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GENERAL INFORMATION



Introduction

Model One ToolBox is companion software for the **Model One Signal Level Meter**. It is designed to perform several support functions including:

- Configure the unit to a common set of parameters
- Manage data record uploads from the unit to a PC
- Display the contents of level data records in tabular and graph format

Configure – Model One ToolBox enables you to assemble a standardized profile of instrument settings. These parameters include a custom channel plan, type of modulation for each channel, and a “favorite” channel list. These settings can be saved so that they can be downloaded later to one or more Model One units.

Data Record Upload – The Model One Signal Level Meter is able to scan all of a system’s channel plan (or sections of it) and then store the carrier levels for later retrieval. Model One ToolBox enables you to upload the stored data records into files on your PC for later evaluation.

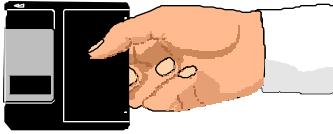
Data Display – Model One ToolBox includes a utility for displaying stored level records in tabular format or in multicolored graphs. This enables you to evaluate performance and detect performance problems quickly and easily. You may select several data records so that you can compare the graphs of each. User-settable markers can be used to simplify the numerical readout of on-screen data. Records in either format may then be printed.

System Requirements

In order to run Model One ToolBox, you need an IBM®-compatible computer with the following options:

- Pentium II or III, 300 MHz
- 32 Meg of RAM
- 5 Meg of Hard Drive space for installation
- A Windows compatible mouse
- CD-ROM Drive
- Color VGA Monitor with a resolution of 800 x 600 (or greater) and 256 Colors (or greater), using small or large font size (small font only with 800 x 600). The Windows System color map determines the color of the message boxes which appear.
- Windows 98 or higher, Windows NT 4 (service pack 3 or higher)
- Serial port for connecting the Model One Signal Level Meter.
- Data Cable (P/N 2071351000) to connect Model One Signal Level Meter to the PC (supplied with Model One ToolBox software kit)

Model One ToolBox is designed to work with the same setup you use for Windows 98. If your Windows setup works smoothly, you should have no difficulty running the software.



INSTALLATION PROCEDURES



Install Software

Now that you've checked the system requirements, you can install Model One ToolBox. The software is designed for PCs with Windows 98 or higher or Windows NT 4 (service pack 3 or higher).

To install the software, use the following procedure:

1. Turn ON your PC and let Windows load.
2. Insert the disk into the CD-ROM drive. If autorun is enabled, Windows will detect and launch the Model One ToolBox setup wizard.

If autorun is not enabled, go to **START**, select **RUN...**, type in the CD-ROM drive designation (i.e. **d:**), *click* **BROWSE** and locate the file **Setup.exe** on the CD. You may also go to Windows Explorer and *click* on the **Setup.exe** file from the CD.

3. Windows displays a prompt indicating that you are about to install Model One ToolBox. *Click* **OK** to continue.

NOTE: You may cancel the installation at any time by *clicking* on the **CANCEL** button.

4. By default, the software is installed in the folder:
C:\Program Files\Trilithic\Model One

If you wish to change the installation folder, enter the new location in the **FOLDER** box or *click* on the **BROWSE** button to navigate to a new folder.

When the desired folder is identified in the FOLDER box, *click* **NEXT**.

5. A progress bar displays the installation as files are copied, components are registered, etc.
6. Once the setup wizard is finished, it displays a popup window that indicates that Model One ToolBox was installed successfully.
7. *Click* **CLOSE** to complete the installation.

NOTE: If you are prompted to reboot your computer, do so before you start Model One ToolBox to ensure that all of the components finished installation.

8. When you are ready to use the program, go to **START, MODEL ONE**.

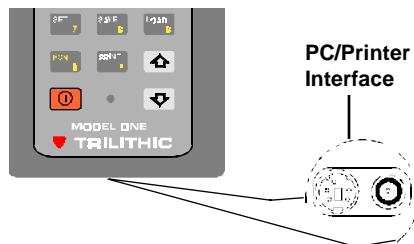
Troubleshoot the Installation

If you have difficulties installing Model One ToolBox, you will need to call Trilithic at (800-344-2412).

Connect Model One

In addition to installing the Model One ToolBox software on your PC, you need to connect the Model One Signal Level Meter to your PC.

Connect the Data Cable (P/N 2071351000) supplied with the Model One ToolBox software kit to the serial port of your computer and the PC/Printer Interface on the bottom of the unit.





OVERVIEW

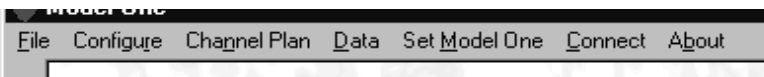
Introduction

This section provides an overview of Model One ToolBox's features.



Features

Model One ToolBox consists of several utility menus:



- FILE – contains EXIT command.
- Configure – use to set the COM port and select dB μ V or dBmV unit of measure (see *Configure* page 9).

- Channel Plan – Use to upload, edit and download channel plans from and to the Model One unit(s) (see *Select Channel Plan* page 17).
- Data – Use to view datalog records that have been uploaded and/or stored to the PC. This menu also contains the selections for viewing the datalog records in tabular or graphic format (see *Data Display* page 24).
- Set Model One – contains setup screens for utility settings such as the date and time, scan limits, unit of measure, scan mode, print command, volume, contrast, and frequency step. This menu also provides the means to set level 1 and level 2 lockouts. An information screen displays the serial number, battery voltage and temperature of the Model One Signal Level Meter (see *Set Model One* page 11).
- Connect – Use to verify the connection of the Model One Signal Level Meter to the PC so that you can use the Model One ToolBox's utilities to configure and upload data from the unit (see *Verify Connection* page 10).
- About – Contains information about Model One ToolBox.



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OPERATION

Introduction

In order to use Model One ToolBox to configure your Model One Signal Level Meter or upload data records, you must install the software on your PC (see *Install Software* page 5). You must also connect the Model One Signal Level Meter to your PC (see *Connect Model One* page 6).

Once the software is installed and the unit is connected to your PC, you may use Model One ToolBox and all its features.

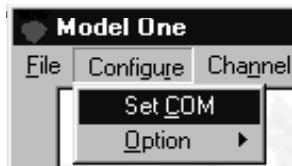
Set Model One Parameters

Model One ToolBox enables you to configure a number of your Model One Signal Level Meter’s parameters. These parameters include a custom channel plan, type of modulation for each channel, and a “favorite” channel list. Since you can “save” the parameters, you can configure more quickly one or several units using the same setup data.

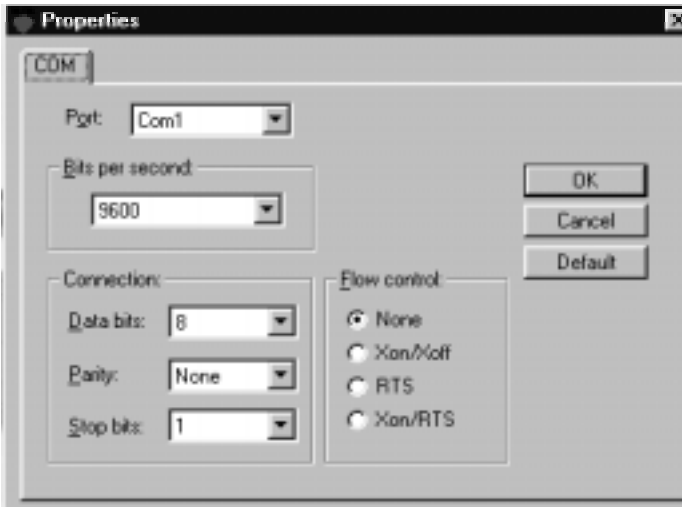
CONFIGURE

Before you can set up channel plans or upload data, you need to make sure the Model One unit is communicating with the Model One ToolBox. After you have connected the unit to the PC via the data cable (see *Connect Model One* page 6), turn the unit ON.

Go to the CONFIGURE menu.

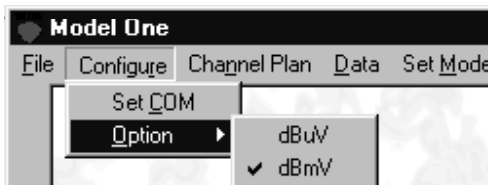


Select SET_COM.



Most systems use the default settings so you only need to *click* on **OK**. If you have questions regarding the default settings, please contact Trilithic at (800-344-2412).

You should also select which unit of measure you wish to use. Go to the CONFIGURE menu and select OPTIONS. Select either dBuV or dBmV. A check mark appears next to the desired setting.



VERIFY CONNECTION

To verify that the PC and the Model One are communicating, select CONNECT from the main menu.



After selecting CONNECT, there will be a delay of several seconds. If the PC and the Model One are communicating, you will get a popup box indicating that the connection is okay.

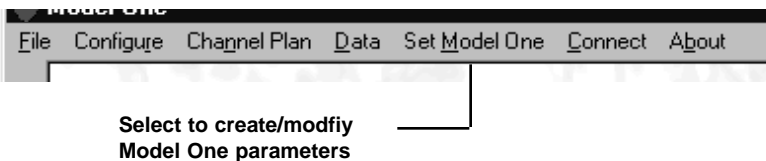


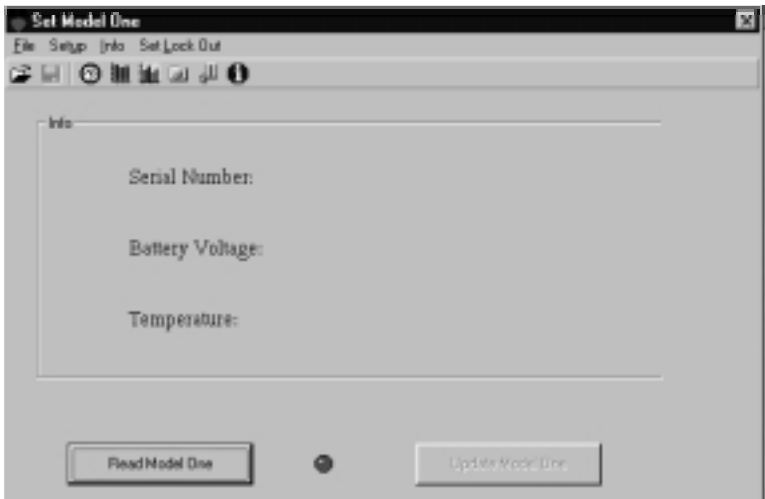
If you get an error message, make sure the Model One unit is turned ON and your data cable is connected to the serial port of your PC and the Model One unit.

If you continue getting an error message, go to the CONFIGURE menu, select Set_Com and try changing the port from COM1 to another (i.e. COM2). If connection still fails, contact Trilithic at (800-344-2412).

SET MODEL ONE

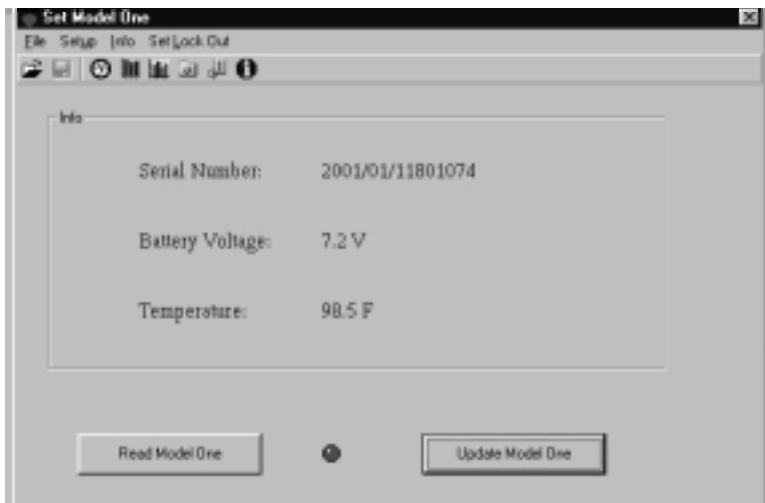
You may set the Model One Signal Level Meter's parameters (i.e. date/time) either from the unit's keypad or on your PC using Model One ToolBox. To set the parameters using your PC, select SET MODEL ONE from the main menu.





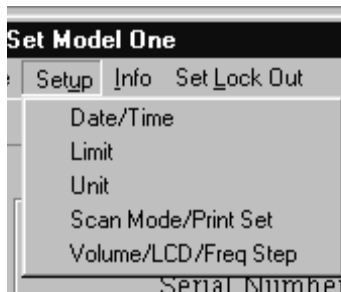
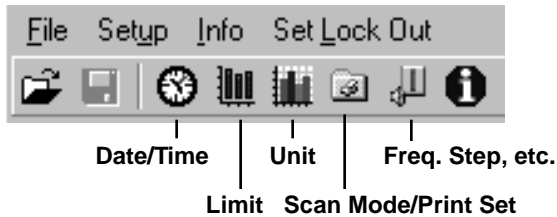
To upload existing information from the Model One, *click* on **READ MODEL ONE**.

NOTE: To download information to the Model One, *click* on **UPDATE MODEL ONE**.



Model One ToolBox reads the current data from the Model One unit such as its Serial Number, Battery Voltage and Temperature.

To set the various parameters, you can either use the SETUP icons located below the menu bar or select SETUP on the menu bar and then the desired setting.



REMINDER: With regard to the Model One’s parameters, you can either upload the existing information from the unit by *clicking* on the **READ MODEL ONE** button or make the desired settings in Model One ToolBox and download the data to the unit by *clicking* the **UPDATE MODEL ONE** button.



Set Date/Time

Click on the CLOCK icon or select DATE/TIME from the SETUP menu.



Click on each box to fill in the desired date and time.

You can also set the automatic shutoff for your Model One unit (the inactive time it waits before turning itself off) by selecting a value in the AUTO SHUTDOWN box. The inactive time interval includes: 3 minutes, 5 minutes, 10 minutes or 30 minutes. You may also choose to disable this function and turn the unit off manually by selecting OFF.

Once you have set the date, time and AUTO SHUTDOWN to your specifications, click on the **UPDATE MODEL ONE** box to download the data to the unit. This will take several seconds.

Set Limits

Click on the LIMITS icon or select LIMITS from the SETUP menu.



Limit

Limit Display

MIN VIDEO: 000 dBuV

MAX VID dB

MAX Delta V/A: dB

MIN Delta V/A: dB

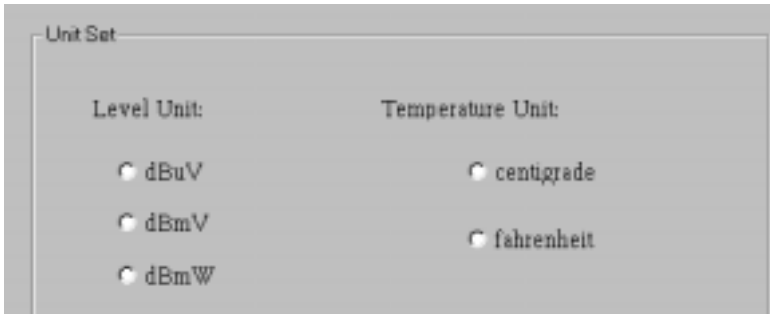
NOTE: The LIMIT screen will display either dBuV or dBmV depending on which unit of measure you selected in the CONFIGURE menu (see page 10).

Click on the boxes to add the desired limits data. For more information, refer to the *LIMIT SETUP* on page 25 of your *MODEL ONE OPERATION MANUAL*.

When the limits have been entered, click **UPDATE MODEL ONE**. It will take several seconds for the data to be downloaded to your unit.

Set Units

Click on the UNIT icon or select Unit from the SETUP menu to set the parameters for the signal level units and temperature units.



Click on the desired box in each unit list (for example dBmV in the LEVEL UNIT column and Fahrenheit in the TEMPERATURE UNIT column). For more information see *SIGNAL LEVEL UNITS* and *TEMPERATURE UNITS* on page 28 of your *MODEL ONE OPERATION MANUAL*.

Click **UPDATE MODEL ONE** to download the data to your unit. This will take several seconds.

Scan Mode/Print Set

Click on the SCAN MODE/PRINT SET icon or select SCAN MODE/PRINT SET from the SETUP menu to set the scan mode and the print options.

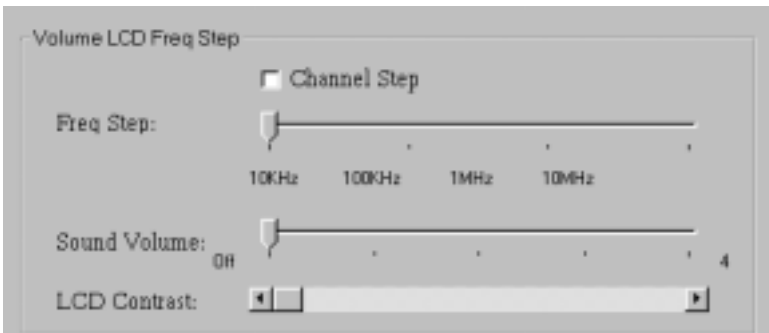


Click on the desired box in each unit list (for example SCAN ENABLED and PRINT SCREEN). For more information see *PRINTER SETUP* on page 22, *SCAN ENABLED* and *SCAN AUDIO* on page 24 of your *MODEL ONE OPERATION MANUAL*.

Click **UPDATE MODEL ONE** to download the data to your unit. This will take several seconds.

Volume/LCD/Frequency Step

Click on the FREQUENCY STEP/SOUND VOLUME/LCD CONTRAST icon or select VOLUME/LCD/FREQUENCY STEP from the SETUP menu to set the parameters for volume, LCD and frequency steps.



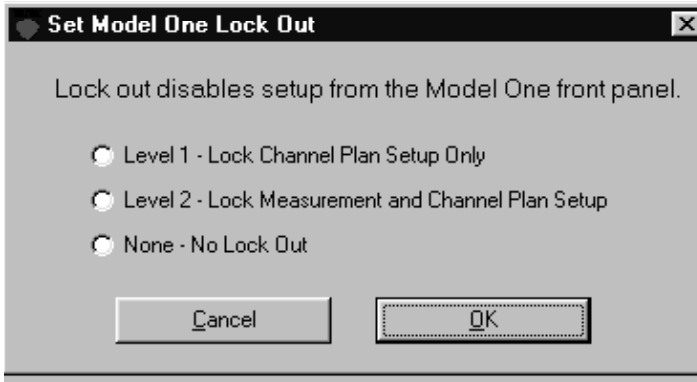
Adjust the slide bar for each setting to the desired value (for example slide the FREQ STEP bar from 10 kHz to 1 MHz). For more information, see *FREQUENCY TUNING STEP* on page 27, *VOLUME* on page 22 and *LCD CONTRAST* on page 19 of your *MODEL ONE OPERATION MANUAL*.

Click **UPDATE MODEL ONE** to download the data to your unit. This will take several seconds.

Set Model One Lockout

You have the option to disable the Model One Signal Level Meter's SETUP feature so that its parameters cannot be changed from the unit's keypad. You may disable the Channel Plan setup alone or the Channel Plan setup and measurements. This can be useful if you wish to maintain tamper-resistant channel plans and measurement parameters in the field.

Select SET LOCKOUT from the SET MODEL ONE menu.

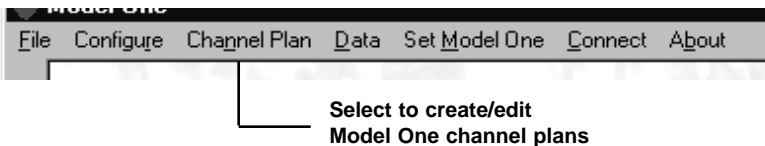


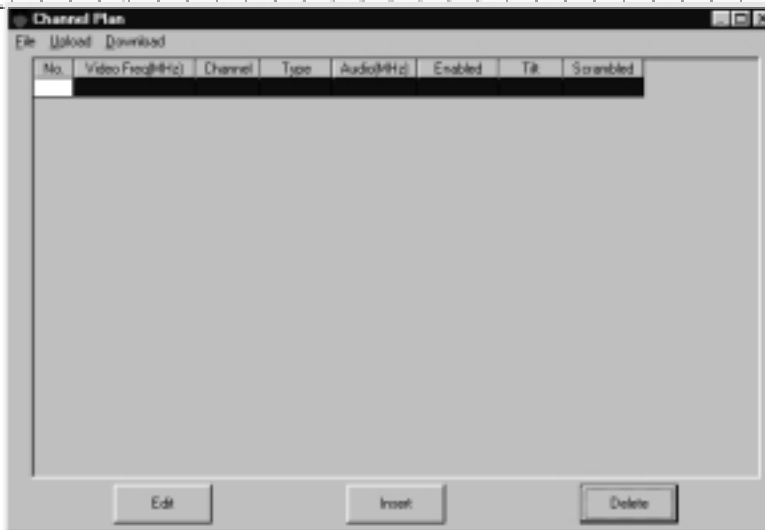
Select the desired lockout setting and then *click* **OK**.

SELECT CHANNEL PLAN

Model One ToolBox enables you to upload, edit and download channel plans from and to the Model One Signal Level Meter.

To enter the Channel Plan function, select CHANNEL PLAN from the main menu.





The Channel Plan feature enables you to create new channel plans, open existing channel plan files from your PC or upload existing channel plans from your Model One unit. The Channel Plan screen contains three menu items:

- **FILE** – includes NEW, OPEN, SAVE and CLOSE commands.
- **UPLOAD** – use to transfer an existing channel plan from the Model One unit to the PC.
- **DOWNLOAD** – use to transfer a new or edited channel plan from the PC to the Model One unit.

The center part of the Channel Plan screen displays the components of the channel plan.

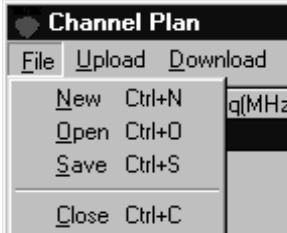
At the bottom of the screen are the function buttons:

- **EDIT** – use to modify the displayed channel plan.
- **INSERT** – use to add new channel plan data to the displayed channel plan.

- DELETE – use to delete data from the displayed channel plan.

FILE Operation

The Channel Plan FILE menu contains several functions:



NEW

Use this command to create a new channel plan in Model One ToolBox.

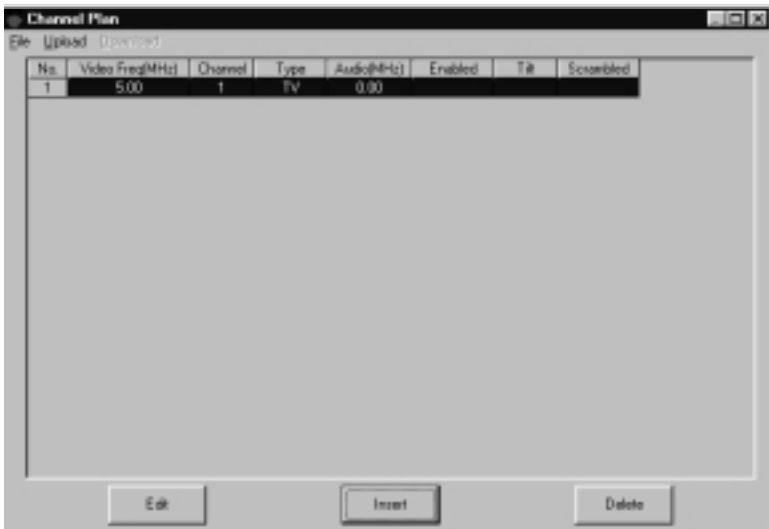
NOTE: When you open the CHANNEL PLAN screen the first time, it displays a NEW screen so it is not necessary to use the NEW command.

After selecting NEW, *click* on the **INSERT** button. This will enable you to add parameters to each desired channel in the channel plan you are building.



NOTE: For more information on building a channel plan, see *CHANNEL PLAN DISPLAY* on page 29 of the *MODEL ONE OPERATION MANUAL*.

For each channel, enter the Channel Number, Video Frequency (MHz), Audio Offset (MHz) and the Type (TV, SIGL, or DIGI). You may also Flag the channel (enabled, tilt or scrambled). Once the data is entered, *click* on **OK**. Model One ToolBox will return to the CHANNEL PLAN screen and the entered data will now be displayed.

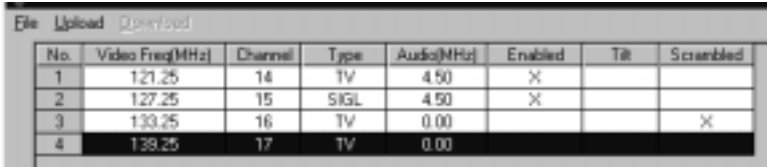


Click on **INSERT** again. It will bring up the channel entry screen. Repeat the procedure above to add the next channel into the channel plan.

NOTE: Once channels are listed, if you find you made an error, *click* the **EDIT** button to access the edit screen. Use the **PREV CHAN** and **NEXT CHAN** buttons at the bottom of the screen to cycle to the channel you wish to correct.



As you add channels, the table in the CHANNEL PLAN will resemble the following:



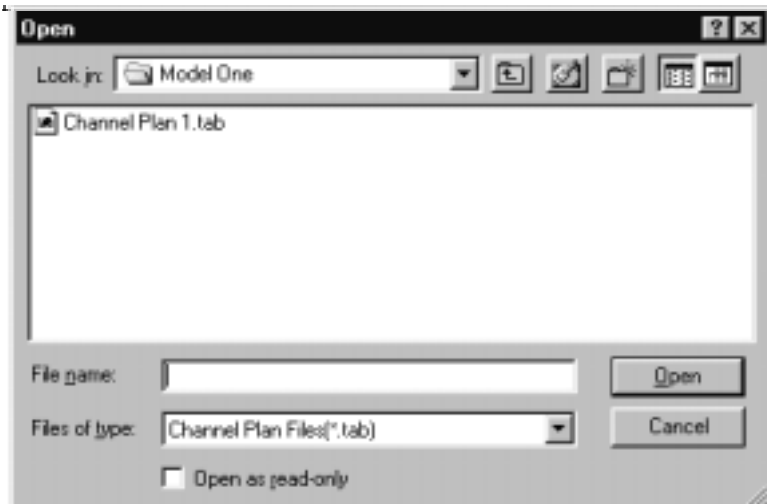
No.	Video Freq(MHz)	Channel	Type	Audio(MHz)	Enabled	Tilt	Scrambled
1	121.25	14	TV	4.50	X		
2	127.25	15	SIGL	4.50	X		
3	133.25	16	TV	0.00			X
4	139.25	17	TV	0.00			

Once you have the channel plan created, you can either save it (see *SAVE* page 22) or download it to the Model One unit (see *DOWNLOAD CHANNEL PLAN* page 23).

NOTE: When you have finished inserting or editing the channel plan, *click* on the VIDEO FREQ (MHz)_ column header. This will arrange the frequencies in the channel plan in order.

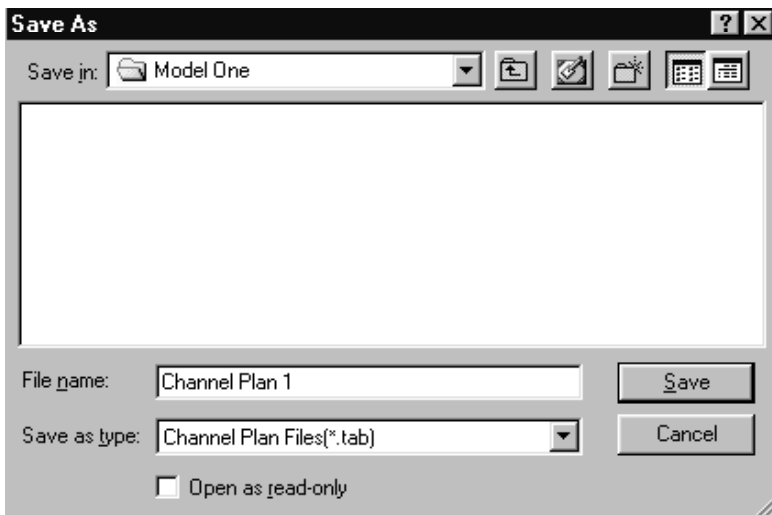
OPEN

If you wish to open an existing channel plan which is saved to your PC, select this option. Select OPEN from the FILE menu. A standard OPEN window is displayed. Select the desired file from the directory in which channel plan files are saved. Once the desired file is highlighted, *click* **OPEN**.



SAVE

After you have created or edited a channel plan, use this command to save a displayed channel plan to a file on the PC. Select SAVE from the FILE menu. A standard SAVE window is displayed. Select the directory to which you want the file to be located, assign a name to the file and then *click* **SAVE**.



CLOSE – use this option to close the CHANNEL PLAN screen and return to Model One ToolBox’s main screen.

UPLOAD Operation

If you wish to edit a channel plan that is already installed in the Model One Signal Level Meter or use it as a master channel plan for other Model One unit’s, you may use the UPLOAD feature of Model One ToolBox.

Connect the Model One unit to the PC (see *CONNECT MODEL ONE* page 6). Turn the unit ON. Open Model One ToolBox. Make sure the unit is configured (see *CONFIGURE* page 9). Verify the connection by selecting CONNECT on the main menu (see *VERIFY CONNECTION* page 10).

Once you have verified that the Model One and PC are communicating, select CHANNEL PLAN from the main menu. Now, select UPLOAD in the CHANNEL PLAN screen's main menu.



A status bar indicates the progress of the upload. This takes several seconds.



Once the upload is completed, the channel plan from the Model One is displayed on the CHANNEL PLAN screen. *Click* on the **OK** button in CHANNEL PLAN UPLOAD COMPLETE box. Now you may modify the channel plan using the **EDIT** and **INSERT** buttons or download it (see *DOWNLOAD OPERATION* below) to other Model One units.

DOWNLOAD Operation

After you have created or modified a channel plan, you can download it from Model One ToolBox to a Model One Signal Level Meter.

Connect the Model One unit to the PC (see *CONNECT MODEL ONE* page 6). Turn the unit ON. Open Model One ToolBox. Make sure the unit is configured (see *CONFIGURE* page 9). Verify the connection by selecting CONNECT on the main menu (see *VERIFY CONNECTION* page 10).

Once you have verified that the Model One and PC are communicating, select CHANNEL PLAN from the main menu. Now, select DOWNLOAD in the CHANNEL PLAN screen's main menu.



Model One ToolBox will display a box reminding you that downloading a channel plan will erase the existing channel plan and any datalog records in the Model One unit. To proceed, *click* the **YES** button.

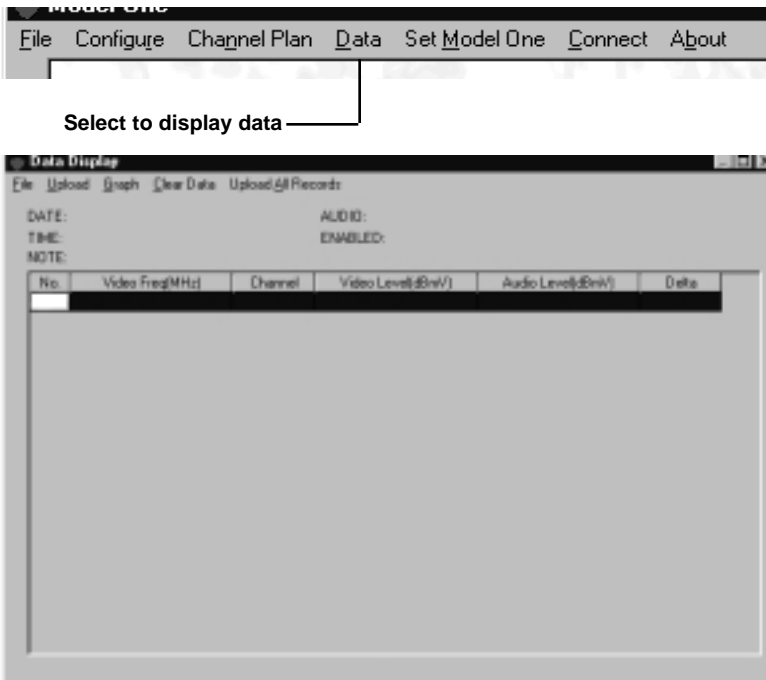
A status bar indicates the progress of the download. This takes several seconds.



Once the download is completed, your Model One unit will have the new channel plan installed.

Data Display

Model One ToolBox enables you to display datalog records in tabular (text) or multicolored graphic format. To open the DATA DISPLAY window, select DATA from the main menu.



The DATA DISPLAY window contains several functions:



- FILE – includes NEW, OPEN, SAVE, PRINT and CLOSE commands.
- UPLOAD – use to transfer a single datalog record from the Model One unit to the PC.
- GRAPH – use to display data in graphic format.
- CLEAR DATA – use to delete all of the datalog records in the Model One Signal Level Meter
- UPLOAD ALL RECORDS – use to upload the datalog records from the Model One unit to the PC.

FILE MENU OPERATION

Model One ToolBox enables you to upload datalog records (see *UPLOAD OPERATION* page 27) from your Model One unit as well as open datalog records which you have saved previously to your PC. You can display these records in tabular or graphic format and then print the displayed results or save them for further review.

When you first open the DATA window, Model One ToolBox displays a blank or new table form.

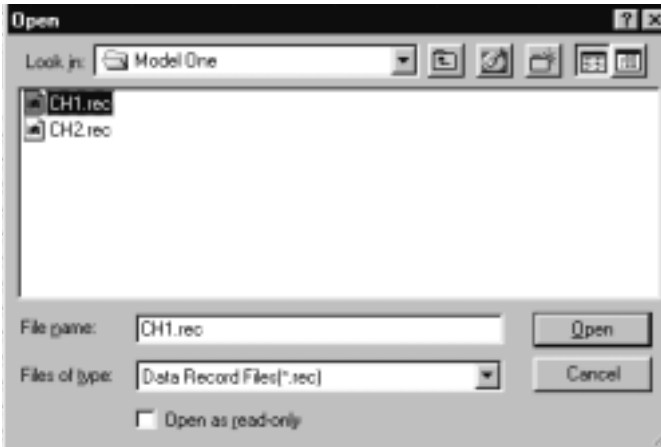
New

Use the NEW command to clear the current data display so that you can open or upload a new datalog record.

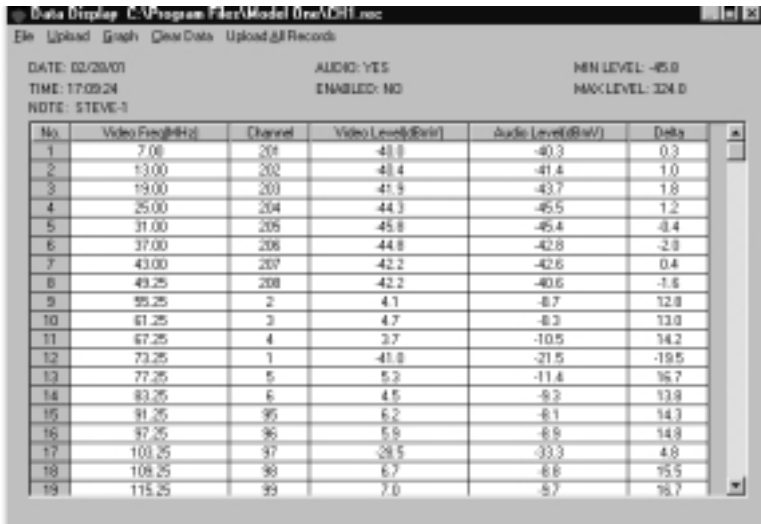
Open

If you have saved a datalog record to your PC, you may open it for review. Select OPEN from the FILE menu. A standard OPEN window is displayed. Select the desired file from the directory in which datalog record files are saved.

Once the desired file is highlighted, *click OPEN.*



The DATA window will display the records from the datalog record file in tabular format. You may also display the data in a graph format (see *GRAPH* page 28).

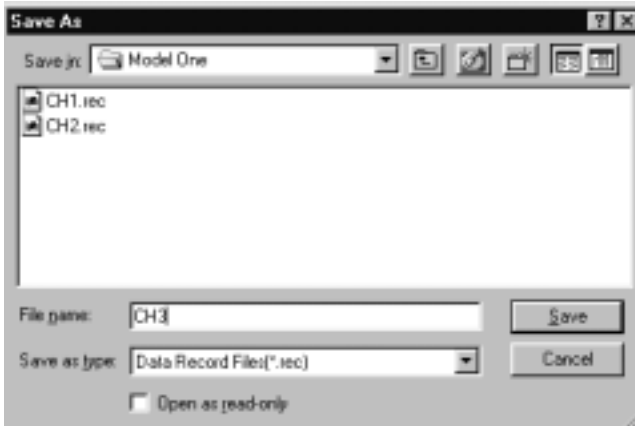


No.	Video Level (dBmV)	Channel	Video Level (dBmV)	Audio Level (dBmV)	Delta
1	7.00	201	-41.0	-40.3	0.3
2	13.00	202	-41.4	-41.4	1.0
3	19.00	203	-41.9	-43.7	1.8
4	25.00	204	-44.3	-45.5	1.2
5	31.00	205	-45.8	-45.4	-0.4
6	37.00	206	-44.8	-42.8	-2.0
7	43.00	207	-42.2	-42.6	0.4
8	49.25	208	-42.2	-40.6	-1.6
9	55.25	2	4.1	-8.7	12.8
10	61.25	3	4.7	-8.3	13.0
11	67.25	4	3.7	-10.5	14.2
12	73.25	1	-41.8	-21.5	-19.5
13	77.25	5	5.2	-11.4	16.7
14	83.25	6	4.5	-8.2	13.8
15	91.25	95	6.2	-8.1	14.3
16	97.25	96	5.9	-8.9	14.8
17	103.25	97	-28.5	-33.3	4.8
18	108.25	98	6.7	-8.8	15.5
19	115.25	99	7.0	-8.7	16.7

Save

To save the datalog record currently displayed to your PC, select the SAVE command from the FILE menu. A standard SAVE window is displayed.

Select the directory to which you want the file to be located, assign a name to the file and then *click* **SAVE**.



Print

You may print the tabular form of the datalog record. Select PRINT from the FILE menu. You may also print the graph display (see *GRAPH* page 28).

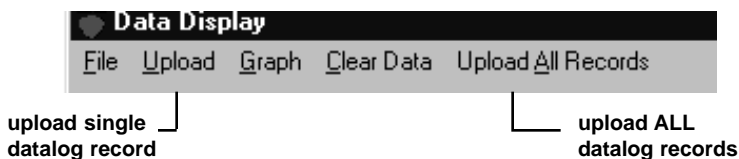
Close

Use this command to close the DATA display screen and return to Model One ToolBox's main screen.

UPLOAD OPERATION

Model One ToolBox enables you to upload a single datalog record as well as all of the datalog records contained in the Model One Signal Level Meter.

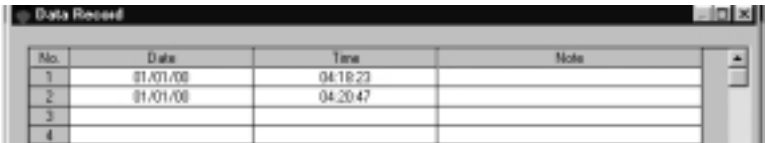
To upload a single datalog record, select UPLOAD in the DATA DISPLAY screen. To upload all datalog records, select UPLOAD ALL RECORDS.



When you wish to load a single datalog record, select **UPLOAD** from the menu.



A blank field screen is displayed. *CLICK* on the **LOAD INFO** button. The available datalog records contained in the Model One unit will be displayed.



Select the desired datalog record and then *click* **OK**. The data will be uploaded and displayed.

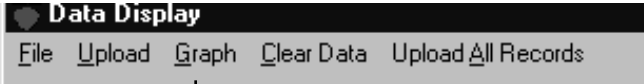
GRAPH

Model One ToolBox enables you to display the datalog record in a multicolored graph format as well as in tabular (see *OPEN* page 25).

NOTE: You may display up to five datalog record graphs in order to compare them.

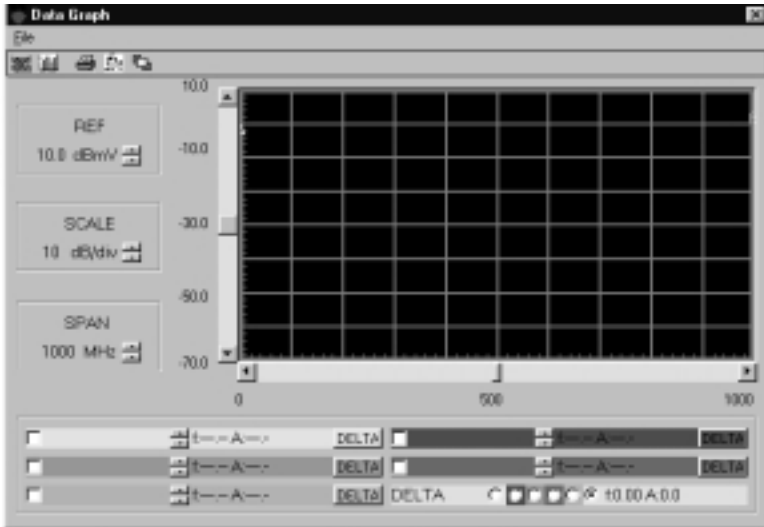
You may open a saved datalog record in the GRAPH display window. If you have uploaded a datalog record (see *UPLOAD OPERATION* page 27) or opened a previously saved datalog record (see *OPEN* page 25) in the tabular DATA display window, you may also change the display to a graphic format.

In either case, select GRAPH on the DATA DISPLAY menu to go to the multicolored GRAPH display window.



select to display
datalog record
as a graph

If you select GRAPH from the DATA DISPLAY menu bar and haven't opened a datalog record previously, the GRAPH display will be empty.

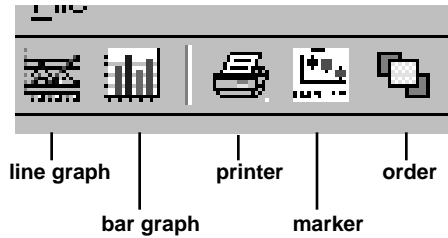


If you have already opened a datalog record in the tabular display format, it will be displayed as a bar graph initially.

Graph Display Overview

The GRAPH display contains several areas/components.

At the top of the display, are several icons:



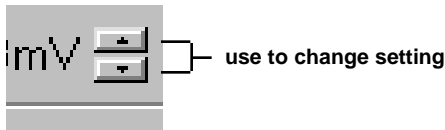
- LINE graph – displays data in line graph format
- BAR graph – displays data in bar graph format
- PRINTER – use to print graph
- MARKER – available in LINE graph only, it is used to place a mark at data points
- ORDER – use to toggle the layers of the displayed graphs (i.e. move Graph 1 behind Graph 2)

On the left side of the graph are the display blocks:



- REF – determines which level is full scale.
- SCALE – enables you to select the desired dB per division (settable to 1dB, 2dB, 5dB or 10dB)
- SPAN – determines how much frequency span is displayed (settable in a 1, 3 format - 10 MHz, 30 MHz, 100 MHz, 300 MHz, 1000 MHz)

Use the small UP/DOWN arrows beside each display block to change the setting.



Below the GRAPH display, is a slide bar which controls the frequency at the center of the screen.



Along the bottom of the display window are six colored bars.



Bars 1 through 5 (yellow, green, blue, red, purple) are used to open/display datalog records.

NOTE: You may display up to five datalog records for comparison at any time.

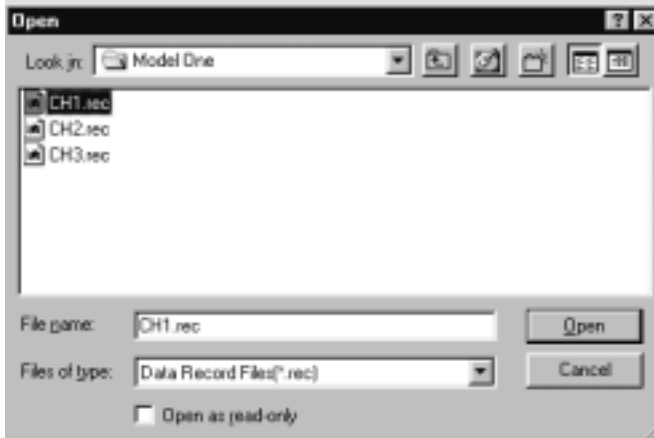
The 6th bar (gray) is the Delta bar. It contains six colored circles which correspond to the bar colors and is used to set the reference point for comparing the graphs (see *DELTA COMPARISON* page 34).

Each graph displays a triangle marker (color coded to each graph). Use the UP/DOWN arrows beside each color bar to change the marker's position. The value is displayed in the bar.

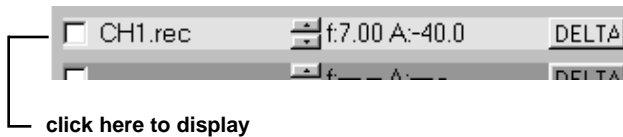
Open Datalog Record

If you have not already opened a datalog record (see *OPEN* page 25 or *UPLOAD OPERATION* page 27), you will need to import one into the GRAPH display.

Double-click on any of the colored bars at the bottom of the GRAPH display. This opens a standard OPEN window.

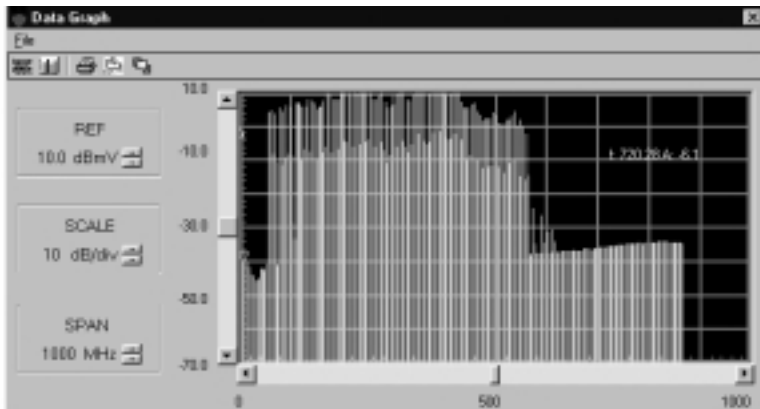


Select the desired file and *click OPEN*.



The file name will appear in the selected color chart. To display the data in the GRAPH, *click* on the small box to the left of the file name.

The datalog record will be displayed in a BAR graph format (see *CHANGE DISPLAY* page 33) if you prefer to view the data in a LINE graph).



As you move the cursor around the display area, you will see a white numeral. This number indicates the frequency and amplitude of the cursor's position.

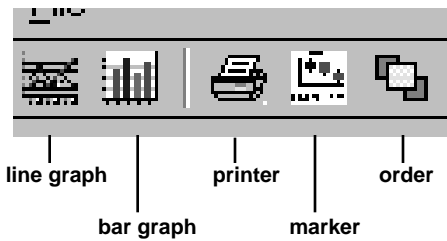


Repeat the procedure to open more datalog records

REMINDER: You may display up to five graphs at any time.

Change Display

The default GRAPH display for Model One ToolBox is the BAR graph. To change the display to a LINE graph, *click* on the LINE GRAPH icon.



REMINDER: If you are displaying more than one datalog record, you may change the order by *clicking* on the ORDER icon (for example, you may prefer to display the blue record on top of the yellow).

When the datalog records are displayed in the LINE graph, you may mark the data points of the display. *Click* on the MARKER icon. Colored squares (which correspond to the color bar for the specific datalog record) appear at all data points.



To turn off the data points, *click* on the MARKER icon again.

To return to the BAR graph display, simply *click* on the BAR GRAPH icon.

Delta Comparison

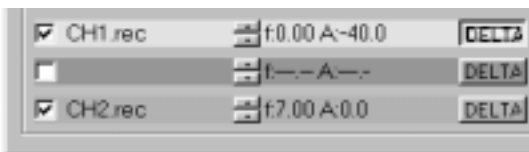
Model One ToolBox enables you to select a reference point so that you can compare one or more graphs to it. You may do this by making the marker for one of the datalog records the reference point or by selecting a reference amplitude and frequency point via the cursor's marker.

To use one of the datalog records as the reference, *click* on the corresponding DELTA circle.



blue graph used as reference

To compare one or more graphs to the selected graph's reference, *click* on the **DELTA** button to the right of the datalog record's color bar.

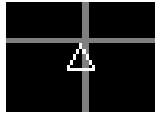


blue graph used as reference

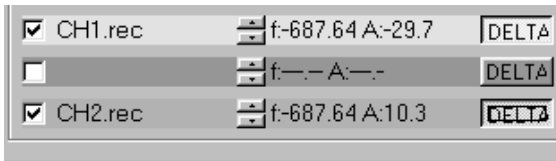
click DELTA to compare to reference

In the example on page 34, CH1.rec's marker is 0.00 MHz and – 40 dB from CH2.rec's marker (reference).

You may also designate a reference point to which to compare all of the datalog records. Point the cursor at the desired point on the display and then *right click* with the mouse. The cursor becomes a fixed point (indicated by a white triangle). You may change the location by *left click* of the mouse anywhere on the display.



To compare one or more graphs to the DELTA reference, *click* on the **DELTA** button to the right of the datalog record's color bar.



In the example above, CH1.rec's marker is 687.64 MHz and – 29.7 dB from the reference while CH2.rec's marker is 687.64 and 10.3 dB from the reference.

CAUTION: Once you have activated the cursor reference, it can be repositioned as desired but it remains active until you exit Model One ToolBox.

When you are finished, you may exit the GRAPH display screen by selecting CLOSE in the FILE menu.

Print Graph

You may print any of the GRAPH displays at any time. *Click* on the PRINT icon.

CLEAR DATA

When you have finished uploading the datalog records into Model One ToolBox, you may wish to delete the data from the Model One Signal Level Meter. Select CLEAR DATA from the DATA DISPLAY menu. This process shows a status bar and takes several seconds.



MODEL ONE

***TOOLBOX
SOFTWARE***

**OPERATION
MANUAL**



TRILITHIC

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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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