Data Acquisition Systems

Modbus Protocols, Datalogging and Server Capabilities

H8822 *H8803*

2 Year Warranty

APPLICATIONS

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

FEATURES

Easy installation saves time and money

- Simple plug-and-play connectivity...install and configure in minutes
- Hardware and software provide data in flexible, industry-standard formats for databases, spreadsheets, etc.
- LCD display for easy installation and troubleshooting
- Integrated web server provides setup and configuration using any standard web browser (e.g. Safari™ or Internet Explorer™)

DESCRIPTION

The **H8803 AcquiLite™** and **H8822 AcquiSuite™** data acquisition systems are the perfect do-it-yourself solutions for your energy logging needs. These servers combine the flexibility of Ethernet LAN, WAN, or internet communication paths with the lowest total installed cost on the market. They are the ideal devices for recording electrical, natural gas, water, and other building energy usages.

The AcquiLite has four pulse inputs, and the AcquiSuite has eight flexible I/O inputs. 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 AcquiLite/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).

SPECIFICATIONS (H8803)

Input Power	120-240V 50/60Hz transformer included, 9VDC, Class 2
Processor	R2000 - 8-bit embedded CPU, 22MHz
Memory	512kB flash, 512kB SRAM
LEDs	4x pulse input, 4 modem activity, Modem activity power, alive, Ethernet
Console	2 x 16 LCD, two pushbuttons
Communications	33,600 bps modem, 10base-T half duplex Ethernet
Protocols	TCP/IP, PPP, HTTP/HTML, FTP
Pulse Inputs	4x dry contact (consumption rate/min/max)
Utility Sync Input	1x dry contact

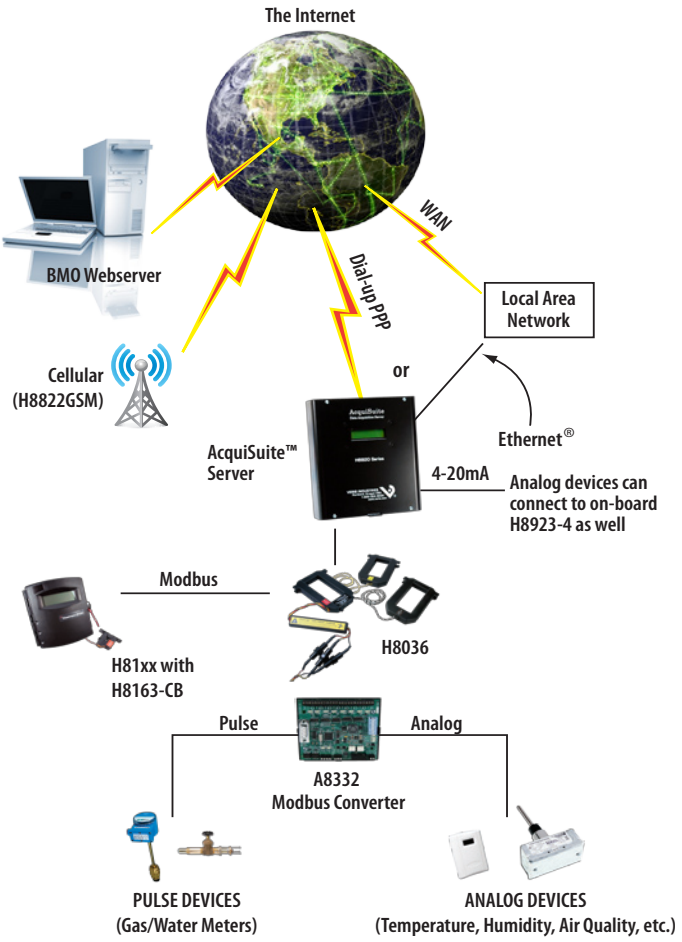
SPECIFICATIONS (H8822)

Input Power	120-240V 50/60Hz transformer to 24VDC, included
Processors:	
Main Processor	ARM 9
I/O Co-Processor	ARM 7
Operating System	Linux
Flash ROM	16MB NOR Flash (expandable with USB memory device)
Memory	32MB 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
Modem:	
Phone	V.34 bis, 33,600 bps (H8822)
Cellular	GSM/GPRS Class 10, 85 kbps (H8822GSM)
Protocols	Modbus/RTU, Modbus/TCP, TCP/IP, PPP, HTTP/HTML, FTP, SNMP, SMTP, XML
Serial Port	RS-485 Modbus
Interval Recording	User selectable 1-60 minutes. Default 15 minute interval
Inputs	8x, user selectable: 0-10V - Min/Max/Ave/Instantaneous; 4-20mA- Min/Max/Ave/Instantaneous; Pulse - Consumption, Rate; Resistance - Min/Max/Ave/Instantaneous; Runtime - Runtime, Status
Approvals	CE; FCC Part 15, Class A
USB Port	USB memory expansion port
Outputs	2x, Dry contact 30VDC, 150mA max.

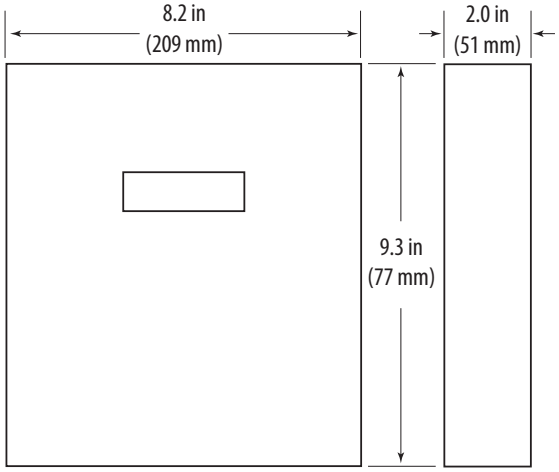
APPLICATION/WIRING EXAMPLES

H8803 AcquiLite™

H8822 AcquiSuite™



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
H8803	AcquiLite Data Acquisition System: 4 Pulse Inputs
H8822	AcquiSuite Demand Response System: 8 Flexible I/O Inputs
H8822GSM	AcquiSuite Demand Response System; GSM/GPRS cellular modem

NETWORK INTEGRATION