

DESCRIPTION

Badger Meter introduces the Model 3700 Data Acquisition Server, providing high performance and low cost for:

- Demand response programs.
- Benchmarking building operations performance.
- Verification of energy savings and utility costs.
- Cost allocation to departments or tenants.
- Internet based supervisory control outputs.

The system combines the flexibility of choosing LAN, modem or cellular communication paths for logging building data such as:

- Industry standard pulse or analog inputs.
- Electrical, gas and water usage and costs.
- Indoor and outdoor temperatures.
- Pressure, humidity, CO₂.

Model 3700 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 installation can be completed by the building engineer or contractor in less than 2 hours. The system automatically detects and configures Modbus devices in just seconds reducing installation time and costs.

APPLICATIONS

- Demand response program control and reporting.
- Cost allocation to tenants and third parties.
- Measurement and verification of energy savings.
- Data center branch circuit monitoring.
- Monitoring performance of building systems (i.e., chillers, boilers, fans).

EASY INSTALLATION SAVES TIME AND MONEY

- Simple "plug and play" connectivity to standard Modbus meters minimizes installation time and costs.
- "Flex" I/O inputs provide easy connections for analog, pulse, and resistance sensors.
- Model 3700 hardware and software is designed to provide data in flexible, industry standard formats for databases, spreadsheets, etc.
- Model 3700 provides onboard plug in for Model 345WT to allow wireless RS 485 communications.
- Integrated relay outputs allow supervisory control from any location for load shedding or local generation.
- 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. Please contact Badger Meter for more information.
- 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.
- Open protocols provide connectivity to any energy management or building automation software.

FLEXIBLE COMMUNICATIONS AND WIRELESS CONNECTIVITY

- All data is stored at the site in nonvolatile memory, insuring protection of valuable information in the event of power loss.
- Optional Model 345WT for wireless RS 485 communications.
- Model 3700 provides two communication options: Local Area Network (LAN) or phone line.



SPECIFICATIONS

Processor	Main processor: ARM 9 ; I/O co-processor: ARM 7
Operating System	Linux 2.6
Flash ROM	16 MB NOR Flash (expandable with USB memory device)
Memory	32 MB RAM
LED	8x pulse input, 4 modem activity, Modbus TX/RX, power status
Console	2 x 16 LCD character, two buttons
LAN	10/100, Auto crossover detection
Modem (phone)	V.34 bis, 33,600 bps
Protocols	Modbus/RTU, Modbus/TCP, TCP/IP, PPP, HTTP/HTML, FTP,SNMP, SMTP, XML
Power Supply	24 VDC, included
Serial Port	RS-485 Modbus
Approvals	CE; FCC Part 15, Class A
USB Port	USB memory expansion port
Power Requirement	110-120VAC
Interval recording	User selectable 1-60 minutes. Default 15 minute interval.
Outputs	2x, Dry contact 30 VDC, 150 mA max
Inputs	8x, user selectable: <ul style="list-style-type: none">• 0-10 V - Min/Max/Ave/Instantaneous• 4-20 mA - Min/Max/Ave/Instantaneous• Pulse - Consumption, Rate• Resistance - Min/Max/Ave/Instantaneous• Runtime - Runtime, Status

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