

AcquiLite—EMB A7810



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Obvius' AcquiLite is an intelligent, flexible data acquisition server allowing users to collect energy data from pulse output meters. Designed to connect to IP-based applications such as enterprise energy management, demand response and smart grid programs.

EMBEDDED (OEM) SOLUTION

The compact AcquiLite – 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 AcquiLite collects and logs data from connected pulse output or Modbus TCP devices based on user selected intervals. Data from downstream devices are time stamped and stored in non-volatile memory. This interval data is stored locally 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, 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. Ask about our free commissioning software, Obvius Configuration Console (OCC).

COMPATIBILITY

The AcquiLite 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

- Create load profiles for energy purchases
- Utility submetering (electricity, gas, water, etc.)
- Measurement and verification (M&V)
- 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 utility meters for rebate program compliance
- Alarm notification for data points above or below target levels (including SNMP Traps)
- 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

Distributed By

Meter, Valve & Control
877-566-3837

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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	ARM 9 embedded CPU
Operating System	Linux 2.6
Memory	32 MB RAM
Flash ROM	16 MB NOR Flash
Interval Recording	1 to 60 minutes, user selectable (default 15 minutes)
LEDs	Ethernet, Pulse (x4), power, alarm
Console	2 x 16 LCD character, two push buttons

Power

Power Supply	24VDC, 500mA, Required (not included) *This unit is to be sourced by a Class 2 power supply with the following output: 24VDC, 500mA min not to exceed 8A. <i>Note: Only 350mA is required if the USB port is not used.</i>
Isolation	RJ45 Ethernet is isolated to 1500VDC from the main board. (Power input, Pulse inputs and USB non-isolated)

Communication

Protocols	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 (cellular modem options available)

Inputs

I/O	4x Pulse inputs, dry contact, standard or KYZ, closure threshold 100Ω to 2.5KΩ user selectable
Pulse Rate	Pulse input maximum rate 10Hz, minimum pulse width 50ms
Storage	Pulse count values stored in non-volatile memory

Physical

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

Environment

North America	-30 to 70C, 0-95% RH, non-condensing
Altitude	2000M max
Pollution	Degree 2

Codes and Standards

Emissions	FCC CFR 47 Part 15, Class A, EN 61000, EN61326
Safety	UL61010 Recognized, EN 61010

Additional Notes

NEMA enclosures available upon request
Cellular modems available upon request
Manufactured in the USA

