



# AlphaMate

*Operating Instructions*





## TABLE OF CONTENTS

SECTION	PAGE
I. DESCRIPTION OF THE AlphaMate	1
1. Introduction	1
2. Controls, Indicators and Connectors	1
A. Front Panel	1
B. Left Side Panel	6
C. Right Side Panel	6
D. Bottom Panel	6
E. Rear Panel	6
F. External AC Adaptor	7
G. Modular Line Cord	7
II. PLACING THE AlphaMate	8
1. Operating Environment	8
2. Selecting a Location	8
3. Setting Up The AlphaMate	8
III. OPERATING THE AlphaMate	15
1. Sending Pages	15
2. Operating the Function Keys	17
A. RECALL Key	17
B. PAGE DIR (pager directory)	17
C. COMM (communication mode)	18
D. FILES Key	18
E. RS232 Mode	20
F. TEL DIR (telephone directory)	20
3. Other Displayed Messages	21

- **Files** - Allows access, editing, deleting, etc. of files.
- **Brk** - Breaks the communication link between the unit and some remote/local terminals. Brk operates only in the Comm or RS232 mode.
- **RS232** - Allows the unit to be used as a local 'dumb' terminal. It also allows the option of local connection to a paging terminal.
- **Tel Dir** - Allows you to review, delete, modify and add an entry to the Telephone Directory.
- **Quit** - Terminates the current operation and brings the unit back to the 'rest state'. In this state, it displays **Select Operation** as well as the amount of memory available to the user for the various functions.
- **On** - Turns ON AlphaMate.
- **Off** - Turns OFF AlphaMate.

(b) **Control Keys.** - **Caps Lock**, **Shift**, **Back Space**, **Tab**, **Enter**, **Ctrl**,  $\Rightarrow$ ,  $\Leftarrow$ ,  $\Downarrow$ , and  $\Uparrow$ .

- **Caps Lock** - This key locks the letter keys into upper case while leaving the other keys unaffected. This key is toggle action - it is possible to change to lower case mode by striking this key once and then back to upper case mode by striking this key again. AlphaMate is in upper case mode or **Caps Locked** when it is turned on.
- **Shift** - Capital letters and all symbols marked as superscripts on the keys can be typed by pressing the appropriate key together with one of the **Shift** keys.
- **Back Space** - The **Back Space** key is used to delete a character to the left of the



cursor. An entire sentence may be deleted by pressing and holding the **Back Space** key until the sentence is deleted.

- **Tab** - Generates 8 blank characters at a time; as if you pressed the space bar eight times.
- **Enter** - Upon pressing this key, the entry shown on the display will be accepted. When in the **RS232**, **Files** (Edit), and **Comm** modes, this key enters a computer carriage return character.
- **Ctrl** - The symbol " ^ " stands for the **Ctrl** (Control) key, which is located on the right-hand side of the keyboard. The **Ctrl** key is always used in conjunction with another key. Like a **Shift** key, the **Ctrl** key must be held down while the other key is pressed. Unlike the **Shift** key, though, the code sent by the **Ctrl** key does not register on the display. Control sequences (**Ctrl**) are mainly used by the unit's editor when working with the **Files** function or when using **Comm** operation to a remote computer system.
- $\rightarrow$  ,  $\leftarrow$  ,  $\downarrow$  ,  $\uparrow$  - These are the arrow keys at the lower part of the keyboard. These are cursor-positioning keys and are frequently used in selecting a directory entry. They also provide an opportunity to correct typing mistakes by moving the cursor to the wrong character and re-typing the correct character. The window through which the user is reading the text moves in the direction of the  $\uparrow$  or  $\downarrow$  arrows; the cursor moves in the direction of the  $\rightarrow$  or  $\leftarrow$  arrows.

(2) **Display.** The 40-character, alphanumeric Liquid-Crystal Display (LCD) provides a visual display of all information entered from the keyboard, along with message prompts to assist in any keyboard operations.

## **B. Left Side Panel**

The left side panel contains the volume control for the AlphaMate. This control adjusts the sound from the unit's built-in speaker. To increase the volume level, rotate the thumbwheel toward the rear of the unit.

## **C. Right Side Panel**

The right side panel contains the contrast control for the AlphaMate's LCD display. This control adjusts the contrast level of the display to match your viewing angle. To increase the contrast level, rotate the thumbwheel toward the rear of the unit.

## **D. Bottom Panel**

The bottom panel contains the built-in speaker. The area under the AlphaMate unit must be kept clear to properly hear the speaker.

## **E. Rear Panel**

The following are located at the rear of the AlphaMate (see Figure 2):

- **DC 9V jack.** The external AC adaptor is connected to the AlphaMate through this jack.
- **PHONE LINE modular RJ11C jack.** This jack connects the AlphaMate to telephone circuitry, allowing the AlphaMate to use the telephone line.
- **MODE SWITCHES.** At the back of the unit, under a protective cover, there are four small switches for setting the signalling mode and the modem mode. On the left side of the back panel is a chart showing the correct settings for these switches.

**NOTE: These switches are pre-set at the factory as follows:**



- Switch 1 "UP" for originate
- Switch 2 "DOWN" for Touch Code (DTMF) dialing
- Switch 3 "UP"
- Switch 4 "DOWN"

If changes in the settings are required, refer to Section II, paragraph 3.c.

- **ACOUSTIC** Coupler socket. This 5-pin DIN socket is used to connect an acoustic coupler, allowing use of the AlphaMate with a telephone set where a direct connection to the telephone network is not possible or not permitted. (See Section I.5 of the User's Guide 68P81000B65).
- **PRINTER** socket. This 5-pin DIN socket is used to connect a printer to the AlphaMate's serial printer interface. (See Section I.4 of the User's Guide 68P81000B65).
- **EIA RS232C** jack. Allows the user to connect the AlphaMate directly to a paging terminal or to a computer. (See Section IX of the User's Guide 68P81000B65).
- **TELEPHONE** modular RJ11C jack. This jack allows for connection of the user's telephone to the AlphaMate.

#### **F. External AC Adaptor**

A plug-in type external AC adaptor is used to provide the AlphaMate with power via the **DC 9V** jack located on the rear panel of the unit.

#### **G. Modular Line Cord**

A 10 foot cord to allow the connection of AlphaMate to the local telephone line.

## II. PLACING THE AlphaMate

### 1. Operating Environment

The AlphaMate system is designed to operate in an indoor office environment. Ambient air temperature should be between 0<sup>0</sup> and 50<sup>0</sup> C (32<sup>0</sup> - 122<sup>0</sup> F).

### 2. Selecting A Location

The AlphaMate unit should be placed on a hard, flat, level surface at desk-top height. Overhead lighting is best for optimum LCD contrast. The AlphaMate must be located so that the external AC adaptor cord can easily reach between the unit's DC 9V jack and a 110 Vac power outlet. Also, the location should have ready access for the telephone line connection.

### 3. Setting Up The AlphaMate

(Refer to Figures 1 and 2)

Setting up your new AlphaMate is easy. After removing the unit from the box, perform the following steps:

(a) Remove the cover from the battery compartment (located on the rear of the AlphaMate) by depressing the locking tab in the direction of the arrow.

(b) Insert the four AA (1.5 V) alkaline batteries according to the diagram on the rear panel of the AlphaMate. **NOTE:** The memory content will only be retained if the batteries are inserted with the proper polarity.

**CAUTION:** Do not use rechargeable nickel cadmium batteries.

The installed batteries require replacement whenever the **Low Battery** message appears on the display. If the batteries are to be replaced the AC power must be applied (unit turned off) to prevent the memory content from being lost. The batteries should be replaced annually.



NOTE: When removing the battery compartment cover, do not lose the protective cover for the mode switches. The protective cover should be in place before replacing the battery-compartment cover.

(c) If the AlphaMate is to be used for **Pulse Dialing** perform the following procedure:

- (1) Remove the mode switch cover (located under the battery compartment) by sliding it upward (battery compartment cover must be removed).
- (2) Set the Signal mode and Modem mode switches located under the mode switch cover. Switch 1 should be up for paging operations. Switch 2 should be down if you have Touch Code dialing, and up if you have rotary (pulse) dialing. Switches 3 and 4 will need to be set only if you have rotary dialing. If the unit is being operated in the U.S., switch 3 should be set in the "UP" position and switch 4 should be set in the "DOWN" position.

(In other countries, the switches should be set according to the requirements of your telephone system).

In countries where CCITT V.21 MODEM standards are used or where automatic redialing is not permitted, internal jumpers may need to be changed. Please contact your service representative to make this change.

- (3) Replace the mode switch cover by sliding it downward into the slot and replace the battery cover by snapping it into the proper position.

(d) Plug the transformer into the wall and then plug the other end into the **9V DC** jack located on the rear panel of the AlphaMate.



(e) If you have modular telephone jacks, unplug your telephone cord from the wall socket and plug the cord into the AlphaMate at the connector labelled **TELEPHONE** so that you may use your phone and receive incoming calls. Using the phone cord provided with AlphaMate, connect it to the wall socket from the connector labelled **PHONE LINE**.

If your telephone system does not have modular connectors, you can install an RJ11C wall jack or adaptors purchased from a phone store. If local regulations prevent you from direct connection to the phone lines, you will need the optional acoustic coupler. Simply plug the acoustic coupler in and you are ready for operation using your telephone.

(f) To complete the setting-up process, AlphaMate needs to be told about your paging system and your paging requirements. To accomplish this perform the following:

(1) Activate AlphaMate using the **ON** key. For optimum viewing, you may adjust the contrast of the display with the contrast control on the right side of the unit. AlphaMate will undergo a self-test and respond with the '**Select Operation**' prompt, reporting the number of available characters in memory.

**NOTE:** If the power has been interrupted and the unit was without battery back-up, the AlphaMate may display '**System Error**' and prompt '**Clear all Memory (N/Y)? N**'. If this happens, respond '**Y**' (Yes).

(2) Select the Set-Up mode with the **Set Up** key. The set-up sequence will be as follows:

**NOTE:** To select the default option (shown on the display, to the right of the prompt) press the **Enter** key. If the default option is not desired, enter the chosen option and press the **Enter** key.



- **'Enter Default Paging Tel #'**. This stores the telephone number of the paging center which you most often call. Press the **Enter** key to skip this prompt or enter the telephone number and press **Enter**. The telephone number is limited to 23 digits in length. The characters entered must either be numeric or a combination of numeric and the five special characters (**@,+ ,S ,/ ,\***), other characters are not accepted. These special characters have the following meanings:

**@** - This character can be placed at any position in the string. This gives an exchange-line access-pause of 2 seconds. This pause is needed when the unit is connected to an extension outlet from a PBX (Private Branch Exchange) system.

**+** - This character can be placed at any position in the string. When this character is encountered, dialing will not continue until the **Enter** key is pressed. This allows additional pause time.

**S** - If you only access one paging center, you can put the character 'S' in front of the telephone number. By doing so you will not be asked to input a telephone number when you initiate a page.

**/** - This indicates that the page number is the same as the telephone number.

**\*** - This indicates a direct connection is made and no telephone number is to be dialed.

- **'Enter Password, If Any'**. Some terminals require a password to be entered to send alphanumeric pages. Supplying the password here will permit the AlphaMate to automatically enter



the password during the paging sequence (immediately following the default telephone number). If the default telephone number is correct, the telephone number and password can both be input by pressing the **Enter** key.

- **'Maximum Page Length (10-2000)? 0080'**. Although AlphaMate can compose and store messages up to 2000 characters long, most terminals and pagers can only accept pages of much shorter length. This step permits you to set and adjust the maximum length of message that your terminal and/or pagers will accept to prevent the loss of portions of messages.
- **'Change Operational Parameters (N/Y)? N'**. Normally you may press **Enter** at this point of the set up procedure. This would allow the AlphaMate to operate with its established default parameters.

**NOTE:** The AlphaMate has been preset to match paging terminals using a standardized automatic protocol (protocol is a set of conventions governing the format and control of inputs and outputs between two communicating processes, including handshaking and line discipline). The protocol for all automatic paging operations (that is all operations using the **Page** or **Recall** function keys) cannot be changed.

The protocol for all operations controlled by the **Comm** or **RS232** keys has been preset to match most paging terminals and most dial-in on-line computer terminals. If you cannot communicate with another system which has a matching MODEM (Bell 103 equivalent or optionally CCITT V.21), you may wish to change some of the communication parameters. You should note that you may also have to change them back if you



communicate with other computer systems which use the default (preset or recommended) settings. To enter this phase of the set up, press 'Y'.

If you have already set up the AlphaMate, the following steps may be skipped by answering 'N' to this prompt. If you have any questions about what the following values should be, consult the representative of the paging system or computer you wish to communicate with.

- **'Reset the System (N,Y)? N'**. The reset is required to clear the system in case of problems, and is not needed at this time. Please respond 'N'.
- **'Enter (1=Half Duplex, 2=Full Duplex)? 2'**. Almost all paging terminals or computer systems will use the default value of '2' (Full Duplex). Press **Enter**.
- **'Data Word Format (1-8)? 3'**. The standard for alphanumeric page entry ports is option 3 (the default), which is 7 data bits, even parity, 1 stop bit. Other options are described in the AlphaMate User's Guide (68P81000B65). Press **Enter**.
- **'Enter is (1=CR only, 2=CR+LF)? 1'**. This parameter determines whether pressing the **Enter** key will produce a carriage return only or a carriage return plus a line-feed. Again, the standard for paging and most computers is the default of '1' (CR only). Press **Enter**.
- **'File Width (1=32, 2=40, 3=64, 4=80)? 2'**. Defines the output file width for the optional printer, the default of '2' is correct for many small printers. Press **Enter**.



- **'Xon, Xoff (N,Y)? N'**. With Xon, Xoff, a transfer to or from a computer may be stopped by a command from the receiving unit. This capability only applies in the Comm mode. Normally the correct answer is 'N'. Press **Enter**.
- **'RS232 Baud Rate (1=300, 2=1200)? 1'**. Used in the RS232 mode. Most systems use 300 Baud. Press **Enter**.
- **'Page Functions to (1=Modem, 2=RS232)? 1'**. If you are sending automatic pages to the terminal by telephone, the default selection of '1' is correct. If you have a direct RS232 cable connection to the terminal, '2' is the correct answer. Press **Enter**.
- **'Define (1=#, 2= )? 1'**  
**'Define (1=\\, 2= )? 1'**. These two steps refer to alternate character selections. If you are operating outside the U.S., please contact your system operator for more details on these steps. Otherwise, select the defaults by pressing the **Enter** key.

(3) The AlphaMate is now ready for operation. You are now ready to send pages. You will not need to perform the Set-Up steps again unless operating conditions have changed, or the battery becomes depleted while the power is removed.

### III. OPERATING THE AlphaMate

#### 1. Sending Pages

The following procedure applies for standard paging terminals using the standardized automatic paging protocol:

- (a) Activate the AlphaMate if it is **OFF** by pressing the **ON** key. AlphaMate will respond with the 'Select Operation' prompt.
- (b) Press the Page key on the upper left corner of the AlphaMate. The AlphaMate will respond with the 'Enter Name or Pager #' prompt.
- (c) Enter the pager number for any alphanumeric pager which your terminal can alert and press **Enter**. The AlphaMate will respond with the 'Enter Phone #' prompt. Enter the telephone number desired. (If it is the same as the default entered in the Set Up sequence, press **Enter**). The AlphaMate will respond with the 'Enter Message' prompt.

A complete list of pager users can be stored in the Page Directory. This information will contain both the pager number and corresponding telephone number. As a result, you do not have to enter the pager number for a given page if the name or initials exists in the Page Directory with the pager number and phone-number information. Just enter the desired name or initials and press **Enter**. To send this same message to as many as six people, enter their names or initials separated by a comma at the 'Enter Name or Pager #' prompt (i.e., Allan,Robert,DH,Steve,RE, Bill) then press **Enter**. The AlphaMate will respond with the 'Enter Message' prompt.



(d) Type in any message you wish to send, ending the message with the **Enter** key. AlphaMate will then ask you if you wish to '**Send, Review, Next or Quit? S**'.

**NOTE:** To select the default option (shown on the display, to the right of the prompt) press the **Enter** key. If the default option is not desired, enter the chosen option and press the **Enter** key.

Pressing **Enter** or '**S**' for **Send** will cause the page to be sent, '**R**' for **Review** will permit you to view and edit the page; '**N**' for **Next** will allow you to enter another page before sending any pages; '**Q**' for **Quit** will stop the process, although the page will remain formatted and in queue should you wish to send it later.

Press '**S**' or **Enter**, and watch the AlphaMate dial the terminal and send the page.

(e) If there are any problems, you will be able to hear and see what is happening. For example, the dial tone should be heard (use the volume dial on the left hand side of AlphaMate to adjust the level). If the phone connection is made, there will be a short tone before AlphaMate shows the messages it is sending and receiving. If the line is busy or the terminal does not answer, you should hear the busy signal or the ringing. AlphaMate will automatically redial if it cannot establish communication with the paging terminal within about 30 seconds. (This option is internally removed in some countries). If you hear a busy signal, which will last for 30 seconds, and wish to speed the process, press **Quit** and press **Recall** to try again. If the terminal connects to AlphaMate but continuously fails to send the page, the protocol set-up is probably wrong, and you should check with the paging service and verify that the paging terminal uses the standard protocol.

## 2. Operating the Function Keys

### A. RECALL Key

The purpose of the **Recall** key is to provide a means to review or resend all or some of the pages sent with the last 'send' command.

Pressing the **Recall** key causes the AlphaMate to display **RECALL -- N PAGES --** and prompt **'Send, Review, Next or Quit?\_S,'** where N is the number of pages which were entered with the last 'send' command.

Press **'S'** (for send) or **Enter** to resend all N pages in the page queue attempted in the last 'send' command. Pressing **'R'** (for review) will bring AlphaMate to the same review function as under the **Page** mode, allowing editing of the previous entries before resending. The **'D'** (for delete) function allows selective deletion, as under the **Page** mode, of the previously sent pages before retransmission. The **'N'** (for next) steps AlphaMate to the next entry during a review, or allows new entries to be appended to the old entries before a resend.

### B. PAGE DIR (pager directory)

Directory entries can be added to, edited and deleted from the pager directory. Each entry consists of three fields (**Name**, **Pager Number** and **Phone Number**).

The **Name** field will hold up to 7 alphanumeric characters. The first character **MUST** be an alpha. AlphaMate will recognize initials or names made with upper or lower case entries as the same entry.

The **Pager Number** field will hold up to 10 digits and the **Phone Number** field will hold up to 23 digits. If your system operation requires a password



to be present, you can enter a 'P' at the end of the phone number. AlphaMate allows a 6-character alphanumeric password to be included in this directory entry.

### **C. COMM (communication) Mode**

The primary function of the **Comm** (communication) key is to establish either voice-call or non-automatic data communications with a remote paging system or dialup computer using the telephone network. The remote device must have an auto-answer Modem with data format and speed being compatible with the AlphaMate. A traditional telephone set must be connected to the AlphaMate if voice communications are desired. During communications with the terminal, pressing the **Files** key will cause AlphaMate to clear the display and prompt 'Send T-file (Y/N)N.' Upon pressing the 'Y' (for yes) key, the entire T-file will be sent. You can therefore prepare a T-file in advance and send it to the terminal as your message.

AlphaMate keeps the last number dialed in memory. Whenever the **Comm** function is invoked, AlphaMate displays the last number dialed. Press the **Enter** key and type in the call-type to start dialing.

You can abort dialing before it is completed by pressing the **Quit** key. As a result, AlphaMate prompts 'Redial, Quit?R.' Press **Quit** once more to exit from the **Comm** mode.

### **D. FILES Key**

The text-editing function of AlphaMate allows you to write and review messages that can be printed on paper. The **Text Editor** puts the AlphaMate into modes that allow you to insert and delete text.

There are two file types, T-files and R-files. A T-file contains a message that you want to send out to a called party. An R-file contains up to 2000 characters of the text conversation that has occurred during the **Comm** mode or the **RS232** mode. During on-line operation, your inputs at the keyboard and outputs from the host computer are automatically stored into the R-file. The size of the R-file is fixed. When the memory capacity is used up, the R-file will operate on a first-in-first-out basis; earlier data is erased, only the most recent data is retained.

When you operate the **Files** key, AlphaMate displays '**FILES**' and then '**Select File (R/T)? R.**' The **R** represents the R-file and the **T** represents the T-file. The files may be selected by pressing the corresponding letter key. The **Enter** key selects the R-file. AlphaMate displays the file type selected and asks you to select one of the following functions:

**Edit** - Allows you to prepare a new file, view or edit an old file already existing in memory. AlphaMate will display the contents of the file starting at the beginning of the file. You can begin text entry by keying in the characters one by one. Inserting text into existing text is also possible. Use the **←** and **→** key to scroll through the text.

**Copy** - This function transfers an R-file to a T-file and then deletes the R-file afterward. Since only a T-file can be sent in **RS232** and **Comm** operations, it is necessary to copy the R-file to the T-file when you want to re-transmit edited versions of your received messages to other parties.



**Print** - The selected file contents will be printed on the printer (if connected). The AlphaMate will display **'Press Quit to Stop'** while printing is in progress.

**Delete** - The selected file contents will be deleted from memory. This is necessary sometimes in order to make room for new files.

### **E. RS232 Mode**

When the **RS232** key is depressed, the RS232 port at the rear becomes active. AlphaMate prompts **RS232** momentarily and then clears the display, signaling that the unit has successfully completed a Handshake with the host. You are now **on-line**. The following capabilities exist with the **RS232** feature:

(1) Using the R-file Feature. During on-line operation, your inputs at the keyboard and outputs from the host computer are automatically stored into the R-file. The size of the R-file is fixed. When the memory capacity is used up, the R-file will operate on a first-in-first-out basis; earlier data is erased, only the most recent data is retained.

(2) Sending the T-file Through the RS232 Port. During communication with the host, operating the **Files** key will cause AlphaMate to clear the display and prompt **'Send T-File (N/Y) N.'** Upon pressing the **'Y'** (for yes) key, the entire T-file will be sent through the RS232 port. You can therefore prepare a T-file in advance and send it to a host computer for further processing.

### **F. TEL DIR (telephone directory)**

The AlphaMate **TEL DIR** saves time when making calls or pages. It holds a complete list of your contacts and lets you scan through them in a few seconds.

In the **Comm** mode, you can type in the name corresponding to a given number and AlphaMate dials the number automatically. If an entry in the Telephone Directory is designated for paging, the phone number entered can be identified for use by the Page Directory by only referencing the same name or initials. The autologon feature allows AlphaMate to establish legitimate access to a computer center by automatic transfer of the log-on procedure.

AlphaMate will recognize initials or names with upper or lower case entries as the same entry.

Directory entries can be added to, edited and deleted from the telephone directory. Each entry consists of two fields (**NAME** and **NUMBER**). The **NAME** field will hold up to 7 alphanumeric characters. The first character **MUST** be an alpha. The **NUMBER** field will hold up to 23 digits.

### **3. Other Displayed Messages**

**Insufficient Directory Space** - this appears when all of the allocated Memory has been filled by entries in the Page Directory or Telephone Directory. Approximately 3800 characters will be residing in memory to reach this statement. It is possible to fill up the Page Directory and Telephone Directory with 75 normal directory entries. It is recommended to leave some space available in the directories to allow AlphaMate to perform its requested operation and not inform the user additional entries will not be accepted.

**Memory Full** - As the (xxxx Available) display approaches values near the maximum message length, AlphaMate may respond with 'Memory Full' to inform the user the requested operation cannot be performed. If this occurs the R-files and T-files must be edited or deleted to provide added Memory capability.



## GLOSSARY

**ASCII** - (American National Standard Code for Information Interchange) Standard format for coding letters, numbers, grammatical symbols and machine functions.

**Autologon** - Programmed link-up to another computer.

**Baud rate** - The speed at which a computer communicates with another device. Baud is a technical term for 'bits per second'. If you are transmitting a 10 bit data word at 300 baud, you are sending 30 characters per second.

**Control characters** - Letters that when pressed with the **CTRL** key bring about functions (e.g. ^V = enables insertion during Text Editor).

**Cursor** - A movable place marker.

**Data-word format** - The combination of start bit, data bits, parity bit, and stop bits is called the data-word format. One data word is used to represent each character of transmitted data.

**Echo** - A display of your input, sent back to your unit.

**Full duplex** - In full duplex communication, characters sent from point a to point b are echoed back from point b before they appear on point a's terminal.

**Half duplex** - In half duplex communication, characters sent from point a to point b are sent directly to point a's terminal, as well as to point b. Point b does not echo the characters back to point a.

**Interface** - The point where two machines link up, at the simplest level, this can be just a plug and socket.

## GLOSSARY (continued)

**Log-on** - To activate a computer program by inputting a prescribed sequence of commands which typically include giving the name of the program and identifying yourself.

**Modem** - Short for **MOD**ulator-**DE**Modulator, a device to convert a computer signal into a form that can be transmitted through the normal telephone network.

**On-line** - A completed communications link has been achieved between AlphaMate and the host computer. Data transfer can now occur between both parties.

**Parameter** - Rules for machine operation.

**Parity** - A technique for forming messages to detect errors that may have occurred during transmission.

**Password** - A usual way to verify the identity of a computer user.

**RS232** - An EIA (Electronic Industries Association) data transmission standard that employ the serial binary system.

**Start bit** - A start bit is used to signify the beginning of a data word.

**Stop bit** - A stop bit is used to signify the end of a data word.



## **RADIO COMMUNICATION INTERFERENCE**

**WARNING:** The AlphaMate unit can radiate radio frequency energy and if not installed and used in accordance with the Instruction Manual may cause interference to radio and TV communications. It has been tested and found to comply with the limits for a Class A computing device pursuant to Part 15 of FCC rules, which are designed to provide reasonable protection against such interference when operated in a commercial environment. Operation of this equipment in a residential area may cause interference in which case the user, at his own expense, will be required to take whatever measures may be required to correct the interference

According to FCC Part 68 registration for "AlphaMate" system connected to the Public Telephone Network, you must supply the Telephone Company with the following information:

**FCC Registration No. E96907-72754-DT-E**

**Ringer Equivalence 0.3B**