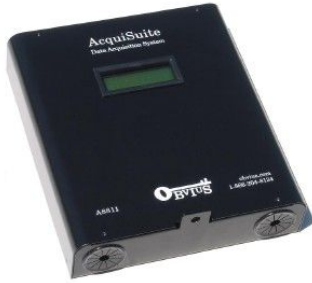


# A8811-1 AcquiSuite - Data Acquisition Server



## DESCRIPTION

The AcquiSuite™ data acquisition system is the perfect solution for:

- Aggregation of energy data from multiple sites
- Benchmarking building operations performance
- Verification of energy savings and utility costs
- Cost allocation to departments or tenants

The system combines the flexibility of Ethernet LAN, WAN or Internet communication paths with the lowest total installed cost for logging building data such as:

- Electrical, gas and water usage and costs
- Indoor and outdoor temperatures
- Pressure, humidity, CO2
- Industry standard pulse or analog inputs

AcquiSuite™ brings “plug and play” capability to the data acquisition market, dramatically reducing the time and training required to put a typical building on line. In most applications, the installation can be done by the building engineer or contractor in less than 2 hours. The system automatically detects and configures Modbus devices in just seconds reducing installation time and costs.

After installation, data from the connected devices is time stamped and stored in nonvolatile memory on user selected intervals. This interval data is stored at the local site until the next scheduled upload to the SQL database server. Using the built-in modem or Ethernet port, data is sent via either the network or phone lines to the Building Manager Online™ server.

At the BMO site, the newly gathered data is combined with historical information that is available to authorized users from anywhere in the world using standard browsers and the Internet. No additional software is required to develop customized views of operational and energy data from one or more buildings.

## Applications

- Aggregation of energy and operational information from remote sites
- Gathering “near real-time” performance data
- Benchmarking building operations
- Developing load profiles for energy purchases
- Monitoring performance of building systems (e.g., chillers, boilers, fans)

## Easy installation saves time and money

- Simple “plug and play” connectivity means that the system can be installed and configured in minutes
- Industry standard analog and pulse inputs allow the user to gather a wide range of building information
- AcquiSuite hardware and software is designed to provide data in flexible, industry standard formats for databases, spreadsheets, etc.
- Using recognized sensors for metering and building parameters means one-step configuration
- Convenient LCD display provides ease of installation and troubleshooting without the need for a laptop or special software
- Integrated web server provides setup and configuration using any industry standard web browser (i.e., Netscape™ or Internet Explorer™)

## Internet display of key building parameters

- Buildingmanageronline.com™ allows authorized users to see building performance data in an easy to use graphical format
- BMO site provides storage, display and downloads of historical data in a secure SQL database
- Users can design their own custom views of data from one or more buildings or systems

## Secure data and flexible communications

- All data is stored at the site in nonvolatile memory, insuring protection of valuable information in the event of power loss
- On board real-time clock provides accurate time stamps for all interval data
- Wide range of communication options and formats via the Ethernet port, dialup modem.
- Optional GSM/GPRS wireless modem for Cellular communications.
- Password protection provides security for confidential information

## Connection to existing systems

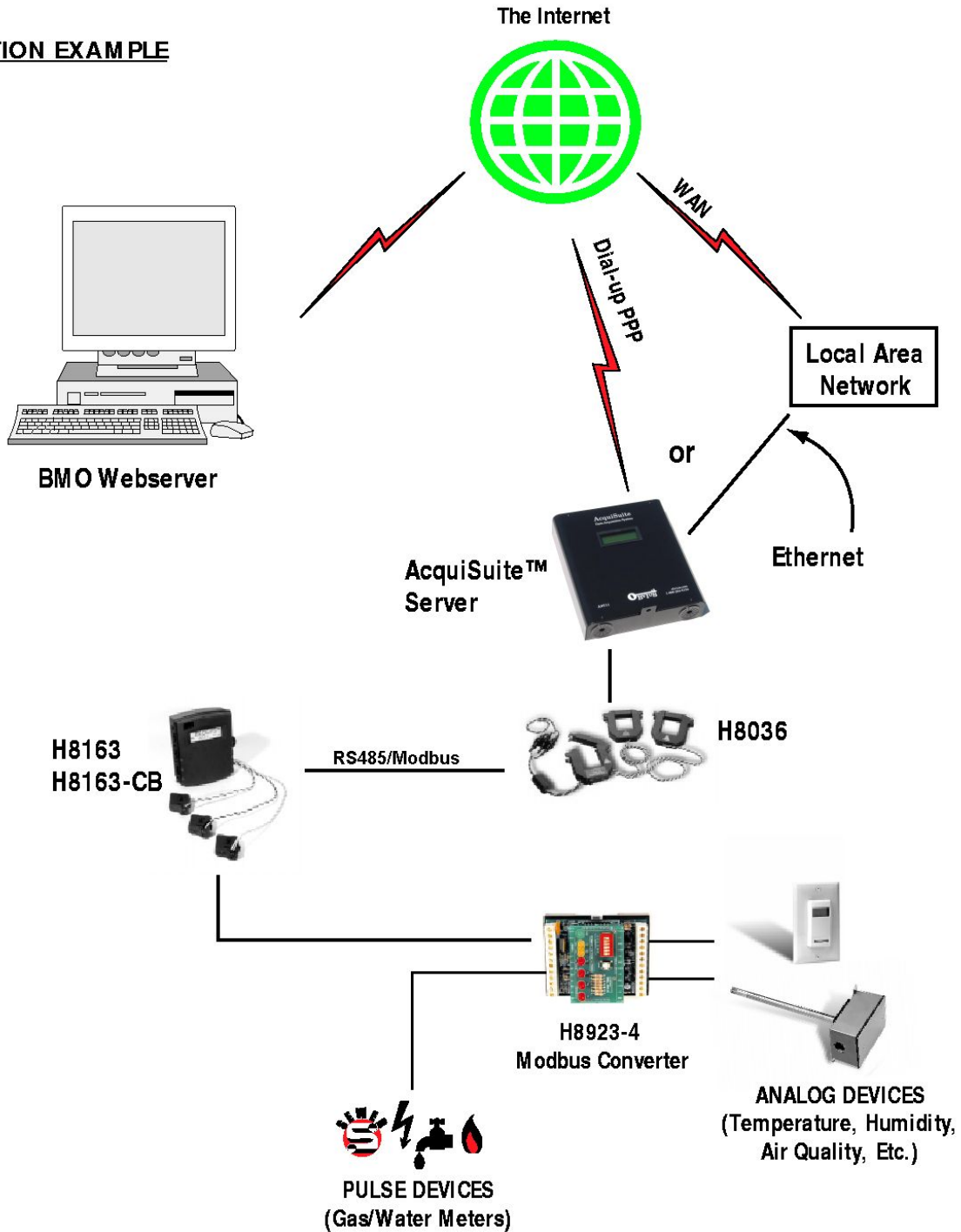
- AcquiSuite provides the flexibility to connect to existing sensors and meters using the I/O module
- TCP/IP protocols permit easy interface of collected data to spreadsheets, databases, text files, etc.

## Ordering Information

**A8811-1:** AcquiSuite with 4 analog inputs, 4 pulse inputs, RS485/Modbus, Ethernet, dialup modem.

**A8811-GSM:** AcquiSuite with 4 analog inputs, 4 pulse inputs, RS485/Modbus, Ethernet, GSM/GPRS wireless cellular modem.

**APPLICATION EXAMPLE**



**SPECIFICATIONS**

Processor	386 embedded CPU Linux
Memory	16 MB DiskOnChip (optional larger flash available) 8 MB EDO RAM
LED	4 pulse input, 4 modem activity, Modbus TX/RX, power, system, io status
Console	2 x 16 LCD (passive), two pushbuttons
Communications	10base-T Ethernet, half duplex, Modem V.34 bis, 33,600 bps (GSM/GPRS Optional)
Protocols	Modbus/RTU, Modbus/TCP, TCP/IP, PPP, HTTP/HTML, FTP, NTP, XML
Power Requirement	110-120VAC, Power Supply Included, 24VDC, Class2 transformer
Interval Recording	User selectable 1-60 minutes. Default 15 minute interval
Serial Port	RS-485 Modbus, supports up to 32 external devices
Analog Inputs	4x 0-10V/4-20mA (min/max/average/instantaneous data)
Pulse Inputs	4x dry contact (consumption/rate/runtime/status)
Utility sync input	1x dry contact.
Size	8" x 9.25" x 2.5"