

Battery diagnostic systems (BDS) continuously monitor all critical battery parameters, verify the integrity of the connected battery system, and alarm on any out-of-tolerance condition. Testing includes proactive, internal DC cell resistance measurements at programmed intervals recommended by IEEE standards. By tracking increases in internal cell resistance, the BDS predicts if the battery system will perform during a power outage.

The BDS-256XL Battery Diagnostic System

The BDS-256XL is a modular system that can monitor virtually any UPS battery configuration. The BDS-256XL consists of a Controller, Data Collection Module, and Resistance Test Module.

Interface to the BDS-256XL is done using the Alber Battery Monitor Data Manager (BMDM) software. The Battery Monitor Report Generator program creates reports from collected data.

The BDS-256 System Features

- Monitor up to 256 cells/modules per string. 2V cells, NiCd cells, 4V, 6V, 8V and 12V modules are supported.
- Overall voltage, cell/module voltages, current, and temperature are continuously scanned and compared with programmed alarm levels.
- Internal DC resistance tests are performed and compared to programmed alarm levels. All data is saved.
- Overall voltage, cell/module voltages, current, and temperature readings are saved.
- Discharges are detected and data saved. All parameters are scanned every four seconds during a discharge.
- Discharges can be viewed in real time locally or remotely during the discharge event or later replayed in real or accelerated time.
- Alarm events trigger an indicator, dedicated contact closure, programmed contact closure, and dial-out notification. All battery parameters can be set to page, fax, print, and/or sound an alarm.
- Communication via network, modem, serial or USB. Optional TCP/IP interface for network or Internet communication. Industry standard MODBUS protocol interfaces to third party, building management systems.
- No on-site computer required.

- Modular design easily expands to monitor an unlimited number of strings. When used with the MPM-100, virtually all battery configurations can be managed with one software package.
- Digital input/output option permits monitoring up to 16 inputs and up to 8 user-programmed outputs.
- Monitor Load Control option enables the monitor system to control an Alber Continuous Load Unit (CLU) for performing battery capacity testing.
- Automatically poll and retrieve data.
- Reports can be e-mailed and then viewed using the free downloadable Alber Archive Reader.
- Faulty cells detected during an unplanned discharge event can be reported in real time.
- All components are standard 19" rack mount.