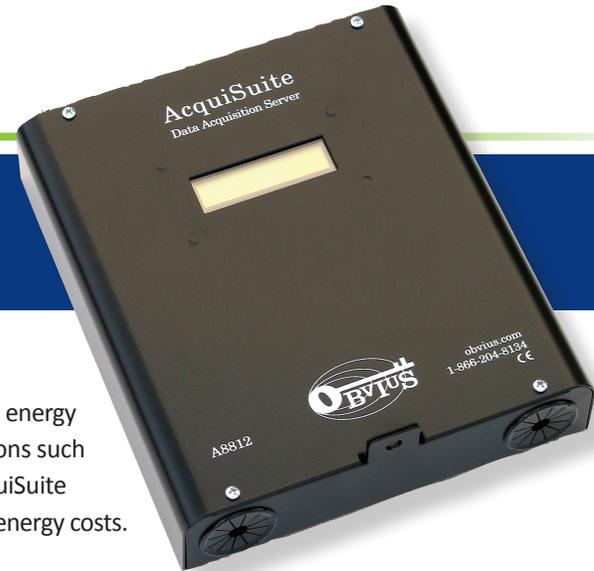# obvius

*Energy Information Made Obvius*

# AcquiSuite
## Data Acquisition Server

## ACQUISUITE A8812-1 AND A8812-GSM

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.

## 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 integrated modem or 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. The AcquiSuite has eight integrated flex I/O inputs. Each field selectable input can measure resistive, analog (4/20mA / 0-10V) and standard pulse / KYZ pulse output devices. This simplifies installation for basic projects monitoring electric, gas or water meters. There are several additional features including alarming, SNMP Traps, network configuration, wireless diagnostics, security provisions, alarm relays 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

- Utility submetering (electricity, gas, water, etc.)
- 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
- Create load profiles for energy purchases
- 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

## HEADQUARTERS

Tualatin, Oregon

## CONTACT US

sales@obvius.com

# AcquiSuite A8812

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, ARM7 IO co-processor |
| 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 |
| LEDs | 8x input, 4 modem activity, Modbus TX/RX, power, system, IO status |
| Console | 2 x 16 LCD character, two push buttons |

## Power

| | |
|---|---|
| North America | 110-120VAC, 60Hz, primary |
| CE/Europe | 100-240VAC, 50-60Hz, primary (interchangeable plug adapters optional) |
| Power Supply | 24VDC, 1A, class 2 wall brick transformer included |

## 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 |
| Modem | V.34 bis, 33,600 bps (A8812-1 only) |
| Cellular | GSM/GPRS Cellular (A8812-GSM only) |
| USB | USB expansion port |

## Inputs

| | |
|---|---|
| Serial Port | RS-485 Modbus, supports up to 32 external devices (expandable) |
| I/O | 8x Flex IO inputs with user selectable modes: voltage, current, resistance, pulse and status |

## Outputs

| | |
|---|---|
| Relays | 2x, dry contact 30 VDC, 150 mA max |

## Physical

| | |
|---|---|
| Weight | 5lbs (2.3kg) |
| Size | 8" x 9.25" x 2.5" (203mm x 235mm x 64mm) |

## Environment

| | |
|---|---|
| North America | 0 to 50C, 0-90% RH, non-condensing |
| CE/Europe | 5 to 40C, 0-90% RH, non-condensing |

## Codes and Standards

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

## Additional Notes

NEMA enclosures available upon request

Manufactured in the USA

CE