

A7801-1 AcquiLite Data Acquisition Server



DESCRIPTION

The AcquiLite™ data acquisition server is the perfect “do-it-yourself” solution for:

- Web-enabling new and existing electricity, gas and water meters
- Verification of energy savings and utility costs
- Cost allocation to departments or tenants

The server combines the flexibility of Ethernet LAN, WAN or modem communications with the lowest total installed cost for logging building data such as:

- Electrical usage and costs
- Natural gas usage and costs
- Water usage and costs
- Combine KWH and KVARH pulse inputs to calculate power factor

AcquiLite™ 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 building engineer or contractor can do the installation in less than 2 hours. The server scales to accept any pulse input.

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 (or to other third party software providers).

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

- Web-enabling of energy information from new and existing meters from local or remote sites
- Submetering tenants or departments
- Verification of utility usage and charges
- Developing load profiles for energy purchases
- Cost allocation of energy usage

Easy installation saves time and money

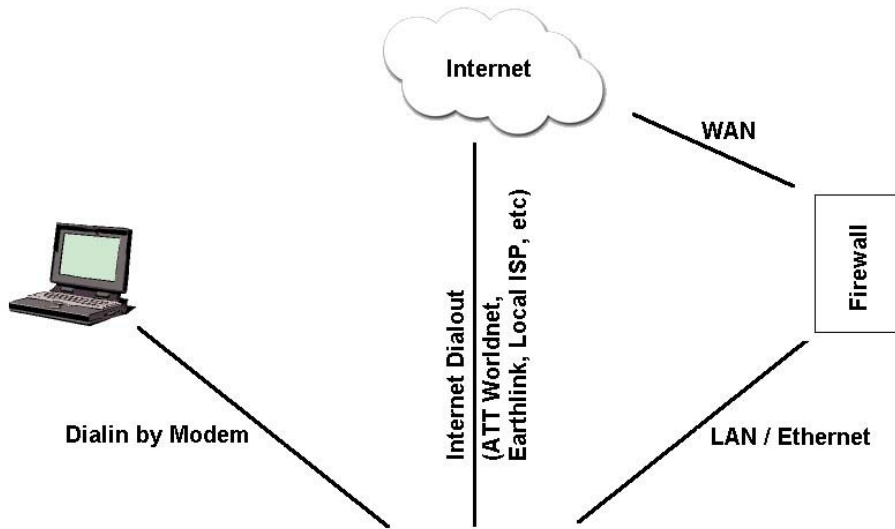
- Simple “plug and play” connectivity means that the system can be installed and configured in minutes
- Industry standard pulse inputs allow the user to gather a wide range of energy information
- AcquiLite hardware and software is designed to provide data in flexible, industry standard formats for databases, spreadsheets, etc.
- Uploads of “near real-time” information on a local LAN provide immediate response to problems
- 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

Secure data and flexible communications

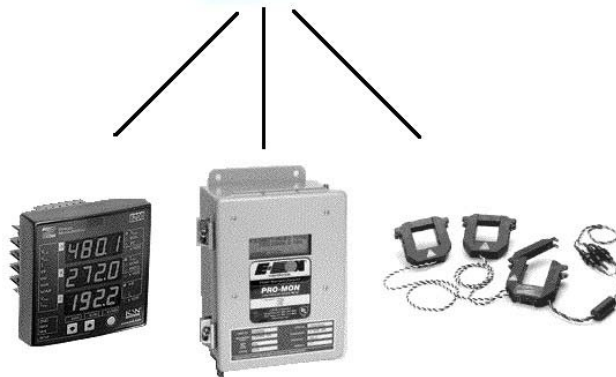
- All data is stored at the site in nonvolatile memory , insuring protection of data in case of power loss
- Wide range of communication options via the modem and Ethernet ports
- Password protection provides security for confidential information
- AcquiLite provides the flexibility to connect to existing meters
- TCP/IP protocols permit easy interface of collected data to spreadsheets, databases, text files, etc.



AcquiLite A7801

Data Acquisition Server

4 pulse inputs
 Ethernet
 Modem 33.6kbps
 LCD Display and configuration



Pulse Output Meters
 (Power, gas, water, BTU, etc)

Specifications:

Processor	R2000 - 8bit embedded cpu, 22Mhz.
Memory	512K flash, 512k sram.
LED	4x pulse input, 4x 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, NTP
Power Requirement	110-120VAC Transformer included, 9VDC, Class2 transformer
Pulse Inputs	4x dry contact (consumption/rate/min/max)
Utility sync input	1x dry contact.
Size	8" x 9.25" x 2.5"

