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OPERATING DESCRIPTION
FOR THE
RAPID SCORING SYSTEM (RSS)

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The RSS consists of a single base station, thirty hand held remote interactive modules and a software package which executes on a personal computer (PC) with a Windows95/98 operating system. The software package will also run on a Macintosh PC. The software package is designed to communicate over a local area network with a server running the software included. The handheld units communicate over a wireless Radio Frequency (RF) link to a base station and utilize rechargeable batteries for “no wires” operation. Figure 1. illustrates the RSS operation.

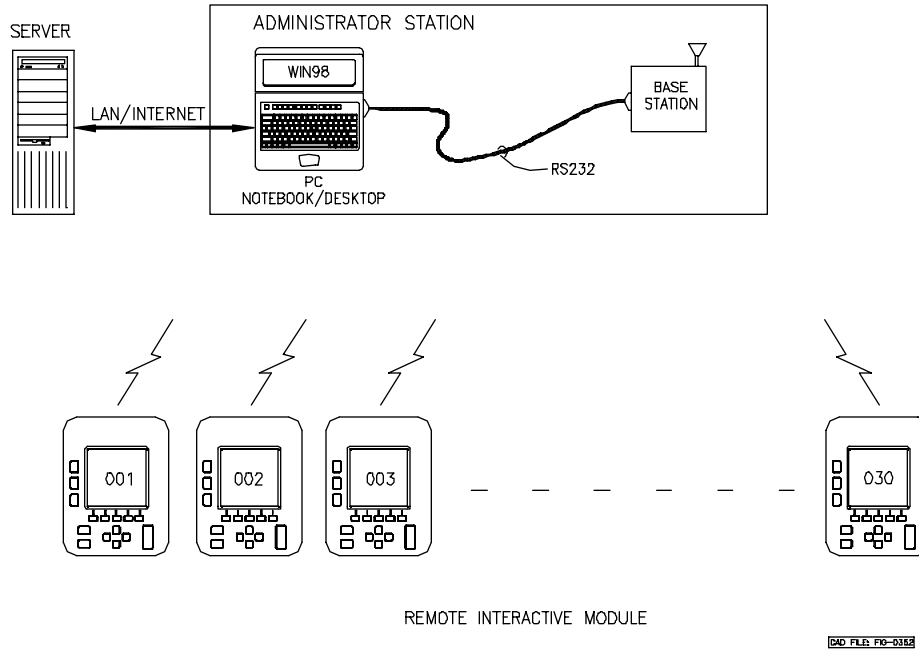


Figure 1. RSS Operation

The base station contains software to collect and distribute information between the remotes and the server. The software has two main functions; first the software manages the radio frequency traffic between the devices and the PC. In addition, this software writes records to and receives records from a local version on the base station. The local version is the middleware that takes information and reads/writes data into the master server. The base station will display connection status to the PC RS-232 link and status of the RF links which are responding to the base station.

The remote units operate in concert with the base station. When the remote user turns on the unit, the device requests the user to enter his or her personal User Identification (ID) and password using the virtual keyboard display. Upon completion of this information, the ID and password are sent to the server. Upon recognizing the user, the server will pass back the options the user is assigned. The user then scrolls the list of options and selects the appropriate one. Once the option is selected, the server sends the selected items to the user.

The remote utilizes NiMH batteries in a 3 cell configuration. The remote is not powered on during charging. While charging the battery charger will illuminate a red LED. When charging is complete the green LED will illuminate and the red LED will extinguish.