

# Data Acquisition Server

## Flexible Data Server For Embedded Applications



A8810



### 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

### FEATURES

- Tracks data in real time...providing 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
- Compatible with multiple communication protocols...push or pull data to energy dashboards and software applications for easy system integration
- Industrial temperature range (-30° to 70°C), perfect for embedded applications... speeds up development and integration of energy data
- DIN rail mounting...easy installation

### DESCRIPTION

The **A8810 AcquiSuite™** data acquisition server allows users to collect energy data from meters and environmental sensors and send it via Modbus communication protocol (wired or wireless) to IP-based applications. No software is required. Operation is plug-and-play, and information can be accessed using any web browser. The compact housing and industrial temperature range make the A8810 compatible with embedded applications. Reduce development time and speed up integration by collecting and distributing energy data directly from your equipment.

NETWORK INTEGRATION

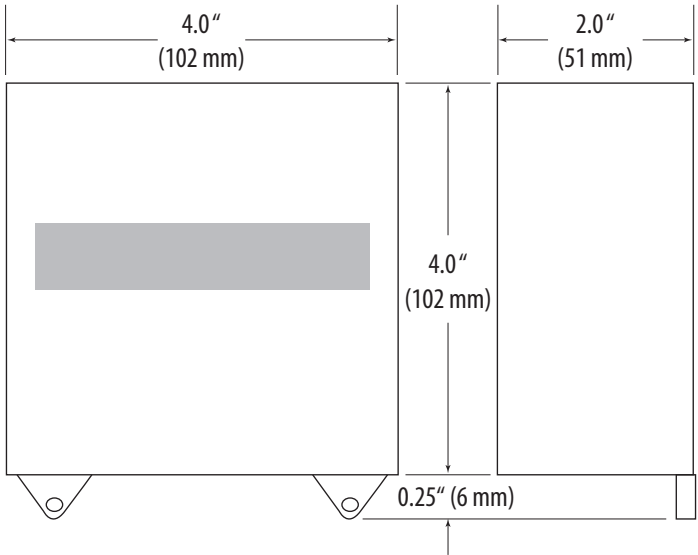
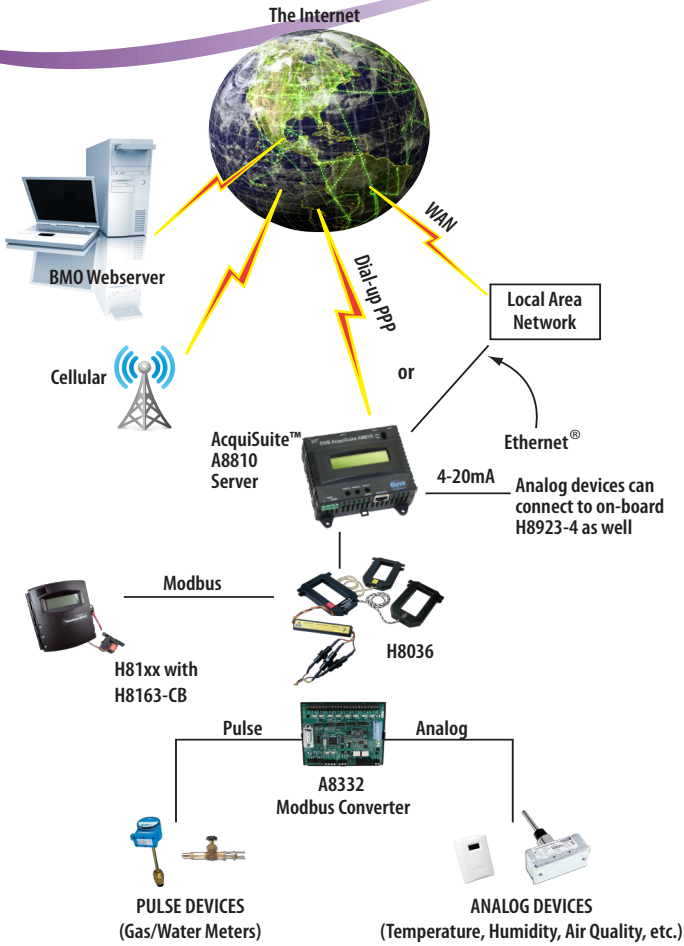
### SPECIFICATIONS

<b>Input Power</b>	24VDC, 500mA*
<b>Isolation</b>	RJ45 Ethernet and RS-485 port isolated to 1500VDC from main board (power and USB not isolated)
<b>Main Processor</b>	ARM 9 embedded CPU
<b>Operating System</b>	Linux 2.6
<b>Flash ROM</b>	16MB NOR Flash (expandable with USB memory device)
<b>Memory</b>	32MB RAM
<b>LEDs</b>	Ethernet, Modbus TX/RX, power, alarm
<b>Console</b>	2 x 16 LCD character, two push buttons
<b>Serial Port Input</b>	RS-485 Modbus, supports up to 32 external devices (expandable)
<b>Communication:</b>	
<b>Protocols</b>	Modbus/RTU, Modbus/TCP, TCP/IP, PPP, HTTP/HTML, FTP, NTP, XML, SNMP-Trap
<b>LAN</b>	RJ45 10/100 Ethernet, full half duplex, auto polarity
<b>USB</b>	USB expansion port
<b>Environmental:</b>	
<b>Operating Temperature Range</b>	-30° to 70°C (-22° to 158°F)
<b>Operating Humidity Range</b>	0-95% RH noncondensing
<b>Approvals</b>	CE; FCC Part 15, Class A; EN 61000; EN 61326; UL61010 recognized

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

APPLICATION/WIRING EXAMPLES

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 nonvolatile 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.

ORDERING INFORMATION



MODEL	DESCRIPTION
A8810	AcquiSuite EMB data acquisition server

NETWORK INTEGRATION