H8822 ACQUISUITE™

Modbus Protocols, Data Logging and Server Capabilities

H8822

Plug and play

Install and configure in minutes

LCD display

Easy installation and troubleshooting

Flexible data formats

Hardware and software provide data in flexible, industry-standard formats for databases, spreadsheets, etc.

Integrated web server

Provides setup and configuration using any standard web browser

The H8822 AcquiSuite™ data acquisition system is the perfect do-it-yourself solution for your energy logging needs. This server combines the flexibility of Ethernet LAN, WAN, or internet communication paths with a low installed cost. It is an ideal device for recording electrical, natural gas, water, and other building energy usages.

The AcquiSuite has eight flexible I/O options. After installation, data from a connected device is time-stamped and stored in nonvolatile memory at user-selected intervals until the next scheduled upload to the SQL database server. Using the built-in phone modem, Ethernet port, or cellular modem, the AcquiSuite sends data to the Building Manager Online™ server or to other third party software providers (cellular modem is only available on the H8822GSM model).

APPLICATIONS

- Aggregating energy and operational information from remote sites
- Gathering "near real-time" performance data
- Developing load profiles for energy purchases
- Measurement and verification

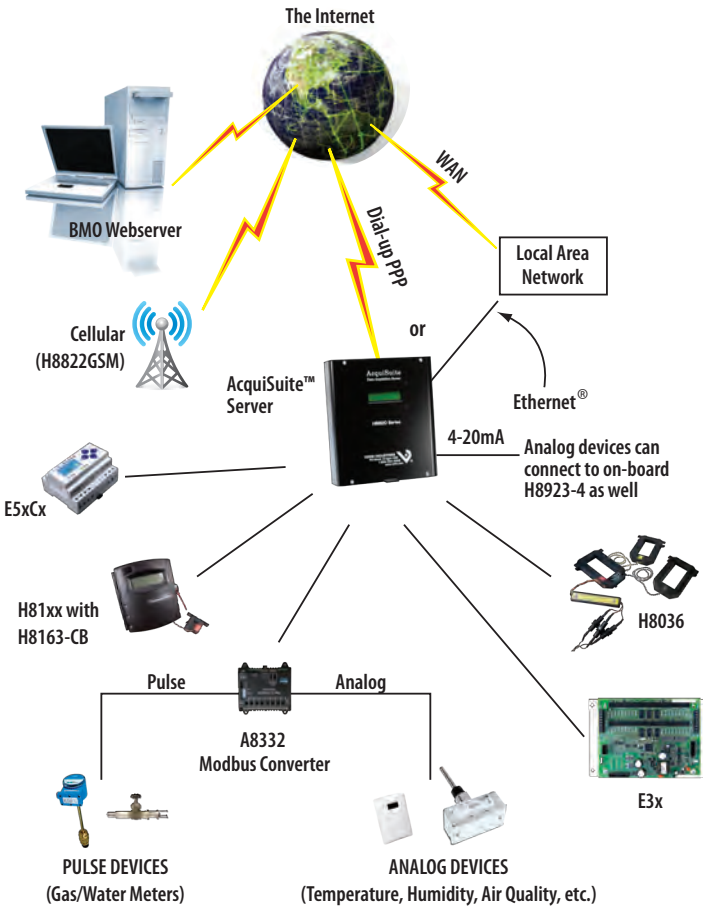
SPECIFICATIONS

Input Power	120 to 240 Vac 50/60Hz transformer to 24 Vdc, included
Operating System	Linux
Flash ROM	16 MB NOR Flash (expandable with USB memory device)
Memory	32 MB RAM
LEDs	8x pulse input, 4 modem activity, Modbus TX/RX, power status
LCD	2 x 16 LCD character, two buttons
LAN	10/100, auto-crossover detection
Protocols	Modbus/RTU, Modbus/TCP, TCP/IP, PPP, HTTP/HTML, FTP, SNMP, SMTP, XML
Serial Port	RS-485 Modbus
Interval Recording	User selectable 1 to 60 minutes. Default 15-minute interval.
Inputs	8x, user selectable - 0-10V - Min/Max/Ave/Instantaneous; 4 to 20 mA- Min/Max/Ave/Instantaneous; Pulse - Consumption, Rate; Resistance - Min/Max/Ave/Instantaneous; Runtime - Runtime, Status
Outputs	2x, Dry contact 30VDC, 150mA max.
PROCESSORS	
Main Processor	ARM 9
I/O Co-Processor	ARM 7

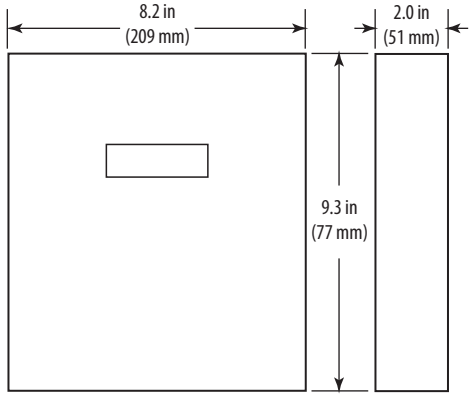
MODEMS	
Phone	V.34 bis, 33,600 bps (H8822)
Cellular	GSM/GPRS Class 10, 85 kbps (H8822GSM)
WARRANTY	
Limited Warranty	2 years
AGENCY APPROVALS	
Agency Approvals	FCC Part 15, Class A

Note: Indoor use only.

APPLICATION EXAMPLE



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 spread-sheets, databases, text files, etc.

ORDERING INFORMATION

MODEL	DESCRIPTION
H8822	AcquiSuite Demand Response System: 8 Flexible I/O Inputs
H8822GSM	AcquiSuite Demand Response System; GSM/GPRS Cellular Modem