



**9580 DATA LOGGING
SOFTWARE**

**OPERATION
MANUAL**

 **TRILITHIC**
The Best Thing on Cable



TRILITHIC

TRILITHIC, Inc., one of the fastest growing privately held companies in the U.S. (Inc. 500, #10), is a leading supplier of test equipment to the CATV industry. Through the years, we have introduced a range of products to make CATV maintenance simpler, faster and more precise. Our contributions include the first PRACTICAL CATV sweep system (1976), the first CATV return adjustment system (1981), the SEARCHER PLUS for leakage measurement (1989) and the SUPER PLUS for overbuilt leakage and ingress measurement (1994).

Among our most popular products is the TRICORDER series of CATV analyzers (led by the new TRICORDER III, the most versatile member of the popular TRICORDER family).

TRILITHIC is especially well known for its leakage products. More than 15,000 SEARCHER PLUSES are in daily use as well as the SUPER PLUS and SUPER CT measurement devices (which take leakage measurement into the new era of overbuilds and digital services).

In addition to developing instrumentation for the CATV industry, TRILITHIC produces RF and microwave components and equipment for aerospace and wireless communications, as well as computer controlled assemblies for automated test systems, headend automation and communications signal routing.

TRILITHIC products are designed and manufactured at our facility in Indianapolis, Indiana. These products are distributed by sales agents in over 40 countries.

Should you have any questions or need our service, please contact us at the address or telephone numbers below:

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(800) 344-2412



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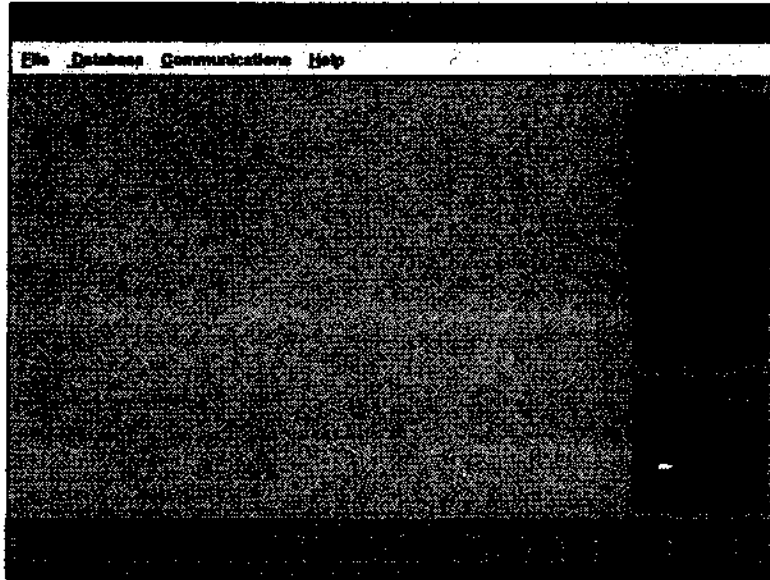


GENERAL INFORMATION



INTRODUCTION

SweepSaveR is Trilithic's exciting software which will enable you to manage your 9580's SSR data logs. The software uploads sweep data logs from the SSR to your PC. It also downloads sweep data logs from the PC to your SSR. This process makes it possible for you to compare new sweeps just taken in the field with sweeps taken at an earlier date. With SweepSaveR, you can upload and store an unlimited number of data logs.



The ability to manipulate your sweep data logs via SweepSaveR makes it possible for you to upload or download sweep data. This enables you to compare current data to older file records in the office and even IN THE FIELD!

SweepSaveR is a versatile, easy to use piece of software which will help you get the MOST out of your 9580 system.

SYSTEM REQUIREMENTS

In order to run SweepSaveR, you need an IBM compatible computer with the following options:

- 486-33 or greater is necessary for optimal performance; a 386 is the minimum accepted to run the software.
- 4 Meg of RAM or greater
- 2 Communications Ports or more:
 - 1 COM Port for the Mouse
 - 1 COM Port for the 9580 SSR
- 2 Meg of Hard Drive space for installation
- VGA Color Monitor with a resolution of 640 x 480 and 256 Colors. Higher resolution will work although the active work area will be reduced in size. The Windows System color map determines the color of the message boxes which appear.
- A PC compatible mouse
- Windows 3.1 or higher operating system
- Floppy Drive

SweepSaveR is designed to work with the same hardware setup you use for Windows 3.1, Windows 3.11 or Windows 95. If your Windows setup works smoothly, you should have no difficulty running SweepSaveR.



INSTALLATION PROCEDURES



INSTALL SOFTWARE

Now that you've checked the system requirements, you are ready to install SweepSaveR.

You can install the software via one of two methods:

- Program Manager Method
- File Manager Method

Program Manager Method

To install SweepSaveR via the Program Manager Method, use the following procedure:

1. Turn ON your PC and enter Windows.
2. Insert the SweepSaveR disk into drive A or B (depending on your drive configuration and the size of your SweepSaveR installation disk).
3. In your Program Manager Window, select **F**ile. If you are using WINDOWS 95, click START.
4. Once you are in the FILE Menu, select **R**un.
5. When you are in the RUN Menu, type the following on the command line:
A:\SETUP (or B:\SETUP)
6. Click on the OK button or press the **ENTER** key.
7. Follow the instructions on the screen.
8. The software's setup utility will install SweepSaveR automatically into your PC and will create a Trilithic Program Group and SweepSaveR icon.

9. Once SweepSaveR is installed, you should have the following files:

5 (five) .SWP files	1 (one) .MDB file
1 (one) .HLP file	1 (one) .LDB file
1 (one) .EXE file	1 (one) .MD file

File Manager Method

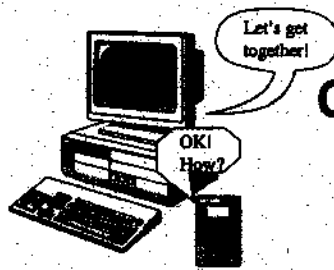
To install SweepSaveR via the File Manager Method, use the following procedure:

1. Turn ON your PC and enter Windows.
2. Insert the SweepSaveR disk into drive **A** or **B** (depending on your drive configuration and the size of your SweepSaveR installation disk).
3. Click on the **FILE MANAGER** icon.
4. Once you are in the File Manager, click on the drive icon where you have inserted the SweepSaveR disk (**A** or **B**). This will bring up the directory for the SweepSaveR disk.
5. Click on the file **SETUP.EXE**.
6. Follow the instructions on the screen.
7. The software's setup utility will install SweepSaveR automatically into your PC and will create a Trilithic Program Group and SweepSaveR icon.
8. Once Sweep SaveR is installed, you should have the following files:

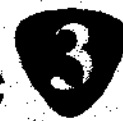
5 (five) .SWP files	1 (one) .MDB file
1 (one) .HLP file	1 (one) .LDB file
1 (one) .EXE file	1 (one) .MD file

TROUBLESHOOT THE INSTALLATION

If you have difficulties installing SweepSaveR, you will need to call Trilithic at (1-800-344-2412).



CONNECTING PC AND SSR 9580



INTRODUCTION

Now that you have installed SweepSaveR, you can connect an SSR unit to your PC.

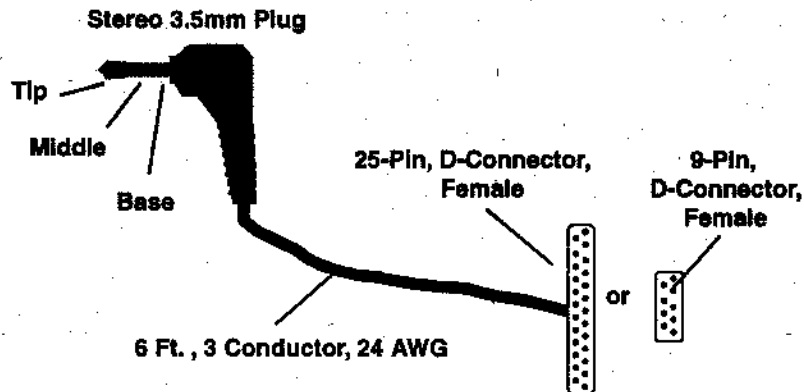
Make sure that you connect the devices with Trilithic's SSR 9580 Data Cable (P/N 207994000) which is designed specifically for connecting the SSR 9580 to a PC. Similar cables from other sources might not work correctly. The diagram for the cable is shown below.

SSR 9580 Data Cable Pins

Stereo Plug	25 Pin (Female)	9 Pin (Female)*
Tip	2 PC TX	2 PC RX
Middle	3 PC RX	3 PC TX
Base	7 GND	5 GND

* If you wish to build your own.

The diagram for the SSR 9580 Data Cable is shown below.



MAKE CONNECTIONS

Use the following procedure to connect the SSR 9580 to your PC. You may connect the data cable to the PC first or to the SSR 9580 first.

Connect 9580 Data Cable to PC.

Connect the 9580's 25-Pin female connector to an available COM port on your PC.

Connect 9580 Data Cable to SSR 9580.

Plug the cable's stereo plug into the stereo jack on the side of your SSR unit.

That's all there is to it! You are now ready to test the connections to make sure that your SweepSaveR software will work properly.

TEST THE CONNECTION

Now that you have set up the PC and the SSR, you need to make sure that the two are communicating.

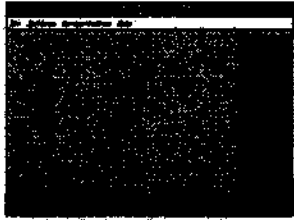
It is easy to start and operate SweepSaveR. Once you are in WINDOWS, *double click* on the TRILITHIC PROGRAM GROUP. Then, *double click* on the SweepSaveR icon and the program will start.

The first time you run SweepSaveR, the software will ask you which COM PORT you are using for the SSR 9580. Type in the desired port (COM 1, COM 2, etc.) and press ENTER. Your PC will then launch SweepSaveR and the MAIN Menu screen will appear.

Now, go to the COMMUNICATIONS Menu and select TEST SSR CONNECTION.

If everything is working properly, SweepSaveR will indicate that it is communicating with the SSR by stating that the "SSR IS CORRECTLY CONNECTED" in the status bar at the bottom of the screen.

If everything is not working properly, you need to double check your connections, the COM Port and make sure everything is turned ON. If SweepSaveR is still not working properly, contact Trilithic at 1-800-344-2412



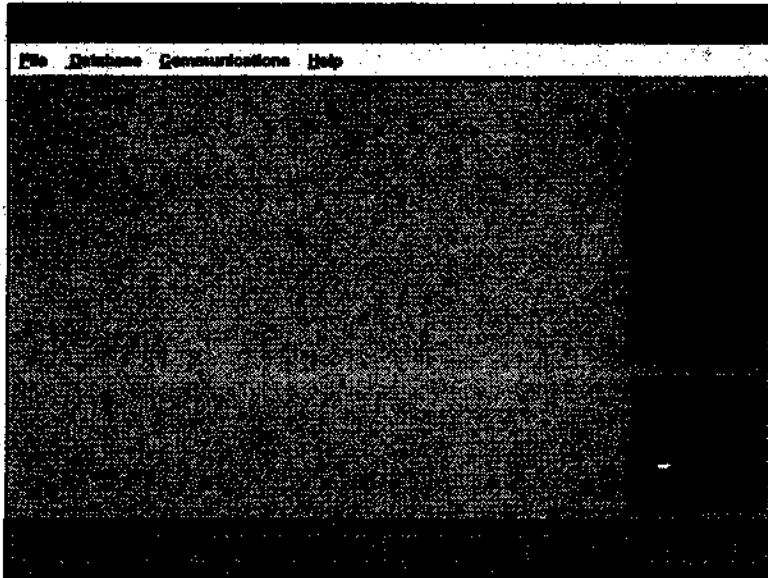
HOW SWEEPSAVER WORKS



INTRODUCTION

Okay. You've installed the software and connected the SSR to your PC. Everything is up and running and you're ready to go.

When you *click* on the icon for SweepSaveR, the MAIN screen appears. SweepSaveR is designed primarily for use with a mouse since a number of functions are *drag & drop* in nature.



How to Navigate

SweepSaveR is primarily a "drag and drop" program which means that you use your mouse to select certain items and then drag them somewhere on the screen to execute a function. Due to this style of software, the best way to get around SweepSaveR is to use your mouse to *click* on desired functions and to drag them just as you do in other Windows Applications.

While you may also use the keyboard to highlight the Menus' features, you are limited due to the "drag and drop" nature of this application. You may access some features of SweepSaveR by pressing the **ALT** key plus the letter for the desired function.

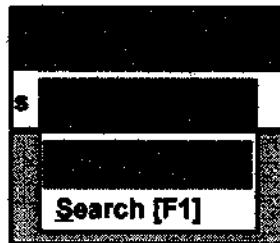
For example, to enter the FILE Menu, PRESS **ALT** and **F** at the same time.



Once you are in a Menu, you can use the arrow keys (**←**, **↑**, **→**, **↓**) to move within the Menu. You can use the **TAB** key to scroll through choices in the various functions. Once a desired function is highlighted, PRESS the **ENTER** key to select that function.

On-Line Help

SweepSaveR is equipped with an on-line help function to assist you in using the application. The basic help feature can be accessed by selecting the **HELP** command on the top **MENU** line.



To search for a specific SweepSaveR topic, select SEARCH F1.

In addition to using the HELP Menu, context sensitive help is available while SweepSaveR is running. Context sensitive help is designed to give you instant help information rather than having to search for a given topic.

For example, when you are in a particular menu of SweepSaveR and you need information regarding that application, simply press F1 and the ON-LINE HELP Screen for that menu appears.

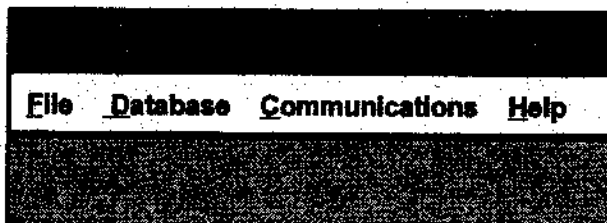
Once you are inside the Help Menu System (Standard Windows Help), you can bring up other HELP Screens by searching for key words, referring to the HELP Menu's Table of Contents, or by bringing up previously viewed HELP Topics.

A Quick Tour

If you look at your MAIN Menu screen, you will note that Sweep-SaveR contains several elements.

MAIN MENU BAR

At the top of the screen is the MAIN MENU bar.



The MAIN MENU bar contains the following menus:

- FILE
- DATABASE
- COMMUNICATIONS
- HELP

SCRATCH PAD

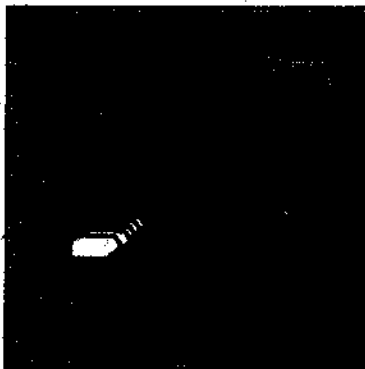
On the top right of the screen is the Scratch Pad which can contain up to 24 SSR sweep data logs.



HINT: You may edit a 7 digit ID by *double clicking* on the ID you wish to change.

DRAG & DROP ICONS

Below the scratch pad are the software's drag and drop icons. Use these by "dragging" data logs from the scratch pad to the desired icon.



HOT TIP
Data logs in DISK SAVE, CACHE or DATA BASE can be moved to any of these three icons. If you wish to move a data log from CACHE to DISK SAVE, for example, you must first move the data log from CACHE to the scratch pad and then down to DISK SAVE. Data logs in CACHE can be moved directly to the TRASH icon, however.

Disk Save Icon

You can use the DISK SAVE icon to save data logs to a disk file. This enables you to bring the data logs back to the scratch pad at a later time simply by OPENING the saved file.

NOTE: This function is somewhat different than using the SAVE AS command in the FILE Menu. When you execute the SAVE AS command, SweepSaveR saves the entire contents of the scratch pad to disk.

When you are using the DISK SAVE icon, only the data logs which are highlighted in the scratch pad will be saved. (If you wish to highlight multiple files, *hold* down the **SHIFT** key.)

Cache Icon

The CACHE icon serves as a temporary, invisible second scratch pad. If you are not certain you wish to save a data log or you need to look at a data log a bit later in the operation, you can drag it to CACHE and store it there until it is needed again.

This feature also enables you to build a set of 24 data logs from various files through the following procedure:

1. Open a file.
2. Select the desired data log.
3. *Drag* the selected data log down to the CACHE icon and *drop* it there.
4. Repeat the procedure for all desired data logs (up to 24).
5. When you are finished, you can then *drag* the entire contents of the CACHE back into the scratch pad and then save it as a whole new sweep file.

REMINDER: Data logs contained in the CACHE icon are NOT saved to disk file. If you need to save the data log, you must **FIRST** move the data log from CACHE back to the scratch pad. From there, you may save the data log by dragging it to the DISK SAVE icon.



DataBase Icon


If you desire, you may save selected data logs to a database for storage. When you drag a data log to this icon, you will be asked for the following information:

- Operator Name
- Company and Address
- Sweep ID
- 5 additional custom fields as determined by your company


NOTE: SweepSaveR is shipped to you with a "blank" database which you can refine and customize to your particular needs. The database is completely compatible with Microsoft Access 1.1.

Trash Icon

Data logs dragged to the TRASH icon are erased from the scratch pad.



REMINDER: You can also drag data logs directly from the CACHE icon to the TRASH icon.



STATUS BAR

SweepSaveR informs you of what is going on every step of the way in the STATUS BAR at the bottom of the MAIN Screen. The STATUS BAR also maintains your communication port settings and any error codes which are generated during operation.

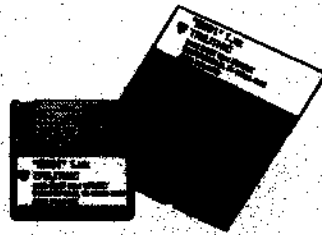


Message Display

Baud
Rate

Com
Port

Handshaking



OPERATION

INTRODUCTION

SweepSaveR enables you to upload your SSR sweep data logs into your PC's memory via a standard RS-232C data bus.

You also have the option to download either 1 or up to 12 data logs from the scratch pad to the SSR 9580.

Upload SSR to PC Via Scratch Pad

With SweepSaveR, you can upload either 1 or up to 24 data logs from the SSR to the PC. During uploading, the data logs are time stamped immediately with the current date and time and appear in the program's scratch pad:

NOTE: The format for the PC's date and time is set up in WINDOWS' Control Panel.

Once the data logs are in this scratch pad, you can elect to utilize one of the following procedures:

- Write the scratch pad to a PC based disk file.
- Send selected data logs to the program's database.
- View selected data logs in a graphic mode.
- Trash or delete selected data logs.

SCRATCH PAD TO PC BASED DISK FILE

By writing the data logs in the scratch pad to a disk file using the SAVE AS command in the FILE Menu, you can review them at a later time by simply opening the file. This enables you to perform a quick upload of data logs and saves them to disk so that you will be able to sort them at a later time.

SEND DATA LOGS TO DATABASE

SweepSaveR contains its own database which is common to all 9580 software applications.

CAUTION: Before you start working with the database, it is a good idea to familiarize yourself with SweepSaveR completely.

The database contains the following tables:

- Operators – Name, Company, Address
- Custom – 1 - 5 miscellaneous fields
- Sweeps – Target ID (7-digit ID), Date/Time, Sweep Data
- Graph – Pictorial representation of Sweep

If you save one or more data logs to the database, the software will require some key information:

- Your Name
- Company
- Up to 5 custom named fields of information

VIEW GRAPH SELECTED DATA LOGS

This software enables you to view up to 4 sweep data logs on an SSR type graphic display simultaneously. The nominal level of each graph is always centered.

TRASH SELECTED DATA LOGS

If you no longer want a selected data log, you can delete it from the scratch pad by *dragging* it to the TRASH icon in the DRAG & DROP display in the lower part of the MAIN screen.

Download PC to SSR Via Scratch Pad

SweepSaveR enables you to download either 1 or up to 12 data logs from the PC to the SSR. Before you can download the information, you must first move the desired data log(s) into the scratch pad. You can accomplish this by following one of these procedures:

- Open a file which contains sweep data logs directly into the scratch pad.

- Transfer a sweep data log from the database into the scratch pad.
- Transfer the CACHE data logs into the scratch pad.

Once you have the data log(s) in the scratch pad, you can download a single data log to the SSR by selecting the **DOWNLOAD 1** command in the **FILE** menu.

WARNING: When you download data to the SSR, its memory is overwritten and all data is lost! Do NOT execute the download command unless you are sure that the data contained in the SSR's memory is no longer needed.

You can also send more than one data log by selecting the **DOWNLOAD ALL** command. If you choose this command, the first 12 data logs in the scratch pad will be sent to the SSR. The remaining 12 slots are cleared within the SSR and are then available for field use.

NOTE: You can only select 1 data log or all data logs. If you wish to download only data logs 2, 4, 6 and 8, for example, you must download the data logs one at a time.

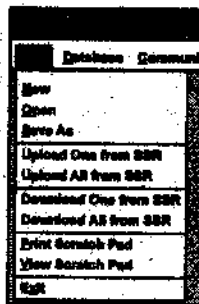
Data logs downloaded from the PC to the SSR are identified on the SSR with the word "FILE" underneath the ID.

GETTING AROUND SWEEPSAVER

Now that you are a bit more familiar with your software's features and abilities, you are ready to start using it. Operations of SweepSaveR center primarily around the **FILE** Menu, **DRAG & DROP** display and the **DATABASE** Menu. We will examine each of these in the following sections.

FILE Menu

Several of your basic operations are contained in the FILE Menu.



When you first open SweepSaveR, the scratch pad is empty. At this time, you either **UPLOAD** data logs from the SSR or **OPEN** an existing file from the PC disk.

OPEN COMMAND

To transfer an existing file from the PC to the scratch pad, *click* on **OPEN**. This will bring up the **OPEN** directory from which you may select the desired file.

NOTE: If this is the first time you have used SweepSaveR and there are no saved files, you will find five sample files in this directory (sample*.swp). These five sample files are designed to help you to become familiar with the software.

Select the desired file by *double clicking* on it or by *clicking* on it once and then *clicking* on **OK**. The information in the file will appear in the scratch pad.



UPLOAD COMMANDS

If you desire to upload one or more data logs from your SSR, *click* on either of the UPLOAD commands. Files with no User ID will have a "." after the scratch pad number.

UPLOAD ONE FROM SSR enables you to transfer 1 data log from the SSR unit.

UPLOAD ALL FROM SSR enables you to transfer all of the data logs (up to 24) contained in the SSR.

If you wish to upload more than one specific data log but not all of them, you will need to upload the desired data logs one at a time or upload all of them and sort on the scratch pad or one of the viewers.

DOWNLOAD COMMANDS

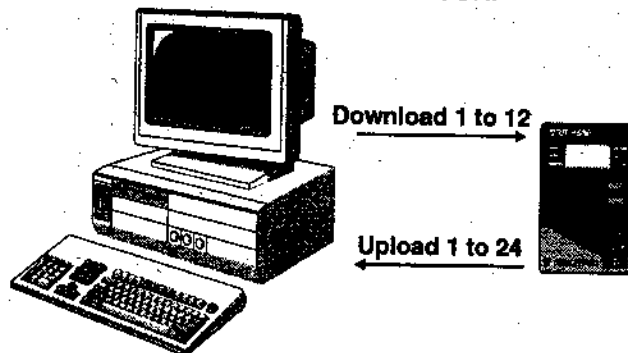
If you have opened an existing file and wish to download it to your SSR, you may do so via the DOWNLOAD commands.

To download a single data log from the scratch pad to the SSR, *click* on DOWNLOAD ONE TO SSR.

If you wish to download all of the data logs in the scratch pad, *click* on DOWNLOAD ALL TO SSR.

REMINDER: When you use this command, the first 12 data logs will be downloaded to the SSR. The remaining 12 locations will be cleared for field use.

NOTE: If your SSR is brand new, or your battery has died, or you wish to clear your SSR of all data logs, you may *click* on NEW and then DOWNLOAD ALL TO SSR.



UPLOAD COMMANDS

If you desire to upload one or more data logs from your SSR, *click* on either of the UPLOAD commands. Files with no User ID will have a "." after the scratch pad number.

UPLOAD ONE FROM SSR enables you to transfer 1 data log from the SSR unit.

UPLOAD ALL FROM SSR enables you to transfer all of the data logs (up to 24) contained in the SSR.

If you wish to upload more than one specific data log but not all of them, you will need to upload the desired data logs one at a time or upload all of them and sort on the scratch pad or one of the viewers.

DOWNLOAD COMMANDS

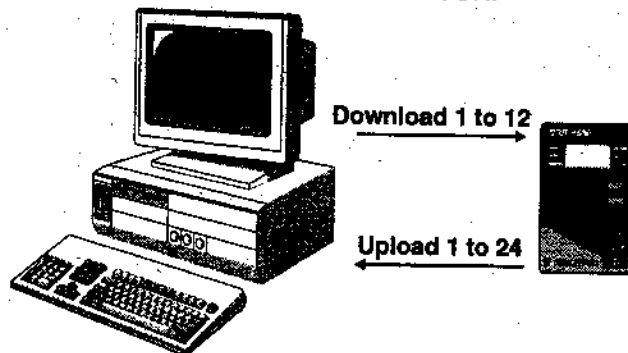
If you have opened an existing file and wish to download it to your SSR, you may do so via the DOWNLOAD commands.

To download a single data log from the scratch pad to the SSR, *click* on DOWNLOAD ONE TO SSR.

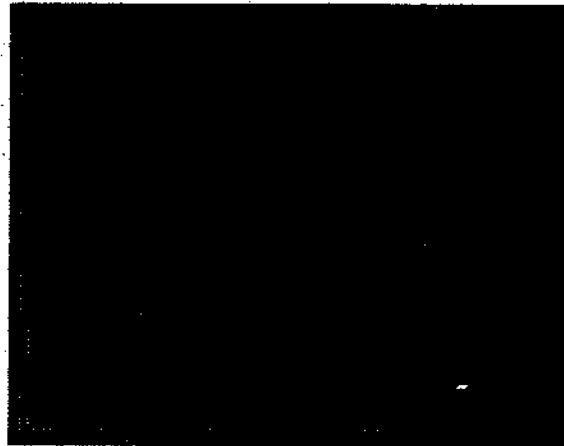
If you wish to download all of the data logs in the scratch pad, *click* on DOWNLOAD ALL TO SSR.

REMINDER: When you use this command, the first 12 data logs will be downloaded to the SSR. The remaining 12 locations will be cleared for field use.

NOTE: If your SSR is brand new, or your battery has died, or you wish to clear your SSR of all data logs, you may *click* on NEW and then DOWNLOAD ALL TO SSR.

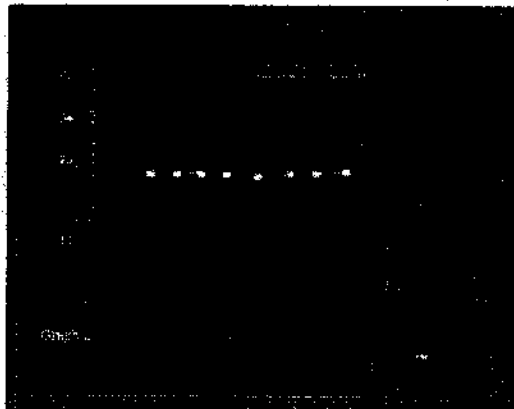


The graphic sweep display of the data log will appear in the blank palette while the identifying text of the data log appears in the GRAPH 1 box in the LEGEND palette.



You may view up to 4 different data logs at the same time. Simply *drag* the additional data logs into each GRAPH line in the LEGEND box.

NOTE: If you *drag* the data log into the viewing palette, it will clear all data logs currently being viewed. To view 2 or more at the same time, you must *drag* the data logs into the LEGEND box.



TIP: *Click* on the points of the graph to display the floating cursor data for that graph in the upper right corner.

You can also print data logs from the scratch pad. *Click* on FILE and then on the PRINT SCRATCH PAD command. For a sample printout, see *ADDITIONAL INFORMATION* page 41.

EXIT COMMAND

When you are ready to leave this program, *click* on EXIT.

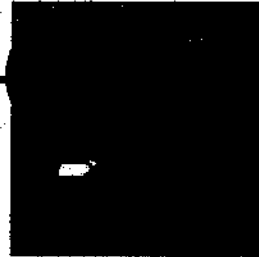
Drag & Drop

In addition to using the WINDOWS style mouse *clicks* in the FILE Menu, SweepSaveR is designed with several DRAG & DROP functions.

DISK SAVE ICON

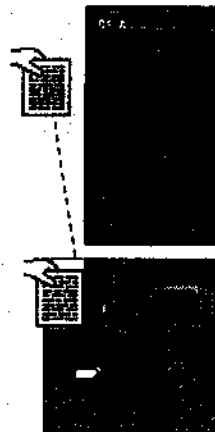
Rather than choosing the SAVE AS command in the FILE Menu to save selected data logs to the PC disk, you may also save the file via the DISK SAVE icon.

Use the DISK SAVE icon to save data from the Scratch Pad to a PC disk file



To use this method, *click* on the desired data log in the scratch pad and *hold in* the mouse button. Notice that the arrow cursor changes to a hand holding a paper.

Now, *drag* the highlighted data log file down to the DISK SAVE icon.



TIP: To add multiple data logs at the same time, *click* on the **FIRST** desired data log and then hold down **SHIFT** and *click* on the **LAST** desired data log. You must hold down the mouse button to keep the data logs selected although you may release the **SHIFT** key. If you wish to select random data logs, hold down the **CTRL** key instead of the **SHIFT** key.

You will be prompted to name the file (the default is *.swp). Just replace the asterisk with the desired file name. SweepSaveR will save the selected data log to the PC disk under that name. Unselected data logs will be saved to the disk as blanks.

CACHE ICON

As you are working with your data logs, you may need to store some of them temporarily without first saving them. The CACHE icon serves as a second, invisible scratch pad which can hold up to 24 data logs.



Use the CACHE icon to hold up to 24 data logs temporarily in a second, invisible scratch pad.

Click on the desired data log(s), hold in the mouse button and drag the data log(s) down to the CACHE icon. These files will be held temporarily in this folder.

CAUTION: When the data logs move up from CACHE to the scratch pad, they overwrite any information already there. So, if you decide to move the data log(s) from the CACHE icon back to the scratch pad, make sure that you have saved any of the data logs in the scratch pad that you will need later.

DATABASE ICON

You may want to build a database with the information in your SSR's data logs. SweepSaveR contains its own database which you can customize to your own needs (see *VIEW...* on page 26).

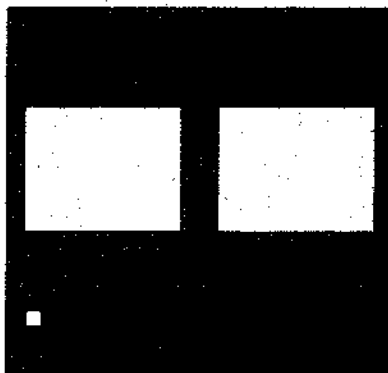
NOTE: The database is included for your convenience. It is not required for using the other features of SweepSaveR.

To save a data log to the DATABASE icon, *click* on the desired data logs in the scratch pad, *hold in* the mouse button and *drag* the selected data log down to the DATABASE icon.

Use the DATABASE icon to save data logs to a database



When you *drag* a data log into the DATABASE icon, the following INTERVIEW screen will appear.



For information regarding the use of this INTERVIEW screen and the database, see *VIEW...* on page 26).

For now, you can *click* on CANCEL to exit this screen.

TRASH ICON

When you are finished with the data logs in the scratch pad, you can delete them via the TRASH icon.

To delete a data log, *click* on the desired file, *hold in* the mouse button and *drag* the selected data log down to the TRASH icon.



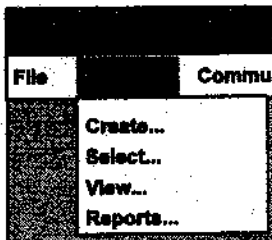
Use the TRASH icon to delete data logs from the scratch pad or the CACHE icon.

You may also clear the CACHE by *dragging* the contents of CACHE to the TRASH icon in the same manner.

Database Menu

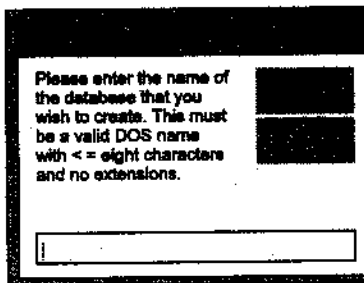
Now that you are more familiar with the mechanics for using SweepSaveR, you are ready to start using it for viewing your data logs. The Database Menu contains these applications:

- Create
- Select
- View
- Reports



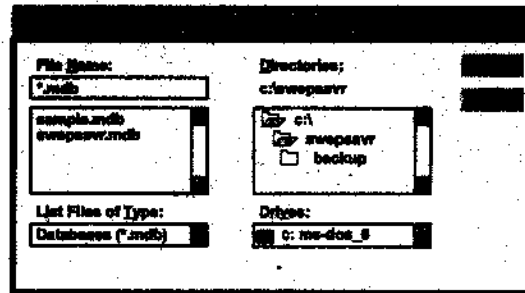
CREATE...

You may create any number of databases by simply *clicking* on the CREATE command in the DATABASE Menu. A small window appears and prompts you to name the new database. Keep in mind, that the title must be a valid DOS name (no more than 8 characters and no extensions).



SELECT...

Use the SELECT command to open the database selection window.



Once you have selected a database, *click* on **OK** or *double-click* on the desired database file. SweepSaveR will return to the MAIN screen and the selected file will be the active database.

VIEW...

Use the VIEW command to examine the data logs in a database environment. SweepSaveR comes with a built-in database which you can customize to some extent to suit your own needs. For a detailed step by step of using the database, see the *DATABASE WALKTHROUGH* chapter on page 33. of SweepSaveR also makes a backup copy of the database everytime you use the software.

CAUTION: If you make an error, DO NOT go back into SweepSaveR as you may backup the database WITH the error. Go to the backup copy and copy the good files into SweepSaveR. For example:

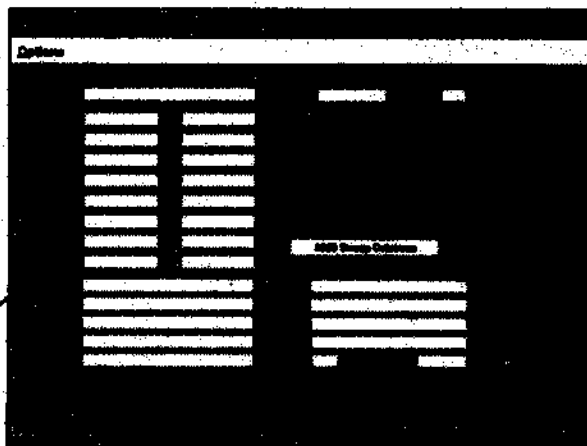
```
copy c:\swepsavr\backup\swepsavr.mdb c:\swepsavr
```

See **TIP #2** on page 41 for more information. Now, enter SweepSaveR.

Before you do anything, you need to set up the custom fields in your database. It is a good idea to give some thought to these fields since their purpose is to assist you in tracking pertinent information. For more information, refer to *CUSTOM FIELD SETUP* on page 27.

In the DATABASE Menu, *click* on VIEW. The SWEEP DATABASE VIEWER window will pop up. The first time you access this window, the information boxes will be blank.

To change CUSTOM FIELD title, click here



Custom Field Setup

To designate up to five custom fields, *double click* on the desired field (i.e. FIELD1). An information window will come up which prompts you to assign a title for that field. Type in the field title in the highlighted box (you may use up to 8 characters) and then *click* OK. FIELD1 changes to that title.

Field1 changes to LOCATION



Repeat this procedure for as many custom fields as you desire up to five. Information such as location, hub, amplifier off of hub, pad off of amplifier, equalizer, etc. may be elements you wish to record in your database. The main thing to remember is to use custom fields which will help you in sorting information in your database.

CAUTION: Although SweepSaveR allows for more than one database, the labels for the five custom fields will be the same for all databases. Therefore, it is a good idea to give some thought as to how you want to label these fields.

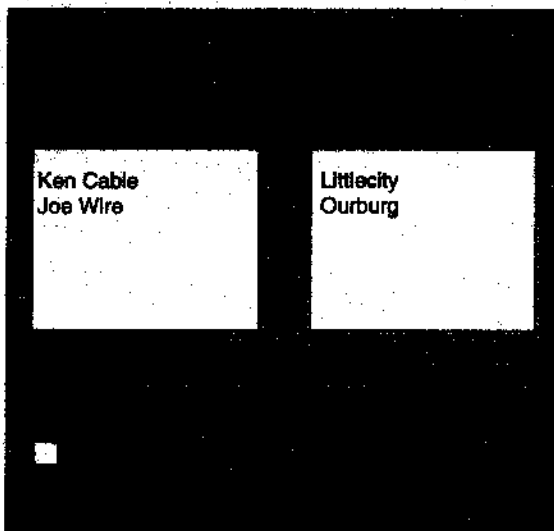
Add Data Logs

Once you have designated your custom fields, you can add data logs to your database. Go to the scratch pad and *click* on the desired data log.

To add multiple data logs at the same time, *click* on the FIRST desired data log and then *hold* down SHIFT and *click* on the LAST desired data log. You must *hold* down the mouse button to keep the data logs selected although you may release the SHIFT key. If you wish to select random data logs, *hold* down the CTRL key instead of the SHIFT key.

When you reach the last data log, *drag* down to the DATABASE icon. You can put data logs into the database from any menu with a DATABASE icon. However, we suggest that you begin working with the database from the DATABASE VIEWER Menu until you are more familiar with the program.

SweepSaveR will bring up the INTERVIEW window.



Tip: As you add data logs to the database, you may enter the names of the operators in conjunction with the various custom fields: Ken Cable might have taken data logs at Littlecity and Ourburg while Joe Wire may only have data logs from Littlecity.

Initialize Interview Window

If this is the first time you have ever used SweepSaveR, the information screens will be blank. You need to *click* the NEW button in order to add information to your lists. If you need to delete information, *click* on the data and then *click* REMOVE.

NOTE: If you are adding multiple data logs and they all contain the same information (i.e. operator name, location, etc.), you can *click* on "use for all". This will enter the information from all of the data logs you have moved from the scratch pad into the DATABASE icon.

When you *click* the NEW button under the NAME column, the INTERVIEW process will take you through a series of windows which appear in the following order:

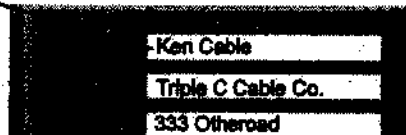
- Name
- Company
- Address
- City
- State
- ZipCode

Enter the required information in the provided box. When the data is correct, *click* the OK button. You may cancel the INTERVIEW process at any time by *clicking* on CANCEL.

After you completed your entries, SweepSaveR brings up a CHECK INFO window to verify your entries. If the information is correct, *click* YES. If not, *click* NO.

NOTE: If you wish to correct or change the NAME, etc. on the DATABASE VIEWER Menu, *double click* on the field you wish to change such as "Ken Cable".

To change
NAME, *click*
here.



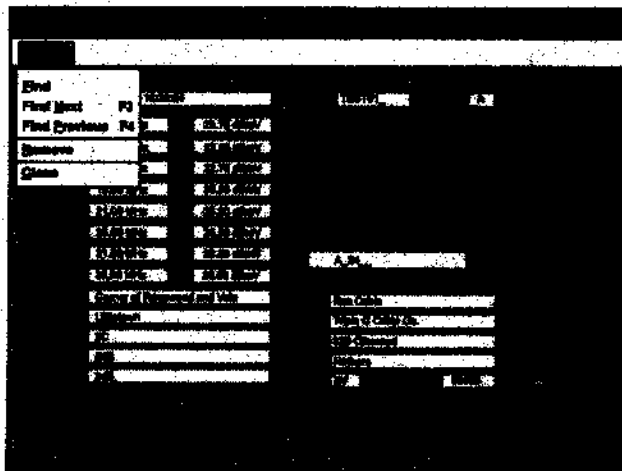
Ken Cable
Triple C Cable Co.
333 Otheroad

Once you have the back ground information added to the database, you can add the data for your one to five custom fields by *clicking* on the NEW button under the FIELD column.

When you are finished, *click* on the DATABASE Menu. Then, *click* on VIEW. The database window will come up with the information for the data logs you *dragged* into the DATABASE icon (if you are not already in this menu).

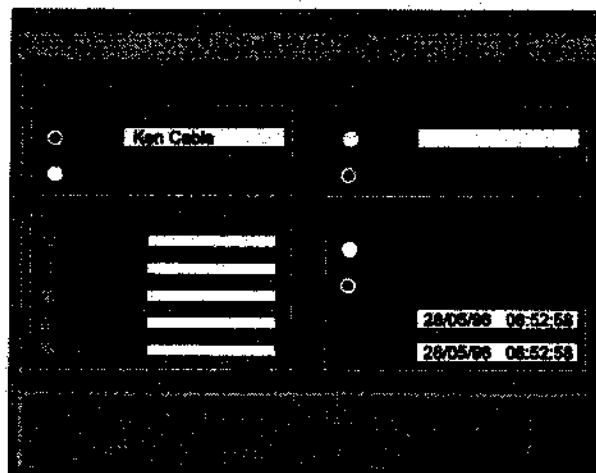
Database Viewer Options

When you are in the SWEEP DATABASE VIEWER, you have several options which will aid you in locating specific data log files which are stored in the database.



These options enable you to:

- FIND a specific data log by searching the database by the operator's name, the SSR's data log ID number, custom fields or by the date and time of a data log.



For example, you wish to search the database for all data logs done by a specific operator such as "KEN CABLE". You would *click* on the "YES" and type in Ken's name. Then, *click* OK. If you wish to find all data logs taken at a specific hub (such as Rosewood Hub), you would *click* the box by "HUB" and then type in the designator.

REMINDER: Before you set up your custom fields, give some thought to what parameters you will need to search to get from one field point to another. A database is only effective if the links between fields make it easier for you to locate your data.

- FIND NEXT brings up the data log which comes after the one being viewed currently in the data log graphics window according to the search parameters which were entered previously.
- FIND PREVIOUS returns to the data log which came before the one being viewed currently in the data log graphics window according to the search parameters which were entered previously.
- REMOVE lets you delete a data log from the database which is no longer required.
- CLOSE exits the SWEEP DATABASE VIEWER.

You may also move data logs from the database back into the scratch pad.

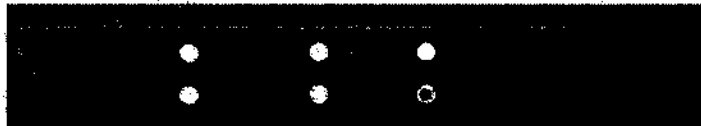
- Select the desired scratch pad location.
- *Click* on the database graph.
- *Drag* the graph to the scratch pad.

REPORT VIEWER

You can use the REPORT VIEWER command to generate a report of your stored data logs based on various aspects. To open this application, *click* on REPORT in the VIEW menu.

You can generate reports based upon the operator or any of the five custom fields.

To generate the report, *click* on the desired field such as operator. A black mark appears in the selected field.



Once you have selected the parameter for your report, *click* on **GENERATE**. The program now prompts you for the search parameters.

SweepSaveR generates a report based on the selected parameter and lists the results in the text window.

#	Log ID	Date/Time	Frequency	Level	Operator
01)	A_24	15/05/96 09:12:51	6.00 MHz	23.75 dBmV	Ken Cable
			9.00 MHz	23.25 dBmV	
			12.00 MHz	22.75 dBmV	
			15.00 MHz	23.50 dBmV	
			21.00 MHz	23.50 dBmV	
			25.00 MHz	23.50 dBmV	
02)	A_22	15/05/96 09:12:53	6.00 MHz	23.25 dBmV	Ken Cable
			9.00 MHz	23.25 dBmV	
			12.00 MHz	23.00 dBmV	
			15.00 MHz	22.50 dBmV	
			21.00 MHz	23.25 dBmV	

Once your report is generated, you have several options under the **FILE** menu.

- **SAVE REPORT AS** enables you to save the current report file.
- **PRINT REPORT** lets you print out the current report.
- **OPEN REPORT** enables you to open a report which was saved previously.
- **CUT & PASTE** the report into another **WINDOWS** application.



DATABASE WALKTHROUGH



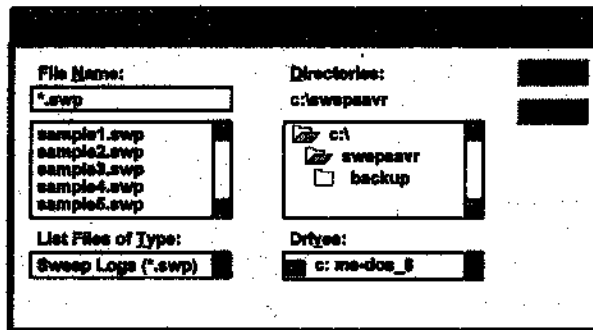
INTRODUCTION

This chapter contains a step-by-step walkthrough to help you familiarize yourself further with the use of the database. This walkthrough uses the sample database (sample.mdb) which came with your SweepSaveR program.

PREPARATION

In order to move files into the sample database, you must first have something to move. For now, let's use one of the sample data logs which came with SweepSaveR.

Go to FILE and then *click* on the OPEN command.



For now, select "sample5.swp" and it will appear in the FILE NAME display window. *Double-click* on the FILE NAME display window or *click* on the OK button to open the sample sweep data log.

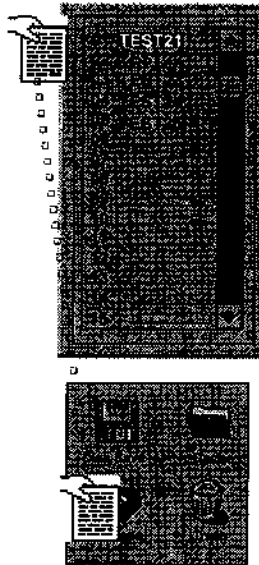
A message displayed on the MAIN MENU informs you of the active database name that you have selected. Also, each database menu has the active database name in the window title.

INTERVIEW WALKTHROUGH

Once the SAMPLE.MDB database is active, you can move the data log records of SAMPLE 5 into the database.

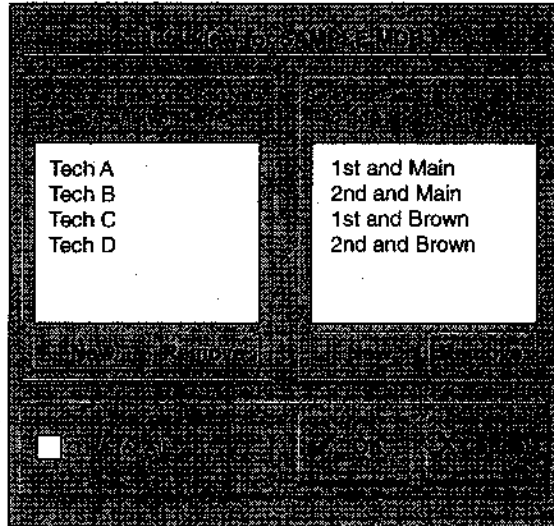
REMINDER: For the purpose of this walkthrough, each data log record will be treated separately. If all of the data log records were to have the same common information, you could move them together.

Click on data log record #1 "TEST21" and then *drag* it down to the DATABASE icon.



The INTERVIEW window will open.

NOTE: The INTERVIEW window identifies the active database. Make sure that it indicates the INTERVIEW FOR SAMPLE.MDB.



Let us say that "TEST21" was taken by Technician A at 2nd and Brown road. To enter this into the data log record, *click* on TECH A in the name column. It will be highlighted. Next, *click* on 2ND AND BROWN in the field column so that it is highlighted. Now, *click* the **OK** button. "TEST 21" will be entered into the database.

Now, *click* on "TEST22" and *drag* it down to the database. In the INTERVIEW window, *click* on TECH B and 1ST AND MAIN. *Click* the **OK** button.

Repeat the procedure with the remaining three data log records as follows:

TEST23	TECH A	1ST AND MAIN
TEST24	TECH C	2ND AND BROWN
TEST25	TECH D	2ND AND MAIN

SAMPLE DATABASE

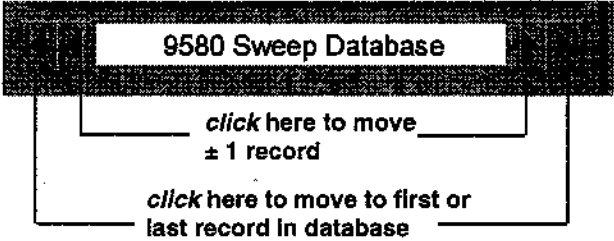
Once you have finished *dragging* the data log records and entering the interview information, you may enter the SAMPLE database.

Go to the DATABASE Menu and *click* on VIEW. The SWEEP DATABASE VIEWER will open and show the active database.

240658 16:23:04	TEST25	A
8.00 MHz	23.50 dBmV	
9.00 MHz	23.50 dBmV	
12.00 MHz	23.25 dBmV	
15.00 MHz	24.00 dBmV	
21.00 MHz	23.75 dBmV	
25.00 MHz	23.75 dBmV	
31.00 MHz	23.75 dBmV	
38.00 MHz	23.75 dBmV	
2nd and Main		
Note2		
Note3		
Note4		
Note5		
9580 Sweep Database		
Tech D		
Trilithic, Inc.		
8202 E. 33rd Street		
Indianapolis		
IN	46238	

REMINDER: Although this particular database has only one custom field (FIELD1) assigned, you can customize your database with up to five fields (see *CUSTOM FIELD SETUP* on page 27 and *DATABASE VIEWER OPTIONS* on page 30 for more information regarding the custom fields.

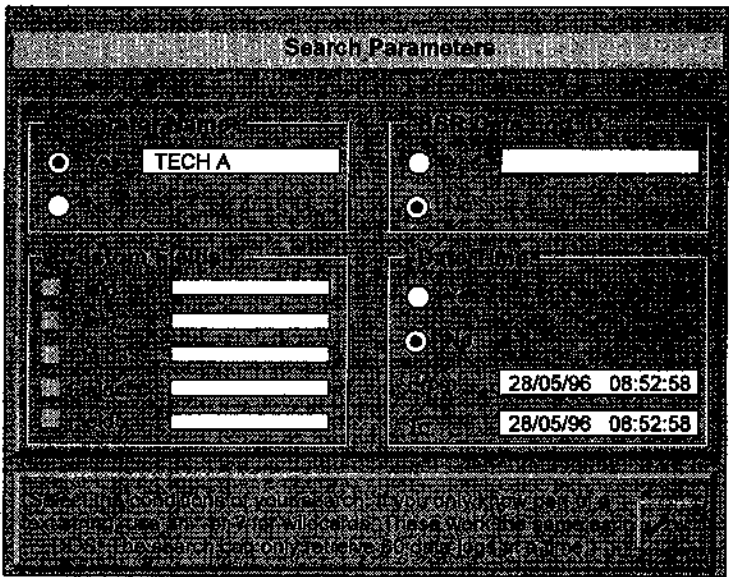
If you moved the scratch pad entries into the database on this menu, it shows the LAST data log that was entered; in this case "TEST25". To view the previous data log records of this entry, *click* on the INSIDE arrow and the viewer will advance backwards from "TEST25" to "TEST24" and so on.



SAMPLE SEARCH

You can use your database to compare data from various entries. For example, you wish to see what information TECH A has taken from a number of data log records.

In the SAMPLE DATABASE, *click* on the OPTIONS Menu and then *click* on FIND. The SEARCH PARAMETER window will appear. To search by TECH A, simply *click* on the **YES** circle in the OPERATOR NAME section and then type in "TECH A".



Click on the **OK** button and the database will find all of the references to **TECH A** and organize them for easy viewing.

At this time, you can view all the records that **TECH A** has taken by pressing **F3** and **F4**. Use **F3** to **FIND** the **NEXT** record. Press **F4** to **FIND** the **PREVIOUS** record.

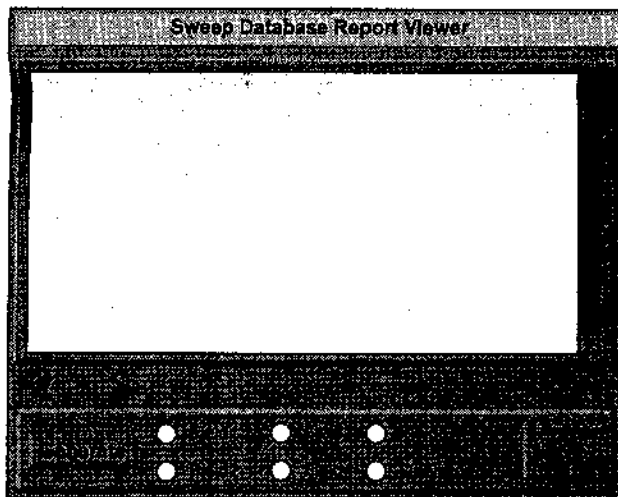
If you wish, you may *drag* the record from the database to the scratch pad. From there, you can download the record to the **SSR** (see *DOWNLOAD PC TO SSR VIA SCRATCH PAD* on page 16). This is very useful if you need to compare an older data log reading with a new one. By downloading to the **SSR**, you can compare the old data log record to a new reading right in the field.

From the scratch pad, you can also **SAVE** the data log record to disk for later viewing.

SAMPLE REPORT

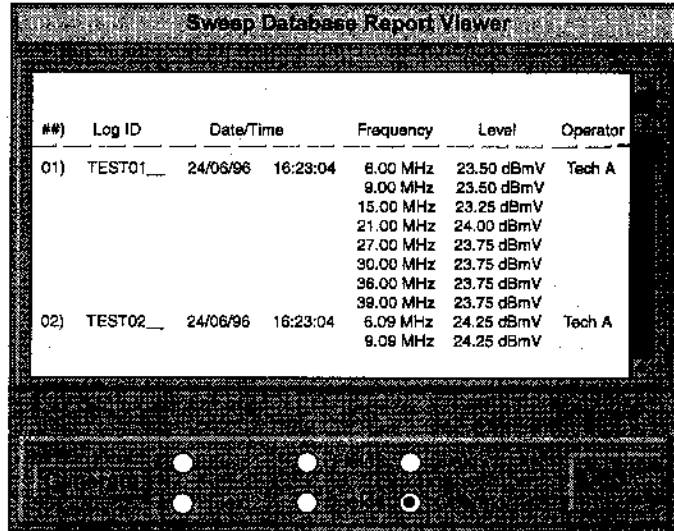
Use the **REPORT VIEWER** command to generate a report of the stored data logs based on your **TECH A** search.

To use the **REPORT VIEWER**, *click* on **REPORT** in the **VIEW** Menu.



Next, *click* on the circle beside OPERATOR at the bottom of the screen. Then, *click* on the **GENERATE** button.

SweepSaveR brings up the SEARCH PARAMETERS window. To search by TECH A, simply *click* on the **YES** circle in the OPERATOR NAME section and then type in "TECH A". SweepSaveR generates a report based on the data log records taken by TECH A.



The screenshot shows a window titled "Sweep Database Report Viewer". Inside the window is a table with the following data:

##)	Log ID	Date/Time	Frequency	Level	Operator
01)	TEST01__	24/06/96 16:23:04	8.00 MHz	23.50 dBmV	Tech A
			9.00 MHz	23.50 dBmV	
			15.00 MHz	23.25 dBmV	
			21.00 MHz	24.00 dBmV	
			27.00 MHz	23.75 dBmV	
			30.00 MHz	23.75 dBmV	
			36.00 MHz	23.75 dBmV	
			39.00 MHz	23.75 dBmV	
02)	TEST02__	24/06/96 16:23:04	6.09 MHz	24.25 dBmV	Tech A
			9.09 MHz	24.25 dBmV	

Once the report is generated, you can go to the FILE Menu and SAVE the report and/or PRINT it out.

MULTIPLE DATABASES

SweepSaveR enables you to set up more than just one database depending on your system's needs. For example, you might choose to set up a separate database for each system, hub or technician or any other logical division of sweep data. For more information, see *CREATE* on page 25.

CAUTION: Although SweepSaveR allows for more than one database, the labels for the five custom fields will be the same for all databases. Therefore, it is a good idea to give some thought as to how you want to label these fields.



ADDITIONAL **INFORMATION**

7

HELPFUL TIPS

TIP #1: If your SSR is brand new or if its battery has died, you can use SweepSaveR to set up the Unit quickly by doing the following:

1. Start the SweepSaveR program.
2. *Click* on the FILE Menu.
3. Select DOWNLOAD ALL TO SSR.

This procedure will clear and erase the SSR's memory; making it ready to receive new data log information.

TIP #2: SweepSaveR automatically backs up the active database every time you enter the program. As with any application, it is also a good idea to back up your files regularly via floppy disks, tape drive or other storage media. Use Windows FILE MANAGER to backup SweepSaveR's *.swp and *.mdb files.

TIP #3: When you wish to move data logs from the database to the scratch, you need to select the destination slot in the scratch pad BEFORE you drag the data log from the database.

SAMPLE DOCUMENTS

The following samples have been included in your manual for your convenience:

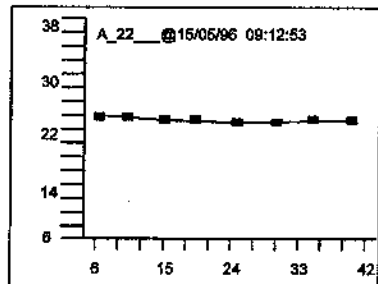
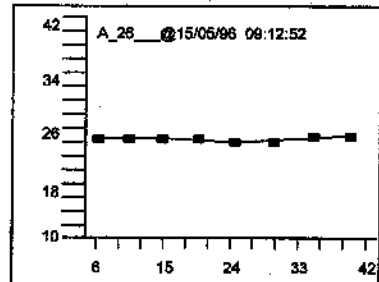
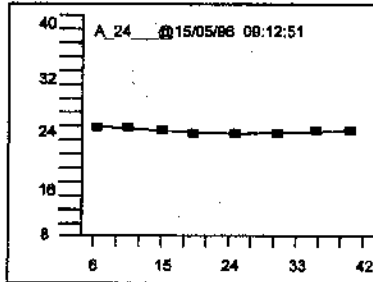
- Database Map
- Data Log Printout (Graphic Format)
- Data Log Printout (Text Format)

Sample Database Map

Table	"Operators"		
Field	op_id	Long Integer	Primary Key
	Name	Text * 20	
	Company	Text * 20	
	Address	Text * 20	
	City	Text * 20	
	State	Text * 2	
	ZipCode	Text * 10	
Table	"Notes"		
Field	no_id	Long Integer	Primary Key
	Note1	Text * 20	
	Note2	Text * 20	
	Note3	Text * 20	
	Note4	Text * 20	
	Note5	Text * 20	
Table	"Sweep"		
Field	sw_id	Long Integer	Primary Key
	Target_ID	Text * 7	
	DateTime	Date/Time	
	FreqControl	Byte	
	NominalLevel	Byte	
	UnitID	Byte	
	Freq1	Integer	
	Freq2	Integer	
	Freq3	Integer	
	Freq4	Integer	
	Freq5	Integer	
	Freq6	Integer	
	Freq7	Integer	
	Freq8	Integer	
	FreqLevel1	Byte	
	FreqLevel2	Byte	
	FreqLevel3	Byte	
	FreqLevel4	Byte	
	FreqLevel5	Byte	
	FreqLevel6	Byte	
	FreqLevel7	Byte	
	FreqLevel8	Byte	
	Name	Text * 20	
	Company	Text * 20	
	Address	Text * 20	
	City	Text * 20	
	State	Text * 2	
	ZipCode	Text * 10	
	Note1	Text * 20	
	Note2	Text * 20	
	Note3	Text * 20	
	Note4	Text * 20	
	Note5	Text * 20	

Sample Data Log Printout (Graphic)

SweepSaveR will only printout data logs which are contained in the scratch pad. In the sample below, the scratch pad contained only three data logs.



Sample Data Log Printout (Text)

SweepSaveR will only printout data logs which are contained in the scratch pad. In the sample below, the scratch pad contained only two data logs.

##) Log ID	Date/Time	Frequency	Level
01) A_24___	15/05/96 09:12:51	6.00 MHz	23.75 dBmV
		9.00 MHz	23.25 dBmV
		12.00 MHz	22.75 dBmV
		15.00 MHz	23.50 dBmV
		21.00 MHz	23.50 dBmV
		25.00 MHz	23.50 dBmV
		31.00 MHz	23.50 dBmV
		39.00 MHz	23.50 dBmV
02) A_26___	15/05/96 09:12:52	6.00 MHz	23.25 dBmV
		9.00 MHz	23.25 dBmV
		12.00 MHz	22.75 dBmV
		15.00 MHz	23.50 dBmV
		21.00 MHz	23.50 dBmV
		25.00 MHz	23.50 dBmV
		31.00 MHz	23.50 dBmV
		39.00 MHz	23.50 dBmV



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