



REMOTE MONITORING SOFTWARE®

For use with ACB2 Product Series Hardware

RMS software was designed specifically to monitor and control the ACB2 Product Series hardware for use with distributed electrochemical corrosion protection systems.

Benefits and features include:

- Automated data acquisition and alarming of thousands of parameters.
- Access to multiple remote locations through the use of industry standard RS485 network.
- Multiple reporting formats simplify the analysis of operating data.
- Remote adjustment and interruption of current source output.
- Easy setup and reporting of complex depolarization sequences.
- User defined 'mimic' screens display the layout of distributed monitoring.
- Event programming permits the creation of measurement steps including specific time delays for coupon macro current and potential measurement.
- Automated data backup.



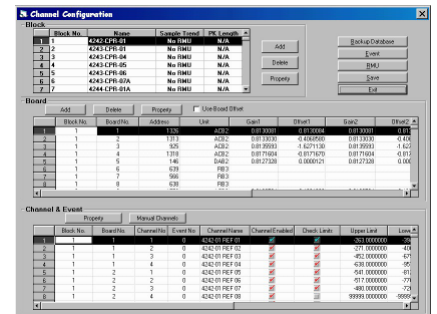
Description

The primary function of RMS software is to measure and record data. Up to 100 different monitoring frequencies can be selected (each for different 'channel sets'), enabling dynamic and static parameters to be recorded at different rates.

RMS operates on most desktop or laptop computers. Connection to the ACB2 Product Series components can be made directly through the RS232 port or via an RS485 network, enabling both local and remote data logging, instant-off measurement, and rectifier control.

Configuration

The Configuration screen is used to enter the ACB2 hardware component addresses and parameter specifics into a central database. These components are defined as



Typical Configuration Screen

'Blocks' and 'Boards'. Blocks are ACB2PS's (power supplies) which make up the nodes on the RS485 network. Nodes are ordinarily placed at each location where one or more transformer/rectifier's are installed. Each node then contains various Boards; typically one or more ACB2 quad analog input devices, DAB2 rectifier controllers, and possibly an RB3 for interruption or coupon control.

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Rectifier Control

Rectifiers can be current or potential controlled using the DAB2 devices. Target operating levels and update frequencies are entered into the RMS software. Selected parameters can be associated with each T/R for reporting purposes.

Alarms

Each parameter can be assigned an upper and lower alarm limit. Alarm condition monitoring frequency is user selectable. Alarm reports are generated and stored in the database complete with acknowledgement notes.

Instant-Off Readings

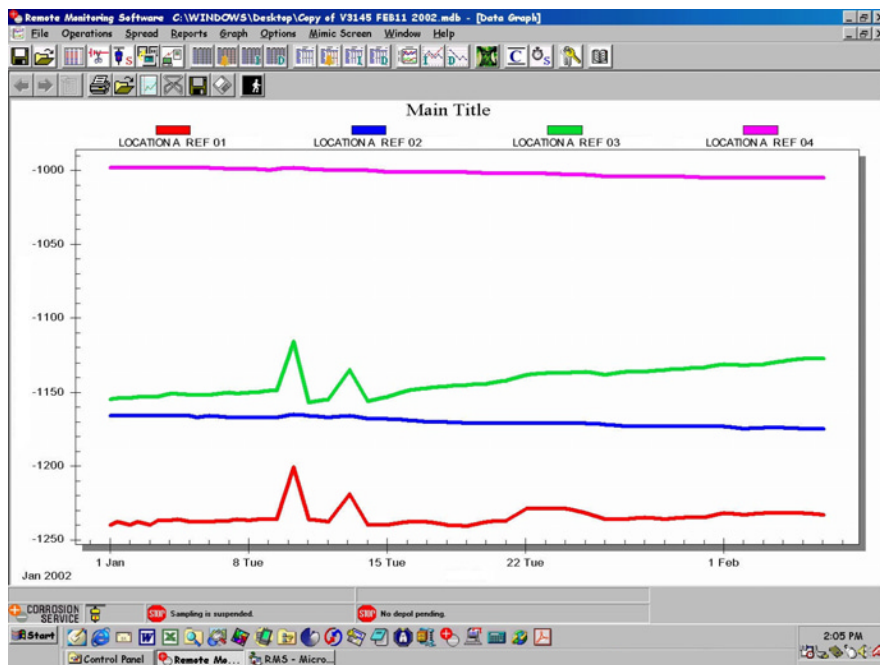
Using the ACB2 and RB3 relay boards where necessary, instant-off readings can be recorded at 1000's of locations simultaneously. All data is stored in the database and can be compared to previously recorded or manually entered base potential data to generate a comprehensive status report in minutes.

Depolarization

Up to 10 separate depolarization sample periods can be configured to allow varying measurement frequencies during the entire depolarization. The user can choose to depolarize individual, groups, or all current sources.

Data Analysis

RMS software includes many pre-defined report formats for standard data analysis. More complex or customized reports are readily created by exporting the database to Microsoft® Excel.



Built-in graphing functions enable rapid analysis of system parameters.

Built-in graphing routines enable the user to quickly plot, view, and compare data from various system parameters.

Exporting Data

The RMS program stores all configuration and operating data in a single Microsoft® Access database. This data can be reviewed from within the RMS program, from Microsoft® Access, or by exporting to Microsoft® Excel for more complex user defined analysis.

Data Storage

When the RS485 network is continuously available, data is stored in the RMS database. Otherwise, remote storage can be implemented through an RMU2. RMS can be instructed to poll and download data stored at RMU2 sites at specific

intervals and can accommodate a combination of continuously and intermittently available locations.

Mimic Screens

To ease navigation through complex layouts, user defined 'mimic' screens can be implemented. The RMS manual guides the user through the screen customization procedure including selection of graphics and the placement and operation of screen buttons.

Security

RMS may be configured such that a password is required to modify the operation of the monitored equipment. Users without access to the password can review data and generate reports but cannot change operating or alarm levels.