

BATTERY MONITORING SYSTEMS

A watt saved is equal to 3 watts generated

BattMon – Battery Monitoring System

- BattMon is combination of software and hardware
- BattMon measures voltage, temperature, load current and discharge current of Battery Bank.
- BattMon generates live alerts on the status of each battery in a battery bank
- String volt, trend, history of batteries
- Alerts on mobile phone
- State of health is done by computation of total energy stored in battery and energy delivered to load.

Input:

- the most advanced AC & DC sensing technologies with signal conditioning electronic circuits
- The intelligent transducer measures cell voltage and terminal temperature
- Monitors cell voltage, charge/discharge current
- It also provides cell voltage and temperature data during battery discharge. This data is passed via a proprietary serial communication Bus to a PC

Output

- Graphical user interface
- Graphs/trends, visual alerts on screen, history data, export to excel
- Data can be queried, extracted, from the database for data mining, trend analysis, with applications for battery life, status, charging and loading.
- Determine min/max parameter values, charging/discharging time of bank

TYPE OF CONNECTIONS

- STANDARD
- WIRELESS
- TELECOM

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System Components

- Sensors to measure voltage, current and temperature.
- Direct link between sensors and processing units.
- Processing unit also has data logging facility
- Serial connectivity to PC/Server logging and reporting.

Objectives of BattMon

- To Plan Maintenance activities of Batteries
- To enhances and improves power system reliability and maintenance practices
- To improve reliability of back up systems
- BMS helps to set the parameters, collect data and generate alarms and generate reports

Advantages:

- On-line measurement capability for stationary batteries
 - No system down time required: saves technician time and lowers risk
- Reduces potential battery failures
 - Identify problem batteries before they fail
 - Eliminate service interruption and catastrophic losses
- Diagnose and trend battery state-of-health
 - Extending system battery life
 - Develop battery replacement strategy
 - Manage & reduce maintenance costs
 - Minimize crisis management costs
- Data protection
- SQL Tools can be tried on client machine, filtering and flushing of data.
- All asset information at one place to enhances and improves overall power system reliability and maintenance practices
- Improve reliability of back up systems
- Alerts can be sent over e-mail or SMS text messages.
- Minimize crisis management costs

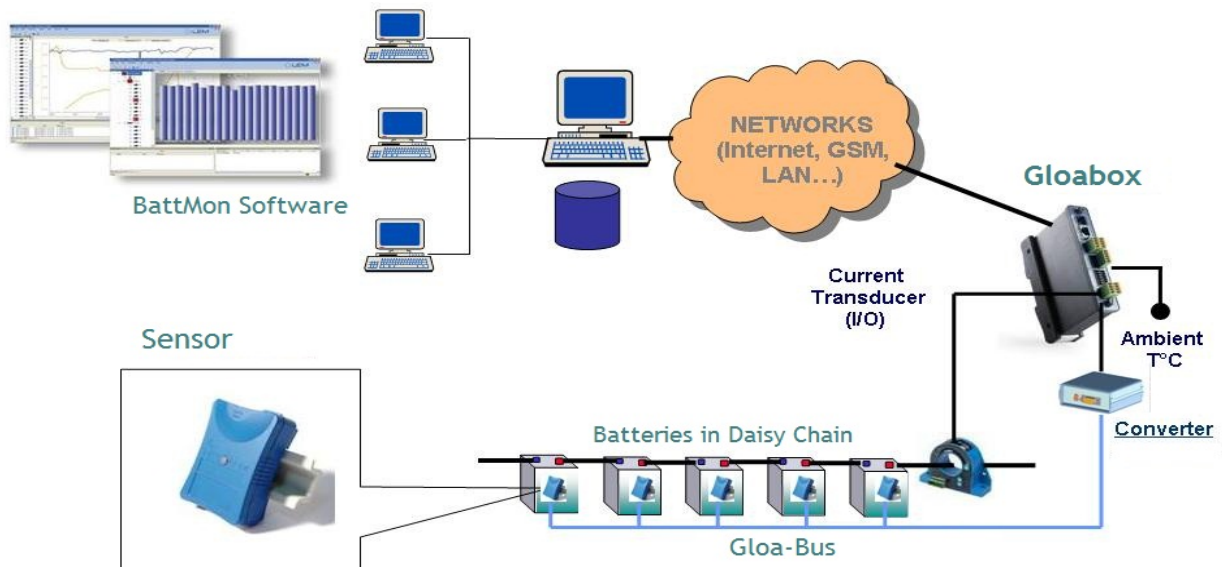
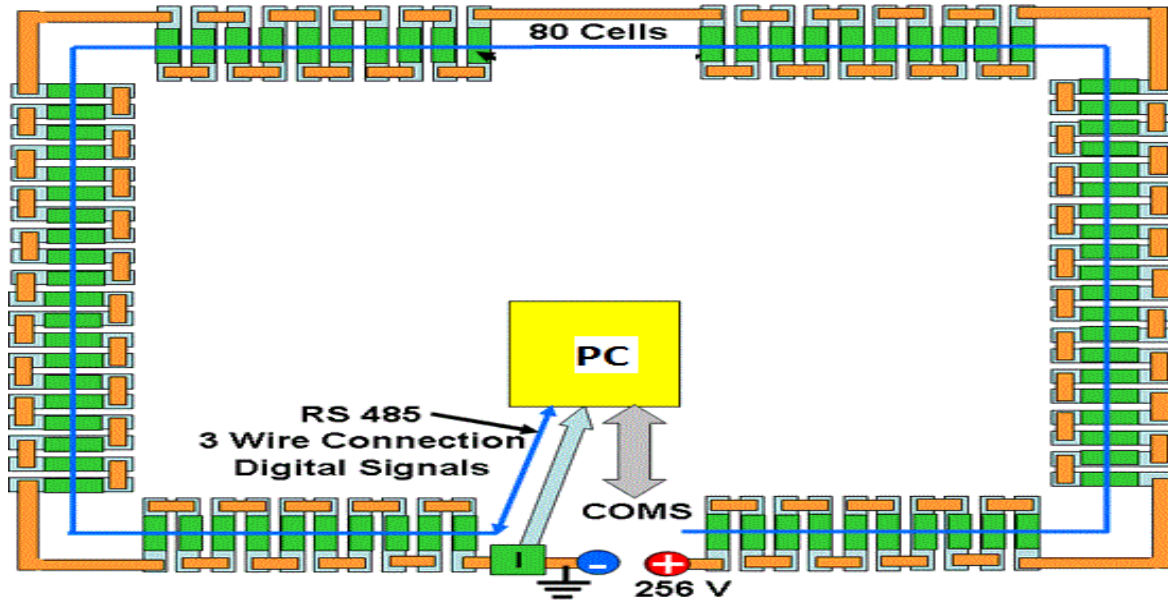
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Battery Connections



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