A8811-GSM AcquiSuite Cellular Data Acquisition Server

DESCRIPTION
The AcquiSuite™ GSM data acquisition server brings easy to use cell network based solutions 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 A8811-1 GSM combines the low cost plug and play convenience of the A8811-1 with the flexibility of cellular communications. This combination allows building owners and managers to gather vital interval data form submeters without the need for LAN or phone line connections.

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. The **ModHopper**® wireless transceiver allows even greater savings by providing wireless communications up to 1500 ft from the meters and sensors to the AcquiSuite, eliminating the need for costly wiring runs.

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 GPRS modem, data is sent via the Web to the Building Manager Online™ server.

Applications
- Tenant submetering
- Cost allocation
- Measurement & verification of energy savings
- Data center branch circuit monitoring
- Monitoring performance of building systems (e.g., chillers, boilers, fans)

Easy installation saves time and money

- Simple plug and play configuration provides cost effective installation to almost any Modbus meter
- 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.
- Cellular connection makes installation simple, without the need for connecting to local networks or phone lines
- 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™)
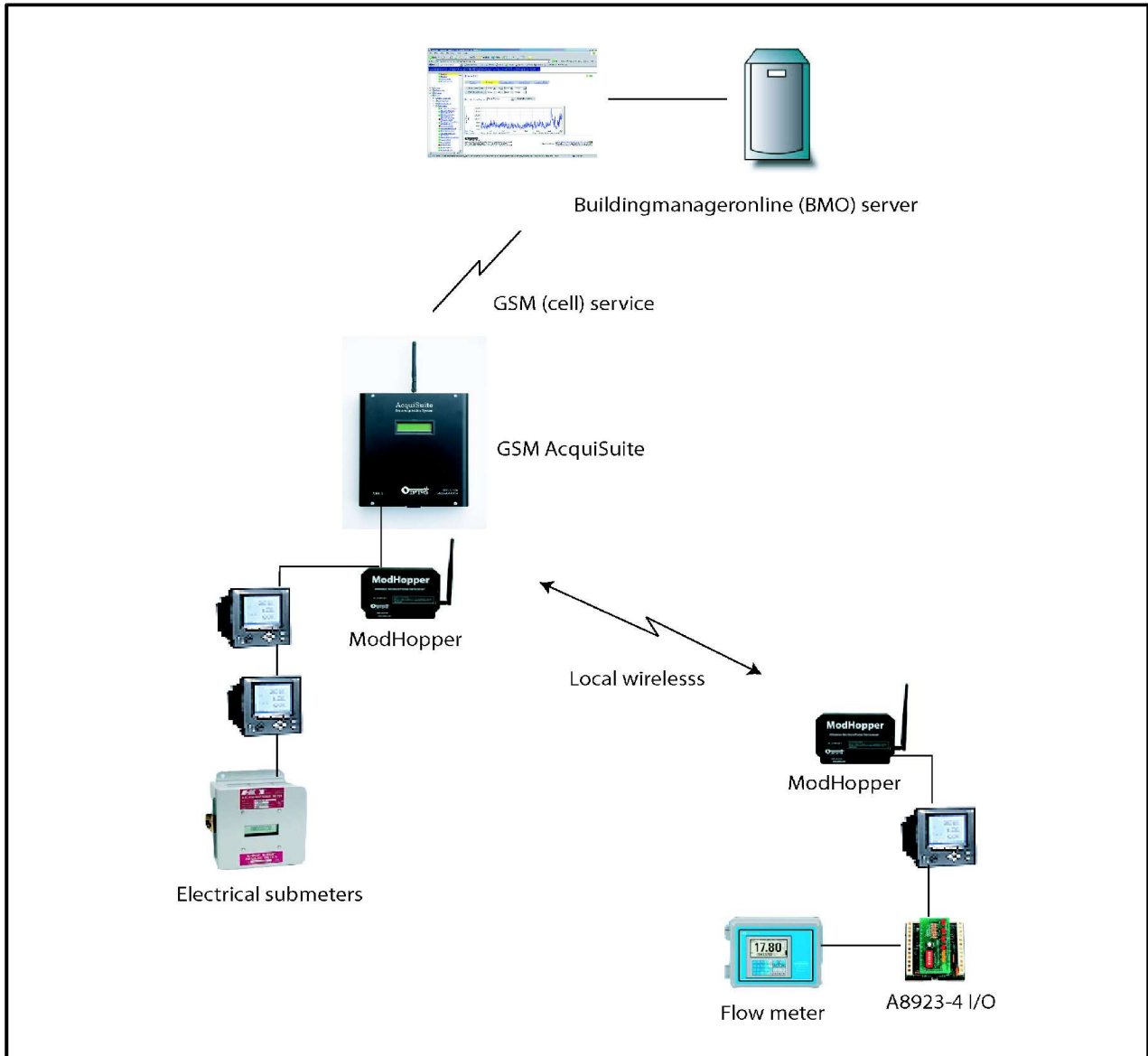
Internet display of key building parameters

- 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 be notified of alarm conditions in any or all monitored points

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 modem and/or Ethernet port
- 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.

Buildingmanageronline (BMO) server

GSM (cell) service

GSM AcquiSuite

ModHopper

Local wirelesss

ModHopper

Electrical submeters

Flow meter   A8923-4 I/O

SPECIFICATIONS

Processor	386 embedded CPU
Operating System	Linux
Flash ROM	16 MB DiskOnChip (144MB max)
Memory	8 MB EDO RAM
LED	4x pulse input, 4 modem activity, Modbus TX/RX, power status
LCD	2 x 16 LCD (passive)
LAN	10base-T Ethernet
Modem	GSM/GPRS Class10, 85 kbps
Protocols	Modbus/RTU, Modbus/TCP, TCP/IP, PPP, HTTP/HTML, FTP
Power Supply	Built-in
Serial Port	RS-485 Modbus
Power Requirement	110-120VAC
Interval recording	User selectable 1-60 minutes. Default 15 minute interval.
Analog Inputs	4x 0-10V/4-20mA (min/max/average/instantaneous data)
Pulse Inputs	4x Dry contact (consumption/rate/runtime/status)