A7810 ACQUILITE™ & A8810 ACQUISUITE™

Flexible Data Servers for Embedded Applications



The A7810 AcquiLite™ and A8810 AcquiSuite™ data acquisition server for embedded applications allows users to collect energy data from meters and environmental sensors and send it via Modbus

communication protocol (wired or wireless using the H8830) to IP-based applications. No software is required. Operation is plug-and-play, and information can be accessed using any web browser. The A7810 supports four pulse inputs, while the A8810 supports Modbus serial input.

The compact housing and industrial temperature range make the A7810 and A8810 ideal for embedded applications. Reduce development time and speed up integration by collecting and distributing energy data directly from your equipment.

SPECIFICATIONS

24 Vdc, 500 mA*
RJ45 Ethernet isolated to 1500 Vdc from main board (power and pulse inputs not isolated) RJ45 Ethernet and RS-485 port isolated to 1500 Vdc from main board (power and USB not isolated)
ARM 9 embedded CPU
Linux 2.6
16 MB NOR Flash
32 MB RAM
Ethernet, pulse (x4), power, alarm Ethernet, Modbus TX/RX, power, alarm
2 x 16 LCD character, two push buttons
1 to 60 minutes, user selectable (default 15 minutes)
4 inputs, dry contact, standard or KYZ, closure threshold 100 Ω to 2.5 k Ω user selectable; max. rate 10 Hz; min. width 50 msec
RS-485 Modbus, supports up to 32 external devices (expandable)

Track data in real time

Provides the right information for trending, planning, and identifying waste

Alarm notification

For data points above or below target levels...quick notification for optimal performance maintenance

Industrial temp. range

Industrial temperature range (-30 to 70 °C), perfect for embedded applications...speeds up development and integration of energy data

Communications

Compatible with multiple communication protocols... push or pull data to energy dashboards and software applications for easy system integration

Easy installation

DIN rail mounting

APPLICATIONS

- Measurement and verification (M&V)
- · Reduce energy costs
- Access energy information from local and remote sites
- Benchmark building energy usage
- Demand response
- Renewable energy

COMMUNICATION

Protocols A7810 A8810	Modbus/TCP, TCP/IP, PPP, HTTP/HTML, FTP, NTP, XML, SNMP-Trap Modbus/RTU, Modbus/TCP, TCP/IP, PPP, HTTP/HTML, FTP, NTP, XML, SNMP-Trap
LAN	RJ45 10/100 Ethernet, auto polarity

ENVIRONMENTAL

Operating Temp Range	-30 to 70 °C (-22 to 158 °F)
Operating Humidity Range	0 to 95% RH non-condensing; indoor use only

WARRANTY

Limited Warranty	2 years

AGENCY APPROVALS

A7810	FCC CFR 47 Part 15, Class A; EN 61000; EN 61326;
	UL61010 recognized; EN 61010
A8810	CE; UKCA (UK); FCC Part 15, Class A; EN 61000; EN
	61326; UL61010 recognized







8810 only A8810 or



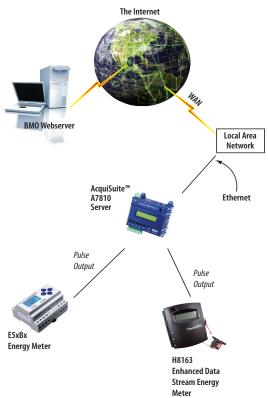
500 mA min. not to exceed 8 A.

10.354.8556 | +1 503.598.4564 | sales@veris.com | intl@veris.com | veris.com | H00001804.H 1021

^{*}This unit is to be sourced by a Class 2 power supply with the following output: 24 Vdc, 500 mA min. not to exceed 8 A.

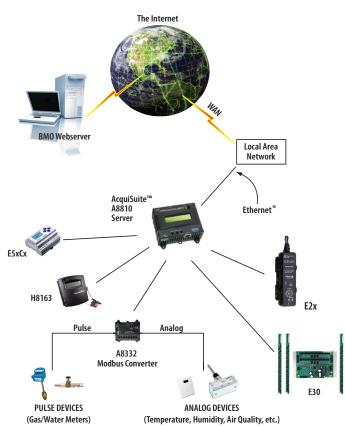
A7810

Application Example



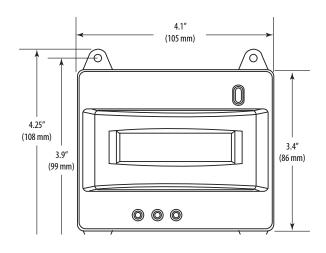
A8810

Application Example



A7810 & A8810

Dimensional Drawing



THE ACQUISUITE SYSTEM ALLOWS		
Internet Display of Data Using the BMO Website	View performance data in an easy graphical format. Store, display, and download historical data in a secure SQL database. Design custom views of data from one or more buildings or systems.	
Security and Flexibility	Store data on board in non-volatile memory. Protect information in the event of a power failure. Time-stamp all interval data with an on-board real-time clock.	
Compatibility with Existing Systems	Use the I/O module to connect to existing sensors and meters. Use TCP/IP protocols to interface with spreadsheets, databases, text files, etc. (A8810 only).	

ORDERING INFORMATION

MODEL	DESCRIPTION
A7810	AcquiLite EMB data acquisition server, pulse input
A8810	AcquiSuite EMB data acquisition server, Modbus serial input