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INSTALLATION/OPERATION MANUAL

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CHAPTER 1

The Alphanumeric Paging Interface processes custom message information into a format that allows messages to be broadcast over standard radio paging architecture. The interface activates through dry contact or wetted voltage inputs.

PURPOSE OF THE MANUAL

This manual provides descriptions and instructions for programming, installing and maintaining the Alphanumeric Paging Interface. A Brief description of the remaining chapters is as follows. Chapter 2 - Description of functions and capabilities including specifications.

- Chapter 3 Installation, Power Up and External Connections.
- Chapter 5 Instanation, Fower Op and External Connect
- Chapter 4 Programming Instructions

Chapter 5 - troubleshooting CHAPTER 2 DESCRIPTION

INTRODUCTION 2-1

This chapter describes the characteristics, capabilities, features and specifications of the Alphanumeric Paging Interface.

DESCRIPTION

The Alphanumeric Pager Interface alerts individuals via display pagers of a change in status from a given output. When a status change occurs via a change in a dry contact or wetted voltage input an alarm message is delivered to the paging terminal's IXO port via phone line or through a direct connect RS-232 serial port connection. The interface encodes messages per paging industry standard "Telecator Alphanumeric Paging" (TAP) protocol to deliver messages from a location remote to the paging terminal via a telephone line (Model API-64RM). The interface encodes messages per paging industry standard TAP or COMP2 protocols to deliver messages directly to a paging terminal RS-232 (Serial) Input. The maximum distance between the Paging Interface and the paging terminal for RS-232 connection is 150 feet.

The paging terminal encodes messages received from the Alphanumeric Paging Interface and sends them via a radio paging network to the designated alphanumeric paging receiver or group of receivers.

The Alphanumeric Pager Interface is compatible with both Privately Owned Paging Systems or Radio Common Carriers' (RCC) Systems. Privately Owned Paging Systems are typically site specific and cover a facility or building. They are privately owned and usually licensed for use by one organization. RCC Paging Systems cover a larger geographical area and are utilized by the licensee to provide paging services to organizations and private individuals.

The Alphanumeric Paging Interface (API-64) and Expansion Module (API-64EM) come with their own steel enclosure, 110 V AC power cord and pluggable input terminal blocks. The API-64RM Remote Dial Module comes with its' own steel enclosure, 120 V AC plug in transformer, connection cable and standard 6 foot RJ11 telephone cable Back To Index

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COMPATIBILITY

The Alphanumeric Paging Interface communicates with Paging Terminals via modem to modem Phone Line Connection or via RS-232 connection.

Note: Where a Privately Owned Paging System provides telephone access for alphanumeric paging (from a location remote to the terminal), API-64 can be utilized to dial in and deliver messages to the terminal via telephone lines and the TAP protocol. This eliminates the need to place the API-64 within 150 feet of the paging terminal.

RS-232 Paging System Requirements:

1. The paging terminal and transmitters must be capable of receiving, encoding and transmitting binary data (end user would typically have numeric and/or alphanumeric pagers).

2. The paging terminal and transmitters must be alphanumeric message capable.

3. The paging terminal must be TAP (Telecator Alphanumeric) or COMP2 protocol capable. These are the protocols utilized by message entry devices such as the Motorola Alphamate when directly connected to the paging terminal.

4. There must be a direct connect serial port available on the paging terminal for connection of the API-64. 5. The maximum distance (length of the RS-232 cable) between the paging terminal and the API-64 is 150 feet (45.6m).

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ENCLOSURE...... METAL WALL MOUNTING METAL BRACKETS COUNTER TOP..... RUBBER FEET TEMPERATURE RANGE...... 0C - 40C INPUT POWER..... 110V AC 60Hz CONSUMPTION...... 20W MAX. OR N/C) CONTACT INPUT BLOCK 1-32 SWITCHABLE DRY CONTACT OR WETTED VOLTAGE CONTACT INPUT BLOCK 33-64 SWITCHABLE DRY CONTACT OR WETTED VOLTAGE WETTED VOLTAGE INPUTS...... 12-48V DC "ON STATE" OV DC "OFF STATE" DISPLAY SCREEN...... 240 x 64 GRAPHIC (8 LINE X 40 CHARACTER LCD) - API-64 Only PROGRAMMING...... AT/WIN95 COMPATIBLE KEYBOARD RS-232 CONNECTION..... DB25 FEMALE NETWORK CONNECTIVITY...... RS-485 EXPANSION MODULE MAXIMUM NUMBER 15 (TOTAL NUMBER OF INPUTS 1024) NETWORK DISTANCE MAXIMUM LENGTH OF NETWORK - 4000 FEET MESSAGE TYPE..... ALPHANUMERIC MESSAGE LENGTH MAXIMUM 80 CHARACTERS MESSAGE STORAGE..... MAXIMUM 1,000 Remote Dial Module (API-64\RDM) WEIGHT...... 1kg(2.2lbs) mm H x mm W x mm D ENCLOSURE...... METAL WALL MOUNTING METAL BRACKETS COUNTER TOP..... RUBBER FEET TEMPERATURE RANGE...... 0C - 40C INPUT POWER SUPPLY..... 120V AC 60Hz CONSUMPTION...... 400 ma. MAX. PROGRAMMING...... DOS BASED PC WITH SAMI-PSV1.1 SOFTWARE DIALING METHOD..... DTMF RS-232 CONNECTION..... RJ11 FEMALE BAUD RATE...... 1200 NUMBER OF BITS...... 8 STOP BITS.....1 PARITY.....NONE Back To Index

FEATURES

ALARM INPUTS

The Alphanumeric Paging Interface and each Expansion Module are equipped with 64 screw type pluggable inputs for connection to dry contacts or wetted voltage points. The inputs are user programmable as either normally opened or normally closed. Each Input can be programmed with a separate text message for "Active", "Reset" and/or "Pulse" conditions. Messages can be up to 80 characters in length each. The 64 inputs are divided into two blocks of 32 inputs each. Each block of 32 inputs can be configured as either dry contact or wetted voltage. The input points are opto-isolated to ensure no interference occurs between the Alphanumeric Paging Interface (or Expansion Modules) and the device being monitored.

SYSTEM EXPANSION

The Alphanumeric Paging Interface allows for expansion from 64 inputs to 1024. The number of inputs is expanded by the addition of expansion modules (API-64EM). Each Module adds 64 points to the system. The modules are daisy-chained to the API-64 via an RS-485 connection. Up to 15 Expansion Modules may be added to each API-64. Programming for all of the points in the network is done via the master API-64.

ALARM INFORMATION VECTORING

The preprogrammed alarm message(s) for each input may be designated to be sent to a specific pager ID number. The messages for each point can be sent to specific users or groups of users who are designated to receive the information. Selected individuals or user groups within a facility or organization may receive detailed notification of conditions which apply to them specifically. The Alarm Paging Interface can be connected to multiple input sources and can vector information from each source to the required recipient(s).

ALARM PRIORITIZATION

Each individual input may be designated a level of priority ranging from A to J. Messages with higher level priorities (A) are processed and paged before lower level priority (J) messages. Messages that are assigned equal priority levels are processed and paged on a first in first out basis.

ESCALATION PAGING

Each input can be programmed for escalation paging if required. Escalation paging allows a given message to be sent to a secondary and/or a tertiary pager ID# if the alarm condition persists for a pre-defined period of time. The time between escalations is user definable and can be from one to thirty minutes. Escalation applies to alarm conditions only. Alarm conditions are defined as a change in the status of an input from its normal position (normally opened or normally closed) to "Active" or "Pulse".

MESSAGE LOGGING/PRINTING

The Alphanumeric Paging Interface stores the last 1,000 paged messages in a log file. This log file may be printed via a parallel printer attached to the printer port. The log file can be viewed or printed for any user specified time period.

REAL TIME CLOCK

The Alphanumeric Paging Interface has a built in real-time clock. The clock uses 24 hour format and contains an internal battery to maintain accurate system time in case of power loss.

SHIFT SCHEDULING

The Alphanumeric Paging Interface can be programmed to allow for shift scheduling. Messages can be sent to specific pagers during specific periods of time. The alarm message for a given input may be sent to one pager ID# if there is a change in status during the day shift and to another pager ID# if there is a change in status during the night shift. Escalation for each shift is user programmable.

IN-HOUSE PAGING APPLICATIONS

Connection to the paging system is made via one direct RS-232 connection. The Alphanumeric Paging Interface delivers a message via direct connection to an available serial port. The paging terminal provides information back to API-64 indicating acceptance or rejection of the message. If a message is rejected the Alphanumeric Paging Interface immediately resends the message to the terminal and redelivers the message (until the message is accepted by the paging terminal).

WIDE AREA APPLICATIONS

Connection to the paging system is made via telephone lines (requires API-64RM, Remote Dial Module). The Remote Dial Module is connected via RS-232 to the Alphanumeric Paging Interface. API-64RM connects with the paging terminal via telephone lines and delivers a message via an IXO port. The paging terminal provides information back to the Remote Dial Module indicating acceptance or rejection of the message. If a message is rejected the API-64RM immediately redials the terminal and redelivers the message (up to 5 attempts).

PHONE LINE REQUIREMENTS (API-64RM)

The Remote Dial Module requires a single line, DTMF telephone line in order to dial a paging system. The API-64RM can share a telephone line with another piece of equipment or one that is in use for another purpose (ie. a fax line). To ensure the API-64RM will seize a shared line that is in use, it must be the first device on the phone line. If the API-64RM is down stream of another device (security or fire alarm panel) the Module will sense the upstream equipment and will not attempt to use the line until 'ON HOOK' voltage is restored.

PROGRAMMING

The API-64 is programmed via a standard AT/WIN95 compatible keyboard. All of the programming software is housed on board the API-64. A compatible keyboard is simply plugged into the keyboard port on the unit. The use of a standard keyboard eliminates the requirement for specialize hardware and/or software for programming.

Unified Construction

The API-64 is housed in a rugged metal enclosure with a LCD display screen. The alarm input port screw terminals are housed in the enclosure as is the power supply. The unit is simply plugged into a standard 110Volt power supply and wired to the contact points for operation. PAGE 2-5 Back To Index

CHAPTER 3

INSTALLATION AND OPERATION API-64 PANEL CONNECTIONS A IEC Power Socket (110 V AC) B Power Switch C Pluggable Terminal Block for Commons - Inputs 1 through 32 D Pluggable Terminal Blocks for Inputs 1 through 32 E Pluggable Terminal Block for Commons - Inputs 33 through 64 F Pluggable Terminal Blocks for Inputs 33 through 64 G 5 Pin Socket for AT/WIN 95 Compatible Keyboard H 25 Pin Connector for RS-232 Connection to Paging Terminal or Remote Dial Module I 240 X 64 Graphic LCD Display Back To Index

API-64EM PANEL CONNECTIONS

API-64RM PANEL CONNECTIONS

INSTALLATION INSTRUCTIONS API-64

(1) Set Input Groups 1-32 and 33-64 for Dry Contacts or Wetted Voltage to match the input type that will be wired to the pluggable contact input blocks. The input type for points 1 through 32 is selected by using the WET/DRY slide switch located at the back of the Alphanumeric Paging Interface, below the common pluggable input block for points 1 through 32. The input type for points 33 through 64 is selected by using the WET/DRY slide switch located at the back of the Alphanumeric Paging Interface, below the common pluggable input block for points 33 through 64.

WARNING: WIRING INPUTS THAT ARE OF A DIFFERENT TYPE THAN HAVE BEEN SELECTED USING THE WET/DRY SWITCHES MAY DAMAGE THE UNIT. MAKE SURE THAT THERE IS NO EXTERNAL VOLTAGE CONNECTED TO INPUT BLOCKS BEFORE SELECTING DRY.

(2)Connect all input wiring from the device(s) being monitored based on the example connection diagram shown on Page 3-1.

(3)Connect all Expansion Modules (API-64EM) via RS-485 connections shown on page 3-2. Address each of the expansion modules using the following instructions:

Remove the cover from the top of the expansion module (API-64EM)

There is one block of four dip switches on the circuit board inside the unit. Set The Dip Switches for Each Expansion Module Using the Table Below:

Expansion Module Dip Switch Settings Station Number 1234 1st API-64EM off off off 02 2nd API-64EM on off off 03 3rd API-64EM off on off off 04 4th API-64EM on on off off 05 5th API-64EM off off on off 06 6th API-64EM on off on off 07 7th API-64EM off on on off 08 8th API-64EM on on off 09 9th API-64EM off off off on 10 10th API-64EM on off off on 11 11th API-64EM off on off on 12 12th API-64EM on on off on 13 13th API-64EM off off on on 14 14th API-64EM on off on on 15 15th API-64EM off on on 16

(4)Plug an AT/WIN95 Compatible Keyboard into the 5 Pin Socket Labeled "KEYBOARD".

(5)Connect the API-64 to the paging terminal or to the API-64RM via the DB-25 connector labeled "RS-232" using the cables supplied with the system.

(6)Connect the API-64 to the parallel system printer (if one is being used) to the DB-25 connector labeled "PRINTER".

PAGE 3-3

(7)Turn the API-64 (and all expansion modules) on using the toggle switch labeled "POWER ON" that is located on each unit. Program the API-64 and all API-64EM modules connected to the system using the Programming Instructions that start on page 4-1. Back To Index

CHAPTER 4

PROGRAMMING INSTRUCTIONS

API-64/API-64EM PROGRAMMING NOTES

1.Use the Directional Arrow Keys (<LEFT>, <RIGHT>, <UP>, <DOWN>) to move from field to field while programming. When the cursor has been moved to a field, the data in that field will flash. The data for that field can then be altered using the instructions below.

2.Use the <PAGE UP>/<PAGE DOWN> keys to increment/decrement data in any given field. Use the <number> keys to increment/decrement data in fields that contain numeric data.

3.Use the $\langle F1 \rangle$ key to save any programming changes that have been made for any menu, station, or input throughout programming procedure.

4.Use the <ESCAPE> key to leave any menu and return to the main menu. If you <ESCAPE> before any programming changes have been saved, the changes will not be saved.

5.If the system is paging "GOLAY" type alphanumeric pagers (the paging supplier or system manager can provide that information) the following characters in a message string are invalid: <u>Back To Index</u>

MAIN MENU DESCRIPTION

The main menu is displayed when the API-64 is powered up, when you exit from any of the other menus or the system times out of another menu. A system time out occurs when no data or programming changes have been made while in another menu for 30 seconds. If a system time out occurs, data changes that have been made in the last menu will not be saved.

Main Menu Display

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(1) The header information contains the name of the menu that is presently displayed "MAIN MENU".

(2) NUMBERS 01 THROUGH 16: These are the ID numbers of units on the network (API-64 and API-64EM). 01 is the ID number of the API-64 Alphanumeric Interface and 02 through 16 are the ID numbers of the expansion modules. Only the ID numbers of devices connected to the network are displayed. If there are 3 expansion modules (API-64EM) on the network then this part of the display would read "01 02 03 04". If there's a communication error with one of the expansion modules then the ID for that unit is replaced by "--".

(2) DATE: Todays Date in the MM/DD/YY format (as programmed in the "SYSTEM SETUP MENU").

(3) TIME: Todays Time in the HH:MM:SS format(as programmed in the "SYSTEM SETUP MENU")

(4) STATUS: The system status displays "READY FOR PAGING" when idle, " TX CONNECTING" when delivering a page or "CONNECTION ERROR" if a communication problem occurs while attempting to deliver a page.

(5) Under the "STATUS" line the display shows the time and date of the last message that was processed and sent by the system followed by the station number and input number that changed status followed by the pager ID# that the last message was sent to.

(6) The text message that was sent for the last transaction is displayed below item (5).

(7) MENU SELECT: This field allows you to toggle between "SYSTEM SETUP", "MESSAGES SETUP" and "DATA LOGGING HISTORY". Use the <PAGE UP>/<PAGE DOWN> keys and then <ENTER> to select the menu you want to access. Back To Index

SYSTEM SETUP MENU - DESCRIPTION AND PROGRAMMING

The "System Setup" menu is used to set the global parameters for the Alphanumeric Paging Interface and any Expansion Modules that may be connected to form the overall system.

System Setup Menu Display

-----SYSTEM SETUP------STATIONS : INPUT PULSE RS232 BAUD: INPUT STATUS RS232 BIT: PAGE FORMAT: DATE: // PAGE SHIFT: TIME: : : ------<F1> SAVE------

(1) The header information contains the name of the menu that is presently displayed ("SYSTEM SETUP").

(2) STATIONS is the number of devices connected via the RS485 network. It is defined as the Alphanumeric Paging Interface (API-64) plus the number of Expansion Modules (API-64EM) in the overall system. If the system is composed of one API-64 then this field should read "01". If the system is composed of the Alphanumeric Paging Interface (API-64) and five Expansion Modules then this field should read "06". Use the <PAGE UP>/<PAGE DOWN> keys to toggle to the correct number of stations.

(3) RS232 BAUD is programmable from 300 to 4800. It should be set to be compatible with the paging system that is being utilized when direct connecting (via the RS-232). The baud rate should be set to 1200 if the (API-64RM) remote dialing module is utilized. Use the <PAGE UP>/<PAGE DOWN> keys to toggle to the correct baud rate for the system.

(4) RS-232 BIT field allows you to set the system to 7 bits and even parity or 8 bits and no parity. It should be set to be compatible with the paging system that is being utilized when direct connecting (via the RS-232). The RS-232 BIT field should be set to 8/NONE if the (API-64RM) remote dialing module is utilized. Use the <PAGE UP>/<PAGE DOWN> keys to toggle between 7/EVEN and 8/NONE.

(5) PAGE FORMAT refers to the paging protocol format that is being employed. If API-64 is direct connected to a privately owned paging system then the transmission format may be set to either "TAP" or "COMP2". When API-64 is connected to API-64RM (Remote Module) set the Page Format to "WIDE". Use the <PAGE UP>/<PAGE DOWN> keys to toggle to the correct format (TAP, COMP2 or WIDE)

(6) INPUT PULSE sets the system to accept a pulsing signal as a change in status and to allow the user to set a "PULSE" message for each of the inputs that are in use. There are two options YES or NO. Use the <PAGE UP>/<PAGE DOWN> keys to toggle between YES or NO.

NOTES:

If the INPUT PULSE field is set to NO then a message will be initiated as soon as an "ACTIVE" or a "RESET" condition occur. If this field is set to YES then "ACTIVE" and "RESET" messages will only be sent if the condition remains constant for five seconds or more. A momentary change in condition is interpreted as a "PULSE" signal and the associated text message for "PULSE" for the given input will be sent.

PAGE 4-3

(7) INPUT STATUS sets the "normal" state for all of the inputs that are in use on the system (the master API-64 and all API-64EM expansion modules). There are two options N/O (normally opened) or N/C (normally closed). Use the <PAGE UP>/<PAGE DOWN> keys to toggle between N/O or N/C.

NOTES:

If the system is programmed for N/O (normally open) inputs then a change in condition on any given input from open to closed will initiate the "ACTIVE" message for that input. A change in condition from closed to open will initiate the "RESET" or return to normal message. If the INPUT PULSE field has been set to YES, a change in condition from open to pulse will initiate the "PULSE" message.

If the system is programmed for N/C (normally closed) inputs then a change in condition on any given input from closed to open will initiate the "ACTIVE" message for that input. A change in condition from

open to closed will initiate the "RESET" or return to normal message. If the INPUT PULSE field has been set to Yes, a change in condition from closed to pulse will initiate the "PULSE" message. A change in condition on any given input from the "PULSE" state to the "RESET" state (normally open or normally closed as configured in the "INPUT STATUS" field) will initiate the "RESET" message. A change in condition on any given input from the "PULSE" state to the "ACTIVE" state will not initiate any message. A change in condition on any given input from the "ACTIVE" state to the "PULSE" state will not initiate any message.

(8) Date should be set to current date. Use the <PAGE UP>/<PAGE DOWN> or <NUMBER> keys to set the date in the following format: (mm\dd\yy).

(9) Time should be set to the current time. Use the <PAGE UP>/<PAGE DOWN> or <NUMBER> keys to set the time in 24 hour format: (hh:mm:ss)

USE THE F1 KEY TO SAVE YOUR CHANGES BEFORE EXITING THIS MENU. USE THE <ESCAPE> KEY TO RETURN TO THE MAIN MENU. Back To Index

MESSAGES SETUP MENU - DESCRIPTION AND PROGRAMMING

The "Messages Setup" menu is used to define the parameters associated with each individual input point . All inputs for the entire system are set up using this menu (Input points on the master API-64 and any Expansion Modules). Messages Setup Menu Display

------MESSAGES SETUP------STATION : SHIFT1: :00 SHIFT2: 00 INPUT: ID1: ID1: PRIORITY: ID2: ID2: ELV MIN: ID3: ID3: MESSAGE: ------<--<F1> SAVE <f2> PRINT------PAGE 4-4 (1) Station defines the device that is to be programmed. Each device (API-64 or API-64EM) that is part of

the system has a station number. The Alphanumeric Paging Interface (API-64) is always station number 01 regardless of the number of stations (devices) on the network. See Page 3.3 for instructions on addressing each of the expansion modules on the network. This field will not accept a station number greater than that specified in the SYSTEM SETUP MENU in the "STATIONS" field. Use the <PAGE UP>/<PAGE DOWN>keys to increment/decrement the station number of the device to be programmed or enter the station number using the < NUMBER> keys.

(2) INPUT is the number of the input (as labeled on the API-64 or API-EM) that is to be programmed. The input number corresponds to the position the point is connected to on the pluggable terminal block. Use the <PAGE UP>/<PAGE DOWN>keys to increment/decrement the input number or use the number keys to enter the number of the input that is to be programmed.

(3) PRIORITY: The priority level determines the order of processing contact status change information. Inputs assigned higher priorities (A= highest priority) will have changes of state paged before those with a lower priority (J= lowest priority). Use the <PAGEUP>/<PAGE DOWN>keys to increment/decrement the priority level for the messages for the selected input.

(4) ELV MIN defines the interval in minutes between escalations. There are two levels of escalation if an "ACTIVE" or "PULSING" condition exists on a given input for longer than the time defined in this field. "ACTIVE" and "PULSING" conditions are processed to be sent to ID1 as soon as the given condition occurs on the system. If the "ACTIVE" or "PULSE" condition does not return to normal ("RESET") before the first escalation time expires then the same message is processed to be sent to ID2. If the "ACTIVE" or "PULSE" condition does not return to normal ("RESET") before the second escalation time expires then

the same message is processed to be sent to ID3. The field is variable from 1 to 30 minutes in 1 minute increments. Use the <PAGE UP>/<PAGE DOWN>keys to increment/decrement the ELV MIN or enter the ELV MIN using the <number> keys. Back To Index

NOTES:

If no escalation is required for a given input then set the ELV MIN to 0 and do not program any pager ID numbers in the ID2 and ID3 fields for shift 1 or in the ID5 and ID6 fields for shift 2.

If only one level of escalation is required then set ELV MIN to the desired interval and program in the desired pager number in the ID2 field for shift 1 and the ID4 field for shift two. Do not program any pager ID numbers in the ID3 and ID6 fields.

The escalation paging feature applies to "ACTIVE" and "PULSING" conditions only. No escalation paging is done when an input returns to its' normal ("RESET") position.

(5) MESSAGE: This field is used to program the message text for each of the states that are to be reported via the paging system. Select the state to be programmed ("ACTIVE", "RESET" or "PULSE") using the <PAGE UP>/<PAGE DOWN>keys. Type the message for the selected state. The message will appear in the message text field (below "MESSAGE"). Use the <PAGE UP>/<PAGE DOWN>keys to move to the next state which is to be programmed.

NOTES:

If "INPUT PULSE" is set to "NO" in the "SYSTEM SETUP" menu then there will be no "PULSE" selection available in this field.

Up to 80 characters of text can be programmed for each state.

If there is an existing message programmed for a given state, the message text will be replaced in whole by any new data which is entered. There are no text editing features or commands available for this field. A message that is programmed in for "PULSE" will only be sent when the input contacts that are connected pulse at an interval of not more than five seconds (the time it takes to go from open to closed and back to open again or from closed to open back to closed).

If no text is programmed in for a given state, no message will be generated when this condition occurs.

(6) SHIFT1/SHIFT2: These fields provide for the programming of two separate shift schedules. The shifts are established by setting a start time for the first shift in the SHIFT1 field and a start time for the second shift in the SHIFT2 field. The start times are set in the hh/mm/ss format. The start time of the first shift (SHIFT1) is the end time of the second shift. The start time of the second shift (SHIFT2) is the end time of the second shift. The start time of the second shift (SHIFT2) is the end time of the first shift. Leave the SHIFT1 and SHIFT2 fields blank if shift paging is not required Use the <PAGE UP>/<PAGE DOWN>keys to increment/decrement the start times or use the <number> keys to enter the times.

(7 ID1 through ID6: These fields are programmed with the pager ID numbers that are to receive the messages for any given change in condition for the selected input. The Pager ID number. (This is the number that is specifically assigned to the pager or group of pagers that will be notified by a given input. The pager ID number may be a three to ten digit number. ID1, ID2 and ID3 are paged during the SHIFT1 time period according to the other parameters that are programmed in the "MESSAGES SETUP" menu (ie "ELV MIN"). ID4, ID5 and ID6 are paged during the SHIFT2 time period according to the other parameters that are programmed in the selected input.

Enter the pager ID numbers that have been provided by the paging carrier or system manager for the individual pager or group of pagers in the appropriate ID fields. Pager ID numbers that are from three to ten digits in length are entered using the <number> keys.

(8) Use the <F2> key to print the MESSAGES SETUP MENU on the parallel printer connected to the system. When this print function is initiated a MESSAGE SETUP menu for each input on the selected station will be printed. This printout can be used to confirm that all of the inputs and parameters are

programmed correctly and can serve as a hard copy back up of the same. Press the <Escape> key to stop printing.

REMEMBER TO USE THE F1 KEY TO SAVE YOUR CHANGES BEFORE EXITING THIS MENU. USE THE <ESCAPE> KEY TO RETURN TO THE MAIN MENU. PAGE 4-6 DATA LOGGING HISTORY - DESCRIPTION AND USAGE Back To Index

DATA LOGGING HISTORY"

The "DATA LOGGING HISTORY" menu is used to review and print input status changes that are stored in the data log. The log file holds the last 1000 status changes in memory. The input log retains the time and date of the event, the text message that is associated with that event and the pager ID number that the event text was sent to.

Data Logging History Menu

------DATA LOGGING HISTORY------START: 09/30/96 10:20 (MM/DD/YY HH:MM) (a) END: 10/01/96 10:20 (MM/DD/YY HH:MM) (b) ITEM: 001 OF 001 (c) 09/30/96 10:20:00 01-03-ACTIVE ID#1234 (d) ROOM 101 BEDSIDE NEEDS ASSISTANCE (e)

-----<F2> PRINT <F3> SEARCH ------

DATA LOGGING HISTORY: Enter the "DATA LOGGING HISTORY" screen by selecting this menu from the "MAIN MENU" and typing <ENTER>. The menu as shown above displays the last input status change that occurred on the system. The display provides the following information:

(a) START: Shows the date and time of the last data log entry.

(b) END: Shows current date and time.

(c) ITEM: The last log entry from the START and END date and times is item one of one.

(d) The line under "ITEM" shows the date and time of the last log entry, the station and input number that the logged entry is for, and the ID number of the pager or group of pagers that the logged message was sent to.

(e) The message text for the last log entry.

Viewing and Printing the DATA LOGGING HISTORY - The DATA LOG can be viewed and printed for a specific time period. The system user sets the time parameters and can then view and/ or print data log entries that occurred within the defined time period one at a time

(1) Set the "START" date and time by moving the cursor through these fields using the directional arrow keys (<UP> <DOWN> <LEFT> <RIGHT>). Use the <PAGE UP> <PAGE DOWN> keys to increment/decrement data or enter data using the <NUMBER> keys.

(2) Set the "END" date using the same method described to set the "START" date and time.

(3) Using the directional arrow keys (<UP> <DOWN> <RIGHT> <LEFT>) move the cursor to the "ITEM" field (so that the field data is flashing).

(4) Type <F3> to Search. The system will search for all of the log events that occurred between the "START" and "END" dates and times. The search process takes about 30 seconds during which time the screen displays <SEARCHING> on the last line.

(4) Once the system has completed the search process, the "ITEM" field will indicate how many items or separate events are stored in the data log for the period between the START and END dates and times. The last (newest) event that occurred during the defined time period will be displayed and is designated "ITEM" 001 of XXX. Use the <PAGE UP> <PAGE DOWN> keys to view each of the logged events, one message at a time.

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(5) Press \langle F2 \rangle to print all of the items which are stored in the DATA LOG for the defined time period. Use the \langle ESCAPE \rangle key to stop printing.

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API-64RM PROGRAMMING INSTRUCTIONS

This section explains how to set paging functions for the API-64RM remote dial module. The unit is programmable via any DOS based computer with a communications port. The programming kit supplied with the API-64RM is required to set the unit up for paging functions. Before you begin you should obtain the following information from your paging company or system manager and have it available:

(1) The Paging Terminal Telephone Number (for an IXO Port). (This number is supplied by the paging company or system manager for sending alphanumeric messages from a PC or a dedicated alphanumeric message entry device via the telephone system)

(2) The Paging Terminal Password. Some paging companies/systems require a password. Most do not and this section of the programming menu may be left blank.

PROGRAMMING NOTES:

1. When Programming the Terminal Number, the @ character may be inserted to provide a one second pause. You may wish to use this if you must dial 9 before dialing a number outside of your facility or organization. A pause of a few seconds will leave enough time to obtain dial tone before the API-64RM begins its dialing sequence.

Example 9@@@5551111

2. If you are reprogramming a previously programmed unit use the backspace key to erase previously programmed data.

4. When you reach the end of the allowed data field when programming one of the parameters the cursor will freeze, and no key strokes will be echoed back. Back To Index

PROGRAMMING PROCEDURE

1. Start the computer that is to be used for the programming.

2. Connect the serial cable supplied with the Programming Kit from the Program/RS232 Port on the API-64RM to a communications port on the PC.

3. Insert the Programming Disk into a floppy drive.

4. At the DOS prompt type A: or B: (the location of the programming disk) and press <ENTER>. 5. At the A:\> or B:/> prompt type "TERM 1 1200" or "TERM 2 1200" and then press <ENTER>. The number one or two in this command indicates the COM PORT that the programming cable is connected to. The screen should now read:

Monitor Technologies Inc Programming System REV 1.1 API-64RM

Type <CTRL> N to exit program

6. Momentarily power down the API-64RM and then power it back up.

7. Press the <ENTER> key within 5 seconds of powering the unit back up.

8. "Dial no:" should appear on the screen of the computer that you are using. Enter the paging terminal telephone number that you obtained from the paging supplier or system manager <NUMBER> keys. Remember to include the area code if required. Include any other digits, or pauses required in the dial string to obtain an outside line if required. Press <ENTER>

9. "Password:" will appear. If the paging company or system uses a password, enter the number that was supplied to you. If the paging company or system does not use passwords (most do not) leave this field blank and press the <Enter>key. Type <CTRL> <N> to exit the programming. Connect the API-64RM to the API-64 using the cable supplied as shown in the connection diagram on page 3-2.

WARNING: CONNECTING A TELEPHONE LINE TO THE PROGRAMMING/RS232 PORT ON THE API-64RM WILL CAUSE DAMAGE TO THE UNIT. REFER TO THE CONNECTION DIAGRAM ON PAGE 3-2 OF THIS MANUAL.