



## New Features for ABMS-8 Software, version 1.1

January 17, 2010

- **Control of up to 8 RF80-Ks per PC with expanded functionality and accuracy**

This increases the number of RF80-K Charger/Analyzers with AB3000 Controllers from 4 to 8. Multiple PCs may be networked for larger installations.

- **Now supports Reflex Charge Mode**

Now the system supports all possible charge modes including constant current, 2-step constant current, constant potential and Reflex (A and B type).

- **Dynamic Battery Icon displays the battery servicing task at each station**

Battery processing state is displayed dynamically including charge, discharge, paused, wait, serial connection status and job status.

- **Audible AB3000 and PC Alerts**

New audible alerts from AB3000 and PC alert operator to warning conditions, end of task events and prompts for action such as cell watering 30 minutes prior to end of top charge.

- **Battery amp hours are calculated and displayed in real time**

During processing, amp-hours are automatically and continuously displayed on the system monitor.

- **Built-In Calibration Utility**

Annual calibration of each AB3000 may be performed using a built-in calibration utility.

- **Improved lead acid battery processing**

Requires no hood or harness and includes voltage or time termination plus active temperature sensing.

- **Simple plug-and-play serial interface**

User friendly serial system set-up between AB3000 and RF80-K units. All components and interface cables included. Serial checksum detection assures integrity of serial recipe communications.

- **Recipe Pause and Resume**

During battery processing, the recipe can be paused, then resumed at a later time. The RF80-K can be turned off, and turned back on prior to re-starting.

- **Battery Hook-up Warning**

Each time a recipe is selected from the overview tab, the software will display "Warning, do not proceed without a battery connected to this station! Do you want to proceed? Yes or No". This is because a battery must be connected before AC power is applied to the RF80-K so charging/discharging can begin.

- **Reference Batteries**

We have added the ability to create Reference Batteries, which are standard battery types containing approved charge/discharge parameters. While in Supervisor Mode, or prior to delivery of each system, a collection of common Reference Batteries can be provided which contain approved charge/discharge parameters for automatic processing. This allows configuration management of all battery processing. Only a Supervisor with password access can enter a brand new battery type in the database. Normal users can add new batteries to the database by adding a new serial number for an existing battery type, but cannot modify the charge/discharge parameters.

- **User Friendly Log Playback**

We created a new Log Playback Mode when logged in as a Supervisor which includes the ability to easily locate and load a log file for playback and analysis. Log files may be emailed from remote locations then played back in real-time or fast-forward mode for analysis. We also added a forward, fast forward, pause and stop control button for use during log playback mode.

- **Individual Cell Capacities – Percent, Time and Amp-Hours**

End-of-task reports now include individual cell capacity calculations in both discharge and charge. Amp hours delivered to (charge) or produced by (discharge) the batteries are calculated to the individual cell level. This is quite valuable when analyzing battery discharge capacity. Instead of looking at the entire battery capacity as an average value, each cell can be evaluated for discharge capacity and serviceability. Data now includes discharge time to 1.00v per cell, amp-hours in/out and percent capacity.

- **Protected Recipe Files (Authorization)**

In the supervisor mode, there is a new “Authorize Recipes” menu option. This allows the supervisor to authorize or de-authorize a recipe file. Only authorized/approved recipes will appear on the battery overview tab for selection and battery processing.

- **End-of-Task Report Header Text, Logo and Technician/Inspector Stamp Area**

We added custom fields (Report Settings) which are displayed on the end-of-task report including header text, logo and technician stamps.

- **Improved Fill-Master FM262E Interface**

Faster and more user-friendly interface for capturing Fill-Master battery water usage data.

For any questions, suggestions or comments, please contact us:

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