

READYKEY® K6000 Central Network Controller and K6000-MS Multi-Site Central Network Controller

User's Guide

Including K6000-R Remote PC

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Radionics, Inc.
c/o Technical Writing Dept.
1800 Abbott Street
Salinas, CA 93901

FCC Notice

This equipment generates and uses radio frequency energy. If not installed and used in accordance with the manufacturer's instructions, it may cause interference to radio and television reception. It has been tested and found to comply with the limits of restricted radiation devices which are used as field disturbance sensors pursuant to Subpart F of part 15 of FCC rules, which are designed to provide reasonable protection against radio communication interference. The operator of a field disturbance sensor, who is advised that his sensor is causing interference to an authorized radio service shall promptly stop operating the sensor, and operation shall not be resumed until the condition causing the harmful interference has been eliminated. The user, at his expense, will be required to take whatever measures may be required to correct the interference.

If necessary, the installer should consult an experienced radio/television technician for additional suggestions, or send for the "Interference Handbook" prepared by the Federal Communications Commission. This booklet is available from the U.S. Government Printing Office, Washington D.C. 20402, stock # 004-000-00450-7.

FCC Registration Number: IDHM32Y6K2000

Listing

UL 294—Access Control System Units

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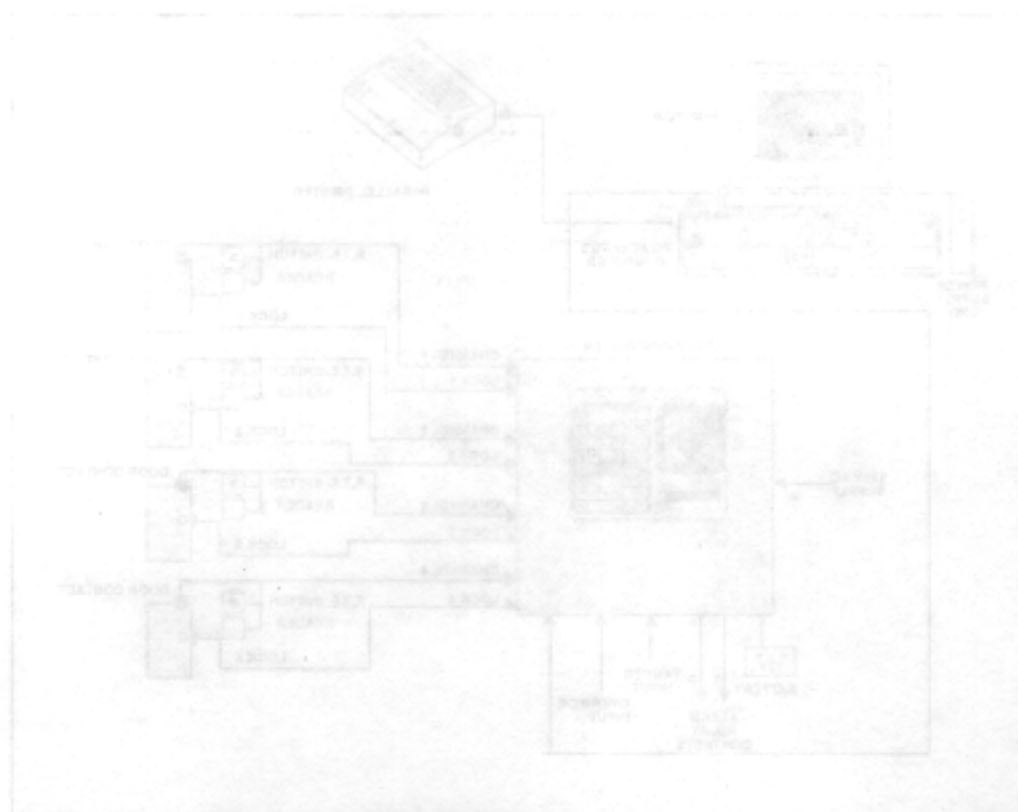
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The K6000/K6000-MS system is a modular system that can be configured to meet the needs of a wide range of applications. The system is composed of a central processing unit (CPU) and a variety of peripheral devices. The CPU is the heart of the system and is responsible for executing the program. The peripheral devices include the keyboard, monitor, printer, and hard disk. The system is designed to be flexible and can be expanded to include additional devices as needed.

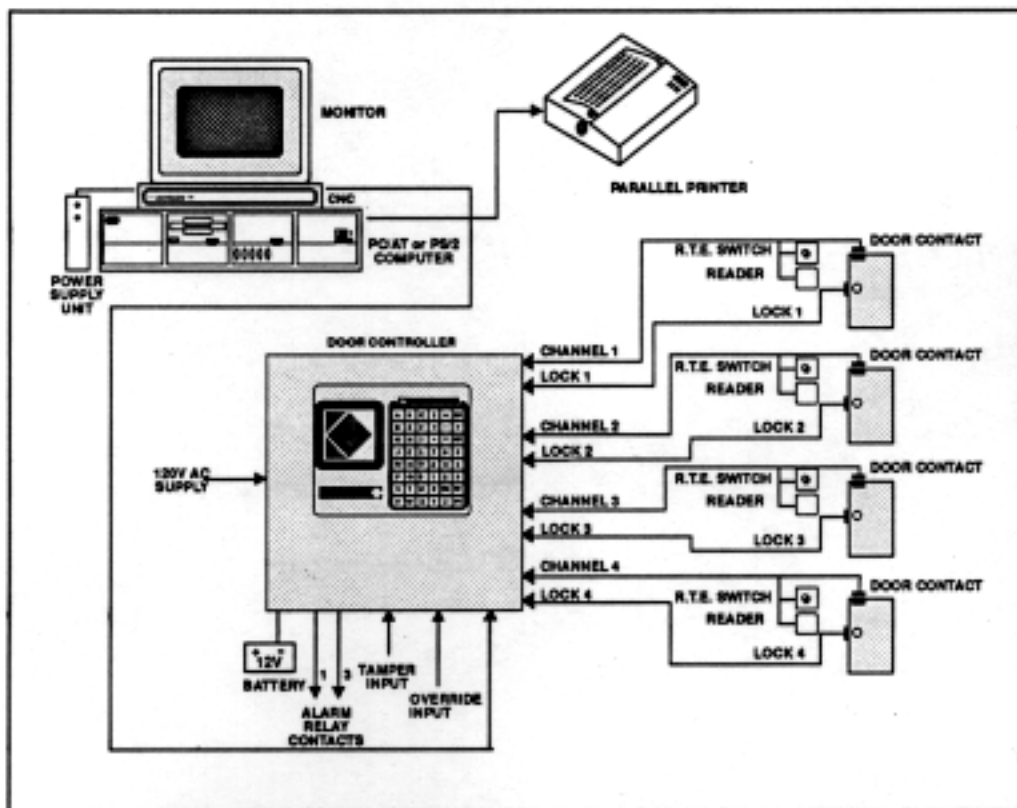
Introduction

The READYKEY System is based on the successful non-contact technology that has already established READYKEY in access control.

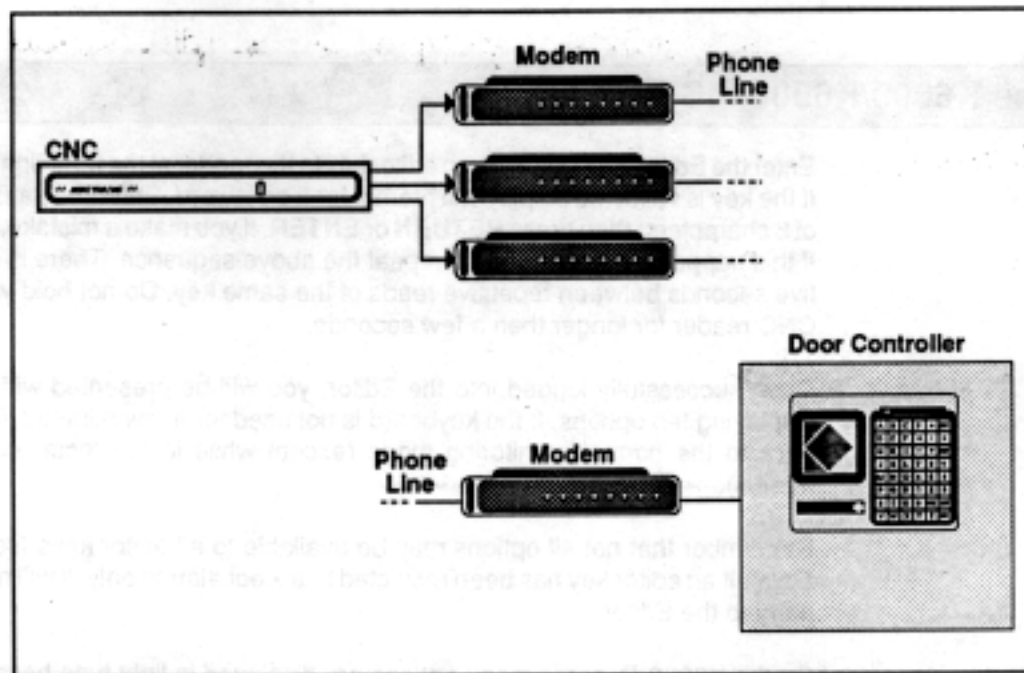
Personnel, access points and alarm points can be monitored from remote sites at one central site. All administration and reporting takes place on a Master PC, (a standard IBM PC/AT or PS/2 or compatible computer) situated at a central location.

The centralized equipment consists of the Master PC and printer, a READYKEY K6000 or K6000-MS Central Network Controller (which handles all system communications), and a separate power supply unit (included with the K6000 and K6000-MS). If there are multiple sites (K6000-MS), modem equipment and communications lines will also need to be installed.

Door control is performed by at least one READYKEY K2000-N Door Controller (D/C), each one capable of controlling up to four access points. In single site applications, a single 6 wire cable links up to 32 K2000-N Door Controllers to the Central Network Controller (hereafter referred to as CNC) for a total of 128 access points.

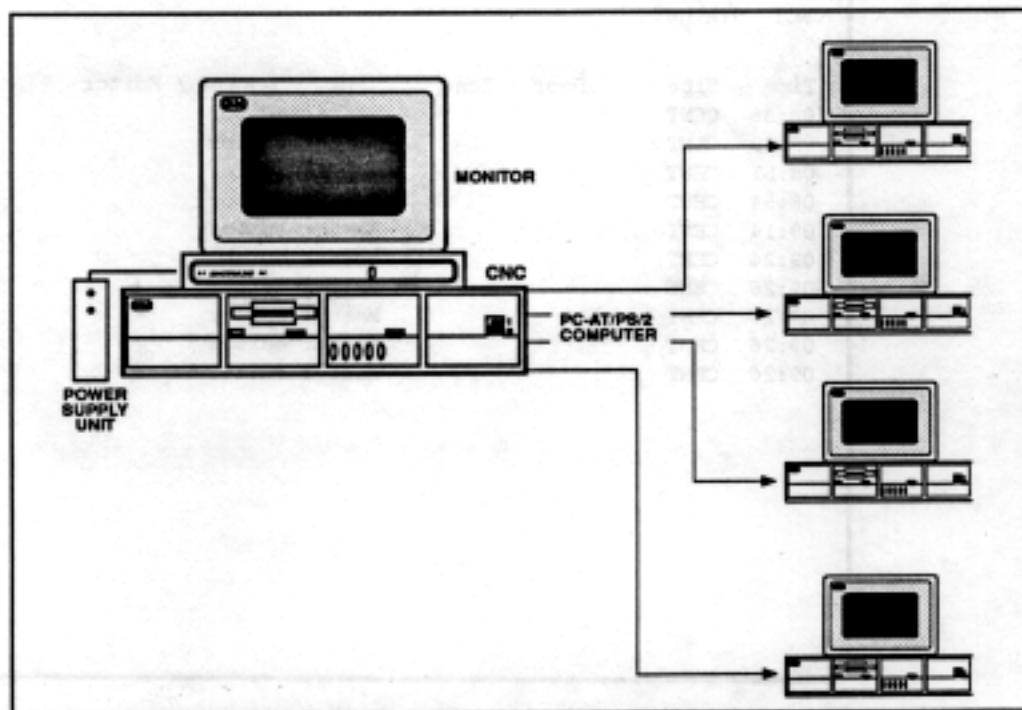


Door controllers on remote sites are linked back to the CNC using standard RS232 communications via either leased line or dial-up modems. Up to three separate RS232 links are available on the CNC. All communication options are programmable via the PC, and include up to two daily automatic dial-up times for dial-up linked sites.



Communications and control are carried out by the CNC without any intervention from the PC computer. Both database updates and event reports are performed automatically once the system is installed. Additional serial ports may be added to the Master PC. These are used to connect to additional PCs (optional), used for monitoring the system.

System updates and reporting are achieved quickly and efficiently using a simple menu-driven operating system and full-screen database operator.



The K6000/K6000-MS Editor

Enter the Editor by presenting an editor key to the reader at the front right side of the CNC. If the key is valid, the display will prompt for a password. Enter the password (maximum of 8 characters) then press **RETURN** or **ENTER**. If you make a mistake, the PC will beep. If this happens, press **ESC** and repeat the above sequence. There is a built in delay of five seconds between repetitive reads of the same key. Do not hold your key up to the CNC reader for longer than a few seconds.

Once successfully logged into the Editor, you will be presented with the Main menu displaying ten options. If the keyboard is not used for a few minutes, the Editor will exit back to the normal monitoring mode (except while in the Installation Configuration menus).

Remember that not all options may be available to all editor keys (see *System Editor Data*). If an editor key has been restricted to accept alarms only, it will not be able to gain entry to the Editor.

On the K6000-R, some menu options are displayed in light type because they are not available. If the remote or master is editing a specific screen, the other users will not be able to edit that screen even though they can view it.

Transaction Monitoring Display

Radionics Inc. Readykey K6000-MS: Rev 1.1 v2.39 09:25:30 3/9/92

PC LINKS: CNC1

CNC1 STATUS:

Time	Site	Door / Zone	ID	Name / Editor	Transaction
08:36	CENT			Master editor	Editor On
08:49	CENT			Master editor	Editor Off
08:51	CENT			Master editor	Editor On
08:54	CENT			Master editor	Editor Off
09:14	CENT			Master editor	Editor On
09:24	CENT			Master editor	Editor Off
09:26	CENT			Master editor	Editor On
09:26	CENT			Master editor	Editor Off
09:26	CENT			Master editor	Editor On
09:26	CENT			Master editor	Editor Off

When the Editor program is operating, the user has the choice of two different monitoring displays — the Transaction Monitoring display and the Doors and Alarm Status display.

Unless an Editor Key is used to gain access to the menus, these are the only two displays available.

PC Links	Followed by CNC1, CNC2, Rem1, Rem2, Rem3, Rem4 or AUX, indicating the status of the CNC or other device with the PC.
CNC1 Status	Indicates the number of door controllers assigned to each site and the number that are communicating and on-line (e.g., Site: 1-14/14).
Time	The time the event occurred in the door controller. Alarms that occur while the PC is OFF-LINE from the CNC can be manually acknowledged at the CNC. When the PC is brought back ON-LINE, these alarms are reported with the time of occurrence to the PC. Sensor restorals are similarly reported. Acceptance must also be carried out at the PC. Transactions can be routed by type and time to the screen (and highlighted) and/or printer. Those that are marked for a personnel trace are shown in a different color and are printed. The PC is OFF-LINE with the CNC when in the Configuration menu.
Transaction	A list of transactions, and their explanations can be found under <i>Transaction Types</i> .

Alarms from the Alarm Modules requiring acknowledgement appear at the bottom of the editor screens. To acknowledge the alarms, return to the Transaction Monitoring display. Only the first alarm is displayed at the bottom of the screen. Alarms are handled in the order in which they are received at the PC.

Note: Events only print while in the Transaction Monitoring Display. No events print while in the Door and Alarm Status Display or while in the Editor.

Update

A display along the bottom of the Transaction Monitoring Display and Door and Alarm Status Display will indicate the progress of any Download Update to the door controllers.

Auto Index Checking

The system automatically detects problems with the personnel, visitor and editor key and name indexes. Validity checks are made on the index during:

1. Editing, printing and displaying of an indexed file.
2. Transaction printouts that involve retrieving personnel or visitor or editor names.

If an indexing fault is found, the following message will appear at the bottom of the screen:

Indexes require re-ordering, Please wait

A count will appear on the right side of the screen which indicates the progress so far. Duplicate records are marked '0-9'.

Doors and Alarm Status Display

Radionics Inc. Readykey K6000-MS:		Rev 1.1 v2.39	09:25:30	3/9/92
Site 1:	D/C:	--Last Updated:		
Special Condition:				
Door	Door Name	Door Status State	Override	Alarm
1				
2				
3				
4				
Alarm Zone Status				
Zone	State	Zone	State	Zone

Press S to change to the Doors and Alarm Status Display.

Special Condition Override Alarm or Enclosure Tamper events reported here.

Door Status State This is Locked, Unlocked or Open (if door monitoring is enabled).

Override EMERGENCY, D/C OVERRIDE, Automatic, Manual Lock or Manual Unlock will be displayed here.

Alarm Tamper/Forced or Left Open appear here.

Alarm Zone Status State Clear, Alarm, Iso, Manual Iso, Auto Iso appear here.

If an alarm occurs, the date, time, location and transaction are shown at the bottom of the screen. Return to the Transaction Monitoring display to view any text messages associated with the alarm, and to acknowledge alarms. You must return to the Transaction Monitoring display before entering the Editor.

The bottom of the screen also shows the status of any updates that are in progress to the CNC and connected door controllers.

Use the up and down cursor keys to change the display to other door controllers on-line. Press ESC to change to the Transaction Monitoring Display. Press PGUP, PGDN, F7 or CTRL/F7 to change to a different site.

Alarm Acceptance at a K2000-N

Editor keys may accept an alarm at a K2000-N door controller. There are two types of alarms reported at the door controller display:

- Door Monitoring alarms
- Alarm Module Input Point alarms (when optional K2015 Alarm Module is installed).

The door controller display indicates the status of each channel in the following way:

CH-*nn* *D*

nn = The reader channel number 01 to 04.

D = Status of the Door Monitoring alarm.

Flashing *D* = Door alarm warning. An audible beep sounds. Acknowledgment with an editor key is required.

Steady *D* = Door alarm is still present although a key was presented to the door controller.

***D* not present** = Door alarm is not present.

Status of the Alarm Module Input Point alarms are shown in the following way:

12345678

Flashing number = Alarm warning. A beep sounds. Acknowledgment with an editor key is required.

Steady number = The number appears steady after the presentation of a key.

Number not present = Number disappears when the cause of the alarm is cleared.

Presenting an editor key once to the front panel reader acknowledges all alarm conditions for the channel number displayed.

If alarms are reported on 3 channels, the editor key must be presented to the door controller reader 3 times. If the alarm input points are not restored each channel number will be displayed until the alarm input point is restored.

Manual Test

UL 294 *Standard for Safety, Access Control Systems Units* requires that you manually test critical system components periodically. A critical component is one whose malfunctioning will impair the operation of the product or will create the risk of fire or electric shock.

The manual test, described below, consists of testing the following system components:

- Power supply
- Doors, readers, and monitoring points
- Network connection and event storage/retrieval

Power Supply

1. Verify that AC power is supplied to each door controller by ensuring the red AC indicator lamp is ON for each door controller.
2. Verify that AC power is supplied to the Central Network Controller (CNC) by ensuring that the red AC indicator lamp is on at the CNC power supply unit.
3. Verify that the battery is properly connected by removing AC power from each door controller and verifying that the door controller continues to operate correctly.
4. Verify that the battery is properly connected to the CNC power. If the green LED is ON either a fully-charged battery is connected or no battery is connected at all.
5. Reconnect AC power to each door controller and the CNC.

Doors, Readers, and Monitoring Points

6. Verify the operation of each reader with an authorized Electronic Key. This process also verifies the operation of the locking mechanism and reader RED/GREEN, GREEN, or RED/YELLOW/GREEN LED.
7. In systems where a request to exit is used, verify the operation of each R.T.E. device. This process also verifies the operation of the locking mechanism.
8. In systems where the reader operation provides an alarm signal bypass, test the operation of the alarm signal by opening the door (for example, from the inside) without an electronic key or request to exit, and then observing the alarm condition.
9. In systems where points (alarm modules) are monitored, test each point by activating the alarm point without a bypass on the point, and observing the alarm condition.

Network Connection and Event Storage/Retrieval

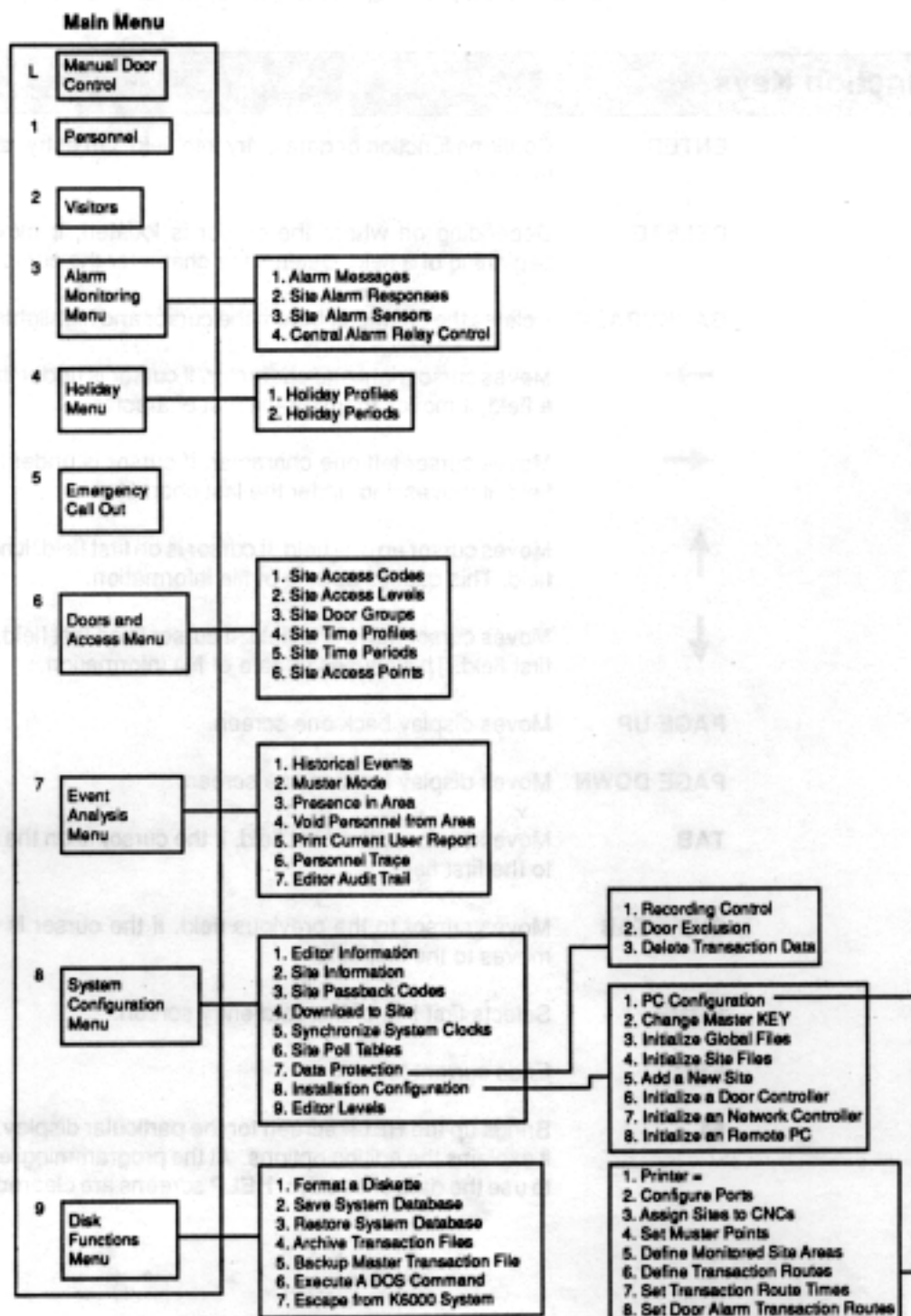
10. Events that occur at each door controller in a K6000/K6000-MS network will be transferred to the K6000/K6000-MS for storage and/or manual acknowledge. Verify that events occurring at K2000-N door controllers connected to network are passed to the CNC. The door controller number should appear in the display of each K2000-N in the network. Also, each K2000-N should display the status of the individual channels.
11. Verify that database and editing changes made at the CNC are communicated to each K2000-N. Add a key to the system with authority at each door controller. Verify this programming change by using the key at each reader on each controller.
12. After testing each reader on each controller, delete the key and verify that the key does not operate doors on each controller.
13. Print a report to document the manual tests performed (reflecting the event storage and retrieval) and retain until a subsequent manual test is performed.

When you have completed these tests, ensure that the system has been returned to normal operation mode.

System Menus

Editing features are 'menu driven', i.e., the user is requested to make one of a series of choices to carry out particular editing functions.

The following figure shows the relationship between the K6000 menus, and provides an illustration of the way in which all files and sub menus can be reached from the Main menu.



Keyboard Operation, Editor Structure and Screen Layout

Entry into menus and files is by the keyboard from the main or sub menus. The **ESC** key is used as a convenient means of exit. It causes the system to terminate the current editing task and return to the next level up in the command structure. All invalid key strokes are ignored, and an audible beep is issued in response to some of these.

All relevant key functions are detailed in this chapter. As data is changed in the data-base, it is highlighted in red. This signifies that it is *not yet confirmed*. To confirm entry, press **ENTER**. If **ENTER** is not pressed, the field will retain its original contents.

Function Keys

ENTER	Confirms function or data entry into field. On entry, data turns from red to white.
DELETE	Depending on where the cursor is located, it moves to the end or beginning of a field. Deletes the character the cursor is located under.
BACKSPACE	Deletes the character before the cursor and highlights other characters.
	Moves cursor right one character. If cursor is under the last character of a field, it moves to under the first character.
	Moves cursor left one character. If cursor is under first character of a field, it moves it to under the last character.
	Moves cursor up one field. If cursor is on first field, it now selects the last field. This causes update of file information.
	Moves cursor down one field. If cursor is on last field, it now selects the first field. This causes update of file information.
PAGE UP	Moves display back one screen.
PAGE DOWN	Moves display forward one screen.
TAB	Moves cursor to the next field. If the cursor is on the last field, it moves to the first field.
SHIFT/TAB	Moves cursor to the previous field. If the cursor is on the first field it moves to the last field.
HOME	Selects first line of the data entry screen.
ESC	Ends current task.
F1	Brings up the HELP screen for the particular display. At the Menu level it explains the editing options. At the programming level it explains how to use the data entry keys. HELP screens are cleared by pressing ESC .

Function Keys (cont'd.)

- F2** Selects a specific record for editing. When editing personnel, visitor or operator records, entering a name will alphabetize the records, and select the record with the nearest match to the entered name. Entering a number will numerically list the records, and select the record of the number entered. A Record Selection prompt appears at the bottom of the screen. Enter your selection here. Then press **ENTER**.
- SHFT/F2** Marks a keyholder for Personnel Trace (an asterisk appears next to the user's name). **Do not use SHFT/F2 in any other screen.**
- ALT/F2** Selects the first available blank name field. This only functions on personnel, visitor or operator data records.
- F5** Copies the current field contents into the template. Used with **F6** for block copying fields. **Do not use with multi-line records.**
- ALT/F5** Copies the selected field of the record to the template. **Do not use with multi-line records.**
- CTRL/F5** Clears the selected field (at the cursor) from the template.
- F6** Copies the current template contents of the field you are in to the field. Will not copy name fields into personnel, visitor, or operator records. **Do not use with multi-line records.**
- SHFT/F6** Clears field at the position of the cursor. Will not work on name fields in personnel, visitor or operator screens.
- ALT/F6** Copies the current template contents to all fields in the record. Will not copy name fields in personnel, visitor or operator fields. **Do not use with multi-line records.**
- F7** Moves to the next site.
- CTRL/F7** Allows you to change to a different site by entering the site number.
- F8** Prints a specified number of records from the selected file. Note that when printing personnel, visitor, or operator records, only those records with assigned names are printed. The system will search for the specified number of valid records and will display the number of records it is searching for. Printing always terminates at the last record in the file.
- Note:** **F8** is not used on history analysis records. Press **ESC** at any time to stop printing.
- F9** Add keys. Functions only on personnel, visitor and operator records. Adds the key presented to the current record. Only functions if a name has been previously assigned to the record, and it has no key. Press **ESC** to end the function.

Function Keys (cont'd.)

ALT/F9 An automatically repeating version of F9. Terminates when no records with names or keys remain, or when ESC is pressed.

F10 Voids personnel, visitor or operator records. Voids the current record as long as it has an assigned name. Requires Yes/No confirmation before void is executed.

TEMPLATE Allows an area of data to be duplicated through different records. To transfer data from the records to the template, place the cursor at the desired information and press F5. This information appears in the template. To transfer data from the template into the record field, place the cursor where you want the information to appear and press F6. The information is placed in the record field.

Note: During editing, any changes performed at the K6000 are only sent to the CNC and door controllers when the cursor is moved to another record, or editing is ended using ESC. Changes to remote sites are sent at the pre-defined call-out times, or when a Download to Remote Site command is issued.

All transaction report printing and alarm acknowledgments are suspended during editing and resume on exit from the Main menu.

All critical DOS errors that can occur on a PC are taken care of by the system. Whenever a critical (I/O) error occurs, the system will retry up to three times before a window appears in the middle of the screen.

With most I/O errors the user has three options:

ABORT The user presses A to exit back to DOS.

RETRY The user presses R to force the system to retry.

FAIL The user presses F to force the system to abandon what it is trying and recover as best as possible.

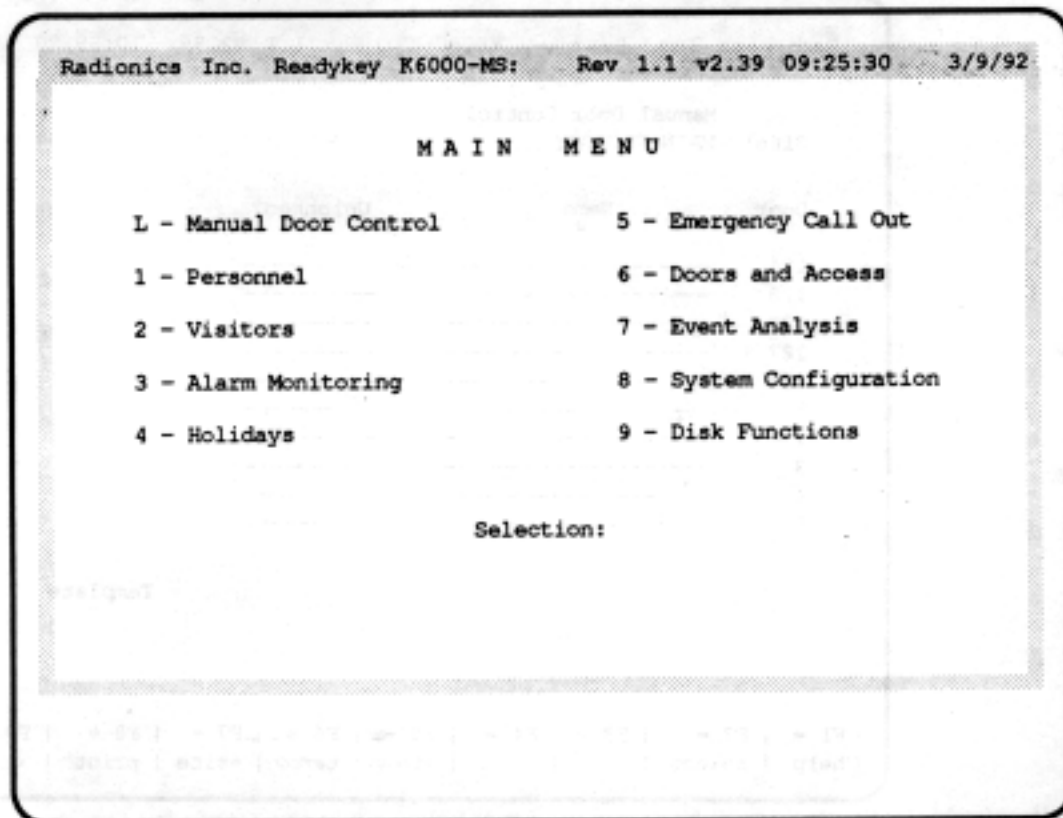
The K6000 and K6000-MS software produces the "Index Required" message when it determines that the database index does not match the database correctly. Take the following precautions to reduce the occurrence of this message:

- Do not power-down or reset the computer without first exiting from Personnel Editing back to the main menu.
- Avoid pressing F1 (Help) while the cursor is positioned on the Access Code field.
- Do not allow the editor to "time out" while in the F2 Record Selection mode.

The correct procedure for reindexing the database is:

- Exit the Readykey editing system (go to DOS).
- At the P6000 directory, type P6UTIL SORT. Then press RETURN.
- The utility program will ask you if the sort should be on Personnel, Visitors, and Editors. Answer Y for each.
- The utility will quickly sort through the database and list any errors discovered in the Personnel, Visitor, or Editor databases. Delete and re-enter these records from the Readykey system after the utility is finished.
- When the utility is finished, return to the Readykey system by typing PC6000 at the P6000 directory.

The Main Menu



The Main menu is the 'gateway' to the editing functions available to the user. The screen presents a range of options available to the user. These are selected by choosing a number 1 to 9, or L.

Any information entered by the user into the databases requires pressing **ENTER**. When information is accepted, the characters change from red to white. The **TAB** key enables the user to move between fields in a record. A constant reminder of the function keys (F1 to F10) is available along the bottom of the screen. If a function key (e.g., F2 - **SELECT**) is pressed when the function is not available on that screen, a beep may sound.

Manual Door Control (Main Menu - L)

```
Radionics Inc. Readykey K6000-MS: Rev 1.1 v2.39 10:35:20 12/20/92

Manual Door Control
Site: MAIN FACTORY

Door      Name      Unlocked?
-----
124      -----
125      -----
126      -----
127      -----
128      -----
1        -----
2        -----
3        -----
4        -----
5        -----

- Template

F1 = | F2 = | F3 = | F4 = | F5 = | F6 = | F7 = | F8 = | F9 = | F10 =
help | select | | | | >temp | temp> | +site | print | |
```

Door The door number for this site (1-128).

Name The door name assigned in Site Access points (Door and Access Menu - 6). An unassigned door is displayed as "-----".

Unlocked? The current state (Normal or Unlocked). Press the **SPACE** bar to toggle between Normal and Unlocked, then press **ENTER**.

Use **F7** or **CTRL/F7** to select a different site (K6000-MS only).

1. To unlock a door.

A door that is unlocked by the user will stay unlocked until the user tells it to lock again OR a time profile tells it to lock.

2. To lock a door.

A door that is locked by the user will behave like an ordinary door without a time-profile; this means that access is permitted to the valid key holder, and the usual Request-to-Exit and Emergency Override inputs will operate the door lock.

Note: the user cannot lock doors that have been unlocked by:

- an emergency override alarm,
- a fire alarm,
- a valid access attempt.

Personnel (Main Menu - 1)

Radionics Inc. Readykey K6000-MS: Rev 1.1 v2.39 10:35:20 12/20/92

Personnel
Site: MAIN FACTORY

Personnel	Name	Em. Code	Holiday Profile	Access Code	PIN
9995		000	00	000	0000
9996		000	00	000	0000
9997		000	00	000	0000
9998		000	00	000	0000
9999		000	00	000	0000
1	SHEAMUS HEANEY	000	T 00	000	9311
2	WILLIAM YEATS	000	T* 00	000	7700
3	OCTAVIO PAZ	000	T* 00	000	8859
4	AMY LOWELL	000	T 00	000	0670
5	HUGH MEREDITH	000	T 00	000	0571

- Template

F1 - | F2 - | F3 - | F4 - | F5 - | F6 - | F7 - | F8 - | F9 - | F10 -
| help | select | | | | >temp | temp> | +site | print | add | void

The personnel file holds information relating to all keyholders present in the system.

Description of Personnel Fields

Personnel	The ID number used to refer to this keyholder. Personnel can be assigned IDs in any order. Keyholders will be displayed in either numeric or name order depending on the previous F2 select command.
Name	A 20 character keyholder name. The name can not begin with numbers or spaces. It must be entered in capital letters. It must be unique.
Em. Code	The Em. Code (0-127) references the Emergency Call Out Data (see <i>Emergency Call Out</i>).
Holiday Profile	The Holiday Profile (1-24 or 0) assigned to this keyholder. A zero entry disables the holiday feature for that keyholder. A valid Holiday Profile prevents access by a person for the time the profile is active.
Access Code	The Access Code (1-128 or 0) assigned to the keyholder. A zero entry locks out all door access for the key assigned to this keyholder.

PIN

A four digit Personal Identification Number derived from the assigned key code. Only displayed and printed if the editor has the acceptable editor level. This number cannot be changed.

A "T" against a keyholder's name signifies a key is assigned to that record.

An " * " indicates that a personnel trace is active for the user (activated by pressing SHFT/F2).

To Add New Personnel

1. Use the cursor keys or **ALT/F2** to select the next free line.
2. Check all fields are clear.
3. Type in the keyholder name in the Name field, then press **ENTER**.
4. If there is more than one keyholder to add, repeat 1, 2 and 3 for each as required.
5. With the cursor still on the Name field, press **F9** to add a key for the user.
6. If you have more than one key to add, use **ALT/F9** to add in blocks. The list of keyholders will now be sorted alphabetically by users with no associated token.
7. Present keys to the PC reader, or type in key codes until required records are added. Adding may be terminated using the **ESC** key.
8. Assign a Holiday Profile and an Access Code for each user as required.

Remember: If a number of keys have identical data, the most efficient way to add them is to use the template. The template allows an area of data to be duplicated through different records. Place the cursor at the desired information and press **F5**. The information will appear in the template. Move the cursor to the desired records and press **F6**. whatever is in the template appears in the field at the position of the cursor, and is automatically entered. **SHFT/F5** clears the template.

Note: The template does not function in keyholder name fields.

To Void Personnel

1. Move the cursor to the keyholder name field.
2. Press **F10**.
3. Press **Y** to void the record; **N** or **ESC** to abort the void command.

Note: Historical information is recorded by keyholder number, not name. Use caution in re-issuing keyholder numbers immediately to new users, because historical data will reference the new user name. For clarity of historical information, enter a description in the name field of voided personnel, indicating the prior name and date voided. Use an Access Code of 000 for these entries.

Note: Use **F7** or **CTRL/F7** to select a different site (K6000-MS only).

Personnel Printout (F8)

```
Radionics Inc. Readykey K6000-MS: Rev 1.1 v2.39 09:25:30 3/9/92

K6000-MS DATABASE PRINTOUT

Personnel
Site: MAIN FACTORY

Printed order: 1) Alphabetical
                2) Numerical
                3) KEY Code

Filter type: 4) None
              5) Access code
              6) Door Group
              7) Time Period

8) START:0001      9) RANGE: 9999

| F1 = | F2 = | F3 = | F4 = | F5 = | F6 = | F7 = | F8 = | F9 = | F10 =
| help |      |      |      |      |      |      | print |      |
```

The Personnel Printout defaults to numerical order with no filter selected. The START section contains the number of the record the cursor is presently on and the RANGE section defaults to the maximum number of records in the file. To print out the personnel file, press F8 when you are in the personnel file display.

Description of Personnel Printout Fields

Printed Order (1,2,3)

Displays the order in which the keyholders print. The order currently selected is highlighted. Enter 1,2 or 3 to select the printout order. The Key Code (FFFFFFFF if none is entered) is included with the printed report.

Filter Type (4,5,6,7)

Displays how the keyholders are to be printed, i.e., by Access Code, Door Group or Time Period. The currently selected mode is highlighted. Enter 4,5,6 or 7 to select the filter. If no filter is required then select 4 and all records within the range will be printed.

Matching

This entry will appear if a filter is selected. An entry here indicates a value for the particular type of filter to be matched.

START and RANGE (8,9)

Defines which range of keyholders print. Selecting 8 allows the user to specify where keyholder printing starts. Selecting 9 allows the user to define the maximum number of keyholders to be printed.

Visitors (Main Menu - 2)

Radionics Inc. Readykey K6000-MS: Rev 1.1 v2.39 09:25:30 3/9/92

Visitors
Site: MAIN FACTORY

Visitor	Name	Access Code	Dates		PIN
		Code	From	To	
746		000	00/00/00	00/00/00	0000
747		000	00/00/00	00/00/00	0000
748		000	00/00/00	00/00/00	0000
749		000	00/00/00	00/00/00	0000
750		000	00/00/00	00/00/00	0000
1	T.E. Lawrence	T 000	00/00/00	00/00/00	2731
2	E.M. Forster	T 000	00/00/00	00/00/00	6256
3		000	00/00/00	00/00/00	0000
4		000	00/00/00	00/00/00	0000
5		000	00/00/00	00/00/00	0000

- Template

F1 = | F2 = | F3 = | F4 = | F5 = | F6 = | F7 = | F8 = | F9 = | F10 =
 | help | select | | | | >temp | temp> | +site | print | add | void

The visitor file allows temporary access over a specified length of time.

Description of Visitor Fields

Visitor	The ID number used to refer to this keyholder. Visitors can be assigned IDs in any order. Keyholders will be displayed in either numeric or name order, depending on the previous F2 SELECT command.
Name	A 20 character name. The name can not begin with numbers or spaces. The name must be unique.
Access Code	As in the personnel file, Access Level relates entry to specified areas.
Dates From	A calendar date e.g., 09/25/90 to indicate the date a key can be used from. A date of 01/01/00 or 00/00/00 indicates an empty date field.
Dates To	A calendar date e.g., 09/26/90 to indicate the date a key can be used until. The key will be automatically invalidated after this date.
PIN	Four digit Personal Identification Number of the visitor derived from the assigned key code.

To Add Visitor Keys

1. Use the cursor keys or **ALT/F2** to select a free line.
2. If fields are not clear, either **SPACE** over them or use **SHFT/F6**.
3. Type in the keyholder name in the name field.
4. With the cursor still in the name field, press **F9**. Present the key to the PC Reader or type in the code. A "T" signifies that the key has been added.
5. Use the **TAB** key to move across the record to other fields. Type in the Access Code, then press **ENTER**.

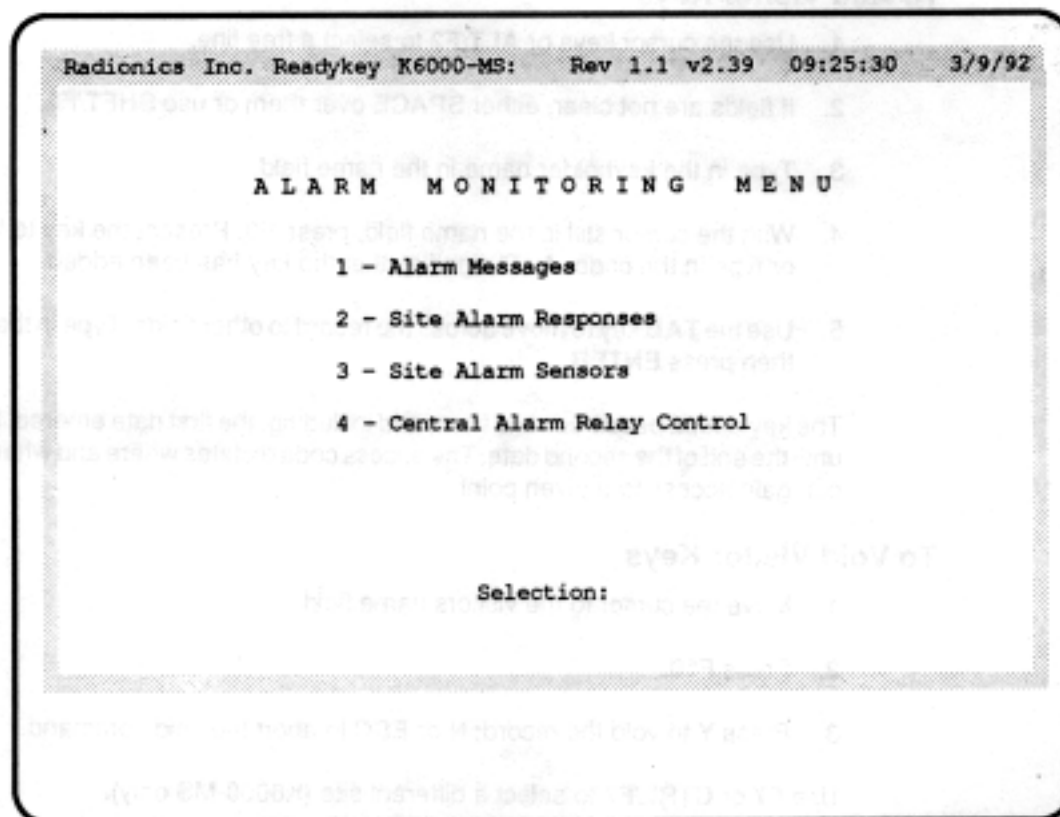
The key added becomes valid from, and including, the first date entered. It remains valid until the end of the second date. The access code dictates where and when the keyholder can gain access to a given point.

To Void Visitor Keys

1. Move the cursor to the visitors name field.
2. Press **F10**.
3. Press **Y** to void the record; **N** or **ESC** to abort the void command.

Use **F7** or **CTRL/F7** to select a different site (K6000-MS only).

Alarm Monitoring Menu (Main Menu - 3)



Each K2000-N Door Controller can monitor up to 8 alarm zones on each reader channel if a K2015 Alarm Module is installed. Each door controller may have up to 32 (4 x 8) alarm sensor inputs. In a maximum configuration of door controllers on the six-wire bus, you can install up to 1,024 sensor inputs. Each alarm module is equipped with four programmable relay outputs for alarm bells or alarm communicators.

When a possible alarm event occurs, the system checks that:

1. The alarm occurs during a time that the alarm is armed; i.e., not isolated.
2. There is no manual override applied by an operator to the alarm input.

Once an alarm condition has been established, the Alarm Sensors file describes which Alarm response the door controller and PC will give. The Alarm Responses file references the Alarm Messages file to determine what should be displayed on the screen to alert the operator of the alarm condition.

The Alarm Responses Engage/Isolate (enable/disable) the Alarm Sensor inputs assigned to the Alarm Response. This is done either manually or by Time Profile control.

Alarm Messages (Alarm Menu - 1)

Radionics Inc. Readykey K6000-MS:
Rev 1.1 v2.39
09:25:30
3/9/92

Alarm Messages
 Site: MAIN FACTORY

Alarm Message	Display Text
4092	
4093	
4094	
4095	
4096	
1	MAIN VEHICLE GATE
2	CALL (408) 555-7304
3	DELIVERY YARD
4	PLANT MANAGER
5	

- Template

| F1 = | F2 = | F3 = | F4 = | F5 = | F6 = | F7 = | F8 = | F9 = | F10 =
 | help | select | | | | >temp | temp> | +site | print | |

Description of Alarm Messages

In order to provide centralized identification of the alarm conditions, a file containing programmable messages is provided. This consists of 4,096 messages, each consisting of up to 32 characters. Up to 4 of these messages can be automatically displayed upon activation of an alarm.

Thus, an alarm message example could read similar to:

MAIN VEHICLE GATE	CALL (408) 555-7304
DELIVERY YARD	PLANT MANAGER

Note: These 4,096 messages do not change from site to site in a K6000-MS system.

Site Alarm Responses (Alarm Menu - 2)

```

Radionics Inc. Readykey K6000-MS:   Rev 1.1 v2.39   09:25:30   3/9/92

      Alarm Responses
    Site: MAIN FACTORY

Alarm      Alarm Messages      TP  ON/
Response 1      2      3      4      TP  OFF
251      0000      0000      0000      0000  00  OFF
252      0000      0000      0000      0000  00  OFF
253      0000      0000      0000      0000  00  OFF
254      0000      0000      0000      0000  00  OFF
255      0000      0000      0000      0000  00  OFF
  1      0001      0002      0003      0004  00  ON
  2      0000      0000      0000      0000  00  OFF
  3      0000      0000      0000      0000  00  OFF
  4      0000      0000      0000      0000  00  OFF
  5      0000      0000      0000      0000  00  OFF

                                     - Template

| F1 = | F2 = | F3 = | F4 = | F5 = | F6 = | F7 = | F8 = | F9 = | F10 =
| help | select |      |      | >temp | temp> | +site | print |      |
  
```

Description of Site Alarm Responses

Alarm Response One of 255 potential responses to assign to a K2015 Alarm Input Sensor. The Alarm Sensors file uses these responses for each alarm input on each alarm module.

Alarm Messages Four alarm messages to display in response to the Alarm Input Sensor. The numbers programmed under alarm messages 1-4 are derived from the Alarm Messages file, containing, for example, instructions to be followed and the area of an alarm.

TP Automatically isolates (disables) the Alarm Inputs that the response is assigned to while the specified Time Profile is active. A TP of 00 is engaged 24 hours a day, every day.

ON/OFF An on/off switch to manually engage (ON) or isolate (OFF) the Alarm Sensors that this response is assigned to. (Toggle with SPACE bar.)

Use F7 or CTRL/F7 to select a different site (K6000-MS only).

Site Alarm Sensors (Alarm Menu - 3)

Radionics Inc. Readykey K6000-MS: Rev 1.1 v2.39 09:25:30 3/9/92

Alarm Sensors

Site: MAIN FACTORY

Alarm Sensors	1	2	3	4	5	6	7	8
128	000	000	000	000	000	000	000	000
	0000	0000	0000	0000	0000	0000	0000	0000
	0000	0000	0000	0000	0000	0000	0000	0000
1	001	000	000	000	000	000	000	000
	0000	0000	0000	0000	0000	0000	0000	0000
	0000	0000	0000	0000	0000	0000	0000	0000
2	000	000	000	000	000	000	000	000
	0000	0000	0000	0000	0000	0000	0000	0000
	0000	0000	0000	0000	0000	0000	0000	0000

F1 = | F2 = | F3 = | F4 = | F5 = | F6 = | F7 = | F8 = | F9 = | F10 =
help | select | | | | >temp | temp> | +site | print | |

Description of Site Alarm Sensors

Alarm Sensors 1 - 128

Each represents one K2015 alarm module channel (1 to 4 are assigned to door controller 1; 5 to 8 to door controller 2; 9 to 12 to door controller 3; and so on through 125 to 128 to door controller 32). One channel covers the eight inputs, which can be monitored by 1 alarm module.

A column consists of 3 rows. The first row for each channel refers to an Alarm Response Number. Each alarm input may generate 1 to 4 printable alarm messages, and this first row refers to the alarm response record detailing the messages for a response for each individual input. The second row consists of groups of 4 digits each representing a momentary (0.5 second minimum) relay state, "-" for OFF, 1-4 for ON (enter 1, 2, 3 or 4 to toggle between "-" and the number). Therefore, if relay 3 is required to respond momentarily to an alarm on input 1 then "- 3 -" will be programmed in row 2 of Channel 1.

Do not use the third row.

Use F7 or CTRL/F7 to select a different site (K6000-MS only).

Central Alarm Relay Control (Alarm Menu - 4)

Radionics Inc. Readykey K6000-MS: Rev 1.1 v2.39 09:25:30 3/9/92

Relay Control
Site: MAIN FACTORY

Relays
1234

1 1234

- Template

| F1 = | F2 = | F3 = | F4 = | F5 = | F6 = | F7 = | F8 = | F9 = | F10 =
| help | select | | | | >temp | temp> | +site | print | |

Description of Central Alarm Relay Control

Four relays in the power supply unit provide central alarm annunciation (only while the PC is operating the K6000/K6000-MS software). Press the number (1, 2, 3 or 4) to toggle between enabled (number showing) or disabled ("-") for each relay.

1 - Door Left Open

Relay activates when a Door Left Open report is received at the PC. The relay can be reset by pressing the **SPACE** bar when in the Transaction Display Screen.

2 - Anti-Tamper/ Unauthorized Access

Relay activates when an Anti-Tamper or Unauthorized Access alarm is received at the PC. The relay can be reset by accepting the alarm at the CNC.

3 - Activated (Alarm Module)

Relay activates when an Alarm Activated is received at the PC from an Alarm Module. The relay can be reset by accepting the alarm at the CNC.

4 - Not Used

Holiday Menu (Main Menu - 4)

Radionics Inc. Readykey K6000-MS: Rev 1.1 v2.39 09:25:30 3/9/92

HOLIDAY MENU

1 - Holiday Profiles

2 - Holiday Periods

Selection:

The K6000 takes account of national and domestic holidays and renders a user's key or Time Period invalid. The Holiday Period file consists of 254 Holiday Periods, each with the start dates of holidays and the days duration of that holiday. The Holiday Period file is referenced by the Holiday Profile file. Up to 24 Holiday Profiles, each referencing up to 20 Holiday Periods, can be defined.

Holiday Periods (Holiday Menu - 2)

```

Radionics Inc. Readykey K6000-MS:   Rev 1.1 v2.39   09:25:30   3/9/92

      Holiday Periods
Site: MAIN FACTORY

Holiday Period  Duration
Period Start    Days
250    00/00/00    01
251    00/00/00    01
252    00/00/00    01
253    00/00/00    01
254    00/00/00    01
  1    00/00/00    01
  2    05/03/90    01
  3    00/00/00    01
  4    00/00/00    01
  5    00/00/00    01

      - Template

[F1 = | F2 = | F3 = | F4 = | F5 = | F6 = | F7 = | F8 = | F9 = | F10 =
[help | select |      |      | >temp | temp> | +site | print |      |

```

Description of Holiday Periods

Holiday Period	The period number (1 - 254).
Period Start	Calendar date indicating the start of a holiday period. A date of 01/01/00 or 00/00/00 indicates an empty date field.
Duration Days	The number of days over which a holiday period is effective.

To Create Holiday Periods

1. Ensure the Master PC is set to the current date and time.
2. Move to Holiday Period number 1. Enter the date (e.g., 07 14 90). Press **ENTER**.
3. Press **TAB** to move to the duration field.
4. Type in number of days for Holiday Period (e.g., 14). Press **ENTER**.
5. It is recommended to get a print out (press **F8**) of these for quick reference when editing the Holiday Profile file.

Note: The 254 Holiday Periods do not change from site to site in the K6000-MS system.

Holiday Profiles (Holiday Menu - 1)

```

Radionics Inc. Readykey K6000-MS:  Rev 1.1 v2.39  09:25:30  3/9/92

      Holiday Profiles
Site:  MAIN FACTORY

Holiday Profile  ON/ OFF      Holiday Periods
23             OFF  000 000 000 000 000 000 000 000 000 000 000
                000 000 000 000 000 000 000 000 000 000 000
24             OFF  000 000 000 000 000 000 000 000 000 000 000
                000 000 000 000 000 000 000 000 000 000 000
1              ON   000 000 000 000 000 000 000 000 000 000 000
                000 000 000 000 000 000 000 000 000 000 000
2              OFF  000 000 000 000 000 000 000 000 000 000 000
                000 000 000 000 000 000 000 000 000 000 000
3              OFF  000 000 000 000 000 000 000 000 000 000 000
                000 000 000 000 000 000 000 000 000 000 000

                                     - Template

| F1 - | F2 - | F3 - | F4 - | F5 - | F6 - | F7 - | F8 - | F9 - | F10 -
| help | select |      |      | >temp | temp> | +site | print |      |
  
```

Description of Holiday Profiles

Profile

The profile number (1 - 24). To provide system-wide holidays, you can assign profile number 1 to the holiday control of Time Profiles assigned to Access Codes, Access Points, Alarm Responses, and Transaction Routing. This is done using Time Periods and Time Profiles. In Time Periods, select Holiday by pressing 9 in the Valid Days field. In Time Profiles, assign the Time Periods with Holiday to Time Profiles, which are ON. Ensure that a Time Profile greater than 00 is assigned to the desired Access Codes, Access Points, Alarm Responses, and/or Transaction Routing. When users are denied access on these Holidays, the Transaction screen displays [No Access: Time].

Also, you can use Holiday Profiles (1 - 24) to assign individual users vacation schedules. Assign a profile to the users in the personnel file. When users are denied access on these Holidays, the Transaction screen displays [No Access: Holiday].

Holiday Periods

Up to 20 of the Holiday Periods (1 - 254 or 0) previously assigned.

To Create Holiday Profiles

1. Move to Profile number. Set ON/OFF to ON with the SPACE bar. Press ENTER.

2. Press **TAB** to move to the first Holiday Period Enter a Holiday Period number (001 - 254). Press **ENTER**.
3. Press **TAB** to move to the next Holiday Period field.
4. The tab key will take you through all 20 record fields. To move backwards press **SHIFT** and **TAB** together.
5. Press **ESC** to exit the Holiday Profile file.

Note: The 24 Holiday Profiles do not change from site to site in the K6000-MS system.

Emergency Call Out (Main Menu - 5)

```

Radionics Inc. Readykey K6000-MS:   Rev 1.1 v2.39   09:25:30   3/9/92

                                Emergency Call Out
                                Site: MAIN FACTORY

Em.                               Emergency Call Out Data
COD
123
124
125
126
127
1
2
3
4
5

- Template

| F1 = | F2 = | F3 = | F4 = | F5 = | F6 = | F7 = | F8 = | F9 = | F10 =
| help | select |      |      | >temp | temp> | +site | print |      |

```

Description of Emergency Call Out

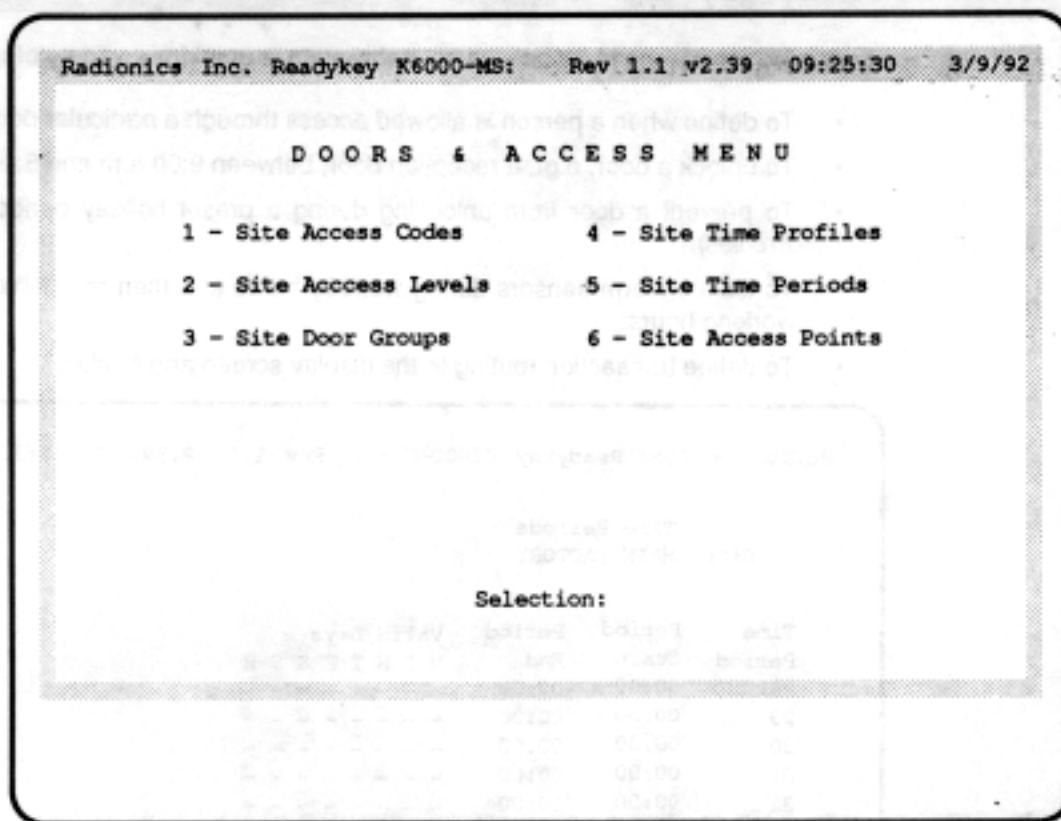
Em. COD The ID used to identify personnel.

Emergency Call Out Data Information regarding emergency procedure is entered here. Each user is assigned to one of the 127 lines. This is used as emergency information for different departments, cost centers etc.

Press **ESC** to return to the Main menu.

Note: The 127 EM Codes do not change from site to site in the K6000-MS system.

Doors & Access Menu (Main Menu - 6)



The Doors & Access Menu refers to all aspects of the system which relate to a particular location (Access Points, Door Groups and Access Levels), or a given time (Time Periods and Time Profiles) in the system.

Time Profiles, Door Groups and Access Levels form an Access Code. This Access Code is then assigned to the Personnel or Visitor file. This means that where and when a key is valid is established in this section.

The Doors & Access Menu consists of six options. The logical order to program these items (the order presented in this manual) is:

- 1) Site Time Periods
- 2) Site Time Profiles
- 3) Site Access Points
- 4) Site Door Groups
- 5) Site Access Levels
- 6) Site Access Codes

Site Time Periods (Doors & Access Menu - 5)

Application of time to an access control system is used for a variety of reasons:

- To define when a person is allowed access through a particular door.
- To unlock a door, e.g., a reception door, between 9:00 a.m and 5:00 p.m.
- To prevent a door from unlocking during a preset holiday period (see *Holiday Profiles*).
- To isolate alarm sensors during working hours and then re-enable them outside working hours.
- To define transaction routing to the display screen and printer.

Radionics Inc. Readykey K6000-MS:
Rev 1.1 v2.39
09:25:30
3/9/92

Time Periods
 Site: MAIN FACTORY

Time Period	Period Start	Period End	Valid Days							
			M	T	W	T	F	S	S	H
28	00:00	00:00	-	-	-	-	-	-	-	-
29	00:00	00:00	-	-	-	-	-	-	-	-
30	00:00	00:00	-	-	-	-	-	-	-	-
31	00:00	00:00	-	-	-	-	-	-	-	-
32	00:00	00:00	-	-	-	-	-	-	-	-
1	00:00	00:00	-	-	-	-	-	-	-	-
2	00:00	00:00	-	-	-	-	-	-	-	-
3	00:00	00:00	-	-	-	-	-	-	-	-
4	00:00	00:00	-	-	-	-	-	-	-	-
5	00:00	00:00	-	-	-	-	-	-	-	-

- Template

| F1 = | F2 = | F3 = | F4 = | F5 = | F6 = | F7 = | F8 = | F9 = | F10 =

| help | select | | | | | >temp | temp> | +site | print | |

Description of Site Time Periods

- Time Period** 1 - 32 Time Periods. Up to 3 Time Periods are assigned to each Time Profile.
- Period Start** Start time of the period.
- Period End** End time of the period. Time Periods should not cross midnight.
- Valid Days** Select days Monday (1) through Sunday (7) and Holiday (8). When selected, Holiday prevents the Time Profiles from activating when Holiday Profile 1 is active.

Note: Use **F7** or **CTRL/F7** to select a different site (K6000-MS only).

Site Time Profiles (Doors & Access Menu - 4)

Radionics Inc. Readykey K6000-MS: Rev 1.1 v2.39 09:25:30 3/9/92

Time Profiles Site: MAIN FACTORY

Time Profile	ON/OFF	Time Period 1	Time Period 2	Time Period 3
28	OFF	00	00	00
29	OFF	00	00	00
30	OFF	00	00	00
31	OFF	00	00	00
32	OFF	00	00	00
1	ON	00	00	00
2	ON	00	00	00
3	OFF	00	00	00
4	OFF	00	00	00
5	OFF	00	00	00

- Template

| F1 = | F2 = | F3 = | F4 = | F5 = | F6 = | F7 = | F8 = | F9 = | F10 =
| help | select | | | >temp | temp> | +site | print | |

Description of Site Time Profiles

Time Profile 1 - 32. Each Time Profile is made of 1, 2 or 3 Time Periods linked together. A printout of Time Periods makes this easier.

ON/OFF ON enables the Time Profile; OFF disables the Time Profile. (Toggle with **SPACE** bar.) A Time Profile that is OFF is active 24 hours, 7 days (e.g., there is no schedule for the Time Profile). A Time Profile that is ON, yet has no Time Periods, is also active 24 hours, 7 days.

Time Period 1 The first Time Period in the Time Profile.

Time Period 2 The second Time Period in the Time Profile.

Time Period 3 The third Time Period in the Time Profile.

Note: Use **F7** or **CTRL/F7** to select a different site (K6000-MS only).

Site Access Points (Doors & Access Menu - 6)

```

Radionics Inc. Readykey K6000-MS:   Rev 1.1 v2.39   09:25:30   3/9/92

Access Points
Site: MAIN FACTORY

Access Point      Name      LRT   DOT   TP      Lock
Point            Mode
124              000   000   00      - - - - -
125              000   000   00      - - - - -
126              000   000   00      - - - - -
127              000   000   00      - - - - -
128              000   000   00      - - - - -
1  UNUSED        000   000   00      - - - - -
2  UNUSED        000   000   00      - - - - -
3  BOILER ROOM   002   000   00      - - - - -
4  FRONT DOOR TO LOBBY 002   005   00      - - - - -
5              000   000   00      - - - - -

- Template

| F1 - | F2 - | F3 - | F4 - | F5 - | F6 - | F7 - | F8 - | F9 - | F10 -
| help | select |      |      | >temp | temp> | +site | print |      |

```

This file consists of 128 Access Points, four for each door controller at this site.

Description of Access Points

Access Point	Each represents one reader channel. Channels 1 to 4 are assigned to door controller 1; channels 5 to 8 are assigned to door controller 2; and so on through channels 125 to 128 assigned to door controller 32.
Name	The door is given a name of up to 20 characters for identification purposes. A name must be assigned.
LRT	LOCK RELEASE TIME is the time in seconds that the electric lock is unlocked allowing entry / exit (0 - 255 seconds).
DOT	DOOR OPEN TIME is the time in seconds that the door may be held open. After this set time an alarm may be activated and a door left open alarm generated (0 - 255 seconds). For reader wiring tamper monitoring, always program door open time (DOT) > 0.
TP	This is the TIME PROFILE allocated to a door. When the Time Profile is active, the door will be open allowing "free access". An automatic unlock/lock transaction report will be generated at the beginning and end of the Time Period.
Lock Mode	This is primarily a feature which the installer will be involved in. The lock mode of the door defines the manner in which the combination of door contact and lock strike operate. Enter 1, 2, 3 ... or 8 to toggle between "-" and the number.

Explanation of Door Lock Modes

Digit	Function	Not Set (off)	Set (on)
1	Lock Type	Power To Unlock	Power to Lock
2	Door Contact	Door Alarm	Free Exit/EM OVRD
3	RTE Report	Request To Exit	Request For Entry
4	Not Used	Leave in off position	Do Not Use
5	Alarm Module	No K2015 installed	K2015 installed
6	Exit out hours	Not allowed	Allowed
7	Not Used	Leave in off position	Do Not Use
8	Not Used	Leave in off position	Do Not Use

1) Lock Type

OFF (-)

The controller will apply power to cause the electronic lock to open the door. The door is secure when no power is applied to the lock.

ON (1)

Power is applied to the lock to secure the door, and power is removed to allow the door to be opened.

2) Door Contact

Affect the reports produced and the operation of **REQUEST-TO-EXIT** and **DOOR CONTACTS**.

When OFF (-) the system operates as follows:

Door Contacts: The door contacts will perform the usual door alarm monitoring functions. When the door contacts are opened (without an RTE or key use) and a door open time of greater than zero has been set, an appropriate alarm report will be produced. A "Door Left Open" report will be produced as a result of accessing the door and leaving it open, an "Unauthorized Access" report will be generated if the door is forced open.

Request-to-Exit: When the RTE button is pressed, the respective door lock will be released and either a "Request to Exit" or a "Request for Entry" report will be produced based on how the RTE Report Type of the door lock mode is set.

When ON (2) the system operates as follows:

Door Contacts: When the door contacts are opened, a "Free Exit" report will be produced. Doors fitted with such an option will typically have a handle on one side and a reader on the other. The result of using the handle, for example to get out of a room, will be to generate a "Free Exit" report.

Request-to-Exit: When the RTE button is pressed, the report generated will be an "Emergency Override On". When the RTE button is released, the report generated will be an "Emergency Override Off". In this application a standard pull station will probably replace the RTE button. Note that the reports generated here are not effected by how the RTE Report Type of the lock mode is set.

3) RTE Report When OFF (-), a "Request to Exit" report will be generated each time the RTE button is pressed.

When ON (3), a "Request for Entry" report will be generated each time the RTE button is pressed.

When the RTE button is being used as an emergency override, e.g. a pull station, the above reports do not apply.

4) Not Used Unused, leave OFF (-).

5) Alarm Module When OFF (-), an alarm module is not connected to this channel.

When ON (5), an alarm module is connected. It is necessary to specify to the system whether an alarm module is connected to a reader channel so that the system knows which commands to use to light the led on any reader that may be attached or whether or not to produce alarm reports based on activity at the alarm module.

6) Exit Out Hours Allows users to exit via this exit door, even though their time profile is inactive.

7) Not used Unused, leave OFF (-).

8) Not Used Unused, leave OFF (-).

Use F7 or CTRL/F7 to select a different site (K6000-MS only).

Site Door Groups (Doors & Access Menu - 3)

Radionics Inc. Readykey K6000-MS: Rev 1.1 v2.39 09:25:30 3/9/92

Door Groups
Site: MAIN FACTORY

Door Doors Line 1: 1-32, Line 3: 65-96
Group Line 2: 33-64, Line 4: 97-128

```

          128
-----
1  FRONT DOORS*
-----
-----
-----
-----

```

| F1 = | F2 = | F3 = | F4 = | F5 = | F6 = | F7 = | F8 = | F9 = | F10 =
| help | select | | | | >temp | temp> | +site | print | |

Description of Site Door Groups

Door Group One of 128 available Door Groups. Grouping enables doors to be assigned quickly to Access Levels.

***Door Group Name** A 16-character name that can be assigned to the door group.

Doors 1-128 Any combination of 1 to 128 doors can be assigned to each Door Group. Line 1 controls doors 1-32 (four per door controller), Line 2 controls doors 33-64, Line 3 controls doors 65-96, and Line 4 controls doors 97-128.

Note: Use F7 or CTRL/F7 to select a different site (K6000-MS only).

Site Access Levels (Doors & Access Menu - 2)

Radionics Inc. Readykey K6000-MS:
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Access Levels

Site: MAIN FACTORY

Access Level	Name	Group	Group
1		000	000
		000	000
		000	000
		000	000
		000	000
		000	000
		000	000
		000	000
		000	000
		000	000
		000	000
		000	000
		000	000
		000	000
		000	000
		000	000

| F1 =
| F2 =
| F3 =
| F4 =
| F5 =
| F6 =
| F7 =
| F8 =
| F9 =
| F10 =

| help
| select
|
|
| >temp
| temp>
| +site
| print
|

Description of Site Access Levels

Access Level One of 128 levels, each of which can refer to 1 to 20 Door Groups. The Access Level allows the user to assign an Access Level name and specify a combination of Door Groups that make up the Access Level.

Name 20 character name for the Access Level.

Group The group number (the name is supplied automatically) from the Door Group definitions.

As door group numbers are entered into the Access Level the corresponding group name will be displayed. If a door group number of zero has been entered, then the string, "....." will be displayed.

Note: Use F7 or CTRL/F7 to select a different site (K6000-MS only).

Site Access Codes (Doors & Access Menu - 1)

Radionics Inc. Readykey K6000-MS: Rev 1.1 v2.39 09:25:30 3/9/92

Access Code
Site: MAIN FACTORY

Access Code	Level	Primary	TP	Level	Secondary	TP
124	000	-----	00	000	-----	00
125	000	-----	00	000	-----	00
126	000	-----	00	000	-----	00
127	000	-----	00	000	-----	00
128	000	-----	00	000	-----	00
1	001	ALL DOORS	01	000	-----	00
2	000	-----	00	000	-----	00
3	000	-----	00	000	-----	00
4	000	-----	00	000	-----	00
5	000	-----	00	000	-----	00

- Template

| F1 - | F2 - | F3 - | F4 - | F5 - | F6 - | F7 - | F8 - | F9 - | F10 -
| help | select | | | >temp | temp> | +site | print | |

Description of Site Access Codes

Access Code One of 128 Access Codes that refer to the information in the Access Level and Time Profile files.

Primary Level One of 128 Access Levels that refer to the Access Level file.

Primary TP One of 32 Time Profiles that refer to the Time Profile file. If the TP is OFF (not enabled), 24 hour access is allowed.

Secondary Level One of 128 Access Levels that refer to the Access Level file.

Secondary TP One of 32 Time Profiles that refer to the Time Profile file. If the TP is OFF (not enabled), 24 hour access is allowed.

The use of Primary and Secondary codes allows two distinct combinations to be assigned to one Access Code, providing flexibility and control over access.

If required, Access Levels or Door Groups can be treated as departments, thus breaking the personnel file into more manageable sections. You can use this to printout all staff who are allowed access through a particular group of doors (see Personnel screen description of Filter Types in the F8 Print Menu).

Note: Use F7 or CTRL/F7 to select a different site (K6000-MS only).

Event Analysis Menu (Main Menu - 7)

Radionics Inc. Readykey K6000-MS: Rev 1.1 v2.39 09:25:30 3/9/92

EVENT ANALYSIS MENU

- | | |
|------------------------------|-------------------------------|
| 1 - Historical Events | 5 - Print Current User Report |
| 2 - Muster Mode | 6 - Personnel Trace |
| 3 - Presence in Area | 7 - Editor Audit Trail |
| 4 - Void Personnel From Area | |

Selection:

Event Analysis Menu

Historical Events (Event Analysis Menu - 1)

Radionics Inc. Readykey K6000-MS:
Rev 1.1 v2.39
09:25:30
3/9/92

Historical Events
 Site: MAIN FACTORY

	ON/ OFF	Name	ID	Site	Door	Trans Type
6	OFF		0000	000	000	00
7	OFF		0000	000	000	00
8	OFF		0000	000	000	00
9	OFF		0000	000	000	00
10	OFF		0000	000	000	00
1	OFF		0000	000	000	00
2	OFF		0000	000	000	00
3	OFF		0000	000	000	00
4	OFF		0000	000	000	00
5	OFF		0000	000	000	00

- Template

| F1 = | F2 = | F3 = | F4 = | F5 = | F6 = | F7 = | F8 = | F9 = | F10 =
 | help | select | | | | >temp | temp> | +site | print | dates |

This allows a search to be performed based on data that is present in the K6000/K6000-MS files.

Description of Historical Events Analysis

Up to 10 selection criteria may be entered.

ON/OFF

ON/OFF acts as a switch (space bar to toggle). If set to OFF, the search for that criterion will not be carried out. Up to 10 criteria can be specified. More than one criterion can be selected simultaneously.

Name

Keyholder's identification (optional).

ID

Personnel record number (entry of 0 = all personnel).

Site

Site number. F7 and CTRL/F7 do not affect the Historical Event Selection criteria.

Door

Select access points (entry of 0 = all doors).

Trans Type

Search for a given transaction report (entry of 0 = all transactions). See *Transaction Types* beginning on page 75.

To Analyze the History

1. Establish the search parameters.
2. Press F9.
3. Enter the Start and End dates and times for the search period. You will be prompted to insert an archive transaction disk if the transactions required are prior to those resident on the system hard disk.
4. Press F9. The search will commence on the criteria which have "ON" selected and report to the printer.

The number of personnel in the system has now been increased to 9999. This has meant changing the format of personnel IDs stored in the ASCII transaction file (ATRANS.DAT) to the following:

Personnel ID	Range	ASCII Transaction Format
Personnel	0001 - 6000	0001 - 6000
Visitors	0001 - 0750	6001 - 6750
Personnel	6001 - 6999	G001 - G999
Personnel	7000 - 7999	H001 - H999
Personnel	8000 - 8999	I001 - I999
Personnel	9000 - 9999	J001 - J999

Muster Mode (Event Analysis Menu - 2)

Radionics Inc. Readykey K6000-MS: Rev 1.1 v2.39 09:25:30 3/9/92

EVENT ANALYSIS MENU

- | | |
|------------------------------|-------------------------------|
| 1 - Historical Events | 5 - Print Current User Report |
| 2 - Muster Mode | 6 - Personnel Trace |
| 3 - Presence in Area | 7 - Editor Audit Trail |
| 4 - Void Personnel From Area | |

Selection:

Once selected, this option places the K6000 in a special mode in which the K6000 will print all "Exit" and "Entry Authorized", and "Access Authorized" transactions taking place at certain pre-selected readers or 'Muster Points' (see the *K6000/K6000-MS Installation Manual*).

This provides a means of accounting for personnel in the event of an emergency evacuation from a building.

To Select the Muster Mode

In the event of an emergency the operator should perform the following:

1. Select the Muster Mode from the Event Analysis menu.
2. Select the site.
3. Escape from the editor. A yellow prompt appears at the bottom of the transaction screen.

Personnel present their ID keys to pre-determined readers. The system can then generate a printed report of those people who have left the building in the following format:

Muster Printout for Site: MAIN OFFICE -Taken:04/20/92 13:01:06			
Time	ID	Name	Muster Point
13:01	3500	THE MASTER EDITOR	DOOR 9
13:01	V003	NORTH, JANE	DOOR 9
13:01	3600	SMITH, JOE	DOOR 9
13:01	3800	JONES, ROGER	DOOR 9
13:01	3700	PATH, MARY ANN	DOOR 9

Muster Mode is cancelled by re-entering the editor.

Note: All non-access transaction reports and all reports from the non-muster points will appear on the screen but will not reach the printer.

Alarm reports will still require acknowledging by the operator, however these reports will not be sent to the printer even on cancelling the muster mode. It is therefore necessary to retrieve them by Historic Analysis (option 1) of the Event Analysis Menu.

Monitored Areas and Muster Points must be defined for Muster Mode to operate. See the PC Configuration Menu, page 66.

Presence in Area (Event Analysis Menu - 3)

Radionics Inc. Readykey K6000-MS: Rev 1.1 v2.39 09:25:30 3/9/92

EVENT ANALYSIS MENU

1 - Historical Events	5 - Print Current User Report
2 - Muster Mode	6 - Personnel Trace
3 - Presence in Area	7 - Editor Audit Trail
4 - Void Personnel From Area	

Selection:

This option allows the operator to request a print out of all personnel in a specified area.

Application

Typical uses are areas that have potentially dangerous chemicals, or restricted areas. In cases where safety or security are essential, the Presence in Area facility indicates who is in the area of question at the current time.

The actual area to be monitored is defined using doors specified as entry doors and exit doors. These are set up during the installation configuration of the K6000. See the PC Configuration Menu, page 66.

The site must be specified for K6000 or K6000-MS systems.

Void Personnel from Area (Event Analysis Menu - 4)

Radionics Inc. Readykey K6000-MS: Rev 1.1 v2.39 09:25:30 3/9/92

Void Personnel From Area

Void which personnel? _____

This option is used to clear the indicator that is used to record the presence of an individual in a monitored area.

Application

The K6000 can wrongly report that personnel might be in a monitored area due to individuals not presenting their ID key to the reader because the door was held open by a colleague to allow a number of people to leave together. To correct this situation, the presence in area flags can be cleared.

To Void Personnel from an Area

1. Select option 4 of the Event Analysis menu.
2. Select the site.
3. Type the IDs of those users that are to be cancelled (1-3, 523). Press ENTER. Typing in "All" will void all keys from the area.
4. Press ESC to return to the Event Analysis menu.

Note: Where a range of IDs are sequential, the range of numbers can be quickly entered by typing the lowest and highest IDs of the range separated by a hyphen (-).

The Monitored Area is set up in the PC Configuration Menu, page 66.

Print Current User Report (Event Analysis Menu - 5)

Radionics Inc. Readykey K6000-MS: Rev 1.1 v2.39 09:25:30 3/9/92

Print Current User
Site: MAIN FACTORY

	Auto Report	Time of Report	Days After KEYs Used
1	OFF	00:00	01

- Template

F1 = | F2 = | F3 = | F4 = | F5 = | F6 = | F7 = | F8 = | F9 = | F10 =
| help | select | | | | >temp | temp> | +site | print | report |

This report can be used by the operator to obtain a list of all personnel who were not granted access over a specified number of days. This printout can be obtained manually at anytime, or produced automatically at a time the user programmed. The advantage of this report is its ability to detect users who no longer use their keys.

Programming for the New Report

The "AUTO REPORT" field may be set to ON or OFF. OFF indicates that an automatic report should not be made. If set to ON then the current user report will be automatically made at the time of day indicated in the field labelled "TIME OF REPORT".

The field labeled "DAYS AFTER KEYS USED" holds the number of days that the keyholder may be allowed not to use their key before being reported. For example, if this field contains "02", then the system will print out all those personnel who have not used their key for two days or more.

Obtaining the Report

The Current User Report can be obtained manually at anytime by pressing F9 when the Current User Report record is being displayed. Note that after obtaining a manual report, the automatic report (if enabled) will not be produced later that same day.

The Current User Report may also be obtained automatically each day by programming the required parameters into the Current User Report record. This record can be obtained by choosing Option-5 of the Transaction Analysis menu. Having obtained the record, the user should program in the time of day for the report to occur (in 24-Hour format) into the field labelled "TIME OF REPORT". The user should also check that auto reporting is enabled.

Please note that the Automatic Report will not be given at the specified time until the transaction screen is displayed. Nor will it be produced if the printer is off line, out of paper or switched off.

Personnel Trace (Event Analysis Menu - 6)

```

Radionics Inc. Readykey K6000-MS:   Rev 1.1 v2.39   09:25:30   3/9/92

      Personnel Trace
Site: MAIN FACTORY

      Trace      Trace to
      ON?       Printer?

1      OFF      NO

- Template

| F1 = | F2 = | F3 = | F4 = | F5 = | F6 = | F7 = | F8 = | F9 = | F10 =
| help | select |      | >temp | temp> | +site | print |

```

This allows the system operator to 'tag' keys. This will highlight their movements on the screen or output events to the printer as an event occurs.

Description of Personnel Trace

Trace ON/OFF ON = Enable Trace. OFF = Disable Trace. (Toggle ON/OFF with SPACE bar.)

Trace to Printer NO = Output event to screen only (in a different color).

YES = Output events to screen and printer; "*" appears against traced events at the printer. This selection of the type of trace is only done once. From then on, keyholders requiring a trace are selected by entering the Personnel or Visitor file and pressing SHFT/F2 at each record selected for a trace. These records are identified by an asterisk beside the keyholder field.

The trace may be cancelled by pressing SHFT/F2 on a 'tagged' field. The asterisk will disappear. At the transaction screen, the bottom blue bar will indicate that a trace is in operation.

Note: If muster mode is invoked, the trace facility is overridden.

Editor Audit Trail (Event Analysis Menu - 7)

```

Radionics Inc. Readykey K6000-MS:   Rev 1.1 v2.39   09:25:30   3/9/92

      Editor Audit Trail
    Site: MAIN FACTORY

      ON/      Editor      Editor      Update
      OFF      Name        ID        Type
6     OFF
7     OFF
8     OFF
9     OFF
10    OFF
1     OFF
2     OFF
3     OFF
4     OFF
5     OFF

                                     - Template

| F1 = | F2 = | F3 = | F4 = | F5 = | F6 = | F7 = | F8 = | F9 = | F10 =
| help | select |      |      | >temp | temp> | +site | print | report |
  
```

This allows actions taken by Editor Keys to be displayed to the printer or screen.

Description of Editor Audit Trail

Up to 10 criteria may be selected.

OFF/ This filter will not be used (use **SPACE** bar to toggle).
ON This filter will be active.

Editor Name Enter the Editor name (optional).

Editor ID Enter the System Operator number (1-33) or 0 for all operators.
 33 = Master Key.

Update Type

One of the following:

0	All update types	20	Analysis Records
1	Personnel	21	Transaction Dates
2	Not used	22	Muster Points
3	Visitors	23	Area Presence
4	Not used	24	Not used
5	Not used	25	Not used
6	Holiday Profiles	26	Door Groups
7	Holiday Periods	27	Not used
8	Alarm Messages	28	Not used
9	Editor Records	29	Not used
10	Not used	30	Transaction Routing
11	Not used	31	Route Times
12	Passback Codes	32	Poll Table
13	Access Code	33	Relay Control
14	Not used	34	Recording Control
15	Access Points	35	Door Exclusion
16	Time Profiles	36	Personnel Trace
17	Time Periods	37	Editor Audit Trail
18	Alarm Responses	38	Audit Dates
19	Alarm Sensors	39	Not used

To Analyze the Editor Audit Trail

1. Establish the search parameters.
2. Press **F9**.
3. Enter the Start and End dates for the search period. You will be prompted to insert an archive transaction disk if the transactions required are prior to those resident on the system hard disk.
4. Press **F9**. The search will commence on the criteria which have "ON" selected.
5. Press **ESC** to return to the Audit Trail Analysis screen.

F10 toggles between output of information to the printer, file or the screen. If output to file is selected, the file TRACE.DAT is created.

The description indicates the Editor key, time and date, file affected and a representation of the record change, describing what the field previously stored and what it was changed to.

System Configuration Menu (Main Menu - 8)

Radionics Inc. Readykey K6000-MS: Rev 1.1 v2.39 09:25:30 3/9/92

SYS CONFIG MENU

- | | |
|-------------------------------|--------------------------------|
| 1 - System Editor Data | 5 - Site Poll Table |
| 2 - Site Information | 6 - Data Protection Menu |
| 3 - Door Control | 8 - Installation Configuration |
| 4 - Download to Site | 9 - Editor Levels |
| 5 - Synchronize System Clocks | |

Selection:

System Configuration Menu

System Editor Data (Sys Config Menu - 1)

```

Radionics Inc. Readykey K6000-MS:   Rev 1.1 v2.39   09:25:30   3/9/92

Editors
Site: MAIN FACTORY

Editor      Name      Password
28
29
30
31
32
1  TOM JONES      T
2  ED BROWN, NT GUARD  T
3
4
5

- Template

| F1 - | F2 - | F3 - | F4 - | F5 - | F6 - | F7 - | F8 - | F9 - | F10 -
| help | select | ed lev |      | >temp | temp> | +site | print | add  | void
  
```

There can be up to 32 editors. Each editor has an identity password and editor level selection. Press **F3** to display/assign an editor level to a specific editor (or use Editor Level section, Sys Config Menu - 9). Editor levels are automatically associated with the corresponding Editor number. **F7** and **CTRL/F7** site selection does not affect Editor assignment. All 32 editors are assigned to all sites in the K6000-MS system.

Note: When a key is entered into this database it becomes an Editor. This does not mean it will open any doors. If the opening of doors is also required, the key must also have its code assigned in the Personnel Database in the same way as other keys do.

Site Information (Sys Config Menu - 2)

Radionics Inc. Readykey K6000-MS: Rev 1.1 v2.39 09:25:30 3/9/92

Site Information
Site: MAIN FACTORY

Site	Name	Port	Ref	Baud
Telephone	Time1	Time2	Length	
2	REMOTE WAREHOUSE	0	00	0300
	00:00	00:00		00
1	MAIN FACTORY	0	00	0300
	00:00	00:00		00

F1 - F2 - F3 - F4 - F5 - F6 - F7 - F8 - F9 - F10 -
help select | | | >temp temp> +site print |

Each site that makes up a K6000/K6000-MS system has set up data held for it in the Site Information File. The Site Information File may be accessed by selecting option 8 at the Main Menu and then option 2 at the Site Configuration Menu.

Configuring the Central Site

The central site is always the first site on the CNC; this location is where the network controller is assumed to be.

All door controllers of the central site will be assumed to be using the six-wire bus (continually on line).

Configuring Non-Central Sites

Sites other than the Central Site assume site numbers 2 to 128. Set-up data held for these in the Site Information File consist of the following items:

NAME	Enter whatever name you wish to call the site. Up to twenty characters may be entered. This name will be used to earmark all transaction reports from that site.
PORT	This is to tell the network controller which of its ports are connected to the site in question. The ports of the network controller are the 25-way D type sockets on its rear. The socket marked HOST RS232 is always connected to the PC and therefore cannot be attached to any other communication device. The other sockets can be connected to modems or data switches. Each socket is numbered according to the following: RS232 Port 1 = 1 RS232 Port 2 = 2 RS232 Port 3 = 3
REF	This field indicates the type of device connected to the port specified (see PORT above). Device types are as follows: 0 = 6 wire bus (only available for first site on each CNC) 1 = straight serial link (e.g., line driver) 2 = data switch 3 = dial-up modem 4 = remote cluster (up to 8 door controllers connected to the system via a data switch and a modem) The modem links can be forced dialed, i.e., override the dial-up times by adding 16 to the REF number (e.g., 19 or 20 for 3 or 4, respectively). This may be helpful during the commissioning of the site. To break the modem link, change the REF number back to 3 or 4.
BAUD	The BAUD field specifies the speed of communications for the communication device selected (see REF above). Data switches can have the following baud rates: 300, 1200, 2400 and 9600. The value in this field has no effect on the six-wire bus communication speed.
TELEPHONE	This field holds the telephone number of the site to be dialed and is only relevant when modems are being used to communicate with the site. All telephone numbers must contain only digits — no letters or punctuation.
TIME1 and TIME2	These fields contain two dial-up times for modem managed sites only; data switch managed sites are continually on-line. It is recommended that the dial-up times be selected wisely to gather transactions just after the busiest periods on a site.

LENGTH

By entering a maximum number of minutes in this field you can fix how much time the network controller spends on line to the site. This time is only relevant to dial-up sites and can be anything from 0 to 99 minutes. This field is particularly useful for allocating time to the most bus sites. If the second time is set to 0, the system only dials the remote site once per day.

Site Passback Codes (Sys Config Menu - 3)

Radionics Inc. Readykey K6000-MS: Rev 1.1 v2.39 09:25:30 3/9/92

D/C Control

Site:

Door Ctrlr	Passback Code	Passback Timeout	Reader/Lock Combination
28	--	00	--
29	--	00	--
30	--	00	--
31	--	00	--
32	--	00	--
1	--	00	--
2	--	00	--
3	--	00	--
4	--	00	--

- Template

| F1 = | F2 = | F3 = | F4 = | F5 = | F6 = | F7 = | F8 = | F9 = | F10 =
| help | select | | | >temp | temp> | +site | print | |

Passback control is used to prevent a key from being passed back through an access point allowing sequential access for several people. With passback control in operation, a key will allow entry through an IN door once, preventing re-entry until it has been presented to an OUT door. Passback control is limited to operation on a single door controller. For purposes of Passback control, the IN channels are 1 and 2; the OUT channels are 3 and 4. Place the cursor in the Passback Code field, and use the number keys 1 and 2 to set/reset the Passback Code to the required value as shown below.

Description of Door Control

Door Ctrlr

Door Controller (1-32).

Passback Code

- 1- - To set Passback on channel 1 (channel 4 is the exit door).
- 2- To set Passback on channel 2 (channel 3 is the exit door).
- 12 - To set Passback on channels 1 and 2 (channels 3 and 4 are exit doors).

In a similar way to control passback on entry, it is possible to prevent repeated use of the key on an EXIT reader. To control the passback on exit, place the cursor anywhere in the Passback Code field and press the 3. A "T" is displayed in the third position. If a door contact is installed and the door monitoring is setup (i.e., door open time > 0), the Passback restriction is not started until the door is opened.

Passback Time-out

Under normal circumstances the passback control remains in force indefinitely. For example, if Passback control is set on doors 2 and 3, and a key is presented to door 2, that key cannot be used again on door 2 until it has been presented at door 3. It is often required to set the Passback control if the chances of someone leaving a protected area without presenting their key (e.g., leaving with someone else) are high. Using the timeout facility in this instance enables the person to re-enter the area after completion of the timeout cycle.

To set the Time-out period (10-30 minutes), place the cursor in the Passback Timeout field and insert a number representing the timeout in minutes. Any number between 10 and 30 will enable the facility. An entry of 0 represents no timed forgive.

Note: An Emergency Override will not cancel Passback and may require a "Void Personnel from Area" command.

Reader/Lock Combination

In addition to programmable Passback control, a channel linking facility, allowing channels 1 and 4 to operate lock output 1, and channels 2 and 3 to operate lock output 2. Place the cursor in the Reader/Lock Combination field and use the number keys 1 and 2 to set/reset to the required value as shown below.

- To set reader combination 1 and 4 to operate lock 1 1-
- To set reader combination 2 and 3 to operate lock 2 -2
- To set both combinations 12

In the case of linked readers, the door contact and request to exit input are also linked and should be fitted as follows.

- Readers 1 and 4 linked - wired to door 1.
- Readers 2 and 3 linked - wired to door 2.

Use F7 or CTRL/F7 to select a different site (K6000-MS only).

Download to Site (Sys Config Menu - 4)

Radionics Inc. Readykey K6000-MS: Rev 1.1 v2.39 09:25:30 3/9/92

DATABASE DOWNLOAD

Enter Site Number _ (max =)

Door Controller Number? _

Are You SURE?

This allows the editor of the system to send a copy of the databases to all door controllers. This is useful if a Door Controller had been taken off line for any reason. A Download updates the contents of all door controllers to that stored in the K6000/K6000-MS. A special download file is generated by the system and passed to the CNC for distribution to all door controllers.

The site number and door controller number must be specified. A blank entry selects all door controllers for the site.

Once the download file has been generated the user is returned to the Editor while the download continues transparently. The percentage of the download to the CNC is displayed.

A download must be completed before the system will allow another download to be started. The progress of the download is displayed on the K6000 screen. Always INITIALIZE a new door controller prior to a download.

Synchronize System Clocks (Sys Config Menu - 5)

Radionics Inc. Readykey K6000-MS: Rev 1.1 v2.39 09:25:30 3/9/92

S Y S C O N F I G M E N U

1 - System Editor Data	5 - Site Poll Table
2 - Site Information	6 - Data Protection Menu
3 - Door Control	8 - Installation Configuration
4 - Download to Site	9 - Editor Levels
5 - Synchronize System Clocks	

Selection:

System Synchronized with PC Clock

This function allows the CNC and all the door controllers time keeping clocks to be set to that of the K6000/K6000-MS. This will be done automatically at system start-up, 12 o'clock midday and midnight by the K6000/K6000-MS, but will need to be done manually at Daylight Savings Time changeovers. The CNC will beep several times to acknowledge the clock sync command.

Poll Tables (Sys Config Menu - 6)

```

Radionics Inc. Readykey K6000-MS:    Rev 1.1 v2.39    09:25:30    3/9/92

Poll Table
Site:

Site      Door Controller
          Numbers

1 [REDACTED]

[REDACTED] - Template

| F1 = | F2 = | F3 = | F4 = | F5 = | F6 = | F7 = | F8 = | F9 = | F10 =
| help | select |      |      | >temp | temp> | +site | print |      |

```

The address of each Door Controller attached to the CNC is entered here. Satisfactory communication/polling is indicated for each controller on the Transaction Monitoring Screen.

To insert an address, type the door controller numbers separated by commas or enter a range separated by a dash, e.g., 1,2,3,5-7 or 1,3,5,9-12.

Data Protection Menu (Sys Config Menu - 7)

Radionics Inc. Readykey K6000-MS: Rev 1.1 v2.39 09:25:30 3/9/92

DATA PROTECTION MENU

1 - Recording Control

2 - Door Exclusion

3 - Delete Transaction Data

Selection:

Due to the increasingly wide-spread use of computers as large data retrieval systems, some governments have introduced data protection acts. Most data protection acts apply not just to personal computers and mainframes, but to anything storing data which can be directly or indirectly linked to a specific person; this includes access control systems.

The K6000/K6000-MS offers features for controlling when, what and how transactional information is recorded/printed/displayed. Old transaction data that is no longer required may be deleted.

Description of Data Protection

Recording Control

- Control of when personal transactions are stored, displayed and printed.
- Control of what type of personal transactions are stored, displayed and printed, i.e. valid or invalid access attempts.

Door Exclusion

- Control over which doors transaction reports are stored or displayed.

Delete Transaction Data

- Deletion of unwanted transaction information.

There are two types of reports that can be produced relating to personnel transactions: negative and positive reports. Positive reports are authorized access attempts. Negative reports are invalid access attempts. Each type of report is shown as follows:

Positive Reports

- Type 1 - "Exit Authorized"
- Type 2 - "Entry Authorized"
- Type 3 - "Access Authorized"

Negative Reports

- Type 10 - "No Access: Level"
- Type 11 - "No Access: Locked Out"
- Type 12 - "No Access: Time"
- Type 13 - "No Access: Passback"
- Type 14 - "No Access: Holiday"
- Type 32 - "No Access: Visit Time"

Recording Control (Data Protection Menu - 1)

Radionics Inc. Readykey K6000-MS:
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09:25:30
3/9/92

Recording Control

Site:

Transaction Switch	POS/ NEG	TP
1	ON	POS 00

- Template

F1 =	F2 =	F3 =	F4 =	F5 =	F6 =	F7 =	F8 =	F9 =	F10 =
help	select			>temp	temp>	+site	print		

Description of Recording Control

Transaction Switch	OFF	This field can be toggled ON/OFF using the space bar. Indicates that all personnel transactions whether negative or positive will not be recorded.
	ON	Indicates that all transactions (types depending on the setting of POS/NEG) will be recorded.
POS/NEG	NEG	This field can be toggled between POS and NEG using the space bar. Allows only negative type personnel transactions will be recorded, providing the ON/OFF field is set to ON.
	POS	Means that all personnel transactions are recorded, provided that the ON/OFF field is set to ON.

TP

Specifies a Time Profile for personal transaction recording purposes. A Time Profile number of 0-32 should be entered here.

When the Time Profile is not active, personal transaction recording will be inhibited. When the Time Profile is active, personal transaction recording will occur as long as the Transaction switch is set to ON.

It is recommended that a separate Time Profile (i.e., not one used for doors, personnel, etc.) should be set aside for transaction recording control. If timed transaction control is not required, the TP field should contain zero.

Door Exclusion (Data Protection Menu - 2)

```
Radionics Inc. Readykey K6000-MS:  Rev 1.1 v2.39  09:25:30  3/9/92

Door Exclusion
Site:

Site Door Numbers to be Excluded

1

- Template

| F1 - | F2 - | F3 - | F4 - | F5 - | F6 - | F7 - | F8 - | F9 - | F10 -
| help | select |      | >temp | temp> | +site | print |      |
```

Description of Door Exclusion

Excludes personal transaction reports - positive and negative - being generated for certain doors in the system. Normally, these will be high activity doors such as a main entrance. A list of door numbers may be entered separated by commas or spaces. Dashes may also be used to represent a range of doors.

Use F7 or CTRL/F7 to select a different site (K6000-MS only).

Delete Transaction Data (Data Protection Menu - 3)

Radionics Inc. Readykey K6000-MS: Rev 1.1 v2.39 09:25:30 3/9/92

Date Range
Site:

	Start Period Date / Time	End Period Date / Time
1	00/00/00 00:00	00/00/00 00:00

- Template

F1 = | F2 = | F3 = | F4 = | F5 = | F6 = | F7 = | F8 = | F9 = | F10 =
help | select | | | >temp | temp> | +site | print | delete |

Explanation of Delete Transaction Data

Allows the deletion of all personal transactions - positive and negative - between a start and end date. Once the two required dates have been entered, press F9 to start a search of all recorded transactions to be voided from the system.

Voiding of personal transactions is carried out by the system erasing any personnel/visitor name or ID held against the transaction. Once all the specified transactions have been erased, the system will return to the Data Protection menu.

Installation Configuration Utility (Sys Config Menu - 8)

Radionics Inc. Readykey K6000-MS: Rev 1.1 Configuration Utility

Select option:

- 1 - PC Configuration
- 2 - Change Master Key
- 3 - Initialize Global Files
- 4 - Initialize Site Files
- 5 - Add a New Site
- 6 - Initialize a Door Controller
- 7 - Initialize Network Controller
- 8 - Initialize Remote PC

Esc to save changes and exit from CONFIG

The K6000 system comes with two versions of the Configuration Utility program.

The CONFIG.COM program is run immediately after the software is initially installed. It can also be executed from MS DOS by typing A:CONFIG while in the C:\P6000 directory and the relevant distribution disk is in Drive A:. This form of the configuration utility has been provided so that installers can assign a new master key to the system. If the file CONFIG.MD2 is deleted from drive C: and the system configuration is selected, the error message "CONFIG MODULE NOT PRESENT" will appear on the screen.

Description of the Installation Configuration Utility Menu

1 - PC Configuration

When selected, this puts the user into a new sub-menu for setting up PC characteristics. (See *Description of PC Configuration Menu*).

2 - Change Master Key

This allows a new master key to be assigned. Press 2; present the key that will become the master key to the CNC reader. Enter a password (optional). Press ENTER.

3 - Initialize Global Files

Will erase all data files, such as alarm messages, personnel files, visitor files etc. **Use this command with care.**

- | | |
|--|--|
| 4 - Initialize Site Files | Erases all data files for the site. Use this command with care. |
| 5 - Add a New Site | Adds a new site to a K6000-MS system. Once added, a site CANNOT be deleted. |
| 6 - Initialize Door Controller | Erases all data in the door controller. You will be prompted to enter the address (2, 3 or 4) of the door controller you want to clear. This command is normally followed by a Download Door Controller command. |
| 7 - Initialize Network Controller | Erases all data in the CNC, including any buffered events. |
| 8 - Initialize Remote PC | Erases all data in the Remote PC event buffer. |

PC Configuration Menu (Configuration Utility - 1)

```

K6000-MS PC Configuration Menu

Select option:

1 - Printer = EPSON MX/LX/FX SERIES
2 - Configure Ports
3 - Assign Sites to CNCs
4 - Set Muster Points
5 - Define Monitored Site Areas
6 - Define Transaction Routes
7 - Set Transaction Route Times
8 - Set Door Alarm Transaction Routes

ESC to main menu

```

Description of PC Configuration Menu

1 Printer = EPSON MX/LX/FX Series

Defines what type of parallel printer is in use at the master PC. Press 1 to change between EPSON MX/LX/FX series and MICROLINE 182/192 series printers.

2 Configure Ports

When installing on a PS/2, the addresses are:

Port	Address	IRQ
com1	03F8	IRQ4
com2	02F8	IRQ3
com3	3220	IRQ3
com4	3228	IRQ3
com5	4220	IRQ3
com6	4228	IRQ3
com7	5220	IRQ3
com8	5228	IRQ3

PC Serial Port Configuration Screen

```
CNC #1      Baud rate: 19200   Port Addr:03F8   Interrupt Line: IRQ4

2nd Network Controller: OFF
CNC #2      Baud rate: 00000   Port Addr:000    Interrupt Line: IRQ3

Remote PC1   Baud rate: 00000   Port Addr:000    Interrupt Line: IRQ3
Remote PC2   Baud rate: 00000   Port Addr:000    Interrupt Line: IRQ3
Remote PC3   Baud rate: 00000   Port Addr:000    Interrupt Line: IRQ3
Remote PC4   Baud rate: 00000   Port Addr:000    Interrupt Line: IRQ3

Transaction output enable: OFF
Trans. Output Baud rate: 00000   Port Addr:000    Interrupt Line: IRQ3
```

3 Assign Sites to CNCs

The installer uses this facility to define which sites each network controller monitors. The K6000-MS system as a whole can only monitor up to 128 sites, regardless of how many network controllers may be attached to the master PC at the time. Therefore, it is necessary to enter all the numbers of all sites assigned to each CNC in the form of a list separated by commas. Note that the first site entered in the list for each network controller will automatically become the 6 wire bus site.

4 Set Muster Points and

5 Define Monitored Site Areas

Assigns readers with special monitoring functions for purposes of muster or identifying personnel within an area bounded by reader points. Enter commas between individual doors and a dash for door ranges (e.g., 1,2,3 or 1,2,5-7).

6 Define Transaction Routes

This facility determines whether a transaction is displayed on the screen or printer and, if it is an alarm condition, whether it should be acknowledged. In addition, it can be determined whether a transaction is displayed on the screen in white or red. Routing frames are used to determine where each of the 48 different type of transactions are sent. Each frame takes two screens and up to 8 frames can be set. Each frame can have a Time Profile set. This allows different transaction reporting for day and night. (See 7 Set Transaction Route Times.)

When the transaction route frame is displayed the up and down arrow keys switch between the four screens of each frame, and from one frame to another. The frame number is displayed at the top of the screen. Use the TAB key to move from one transaction to another.

To select transaction routing options, press the 1, 2, 3, 4, 5, 6, 7, 8 or 9 keys to switch ON and OFF 1, 2, 3, 4, R, X, A, P or S, respectively.

- 1 Remote PC 1
- 2 Remote PC 2
- 3 Remote PC 3
- 4 Remote PC 4

(continued)

Transaction Route Configuration

Routing Frame: 1

Transaction Type	Routes 123456789	Transaction Type	Routes 123456789
01 Exit Authorized	1234-X--S	13 No Entry: Passback	1234RX-PS
02 Entry Authorized	1234-X--S	14 No Access: Holiday	1234RX-PS
03 Access Authorized	1234-X--S	15 Door Left Open	1234RX-PS
04 Free Exit	1234-X--S	16 Door Closed	1234RX-PS
05 Emergency Override On	1234RX-PS	17 Anti-Tamper Alarm	*1234RXAPS
06 Emergency Override Off	1234RX-PS	18 Alarm Cleared	1234-X--S
07 Request to Exit	1234-X--S	19 Override Alarm	*1234RXAPS
08 Request for Entry	1234-X--S	20 Override Alarm Reset	1234-X--S
09 Unauthorized Access	*1234RXAPS	21 Manual Lock	1234-X--S
10 No Access: Level	1234RX-PS	22 Manual Unlock	1234-X--S
11 No Access: Locked Out	1234RX-PS	23 Automatic Lock	1234-X--S
12 No Access: Time	1234RX-PS	24 Automatic Unlock	1234-X--S

- R** sets the color of transactions sent to the screen to red, if not set they will be in white.
- X** sends the transaction to the transaction output (Aux) enabled in the PC Serial Port Configuration screen.
- A** indicates that alarms (items marked with an asterisk) need to be acknowledged at the PC reader.
- P** sends the transaction to the printer.
- S** sends the transaction to the screen.

Note: Transactions are always stored even though they may not be displayed at the time they occur (unless the events are controlled by Recording Control in the Data Protection Menu).

Changing the routing (1,2,3,4) for the remote (from the remotes) has no effect.

Transaction Route Configuration

Routing Frame: 1

Transaction Type	Routes 123456789	Transaction Type	Routes 123456789
25 Editor Off	1234-X--S	37 Override Alm Accepted	1234-X--S
26 Editor On	1234-X--S	38 RTE Button Held Down	1234RX-PS
27 Alarm Activated	1234RXAPS	39 Repeated Key Use	1234RX-PS
28 Sensor Reset	1234-X--S	40 Unused	1234RXAPS
29 Automatic Isolate	1234-X--S	41 Unused	1234-X--S
30 Automatic Engage	1234-X--S	42 Unused	1234-X--S
31 Local Alarm Accept	1234-X--S	43 Unused	1234-X--S
32 No Access: Visit Time	1234RX-PS	44 Unused	1234-X--S
33 No Access: Unknown ID	1234RX-PS	45 No Exit: Passback	1234RX-PS
34 Manual Isolate	1234-X--S	46 Exit Out of Hours	1234RX-PS
35 Manual Engage	1234-X--S	47 Unused	1234-X--S
36 Alarm Acknowledged	1234-X--S	48 Unused	1234-X--S

Transaction Route Configuration

Routing Frame: 1

Transaction Type	Routes 123456789	Transaction Type	Routes 123456789
49 transaction type 49	1234RX-PS	61 transaction type 61	1234-X--S
50 transaction type 50	1234RX-PS	62 transaction type 62	1234-X--S
51 transaction type 51	1234RX-PS	63 transaction type 63	1234-X--S
52 transaction type 52	1234RX-PS	64 transaction type 64	1234-X--S
53 transaction type 53	1234RX-PS	65 transaction type 65	1234-X--S
54 transaction type 54	1234RX-PS	66 Comms Session Start	1234-X-PS
55 transaction type 55	1234-X--S	67 Comms Session End	1234-X-PS
56 transaction type 56	1234-X--S	68 Redialling	1234-X-PS
57 transaction type 57	1234-X--S	69 Line Unobtainable	1234-X-PS
58 transaction type 58	1234-X--S	70 Comms Session Timeout	1234-X-PS
59 transaction type 59	1234-X--S	71 Comms Session Aborted	1234-X-PS
60 transaction type 60	1234-X--S	72 D/C not Responding	1234-X-PS

Transaction Route Configuration

Routing Frame: 1

Transaction Type	Routes 123456789	Transaction Type	Routes 123456789
73 Modem not Connected	1234-X-PS	85 transaction type 85	1234-X--S
74 Comms error type 1	1234-X-PS	86 transaction type 86	1234-X--S
75 Comms error type 2	1234-X-PS	87 transaction type 87	1234-X--S
76 Comms error type 3	1234-X-PS	88 transaction type 88	1234-X--S
77 Comms Restored	1234-X-PS	89 transaction type 89	1234-X--S
78 transaction type 78	1234-X--S	90 transaction type 90	1234-X--S
79 transaction type 79	1234-X--S	91 transaction type 91	1234-X--S
80 transaction type 80	1234-X--S	92 transaction type 92	1234-X--S
81 transaction type 81	1234-X--S	93 transaction type 93	1234-X--S
82 transaction type 82	1234-X--S	94 transaction type 94	1234-X--S
83 transaction type 83	1234-X--S	95 transaction type 95	1234-X--S
84 transaction type 84	1234-X--S	96 transaction type 96	1234-X--S

7 Set Transaction Route Times

This facility allows different transaction routes to be set at different times, or manually switched on and off. Use the **TAB** key to move between fields. Use the **SPACE** bar to switch between ON and OFF and enter a number between 0 and 32 for the Time Profile.

An entry of 00 in Time Profiles specifies 24 hours per day, seven days per week. If two route frames have overlapping Time Profiles, the lower number Route Frame is used.

Route frame #1 is used when no other frame is active, even if Enable = OFF and Time Profile=00.

Transaction Routing Times

Route Frame #1	: Enable = ON	Time Profile = 00
Route Frame #2	: Enable = OFF	Time Profile = 00
Route Frame #3	: Enable = OFF	Time Profile = 00
Route Frame #4	: Enable = OFF	Time Profile = 00
Route Frame #5	: Enable = OFF	Time Profile = 00
Route Frame #6	: Enable = OFF	Time Profile = 00
Route Frame #7	: Enable = OFF	Time Profile = 00
Route Frame #8	: Enable = OFF	Time Profile = 00

8 Set Door Alarm Transaction Routes

The transaction routing of the K6000/K6000-MS has been expanded to allow the user to route alarm transactions on an individual door basis. Only the following types of transaction reports are affected by Door Alarm Filtering:

- Unauthorized Access - Type 9
- Door Left Open - Type 15
- Door Closed - Type 16
- Anti-Tamper Alarm - Type 17
- Alarm Cleared - Type 18

To move to a different site, use F7 or CNTRL F7. To select another route, for example, REMOTE PC 1 or REMOTE PC 2, use PAGE UP or PAGE DOWN.

Door numbers must be entered separated by commas or dashes.

This screen has no effect when entered from a remote PC.

DOOR ALARM TRANSACTION ROUTING

SITE: 001
Door Alarms Routed to: Master PC Screen

Route Frame	Door Exclusion
1	
2	1-4, 8, 9
3	
4	
5	
6	
7	
8	

Editor Levels (Sys Config Menu - 9)

An example of an editor level display is shown below:

```

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      Editor Access
      Site: MAIN FACTORY

Ed
Levl Function      Level  Function      Level  Function      Level
  1 Editor Type    Editing Pers Editing  Add & Void PIN Codes  Display
    Pers Trace    Access Vis Editing  Add & Void Access Codes Modify
    Levs & Group  Modify Time Profs  Modify Acc Points  Modify
    Alarm Monit  Modify Holidays  Modify Hist Anals  Access
    Muster/Pres  Access Current User Access Editor Audit  Access
    Editor Info  Add & Void Site Info  Modify Passback  Modify
    Site Dload  Access Sync Clocks  Access Data Protect  Modify
    Trans Delete Access Inst Config  Modify Format Disk  Access
    Save Dbase  Access Restre Dbase Access Arch Trans  Access
    Exit to DOS  Access Manual Lock  Modify Emg Callout  Modify

|F1 - |F2 - |F3 - |F4 - |F5 - |F6 - |F7 - |F8 - |F9 - |F10 -
|help |select| ed name |   |   |   | +site | print |   |
  
```

Use **SPACE** to toggle, then press **ENTER**.

There are a total of 32 editor levels, one for each editor.

The **EDITOR TYPE** defines one of three types for the associated editor:

LOCKED OUT With this selected, the associated editor is not allowed to use any of the editing facilities, and cannot acknowledge alarms.

ALARMS This selects alarm acknowledgment features, but does not allow the editor to enter the System Editor.

EDITING Once selected, permits the editor access to the System Editor, and allows alarms to be acknowledged.

Editing options are No Access, View Only, Modify or Add & Void. System command options are Access and No Access. Pin display options are Display and No Display.

Disk Functions Menu (Main Menu - 9)

Radionics Inc. Readykey K6000-MS: Rev 1.1 v2.39 09:25:30 3/9/92

D I S K F U N C T I O N S M E N U

- | | |
|-------------------------------|------------------------------------|
| 1 - Format a Diskette | 5 - Backup Master Transaction File |
| 2 - Save System Database | 6 - Execute a DOS Command |
| 3 - Restore System Database | 7 - Escape from K6000 System |
| 4 - Archive Transaction Files | |

Selection:

This menu enables the user to carry out computer operating system commands without leaving the system.

Format a Diskette (Disk Functions Menu - 1)

This command allows the normal DOS diskette format command to be run from inside the K6000 program. All new diskettes used on a computer must be formatted before use. The function assumes the disk is to be formatted in the system A: drive, and that DOS is installed. The function formats the disk for the highest capacity of the drive. Use high-density disks.

Save System Database (Disk Functions Menu - 2)

This command writes all data files to an already formatted diskette inserted in the system A: drive. It is good practice to save the system database every time any significant changes are made to the system database. Multiple diskettes should be used, these being rotated between each database save. This way, even if one diskette gets lost or corrupted there is always a previous back up available.

Restore System Database (Disk Functions Menu - 3)

This command reloads the data files from a diskette in the system A: drive onto the system hard disk (C:\P6000).

Archive Transaction Files (Disk Functions Menu - 4)

This function copies archived transaction files on the system hard disk to diskette for archive storage. The function is automatic once invoked and will prompt for insertion of diskettes as required. It is essential that each diskette is marked with the disk number and date, and stored in a safe place for later use for data retrieval if needed.

Backup Master Transaction File (Disk Functions Menu - 5)

This facility saves the current TRANS.DAT file onto diskette. After selecting option 5, the following message will appear on the screen:

READY TO BACKUP TRANS.DAT
INSERT BACKUP DISKETTE IN DRIVE A:
Press (ESC)ape / (C)ontinue

After the user has inserted a formatted diskette into the system A: drive and pressed a key, the system will check that there is enough room on the diskette to backup the transaction file. If the diskette does not contain enough free space, the system will display the following message.

READY TO BACKUP TRANS.DAT
NO ROOM ON DISKETTE : REPLACE AND
Press (ESC)ape / (C)ontinue

Once copying starts, the following message is displayed:
COPYING ARCHIVE FILE C:\P6000\TRANS.DAT TO DISK A:

When the backup is finished, the system displays the message:
ARCHIVE FILE A:TRANS.DAT COPIED TO DISK A:
REMOVE DISKETTE AND
Press (ESC)ape / (C)ontinue

On pressing a key, the system will return to the Disk Functions Menu.

Note: This backup is to save transactions that have not yet been archived. In the event that a problem occurs on the system computer that requires the disk to be restored, copy the file TRANS.DAT back onto the C:\P6000 directory from the diskette to restore these transactions.

Execute a DOS Command (Disk Functions Menu - 6)

To carry out any command described in the DOS manual.

Escape from K6000 System (Disk Functions Menu - 7)

This stops the K6000 program, releasing it to do other functions. However, the CNC, and all controllers connected to it continue to operate as normal. Reinvoking the K6000 program will pick up the transactions as normal. A form feed is sent to the printer.

Transaction Types

The following provide explanations for transactions which may appear in Transaction column of the Transaction Monitoring display:

- | | |
|---------------------------|---|
| 1. Exit Authorized | An exit door was opened with a key. |
| 2. Entry Authorized | If an ID and name are reported, an entry door was opened with a key. If no name or ID are reported, an entry door was opened using the RTE button. |
| 3. Access Authorized | A door, not designated as entry or exit, was opened using a key. |
| 4. Free Exit | A door was opened from the inside using the door handle. |
| 5. Emergency Override On | The monitored pull station associated with a door has been struck. The door is no longer secure. This event may require editor acknowledgement, and is printed as an exception. |
| 6. Emergency Override Off | The monitored pull station associated with a door has been repaired. This is printed as an exception. |
| 7. Request to Exit | An exit door was opened using the RTE button. |
| 8. Request for Entry | An entry door was opened using the RTE button. |
| 9. Unauthorized Access | A door has been forced open. |
| 10. No Access: Level | The key used has not been assigned access to this particular door. |
| 11. No Access: Locked Out | The key used has not been assigned access to any door. |
| 12. No Access: Time | The key has been used outside of its assigned Time Profile. |
| 13. No Entry: Passback | An attempt has been made to access an entry door without exiting first. |
| 14. No Access: Holiday | The key used is assigned an active holiday profile. |
| 15. Door Left Open | A door has been left open for longer than its specified "door open time" after a valid access. |
| 16. Door Closed | A door has closed after a previous "door left open" alarm. |
| 17. Anti-Tamper Alarm | The reader cable associated with a door has been severed or disconnected. This alarm may require editor acknowledgement, and is printed as an exception. |
| 18. Alarm Cleared | A previous door alarm has been accepted by the system and its cause removed. |
| 19. Override Alarm | The override input on this door controller has activated. This may require editor acknowledgement and is printed as an exception. |
| 20. Override Alarm Reset | The override on this door controller has reset. This is printed as an exception. |

Transaction Types (cont'd.)

21. Manual Lock	A door has been locked manually.
22. Manual Unlock	A door has been unlocked manually.
23. Automatic Lock	A door has been locked automatically by its assigned Time Profile activating.
24. Automatic Unlock	A door has been unlocked automatically by its assigned Time Profile activating.
25. Editor Off	An editor completed editing on the system.
26. Editor On	The editing system was entered by an editor.
27. Alarm Activated	The alarm zone specified has been activated. This event may require editor acknowledgement and is printed as an exception.
28. Sensor Reset	An alarm input has reset following a reported alarm.
29. Automatic Isolate	An alarm input has been automatically disabled by its assigned Time Profile activating.
30. Automatic Engage	An alarm input has been automatically enabled by its assigned Time Profile activating.
31. Local Alarm Accept	A previous alarm (locally accepted) has been accepted at the K2000-N and passed on to the K6000/K6000-MS.
32. No Access: Visit Time	A visitor has attempted to access a door outside the assigned Time Period. This event is printed as an exception.
33. No Access: Unknown ID	A key not present in the system's database has been used. This is printed as an exception.
34. Manual Isolate	Confirmation that an alarm input has been manually disabled.
35. Manual Engage	Confirmation that an alarm input has been manually engaged.
36. Alarm Acknowledged	Confirmation that an operator has acknowledged an alarm. This is printed as an exception.
37. Override Alarm Accepted	Override acknowledged at the PC.
38. RTE Button Held	An RTE button has either gotten stuck, or has been held down too long.
39. Repeated Key Use	User denied access because key was held in front of reader too long.
40. Pin Reader Duress	
41. Duress Acknowledged	
42. Local Duress Accepted	

EVENT TYPES 43 THROUGH 44 ARE NOT USED

Transaction Types (cont'd.)

- | | |
|------------------------|--|
| 45. No Exit: Passback | The key used was presented without having registered as entering first. |
| 46. Exit Out of Hours | The key was used to exit through an EXIT door after the user's Time Profile (for their Access Code) had expired. |
| 47. Editor Off (Panel) | An editor accessed the K2000-AM editing system. |
| 48. Editor On (Panel) | An editor completed editing at the K2000-AM. |

EVENT TYPES 49 THROUGH 65 ARE NOT USED

- | | |
|---------------------------|---|
| 66. Comms Session Start | This event is recorded when the dial-up time for a remote site has arrived, and the network controller is attempting telephone contact. Note that this report will only be seen when the network controller is supervising sites of comm type 3, 4, 19, or 20. |
| 67. Comms Session End | This event is recorded when the network controller has finished communicating with a remote site and has dropped the telephone line. This event is a satisfactory finish to a communications session. Note that this report will be seen only when the network controller is supervising sites of comm type 3, 4, 19, or 20. |
| 68. Redialing | This event occurs when the network controller is unable to connect with a remote site on the first attempt, and subsequently redials the telephone number. The network controller will redial a remote site up to four times (a total of five attempts). Therefore, up to four consecutive "redialing" reports could be seen for the same remote site, followed by a "line unobtainable" event (see below). |
| 69. Line Unobtainable | This event is generated when the network controller's modem is unable to use the telephone line either because it is not connected, is engaged, or the remote modem is not answering. This event signals the end of a communications session that never managed a connection to a remote site door controller; no further contact will be made until the next programmed time. |
| 70. Comms Session Timeout | This event occurs when the maximum programmed duration for a communications session is reached. The associated report signals the forced ending of communications with a remote site from which the network controller had inadequate time to finish transmitting and/or receiving data. |
| 71. Comms Session Aborted | This report is produced by the network controller when it cannot communicate with any door controller on a remote site, and has thus given up and dropped the telephone line. |

Note that this event can only occur once the network

controller has successfully connected with the remote modem, but was unable to communicate to any of the door controllers connected to it.

Once the said event has occurred, the network controller will not attempt to connect again with the remote site until the next programmed time.

72. D/C Not Responding

This event occurs at the end of a communications session for all door controllers that the network controller was not able to communicate with. This event is also briefly shown on the PC monitor and network controller Vacuum Fluorescent (VF) display as an Error-18 for all the affected door controllers.

Note that this event can only occur once the network controller has successfully established contact with the remote modem.

73. Modem Not Connected

This event occurs when the network controller is unable to receive replies for its commands transmitted to the modem, preventing the communications session from beginning. Once this event occurs, the network controller will not attempt further communications with its modem until the next programmed time for a remote site targeted by the modem.

The PC monitor and network controller VF display show this condition as an Error-17 for the first door controller assigned to the remote site.

74. Comms Error Type 1

This condition can occur only for door controllers connected to the six-wire bus. The network controller records this event when a door controller has failed to reply, on two consecutive occasions, to an address the CNC has transmitted on the six-wire bus' AB1 line. A valid address transmitted down the AB1 line expects a reply within 60ms up the USD line. This condition is also echoed to the PC monitor and network controller VF display.

75. Comms Error Type 2

This rare condition occurs whenever the network controller receives a garbled/unrecognizable reply to a command it has transmitted to a door controller. Note that this bad reply has passed a checksum test. This condition is also also echoed to the PC monitor and network controller VF display.

76. Comms Error Type 3

This report occurs when the network controller has transmitted a command to a door controller and does not receive a reply on two consecutive occasions. This condition is also also echoed to the PC monitor and network controller VF display.

77. Comms Restored

This report occurs when the network controller has re-established communications with a door controller after reporting an Error-1, 2, or 3 for it.

EVENT TYPES 78 THROUGH 96 ARE NOT USED



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Radionics, Inc., 1800 Abbott Street
Salinas, CA, 93901, U.S.A.
Technical Support: (800) 538-5807

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