6.Terminal Parameters

Your TRANZ 330 terminal must be configured with terminal-specific parameters which determine how the terminal operates. Special memory locations are reserved specifically for terminal parameters. By entering the proper parameters, you will enable the terminal to work with your on-site phone system and determine how your terminal operates with the standard application software.

For example, you can determine how many characters the terminal scrolls when the scroll key is pressed, or the phone number of the download computer.

The terminal's memory is divided into 1,000 memory locations, each having a unique three-digit address or identification number such as 000, 502 and 999. Some memory locations are dedicated to specific functions. For example, memory location 001 is reserved for the terminal's serial number and location 004 is reserved for the current date. Other memory locations are general purpose locations which can store a variety of data.
The following Table 6-1 lists the Terminal/Location parameters and their dedicated memory locations.

Table 6-1 Terminal Parameters

Memory Location	Description
000	Download Phone Number
001	Serial Number
004	Program Date
005	Message Sequence Number
006	Scroll Length
007	Multiple Transaction Timeout
009	Terminal Key Beep Flag
010	Dial Type Flag
011	Dial Speed Flag
012	Parallel Phone Available Flag
013	Number of Retries
014	Telephone Line Test Flag
017	RECALL, Set Clock, Unit-to-Unit Restriction Flag
019	Application ID
030	Idle Prompt
038	Auto Answer Control String
040-099	Memory Dial Phone Numbers (General Records)
950	Printer Type
951	Printer 250 and 600 Paper Advance (No. of Line Feeds)
958	Bell/CCITT (CCITT units only)

Memory Location	Description
960	Dial-Up Line Upload/Download Speed
965	Auto answer speed
967	Auto answer packet inactivity timeout
970	PIN Pad/Bar Code Wand Serial Port Function
975	Line REcovery Time
981	Idle Loop Control String
985	Host # for Card Initiated Transactions
986	Host # for Bar Code Initiated Transactions

Entering Terminal/ Location Parameters

If you are using a standard application or if you programmed your terminal by downloading an application from another TRANZ 330 terminal, you must configure your terminal with the Terminal/Location parameters.

Use the STORE or RECALL functions as described in Section 5 for instructions on entering information into your terminal's memory locations.

Note: If you programmed your terminal with a remote IBM PC compatible download computer, these parameters may have already been entered for you. Use the RECALL function to determine if the parameters were downloaded.

To simplify configuring your terminal, fill in the Terminal Parameters Configuration Worksheet provided at the end of this section. After completing the worksheet, you can either manually enter the data from the TRANZ 330 keypad, or you can enter it at a remote computer using the VeriFone ZONTALK program and download it to your terminal.

Download Phone Number

Memory Location: 000
Character Type: Alphanumeric
Field Length: Up to 32 characters

This parameter is the phone number the terminal dials to connect to the remote download computer. The download phone number may contain up to 32 characters including numerals 0 through 9 and a two-second pause (-).

You can enter an access code with the phone number and, if needed, separate the two by inserting the pause character between them. For example, if you enter the common outside line access code "9" followed by a dash (-) and the phone number, the terminal will dial the 9, pause two seconds, then continue dialing the phone number. Insert additional pause characters as needed for pauses longer than two seconds.

If the memory location is empty, the teminal will automatically prompt you for the download data.

Note: Do not add a dash (-) in the middle of a phone number. This will create an unnecessary delay in dialing the number. The pause character is intended for deliberate pauses between access codes and phone numbers.

Serial Number

Memory Location: 001
Character Type: Alphanumeric
Field Length: Up to 10 characters

Turn your terminal upside down and locate the serial number on the label after the characters "S/N." Write this number down on the worksheet and enter it into memory location 001. This number identifies your terminal to the download computer.

If the memory location is empty, the teminal will automatically prompt you for the download data.

Program Date

Memory Location: 004
Character Type: Numeric
Field Length: 6 characters

Write today's date on your worksheet and enter the date into memory location 004. This records the date that the parameters in the terminal were updated.

The format for this parameter is MMDDYY. For example, to enter July 23, 1987, enter "072387."

Format	Description
MM	Month
DD	Date
YY	Year

Always update this parameter in your worksheet and terminal whenever you change any of the parameters.

Message Sequence Number

Memory Location: 005
Character Type: Numeric
Field Length: 4 characters

The TRANZ 330 terminal assigns a sequence number to every VISA second generation transaction it performs.

The terminal sequentially numbers each transaction, thus identifying the order in which the transactions are performed.

The message sequence number (also called the transaction sequence number) parameter allows you to specify the number of the first transaction in the sequence. For example, if you select the number 500, the first transaction will be numbered 500, the second 501, the third 502 and so on.

Multiple Transaction Timeout

Memory Location: 007
Character Type: Numeric
Field Length: 1 character

The multiple transactions feature of the TRANZ 330 allows the terminal to perform more than one transaction on a single call to a host computer. This parameter specifies the length of time the terminal will wait between transactions before disconnecting the phone line.

If a transaction ends and a new one doesn't begin within the time specified in this parameter, the terminal will break the phone connection with the host computer. However, as long as another transaction begins within the specified time, the terminal will remain connected.

Ten different entries are available. If nothing is entered in the memory location, the multiple transaction feature is disabled.

Entry	Timeout Length
0	Multiple transactions disabled
1	20 seconds
2	40 seconds
3	60 seconds
4	80 seconds
5	100 seconds
6	120 seconds
7	140 seconds
8	160 seconds
9	90 minutes

Scroll Length

Memory Location: 006
Character Type: Numeric
Field Length: Up to 2 characters

The TRANZ 330 terminal has a 16 character display panel which is adequate for viewing most prompts. To view messages longer than 16 characters, you will need to scroll to the right or to the left. The scroll length parameter determines the number of characters that will be scrolled each time the right [*] or left [#] scroll keys are pressed. For example, if the parameter selected is "12," pressing the [*] key will scroll the display 12 characters to the right.

Terminal Key Beep Flag

Memory Location: 009
Character Type: Numeric
Field Length: 1 character

The terminal key beep flag indicates whether or not the terminal should beep when the keys are pressed. Enter a 0 if you want a beep, or enter a 1 if you don't want a beep.

Dial Type Flag

Memory Location: 010
Character Type: Numeric
Field Length: 1 character

This parameter indicates the type of dialing your TRANZ 330 terminal will use, whether tone or pulse, and also allows enhanced pulse dialing setting for Europe.

Entry	Description
0	tone dial
1	pulse dial (USA)
2	10 - n dial
3	n + 1 dial

Note: The terminal must be configured for the type of telephone transmission used by the telephone company central office in your area. Check with your phone company if you do not know which type of service you have.

Parameters 2 and 3 contain pulse dialing settings where "n" represents the telephone number digit you dial. If you dial the digit "0" with a parameter 2 setting, there will be 10 pulses. If you dial a "1", there will be 9 pulses. Parameter 3 is just the opposite, with the digit "0" having 1 pulse and the digit "9" having 10 pulses.

Dial Speed Flag

Memory Location: 011
Character Type: Numeric
Field Length: 1 character

The TRANZ 330 terminal can be programmed to dial a phone number at one of five speeds. This parameter determines the number of digits or pulses per second. If nothing is entered for the parameter, the terminal will dial a normal 10 digits per second or 10 pulses per second.

Entry	Speed
0	5 per second; very slow dial
1	7 per second; slow dial
2	10 per second; normal dial
3	15 per second; fast dial
4	20 per second; very fast dial

Note: The Canadian Department of Communications (DOC) does not permit dialing speeds greater than 10 digits or pulses per second to be used in Canada.

Parallel Phone Available Flag

Memory Location: 012
Character Type: Numeric
Field Length: 1 character

This parameter indicates if a standard telephone is connected to the same telephone line as the TRANZ 330 terminal. This flag permits the automatic dialing of the call center of the "PICK-UP CARD" phone number provided the host computer sends a RealShare or VISA second generation type message with an autodial command.

Enter a "0" if a phone is not connected. Enter a "1" if a phone is connected.

Note: The TRANZ 330 terminal will beep when either of the automatic phone numbers is dialed, indicating that the clerk should pick up the handset for instructions.

Number of Retries

Memory Location: 013
Character Type: Numeric
Field Length: 1 character

You can select the number of times the TRANZ 330 terminal will redial a telephone number for a transaction before giving up. For example, if a "5" is entered, the terminal will dial the primary phone number up to five times followed by the secondary phone number five times. The terminal won't stop dialing until the other phone is answered or if the number of attempts indicated here are made. If no entry is made for this memory location, the terminal will default to three attempts.

Telephone Line

Memory Location: 014
Character Type: Numeric
Field Length: 1 character

This parameter tests the telephone line to determine if another telephone is being used on the same line. If the test is activated and a phone is being used, the terminal will not perform the transaciton until the line is free.

The line test also enables the TRANZ 330 terminal to interact with the control signals of standard key telephone systems. In a key system, the A / A1 wires on a telephone line indicate when a call is on hold. To work on a key system, the TRANZ 330 must enable A / A1 control.

There are four options for this parameter.

Entry	Description
0	Activate A / A1, do line test.
1	Activate A / A1, don't do line test.
2	Don't activate A / A1, do line test.
3	Don't activate A / A1, don't do line test.

RECALL Set CLock Unit-to-Unit Restriction Flag

Memory Location: 017
Character Type: Numeric
Field Length: 1 character

This parameter allows you to protect memory from unauthorized or accidental alteration by putting a password restriction on the RECALL, clock setting and terminal-to-terminal download functions. If you enter a non-zero number in location 017, the system password Z66831 will be required for these functions. If you enter a zero for location 017, the password will not be required.

Application ID

Memory Location: 019
Character Type: Alphanumeric
Field Length: Up to 7 characters

The application ID identifies a custom application file name to the download computer. With this ID, the download computer can select the correct application and download it to the terminal. Obtain the application ID from the person responsible for maintaining the download computer.

If the memory location is empty, the terminal will automatically prompt you for the download data.

Idle Prompt

Memory Location: 030
Character Type: Alphanumeric
Field Length: Up to 16 characters

The standard TRANZ 330 idle prompt is the date and time. However, you can change the display by entering a new prompt in memory location 030.

You can enter any message, such as "READY" or "HELLO," with up to 16 alphanumeric characters. If memory location 030 is empty, the terminal will display the default idle prompt; the date and time.

Out of Memory Control String

Memory Location: 037
Character Type: Alphanumeric
Field Length: 120 characters

This parameter can be used by the application to automatically delete old data if the TRANZ 330 detects that all available memory is already in use.

This location is usually empty and must be custom programmed for each application to utilize this feature.

Auto Answer Control String

Memory Location: 038
Character Type: Alphanumeric
Field Length: Up to 120 characters

This parameter enables the TRANZ 330 to respond to an incoming telephone ring and communicate with another dial-up device.

This memory location is usually empty and needs to be programmed for the auto answer control string to support communication between the TRANZ 330 and the remote dial-up device.

Memory Dial Phone Numbers

Memory Location: 040-099 (general records)
Character Type: Alphanumeric
Field Length: Up to 60 characters

CAUTION: Some of these memory locations may contain application program data. Refer to your application reference manual to see which of these locations are available before entering memory dial phone numbers.

For convenient memory dialing you can store frequently called telephone numbers in the memory locations reserved for general records. To use this feature, press the [0/AUTO] key after the idle prompt and then enter the memory location that contains the phone number you want to dial.

The phone number may contain up to 60 characters including the numerals 0 through 9 and a two-second pause (-) character.

You can enter an access code with the phone number and, if needed, separate the two by inserting one pause character for each two-second pause between them. For example, if you enter the common outside line access code "9" followed by a dash (-) and the phone number, the terminal will dial the 9, pause two seconds, then continue dialing the phone number.

Note: Do not add a dash (-) in the middle of a phone number. This will create an unnecessary delay in dialing the number. The pause character is intended only for use between access codes and phone numbers.

Printer Type

Memory Location: 950
Character Type: Numeric
Field Length: 1 character

This parameter allows you to specify the type of printer you have connected to the TRANZ 330 terminal. There are currently four options.

Entry	Printer Type
0	No Printer
1	Generic roll printer
2	Printer 250 or Printer 600
3	Printer 150

Printer 250 or P600 Paper Advance

Memory Location: 951
Character Type: Numeric
Field Length: 3 characters

This parameter allows you to specify the number of line feeds a Printer 250 or Printer 600 roll printer will automatically advance after printing a receipt or transaction record. The default number of line feeds is 6. However, you can enter any number from 1-255.

Generic Printer Baud Rate

Memory Location: 952
Character Type: Numeric
Field Length: 1 character

This parameter specifies the serial port baud rate if the printer type is set for generic roll printer (950=1).

Entry	Baud Rate
0	300 baud (default)
1	600 baud
2	1200 baud
3	2400 baud
4	2400 baud
5	9600 baud
6	19200 baud

Generic Printer Data Format

Memory Location: 953
Character Type: Numeric
Field Length: 1 character

This parameter specifies the data format for the serial port if the printer type is set for a generic roll printer (950=1).

Entry	Data Format
0	7 data bits, even parity, 2 stop bits (default)
1	8 data bits, no parity, 2 stop bits

Generic Printer Handshake

Memory Location: 954
Character Type: Numeric
Field Length: 1 character

This parameter determines the type of handshaking used on the serial port if the printer type is set for generic roll printer (950=1).

Entry	Handshake
0	Hardware (CTS/RTS default)
1	None

Bell/CCITT Mode

Memory Location: 958
Character Type: Numeric
Field Length: 1 character

This parameter allows you to set the optional internal modem to either Bell or CCITT mode on CCITT units only.

Entry	Mode
<empty>	Bell
0	Bell
1	CCITT

Dial-Up Line Upload/Download Speed

Memory Location: 960
Character Type: Numeric
Field Length: 1 character

This parameter is for specifiying the communications speed (baud rate) used when uploading or downloading information over a public dial-up line. The baud rate you specify must match the baud rate used by the device your TRANZ 330 is communicating with.

If the memory location is empty, the teminal will automatically prompt you for the download data.

Entry	Baud Rate
<empty>	300 Baud
1	300 Baud
2	1200 Baud (available on model 212 only)

Auto Answer Speed

Memory Location: 965
Character Type: Numeric
Field Length: 1 character

This parameter is used for specifying the communications speed (baud rate) used when the host computer calls the terminal.

Entry	Baud Rate
<empty>	300 Baud
1	300 Baud
2	1200 Baud

Auto Answer Processing

Memory Location: 966
Character Type: Numeric
Field Length: 1 character

This parameter allows control over how the terminal will respond when it autoanswers calls from the host computer.

Entry	Process
<empty>	Go off-hook, wait 2 seconds, execute CS in 038
2	Go off-hook, wait 2 seconds, execute CS in 038
1	Go off-hook, wait 2 seconds, raise answer carrier, execute CS in 038
0	Go off-hook, wait 2 seconds, raise answer carrier, wait for ENQ, execute CS in 038

Auto Answer Packet Inactivity Timeout

Memory Location: 967
Character Type: Numeric
Field Length: 1 character

This parameter determines how long the terminal will remain off hook without any communications activity from the host.

Entry	Timeout Length
0	Multiple transactions disabled
1	20 seconds
2	40 seconds
3	60 seconds
4	80 seconds
5	100 seconds
6	120 seconds
7	140 seconds
8	160 seconds
9	90 minutes

PIN Pad/ Bar Code Wand Serial Port Function

Memory Location: 970
Character Type: Numeric
Field Length: 1 character

If you are going to use the PIN pad/bar code wand port, you must specify its function by identifying the device is connected to it. Enter the desired number from the table below. If you are not using the port, leave this location empty or enter a "0."

Entry	Function
<empty>	Nothing Connected
0	Nothing Connected
1	Bar Code Wand
2	PIN Pad

Line Recovery Time

Memory Location: 975
Character Type: Numeric
Field Length: 1 character

When the terminal attempts to dial out and determines that the line is already in use, it will wait until the line becomes available. This parameter determines how long the terminal will remain on hook once the line is available to allow the phone company enough time to disconnect the line and prepare for the next call. Acceptable values for this parameter are in the range of 1 to 255 seconds with a default value of 3 seconds.

Free Memory Reclamation Parameter

Memory Location: 977
Character Type: Numeric
Field Length: 1 character

Version 3.X and 2.35 terminals only. This parameter controls how memory is made available for re-use once the data in it has been deleted. It is usually empty and should be custom programmed for each application to utilize the various options.

Entry	Description
0	Reclaim 1 piece of free memory after every store operation.
1	Reclaim 1 piece of free memory after each transaction or function.
2	Reclaim all free memory after each transaction or function.
3	Do not reclaim free memory.

Abort Control String

Memory Location: 979
Character Type: Alphanumeric
Field Length: 60 characters

Version 3.x terminals only. This parameter can be used to provide customized processing each time the terminal powers up, or a transaction or local function is completed. This location is usually empty and must be custom programmed for each application to utilize this feature.

Idle Loop Control String

Memory Location: 981
Character Type: Alphanumeric
Field Length: Up to 120 characters

This parameter allows you to program the TRANZ 330 to perform specific tasks while the terminal is in the idle state.

For example, the terminal can be programmed to check the current time to see if it has exceeded a predetermined trigger time then automatically dial up a remote host to upload captured records.

Host for Card Transactions

Memory Location: 985
Character Type: Numeric
Field Length: 1 character

This parameter specifies wich host transaction key control string will be executed when a card is swiped through the reader from the idle state. Valid entries for this parameter are 1 through 9 with the default being 1.

Host for Bar Code Transactions

Memory Location: 986
Character Type: Numeric
Field Length: 1 character

This parameter specifies which host transaction key control string will be executed when a bar code is swiped through the reader from the idle state. Valid entries for this parameter are 1 through 9 with the default being 2.

Communication Error Control String

Memory Location: 990
Character Type: Alphanumeric
Field Length: 60 characters

By default, communication errors result in the display of an error message and the termination of the transaction in progress. This parameter is used to allow the TRANZ 330 to customize the processing of communication errors.

This location is usually empty and must be custom programmed for each application to utilize this feature.