## H8822 ACQUISUITE™

Modbus Protocols, Data Logging and Server Capabilities



H8822

The H8822 AcquiSuite™ data acquisition system is the perfect do-ityourself 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).

# Plug and play

Install and configure in minutes

## Flexible data formats

Hardware and software provide data in flexible, industrystandard formats for databases, spreadsheets, etc.

## LCD display

Easy installation and troubleshooting

## Integrated web server

Provides setup and configuration using any standard web browser

### **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**

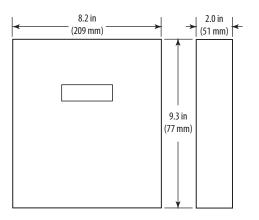
Phone	V.34 bis, 33,600 bps (H8822)	
Cellular	GSM/GPRS Class 10, 85 kbps (H8822GSM)	
WARRANTY		
Limited Warranty	2 years	
AGENCY APPROVALS		
Agency Approvals	FCC Part 15, Class A	

Note: Indoor use only.

### **APPLICATION EXAMPLE**

### The Internet **BMO** Webserver Local Area Network Cellular (((?)) (H8822GSM) AcquiSuite™ **Ethernet**® Server 4-20mA Analog devices can connect to on-board H8923-4 as well H81xx with H8163-CB Pulse Analog A8332 **Modbus Converter** E3x **PULSE DEVICES** ANALOG DEVICES (Gas/Water Meters) (Temperature, Humidity, Air Quality, etc.)

### **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.	

### **ORDERING INFORMATION**

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