



IQ_K* Series

Programming Guide

For use with i-Que K* Series only



Congratulations, you have just purchased the **IQ_K*Series Lockset from Marks USA**, the most advanced stand-alone door lock and access control system on the market today. The lock, designed for easy installation, will provide years of reliable service when properly installed and maintained.

This manual is designed to act as a guide through the many features and functions of your upgradeable IQ_K* series stand-alone access control system.

Please take the time to read it thoroughly and follow the instructions carefully so that your experience will be positive and trouble free.

Marks USA would like to thank you for selecting the i-Que Series for your access control needs.

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For more information about the i-Que Series,
or the complete Marks USA product line,
maintenance manuals, new product announcements,
pricing and templates, visit our website at:

marksusa.com

Table of Contents

Section 1 - i-Que Information

	<i>Function #</i>	<i>Min. Required Group Number</i>	<i>Page</i>
Before You Start			Page 1
Important Definitions			Page 1
Important Keys			Page 1
LED Indicators			Page 1
Initialize Lock		System Manager	Page 2
Create Great Grand Master		System Manager	Page 2
Adding & Deleting User Codes . Function 01		Master 03.	Page 3

Section 2 - Lock Configuration

Pin Only	Function 32	Grand Master 02	Page 4
Change User PIN	Function 08	Groups 01 to 99.	Page 4
Deny /Restore Group Access	Function 10	Master 03.	Page 4
Change Group Association	Function 07	Master 03.	Page 5
Set Access Level	Function 11	Master 03.	Page 5
Define Open Time	Function 18	Master 03.	Page 5
Multiple Code Entry	Function 33	Master 03.	Page 6
Manual Passage Mode	Function 30	Master 03.	Page 6
Lock Audio	Function 34	Master 03.	Page 7
Fail Safe/Fail Secure	Function 36	Master 03.	Page 7
Terminator On/Off	Function 37	Master 03.	Page 7
Panic Alarm	Function 38	Master 03.	Page 8
Secretary's Button			Page 14
Privacy Mode	Function 39	Master 03.	Page 8

Section 3 - Scheduling

Overview			Page 9
Set Time	Function 12	Master 03.	Page 9
Set Date	Function 13	Grand Master 02	Page 10
Basic Schedule	Function 02	Master 03.	Page 10
Group Schedule	Function 03	Master 03.	Page 10
User Schedule	Function 04	Master 03.	Page 11
Passage Schedule	Function 05	Master 03.	Page 11
Temporary User Schedule	Function 06	Master 03.	Page 11
Holiday Maintenance	Function 09	Master 03.	Page 12
First Supervisor to Arrive	Function 31	Master 03.	Page 12

Section 4 - Software Interface

Download Audit Trail	Function 15	Security Guard 05	Page 13
Upload Lock Information	Function 14	Security Guard 05	Page 13

Section 5 - Lock Maintenance

Clear Memory	Function 16	Grand Master 02	Page 13
Battery Status Check	Function 17	Master 03.	Page 13
Memory Upgrade	Function 20	Great Grand Master 01	Page 14
Battery Information			Page 14
Reset the i-Que			Page 15
Connection Diagram			Page 15
Glossary			Page 16
Troubleshooting			Page 17
Index			inside back cover

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Notes

BEFORE YOU START!

IMPORTANT DEFINITIONS

1. **FACTORY CODE:** is **9991234**, and is used to initialize the lock for a new installation or full reset. This code must be entered to set the **LOCK ID** and the **GREAT GRAND MASTER (GGM)**. After the GGM code is set, the **FACTORY CODE** will no longer be valid and is only re-enabled after a full reset, see page 15.
2. **LOCK ID:** A unique six digit number entered during initialization defining the specific lock. Used by **I-DAT** software to identify specific lock when uploading user data or downloading audit trail data. (See page 13.)
3. **USER IDENTIFICATION NUMBER (UID):** A unique number assigned to each User with 2, 3 or 4 digits.
4. **GROUP:** One or several Users, all of whom have the same access to the locks, categorized by a two digit **GROUP number**.
5. **PERSONAL IDENTIFICATION NUMBER (PIN):** A unique combination of 3, 4, 5 or 6 keypad letters, numbers or both.
(Letters or numbers may be used multiple times to increase the total number of combinations).
6. **YOUR CODE:** Your unique combination of **UID** and **PIN** codes, in that order, having up to 10 total digits.
7. **GREAT GRAND MASTER (GGM):** Code required by the **SYSTEM MANAGER** to perform all programming functions. It replaces the **FACTORY CODE**. This code can also open the lock.
8. **SYSTEM MANAGER:** Person establishing the **GGM** and responsible for highest level of programming. Can establish lower levels of programming for other users or groups.
9. **PROGRAM INSTRUCTION:** Series of key strokes used to enter a function.

IMPORTANT KEYS

1. **TERMINATOR KEY (*):** Acts like the "Enter" key on a computer, and is used to add or confirm codes on the keypad. This key is usually depressed after entering **YOUR CODE** to unlock the **I-QUE**, but can be disabled for this purpose as an option, see page 7.
2. **PROGRAMMING KEY (#):** After a valid **YOUR CODE** is entered, this key is depressed to enter the programming mode.
This key can also be used as a time saving feature, allowing the entry of multiple functions.
At the end of any PROGRAMMING INSTRUCTION, replace the last * with a # to return to FUNCTION NUMBER input, eliminating the need to reenter YOUR CODE.

LED INDICATOR

LED INDICATING GREEN (NORMAL MODE)

1. Denotes lock enabled to open.
Will flash green after entering valid **YOUR CODE** and **TERMINATOR KEY (*)**.

LED INDICATING RED (NORMAL MODE)

1. Denotes a wrong **YOUR CODE** entry to open the lock.
2. Denotes wrong **YOUR CODE** entry 3 consecutive times and disables keypad for 20 seconds.
If another wrong **YOUR CODE** is entered, the keypad is disabled for 40 seconds.

LED INDICATING RED (PROGRAMMING MODE)

1. Denotes incorrect entry or error and vacates programming mode.
2. Programming mode vacated if no key entry within 5 seconds.

INITIALIZE LOCK

1. Initializing the lock with a unique 6 digit code assigns a **LOCK ID** number to each specific lock. Using keypad, enter the **FACTORY CODE 9991234**, the # key, and the 6 digit **LOCK ID** (usually starting with 000001), and finally, the # key.

	<i>Factory Code</i>	#	<i>6 digit Lock ID</i>	#
Example:	9991234	#	000001	#

This code will NOT open the lock.

Create GREAT GRAND MASTER (GGM)

2. This code is required by the **SYSTEM MANAGER** to perform all programming functions. In any lock system, the number of digits used for the UID of each User must be the same. Example: If the UID is 3 digits, all Users must have a 3 digit UID code.

Also, the number of digits used for the PIN of each User must be the same. Example: If the **GGM's** PIN is 5 digits, all Users must have a 5 digit PIN code.

Using keypad, enter the **FACTORY CODE 9991234**, the * key, the **UID** of the system manager (either 2,3 or 4 digits), the # key, the **PIN** of the system manager (either 3,4,5 or 6 digits), and finally, the # key.
FACTORY CODE * UID # PIN #

	<i>Factory code</i>	*	<i>UID (2 ,3, or 4 digits)</i>	#	<i>PIN (3,4,5 or 6 digits)</i>	#
Example:	(9991234)	*	123	#	12345	#

The **GGM** is now established for the **SYSTEM MANAGER** only: a combination of their UID followed by their PIN.

Lock is now initialized.

SYSTEM MANAGER'S ACCESS TO THE LOCK:

Enter UID plus PIN, then the * key.

	GGM	*
Example:	12312345	*

GROUPS

In order to organize the management of individual Users, they can be put into 98 different **GROUPS**. Users in the same **GROUP** will have the same access rights. Users in different **GROUPS** can have varied access rights from other **GROUPS**. Each **GROUP** is assigned a 2 digit **GROUP NUMBER** from **02** to **99**.

All Users must be assigned to a GROUP. Depending on your assigned **GROUP**, you may or may not be able to program the lock, and may also have restricted access.

The **SYSTEM MANAGER** is automatically assigned to group 01, and can assign Users to all other groups. **GROUPS 02** through **09** are management **GROUPS**, with 24/7 access to the locks, and can change various settings used during access by other User **GROUPS**. The Table of Contents (inside front cover) lists the minimum **GROUP NUMBER** required for rights to program **EACH** specific function. Higher **GROUPS** can override access functions of lower **GROUPS**.

Example: **GROUP (02)** can override access functions to **GROUP (03)**, etc.

In addition, Users in **GROUP 09** will automatically put lock into passage or locked mode, each time their **YOUR CODE** is entered.

GROUPS 10 through **99** have no programming rights. Their access may be restricted by schedules or during holidays. They may, however, change their own **PIN** when authorized by the **SYSTEM MANAGER**.

Function 01, Adding & Deleting User Codes *Min. Group Number 03*

To Add Users:

Enter **YOUR CODE** (UID and PIN), the # key, **FUNCTION NUMBER** (01), the * key, the Users **UID** you want to include in the **GROUP**, the * key, the 2 digit **GROUP NUMBER**, the * key, the User's **PIN**, the * key twice.

PROGRAM INSTRUCTION	YOUR CODE #	Function #	UID *	Group No. *	PIN *	*
Example:	12312345 #	01 *	678 *	04 *	56789*	*

To Delete Users:

Enter **YOUR CODE** (UID and PIN), the # key, **FUNCTION NUMBER** (01), the * key, the Users **UID** you want to delete, the * key, the 0 key in place of the **GROUP NO.**, the * key twice.

PROGRAM INSTRUCTION	YOUR CODE #	Function*	UID to be deleted *	0 * to delete User	*
Example:	12312345 #	01 *	678 *	0 *	*

NOTE: GROUP NUMBERS ARE NOT USED TO ACCESS THE LOCK

User's Access the Lock:

Enter User's **UID** plus User's **PIN** then the * key.

PROGRAM INSTRUCTION	UID	PIN *
Example:	123	12345 *

User's Entry to Programming Mode

Enter User's **UID** plus User's **PIN** then the # key.

PROGRAM INSTRUCTION	UID	PIN #
Example:	123	12345 #

Section 2 Lock Configuration

Function 32: PIN Only Entry

Min. Group Number 02

The PIN Only mode allows management to shorten the length of the code that the User must enter **to gain access**. The code can not be shorter than the PIN.

CAUTION: In PIN Only mode the Audit Trail may report inaccurately if there are duplicate PIN numbers. *(It is recommended that the PIN numbers be unique if you are tracking Audit Trail in PIN Only mode).*

PIN Only Mode (for Access PIN ONLY)

PROGRAM INSTRUCTION	YOUR CODE #	32 *	0 *	*
---------------------	-------------	------	-----	---

UID & PIN Required - Default

PROGRAM INSTRUCTION	YOUR CODE #	32 *	1 *	*
---------------------	-------------	------	-----	---

NOTE: Program mode requires that UID and PIN be entered.

Function 08: Change User PIN

Min. Group Number All Users

This function gives users the ability to change their PIN. *(User must know his UID and PIN to perform this function).*

PROGRAM INSTRUCTION	YOUR CODE #	08 *	New PIN *	Verify PIN *	*
---------------------	-------------	------	-----------	--------------	---

Function 10: Deny / Restore Access

Min. Group Number 03

This function is used to temporarily deny access to User Groups (10-99) without removing them from the memory.

To DENY access to a Group

PROGRAM INSTRUCTION	YOUR CODE #	10 *	Group to be denied access *	1 *	*
---------------------	-------------	------	-----------------------------	-----	---

To RESTORE access to a Group

PROGRAM INSTRUCTION	YOUR CODE #	10 *	Group to be restored access *	0 *	*
---------------------	-------------	------	-------------------------------	-----	---

Function 07: Change Group Association

Min. Group Number 03

This function allows management to change the Group an existing User is assigned to.

PROGRAM INSTRUCTION	YOUR CODE #	07 *	User UID * (of existing User)	New Group No. * *
---------------------	-------------	------	----------------------------------	-------------------

Function 11: Set Access Level

Min. Group Number 03

Access can be denied to Users in Groups lower then the Group number entered.

This function **cannot** deny access to Groups 03 (*Master*), 02 (*Grand Master*), or 01 (*Great Grand Master*).

To allow all Groups access the Group level setting must be set to "99".

PROGRAM INSTRUCTION	YOUR CODE #	11 *	Group Level * *
---------------------	-------------	------	-----------------

Function 18: Define Open Time

Min. Group Number 03

This function will set the time delay the lock will stay unlocked after a valid user code has been entered.

The time delay can be set from 1 to 9 seconds. (*Default setting is 3 seconds.*)

PROGRAM INSTRUCTION	YOUR CODE #	18 *	Single Digit 1 - 9 seconds * *
---------------------	-------------	------	--------------------------------

Function 33: Multiple Code Entry

Min. Group Number 03

For higher security the lock can be set to require two User codes be entered before access is granted.
 For even higher security it can be required for one of the Users to be in a Manager Group.

One User code required - Default

PROGRAM INSTRUCTION	YOUR CODE #	33 *	0 *	*
---------------------	-------------	------	-----	---

Two User codes required

PROGRAM INSTRUCTION	YOUR CODE #	33 *	1 *	*
---------------------	-------------	------	-----	---

Two User codes one must be a Manager

PROGRAM INSTRUCTION	YOUR CODE #	33 *	2 *	*
---------------------	-------------	------	-----	---

Three Code Entry - Two User codes plus a Manager

PROGRAM INSTRUCTION	YOUR CODE #	33 *	3 *	*
---------------------	-------------	------	-----	---

Function 30: Manual Passage Mode

Min. Group Number 03

This function puts the lock in an unlocked state, granting free access (*no code required*) to all Users, until lock is returned to the locked state.

Closed - Locked - Default

PROGRAM INSTRUCTION	YOUR CODE #	30 *	0 *	*
---------------------	-------------	------	-----	---

Open - Unlocked

PROGRAM INSTRUCTION	YOUR CODE #	30 *	1 *	*
---------------------	-------------	------	-----	---

NOTE: A User assigned to Group 09 toggled passage mode will override this setting.

NOTE: Function 30 can also be used to cancel schedules for the remainder of the day, until midnight of the same day.

Function 34: Lock Audio

Min. Group Number 03

If the Audio is set to "ON" the lock will beep with each key pressed.
To conserve power the audio is turned off (*default*).

Audio Off - Default

PROGRAM INSTRUCTION	YOUR CODE #	34 *	0 *	*
---------------------	-------------	------	-----	---

Audio On

PROGRAM INSTRUCTION	YOUR CODE #	34 *	1 *	*
---------------------	-------------	------	-----	---

Function 36: Fail Safe/Fail Secure

Min. Group Number 03

Use this function to create a power reserve to ensure if the **Low Battery Warning** is not heeded, and the battery pack fails, the lock will fail in the **selected** state.

Lock fails in the last state that the lock was in when the power was lost. - Default

PROGRAM INSTRUCTION	YOUR CODE #	36 *	0 *	*
---------------------	-------------	------	-----	---

Fail Safe - Lock will ensure that power is reserved to fail in the unlocked or safe position.

PROGRAM INSTRUCTION	YOUR CODE #	36 *	1 *	*
---------------------	-------------	------	-----	---

Fail Secure - Lock will ensure that power is reserved to fail in the locked or secured position.

PROGRAM INSTRUCTION	YOUR CODE #	36 *	2 *	*
---------------------	-------------	------	-----	---

Function 37: Terminator On/Off

Min. Group Number 03

This function will switch the "*" terminator on or off. Selecting off automatically sets lock to PIN Only Mode. To gain access with terminator off, simply enter your PIN code. With terminator On, you are required to enter "*" after your code.

To enter program mode with terminator off, you must first press the "#" key then enter your code.

Terminator Off

PROGRAM INSTRUCTION	YOUR CODE #	37 *	0 *	*
---------------------	-------------	------	-----	---

Terminator On - Default

PROGRAM INSTRUCTION	YOUR CODE #	37 *	1 *	*
---------------------	-------------	------	-----	---

NOTE: To enter program mode with terminator off, you must first press the "#" key then enter your code.

Function 38: Panic Alarm

Min. Group Number 03

This function is intended to be wired to an alarm panel or siren. When enabled, any User can enter 911*, and the lock will close a contact thus setting off the alarm system.

Disabled - Default

PROGRAM INSTRUCTION	YOUR CODE #	38 *	0 *	*
---------------------	-------------	------	-----	---

Enabled, alarm activated

PROGRAM INSTRUCTION	YOUR CODE #	38 *	1 *	*
---------------------	-------------	------	-----	---

Function 39: Privacy Mode

Min. Group Number 03

Privacy Mode (*This is a factory installed option.*) If you have purchased this option it must be turned on after the lock is initialized. The privacy mode option will have a button installed on the inside housing. When pressed, it will block out keypad entries (except the GGM, GM and Master codes). When the inside lever is pressed the request to exit switch will reset the keypad back to normal operating mode.

Privacy Mode

PROGRAM INSTRUCTION	YOUR CODE #	39 *	1 *	*
---------------------	-------------	------	-----	---

Section 3 Scheduling

Programming the Schedule Functions

The scheduled functions will allow you to customize your lock and grant/deny access to your Users by times and day/days of the week. **The time and date should be set first before programming any schedules.** If the time and date are incorrect in the lock then the schedules will not function correctly.

See *Function 12, Set Time (Page 9)* and *Function 13, Set Date (Page 10)*.

Delete Set Schedules

Enter "0" in place of the day code, then "*" to exit. This will delete all set schedules for that function.

Note: Schedules do not effect Users in Groups 02-09. These User Groups are management levels and will override all set schedules and holidays. The schedule functions will effect Users in Groups 10-99 only.

Day Codes

Allows selection of the day/days of the week that schedule is active. The day code is a two-digit number.

Day Codes

- 01-07 Individual days of the week (*Monday= 01*)
- 08 Week days (*Monday through Friday*)
- 09 Week ends (*Sat & Sun*)
- 10 Even Days (*Tuesday & Thursday*)
- 11 Odd Days (*Monday, Wednesday & Friday*)
- 12 Override Preprogrammed Holidays
(*Used when a holiday is scheduled, but a certain User/Group needs access*).
- 13 All Days

Open and Close times

Use the 24-hour (*Military Time*) format for entering Start and End times for schedules.

The chart below shows the 24-hour format.

Standard Time	Military Time	Standard Time	Military Time
1:00 am	0100	1:00 pm	1300
2:00 am	0200	2:00 pm	1400
3:00 am	0300	3:00 pm	1500
4:00 am	0400	4:00 pm	1600
5:00 am	0500	5:00 pm	1700
6:00 am	0600	6:00 pm	1800
7:00 am	0700	7:00 pm	1900
8:00 am	0800	8:00 pm	2000
9:00 am	0900	9:00 pm	2100
10:00 am	1000	10:00 pm	2200
11:00 am	1100	11:00 pm	2300
12:00 pm	1200	12:00 am	2400

Function 12: Set Time

Min. Group Number 03

The time (HHMM) must be set prior to setting any schedules. See the chart above for help.

PROGRAM INSTRUCTION	YOUR CODE #	12 *	HHMM *	*
---------------------	-------------	------	--------	---

Example 3:30 p.m. = 1530

Daylight savings time is enabled by default. To disable daylight savings add a "0" (*zero*) at the end of the time entry.

Example 3:30 p.m. = 15300 Daylight savings disabled

Function 13: Set Date

Min. Group Number 02

The date must be set prior to setting any holidays or scheduling. This function will set the Month, Day, Year and day of the week. There are 2 formats available: **Standard** (default) (MM DD YY) or **European** (DD MM YY).

PROGRAM INSTRUCTION	YOUR CODE #	13 *	MMDDYY *	*
----------------------------	--------------------	-------------	-----------------	----------

NOTE: For European Date format set: DD MM YY "0" *

Function 02: Basic Schedule

Min. Group Number 03

This function is used to simplify scheduling by creating one schedule for all Users (in Groups 10-99). May be used in conjunction with Passage and Holiday Schedules. Time entered in military time format (HHMM).

PROGRAM INSTRUCTION	YOUR CODE #	02 *	Day Code *	HHMM * (Open Time)	HHMM * (Close Time)	*
----------------------------	--------------------	-------------	-------------------	------------------------------	-------------------------------	----------

NOTE: The Basic Schedule cannot be used with the Group Schedule (03) or User Schedules (04).

NOTE: Time must be entered in Military Time format.

Day Codes

- 01-07 Individual days of the week (ex. Monday=01)
- 08 Week days (Monday through Friday)
- 09 Week Ends (Sat & Sun)
- 10 Even Days (Tuesday & Thursday)
- 11 Odd Days (Monday, Wednesday & Friday)
- 13 All Days

Function 03: Group Schedule

Min. Group Number 03

This schedule will apply to all the Users in the specified Group (10-99). Time entered in military time format. (HHMM).

PROGRAM INSTRUCTION	YOUR CODE #	03 *	Day Code *	Group No. *	HHMM * (Open Time)	HHMM * (Close Time)	*
----------------------------	--------------------	-------------	-------------------	--------------------	------------------------------	-------------------------------	----------

NOTE: Time must be entered in Military Time format.

Day Codes

- 01-07 Individual days of the week (ex. Monday=01)
- 08 Week days (Monday through Friday)
- 09 Week Ends (Sat & Sun)
- 10 Even Days (Tuesday & Thursday)
- 11 Odd Days (Monday, Wednesday & Friday)
- 12 Override Preprogrammed Holidays
- 13 All Days

Function 04: User Schedule

Min. Group Number 03

The User schedule gives additional access rights to a specific User.
Time entered in military time format. (HHMM).

PROGRAM INSTRUCTION	YOUR CODE #	04 *	Day Code *	UID *	HHMM * (Open Time)	HHMM * (Close Time)	*
---------------------	-------------	------	------------	-------	-----------------------	------------------------	---

The UID is the User ID of the User to be scheduled.

NOTE: Time must be entered in Military Time format.

Day Codes

- 01-07 Individual days of the week (ex. Monday=01)
- 08 Week days (Monday through Friday)
- 09 Week Ends (Sat & Sun)
- 10 Even Days (Tuesday & Thursday)
- 11 Odd Days (Monday, Wednesday & Friday)
- 12 Override Preprogrammed Holidays
- 13 All Days

Function 05: Passage Schedule

Min. Group Number 03

This function allows the lock to be placed in an unlock state automatically for a pre-determined time period.
Time entered in military time format. (HHMM).

PROGRAM INSTRUCTION	YOUR CODE #	05 *	Day Code *	HHMM * (Open Time)	HHMM * (Close Time)	*
---------------------	-------------	------	------------	-----------------------	------------------------	---

NOTE: Time must be entered in Military Time format.

NOTE: If needed Manual Passage Mode (Function 30, page 6) or a User assigned to Group 9 will override this schedule until midnight.

Day Codes

- 01-07 Individual days of the week (ex Monday =01)
- 08 Week days (Monday through Friday)
- 09 Week Ends (Sat & Sun)
- 10 Even Days (Tuesday & Thursday)
- 11 Odd Days (Monday, Wednesday & Friday)
- 13 All Days

Function 06: Temporary User Schedule

Min. Group Number 03

This function allows you to restrict an **existing** User access by a **date range**. To further restrict the temporary User **by time**, you can also implement a User schedule.

Temporary User schedules do not delete and must be maintained or access repeats annually.

PROGRAM INSTRUCTION	YOUR CODE #	06 *	UID *	MMDD * (Start Date)	MMDD * (End Date)	*
---------------------	-------------	------	-------	------------------------	----------------------	---

Function 09: Holiday Maintenance

Min. Group Number 03

Setting holidays will override all set schedules and block access to Users in Groups 10 - 99 during these periods.

NOTE: Dates are set by month/day format. The i-Que does not track the year of the holiday, so holidays that occur on different dates each year will have to be manually adjusted each year.

NOTE: Holidays are not automatically removed from memory. It is suggested to maintain the holiday schedule yearly. *Example = 1225 = Christmas Day* This holiday recurs each year. Holidays (*like Thanksgiving*) that fall on different dates each year must be readjusted each year.

Also, You may enter a shutdown as one event by entering the start date and end date.

Example: Christmas / New Year week Start=1225 End=0101 is an eight day period.

To SET a Holiday

PROGRAM INSTRUCTION	YOUR CODE #	09 *	MMDD * (Start Date)	MMDD * (End Date)	*
---------------------	-------------	------	------------------------	----------------------	---

To DELETE ALL set Holidays

PROGRAM INSTRUCTION	YOUR CODE #	09 *	0 *	*
---------------------	-------------	------	-----	---

Function 31: First Supervisor To Arrive

Min. Group Number 03

When enabled this function will delay the set schedules until a manager has entered his code.

Users (*In Groups 10-99*) will not have access until a Management code has been entered.

Disabled, Users will have access at times specified by schedules - Default

PROGRAM INSTRUCTION	YOUR CODE #	31 *	0 *	*
---------------------	-------------	------	-----	---

Enabled, Users will be denied access, regardless of schedule, until a manager enters their code.

PROGRAM INSTRUCTION	YOUR CODE #	31 *	1 *	*
---------------------	-------------	------	-----	---

Section 4 Software Interface

Function 15: Download Audit Trail

Min. Group Number 05

This function downloads the locks history of events to the I-DAT.

For more information on the I-DAT and software see the I-DAT software manual.

NOTE: The Memory Upgrade Level will determine the number of events available for audit.

PROGRAM INSTRUCTION	YOUR CODE # 15 * (Enter No. of Events to be Downloaded) *	"RECEIVED" (as shown on i-Dat) *
----------------------------	--	---

NOTE: The I-DAT must be in proper alignment with the IR ports. (*resting centered on handle*)

Function 14: Upload Lock Information

Min. Group Number 05

This function uploads information from the I-DAT to the lock.

For more information on the I-DAT and software see the I-DAT software manual.

NOTE: The Memory Upgrade Level will determine the number of users that may be uploaded.

PROGRAM INSTRUCTION	YOUR CODE # 14 *	"DONE" (as shown on i-Dat) *
----------------------------	-------------------------	-------------------------------------

NOTE: The I-DAT must be in proper alignment with the IR ports. (*resting centered on handle*)

Section 5 Lock Maintenance

Function 16: Clear Memory

Min. Group Number 02

If it becomes necessary to reset the memory of the i-Que, there are two options instead of the Full Reset Option.

Delete ALL the Users, Schedules and Holidays. See also "Resetting the i-Que" (page 15)

PROGRAM INSTRUCTION	YOUR CODE # 16 *	16 *	0 *	*
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Delete ONLY Schedules and Holidays.

PROGRAM INSTRUCTION	YOUR CODE # 16 *	16 *	1 *	*
----------------------------	-------------------------	-------------	------------	----------

Function 17: Battery Status Check

Min. Group Number 03

This function manually checks the battery status of the i-Que.

The LED on the keypad will display visual indicator.

PROGRAM INSTRUCTION	YOUR CODE # 17 *	WATCH LED *
----------------------------	-------------------------	--------------------

Green - Green	Two green LED flashes indicate full power 5.25 volts and above.
Yellow - Yellow	Two yellow LED flashes 5.25 to 4.75 volts.
Yellow - Red	Yellow then Red LED flashes 4.75 to 4.37 volts.
Red - Red	Two Red LED flashed indicates below 4.37 volts batteries need to be changed.

Note If the voltage of the battery pack falls to 4.7v DC, the i-Que will beep every 15 minutes indicating a low battery status.

If you are using the software each time you perform a download, the battery status will appear on the I-DAT display as well as on the header of the audit trail.

Function 20: Memory Upgrade

Min. Group Number 03

The standard i-Que K* has a 320 User and 1600 event audit trail, but can be upgraded as follows:

Memory Upgrade IQK* Series	Part #
512 Users/2208 Event Audit Trail	U3
864 Users/3124 Event Audit Trail	U4
1504 Users/2520 Event Audit Trail	U5
3008 Users/1180 Event Audit Trail	U6

This function permanently upgrades the i-Que's memory. The upgrade code is obtained from the factory. The upgrade code is an eight-digit number specifically assigned for the serial number of the lock being upgraded, and **will not** upgrade any other serial number.

NOTE: Upon entering the upgrade code, **ALL data in the lock will be lost.** Be sure your important information is recorded in your computer so that the saved data can be uploaded to the lock after the upgrade. Follow these easy steps to perform the memory upgrade:

PROGRAM INSTRUCTION	YOUR CODE #	20 *	----- *	*
---------------------	-------------	------	---------	---

NOTE: The LED glows red for several seconds before flashing green and the lock will beep. **Now perform the steps outlined on Page 2** for initializing the lock with **LOCK ID** and **GREAT GRAND MASTER**, then re-enter your information either by keypad or **I-DAT** upload. (Function 14 Page 13.)

Battery Information

THE I-QUE IS SHIPPED WITH 4 AA ALKALINE BATTERIES. The life span of the batteries has been tested in two different ways. The first test was performed to see how many operations could be performed repeatedly before a failure. The test averaged 150 thousand operations. The second test was performed over time for normal operations. This test revealed that the i-Que batteries would last approximately four years at 80 - 90 thousand operations. Using the factory settings, the lockset is set for optimized power usage.

Changing the Batteries

When the batteries need to be changed, you will have 10 minutes to remove the old batteries and install the four new AA batteries, before memory is effected. **IT IS RECOMMENDED TO USE ONLY ALKALINE BATTERIES,** due to the predetermined power settings in the lock. The alkaline battery has a gradual curve in the drop off voltage. This curve determines the power settings for the two stages of battery warnings and the Fail Secure settings. A lithium battery differs from an alkaline battery in the life cycle of the battery cell. A lithium battery has a very sharp drop off voltage, going from fully charged to a dead cell quickly. This makes monitoring the voltage settings impossible.

Two Stage Low Battery Warning

The i-Que has a two-stage low battery warning.

The **first warning stage** will add a **double beep and yellow LED** when the user enters their code.

The **second warning stage** will be a **double beep every 15 minutes.** **BATTERIES SHOULD BE CHANGED IMMEDIATELY.** **Double beeps** will occur until the batteries fail.

To ensure the lock fails in a locked or unlocked mode, use Function 36 Fail Safe/Secure page 8 or the lock will fail in the last state, either open or closed. The batteries can also be checked manually using Function 17 Battery Status Check page 13. The battery status will be displayed on every audit trail as well.

Connection Diagram

Panic Alarm (Green and Black)

hard wired to an alarm device
When **function 38** is enabled (see page 8) on and a user enters 911 * it will close the contact setting off the alarm.

Secretaries Button, (Orange and Black)

This can be wired to a Momentary Normally Open (NO) switch When pressed, lock will open for the set amount of time. (button not included)

Blue and Black

Request to Exit switch.
(Factory installed option)
Switch installed in the inside rose will record all opening in the audit trail

Reset / Key Switch Black And Yellow

(factory Installed option)
This option will monitor if a key is used to open the lock.

For Resetting the i-Que see below

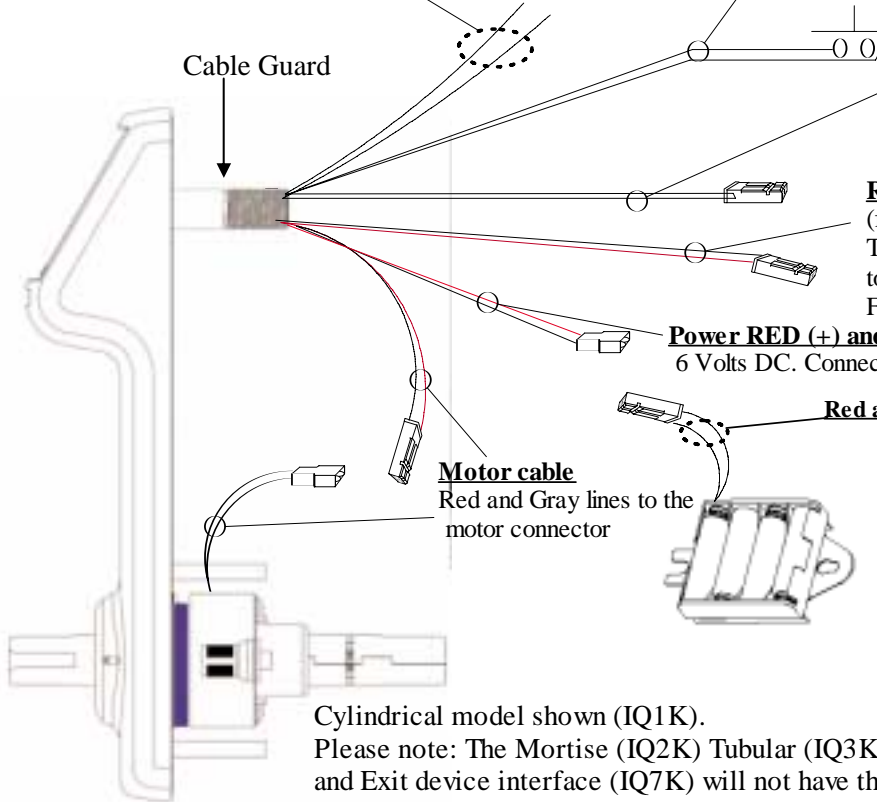
Power RED (+) and Black (-)

6 Volts DC. Connects to the supplied battery pack

Red and Black

Motor cable

Red and Gray lines to the motor connector



Cylindrical model shown (IQ1K).

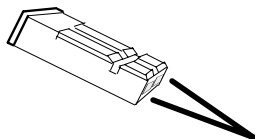
Please note: The Mortise (IQ2K) Tubular (IQ3K)

and Exit device interface (IQ7K) will not have the motor leads.

These leads will be connected inside the front trim by the factory.

Reset the i-Que back to factory default

Yellow and Black



- Unplug the batteries and place aside
- Find the Black And Yellow cable
- Using a reset wire (small piece of wire or paper clip) short the two wires of the black and yellow cable together (place the wire from the one hole on the connector to the one next to it, thus making a loop)
- With the reset wire in place reinstall the batteries.
- The LED should go RED then Green, You should hear the lock relock.
- Remove the reset wire and reassemble the batteries and cover on to the housing assembly.
- The lock is now reset. You are now at the point of set up. Install the **LOCK ID** and **GGM** code. (See Page 2)

Glossary

Access Code	Numeric or alphanumeric data which when correctly entered into a keypad, allows authorized entry into a controlled area without causing an alarm condition.
Access Control	The control of persons, vehicles and materials through entrance and exit of a protected area utilizing hardware systems specialized to control and monitor the movement into, out of, or within the protected area.
Audit trail	A historical record sequentially accounting for all activities with an access control system. Such a record allows reconstruction and analysis of events during a given time period.
ESD	Electro Static Discharge
Fail safe lockset	A type of lock set that unlocks when a power failure occurs.
Fail secure lockset	A type of lock set that locks when a power failure occurs.
Infrared (IR)	Light waves that are too low frequency to be seen by the unaided human eye.
Keypad	A device for inputting information into a computer controlled system for the purposes of arming and disarming an alarm system or operating an access control system.
Multiple Key Depressions	The pressing of more than one key simultaneously.
Personal Identification Number (PIN)	This number can be a combination of digits and letters, increasing the overall number of code possibilities.
Tailgating	In access control, tailgating is the act of one or more individuals entering a controlled area by using a single card or code. Also known as piggybacking.
User Identification Number (UID)	A unique number assigned to each User. The UID has a length 2 to 4 digits. The I.D. number will be displayed in the audit trail showing that User's history of events for that lock.
Terminator	The “*” key acts as the terminator which functions similar to the “enter” key on a standard computer keyboard. It is also pressed after a code is entered to gain access.
Programming Key	The “# “ key is the programming key. Note that the “#” key is used during the initialization process for the lock GGM and to enter program mode.

Trouble shooting guide for the i-Que Line

Set up

- Q** The factory code will not open the lock.
- A** The factory code will not give you access to the lock at any time.
This code is only used to set up the lock, the first code that will open the lock is your GGM code.

Adding Users

- Q** I have installed Users and some of them do not have access?
- A** How many users are installed? If you have the basic model that holds 64 Users and have installed more than 64, some Users will not have access.
If you have installed schedules to restrict access, you will also need to set the date and time.
- Q** My GGM code is set to 3 digits for UID and the PIN is 3 digits.
Can I set my Users up to have a PIN of 4 digits?
- A** No, the Great Grand Master code length sets up the format for all other Users in the system.
- Q** I am trying to add a User but when I enter the Group number, I get a red LED.
- A** This indicates that the Users UID is already in memory. Each UID must be unique.

Programming/Scheduling

- Q** I have entered a group or User schedule between 9 a.m. and 5 p.m. and now my other Users don't have access.
- A** If no schedules are set, everyone has 24 hour access with their valid code. Once any schedules have been set the rules of the lock are changed and schedules must be set to give Users access.
- Q** When I try to enter in a User or Group schedule I get a Red light.
- A** The User and Group schedules will not work with a basic schedule. If a basic schedule is currently set, you will receive an error. You will also receive an error if you are not at the minimum security level required to program that function.

Notes

INDEX

A

Access, Deny/Restore Groups	Function 10	4
Access Level, Set	Function 11	5
Audio	Function 34	7
Audit Trail, Download	Function 15	13

B

Basic Schedule	Function 02	10
Battery Information		13
Battery Status Check	Function 17	14

C

Connection Diagram		15
------------------------------	--	----

D

Date/Format, Set,	Function 13	10
Deny Access to Selected Groups	Function 10	4
Download Audit Trail,	Function 15	13

E

Entry, Multiple Codes,	Function 33	6
----------------------------------	-----------------------	---

F

Fail Safe/Fail Secure,	Function 36	7
Factory Code		1
Function 01, User Maintenance		3
Function 02, Basic Schedule		10
Function 03, Group Schedule		10
Function 04, User Schedule		11
Function 05, Schedule Passage Mode		11
Function 06, Temporary User Schedule		11
Function 07, Change Group Association		5
Function 08, Change User PIN		4
Function 09, Holiday Maintenance		12
Function 10, Deny/Restore Access		4
Function 11, Set Access Level		5
Function 12, Set Time		9
Function 13, Set Date		10
Function 14, Upload Lock Information		13
Function 15, Download Audit Trail		13
Function 16, Clear Memory		13
Function 17, Battery Status Check		13
Function 18, Define Open Time		5
Function 20, Memory Upgrade		14
Function 30, Manual Passage Mode		6
Function 31, First Supervisor to Arrive		12
Function 32, PIN Only Entry		4
Function 33, Multiple Code Entry		6
Function 34, Lock Audio		7
Function 36, Fail Safe/Fail Secure		7
Function 37, Terminator On/Off		7
Function 38, Panic Alarm		8
Function 39, Privacy Mode		8

G

GGM Code		1
Group Association, Change	Function 07	5
Group Numbers		3
Group Security Levels		3
Group Schedule	Function 03	10

H

Holiday Maintenance	Function 09	12
-------------------------------	-----------------------	----

I

Initialize Lock ID		2
Initialize Great Grand Master		2

K

Keypad Information		1
------------------------------	--	---

M

Manual Passage Mode,	Function 30	6
Memory Upgrades		14
Memory, Clear,	Function 16	13
Multiple Code Entry	Function 33	6
Multiple Key Depressions		16

O

Open Time, Define,	Function 18	5
------------------------------	-----------------------	---

P

Panic Alarm	Function 38	8
Passage Mode, Manual,	Function 30	6
PIN Number		1, 17
PIN,Change User,	Function 08	4
PIN Only Entry,	Function 32	4
Privacy Mode	Function 39	8
Programming Key		1

R

Resetting the i-Que		15
Restore Access to Group	Function 10	4

S

Schedule (Passage Mode),	Function 05	11
Schedule (Basic),	Function 02	10
Schedule (Group),	Function 03	10
Schedule (Temporary User)	Function 06	11
Schedule (User),	Function 04	11
Secretary's Button		14
Supervisor To Arrive, First,	Function 31	12

T

Temporary User Schedule,	Function 06	11
Terminator		1
Time, Define Open,	Function 18	5
Time, Set,	Function 12	9
Troubleshooting		17

U

Upgrade Memory		14
Upload Lock Information,	Function 14	13
User Identification Code (UID)		1, 17
User PIN, Change,	Function 08	4
User Schedule,	Function 04	11
Users, Adding	Function 01	3
User Code Definitions		1

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