DIGITAL ACCESS CONTROL KEYPAD



DK-9826 MK-II Programming & Installation Manual

FOR ELECTRIC LOCK

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INTRODUCTION

DK-9826 is a self-contained, weatherproof digital access control keypad that offers field proven reliability and cost effective solutions for residential and commercial installations. It is designed for stand alone electric lock operating with 12V DC power supply. It is virtually compatible with any electric locking device.

The keypad offers the following output facilities:

Output 1	Door Bell
3 Amp Solid State	1 Amp Relay

CONNECTION TERMINALS

• 1 - 2 · TAMPER N C

Normally Closed contact while the keypad is secured on the box. It is open while keypad is separated from the box. Connect this N.C. terminal to a 24 hour zone of an alarm system if necessary.

3 - 4 : DOOR BELL

A Normally Open relay output dry contact with maximum rating of 30VDC/1A prepared as the triggering point of a door chime.

• 5 - 6: 12V DC -- POWER INPUT

Connect to 12V DC power supply. The (–) supply, Terminal (6) is the common grounding point of the keypad. Terminal (5) is the +12V power input terminal.

7 - EG IN -- EGRESS INPUT

A Normally Open (N.O.) input terminal refers to (–) ground, with the help of a normally open button to activate the Output 1 for the same time period as like the user code. Egress button is usually put inside the house near the door.

More than one egress buttons can be connected in parallel to the terminal. Leave this terminal open if it is not used.

8 - 9 : OUTPUT 1 -- DOOR LOCK

Output 1 is controlled by the group 1 user codes. It is a 12VDC / 3 Amp rating Solid State output contact with terminal 8 (+) and terminal 9 (-) for electric door lock actuation. Connect the lock to these terminals directly with correct polarity. The output has been set for Fail-Secure Electric Lock in Default. It is programmable for Fail-Secure (energized to open) or Fail-Safe (de-energized to open) electric lock at programming Location 66.

The output contact is programmable for Start / Stop (toggle) mode or timer mode from 1 to 999 seconds. See programming Location 40-43 for the details.

THE LED INDICATORS

MAINS (AMBER)

This is a status indicator. It flashes during standby and other indications in synchronization with the pacifier tones. See the chart of LED indication signals below for the details.

DOOR (GREEN)

It lights up in green while output 1 is active (The door is open).

INHIBIT (RED)

It lights up while output 1 is inhibited; including manually inhibited with Super User Code or due to False Code Lock-up setting in Location 70.

BELL (GREEN)

It lights up while the BELL Button is pressed.

BACK LIGHTING

The keypad is in dim back lighting during the standby period. It gets brighter for 10 seconds on each key button press, which indicates the allowable time for succeeding code entry. The previous codes will be cancelled if no code is entered within 10 seconds.

THE PACIFIER TONES & THE LED INDICATING SIGNALS

The built-in buzzer and the MAINS LED indicator give the following tones and signals for operation status:

STATUS	TONES*	LED SIGNALS
In programming mode		ON
Successful key entry	1 Beep	1 Flash
Successful code entry	2 Beeps	2 Flashes
Unsuccessful code entry	5 Beeps	5 Flashes
5. DAP jumper not replaced	Continuous Beeps	Continuous Flashes
6. In standby mode		1 Flash in 2 seconds interval
7. Output relay activated	1 second Long Beep **	

NOTE:

^{*} All Pacifier Tones can be enabled or disabled through programming options at Location 83.

^{**} The Output Activation Beep can be enabled or disabled through programming options at Location 81.

STANDARD PROGRAMMING SUMMARY CHART A) Enter Programming Mode with Master Code (Exit-Factory Master Code: 0 0 0 0) Entry of Master Code Confirm Comments XXXX * Set system to Programming Mode NOTE: Factory has put a master code 0000 into the keypad before exit-factory, owner may take it for first time use B) System Refreshing - Installer Programming (Default: 8 9 0 1. Multi-user mode) Refresh Code Confirm Comments 8901 # Clear all previously stored data and set keypad back to default values except Master Code C) Code Entries - User Programming 1) Recording Master Code and User Codes - User Programming (No Default Codes) Locations User IDs Entry of Codes Confirm Comments 0 4 to 8 digits # Owner's Master Code for setting system to programming mode \Box 00 to 99 # 100 User Codes for operating Output 1(Door Lock) 4 to 8 digits 2) Recording Super User Code - User Programming (No Default Codes) Entry of Code Confirm Location Comments 4 5 4 to 8 digits Owner's Multi-task User Code 3) Recording the Visitor Codes - User Programming (No Default Codes) Location User IDs OperationTime Entry of Code Confirm Comments 4 7 0 to 9 00 to 99 4 to 8 digits # 10 visitor codes for operating Output 1. Operation Time: 00 = One time use only 01 to 99 = Valid within time limit of 1-99 hours

 Location
 Code of Timing
 Confirm
 Comments

 4 0
 1 to 999
 #
 Output 1, Momentary Mode from 1 to 999 seconds (default=1 second)

 4 1 1
 F
 Output 1, Start / Stop Mode (toggle)

D) Configuration of Output Modes – Installer Programming

Output 1, Start / Stop Mode (toggle) with 2-digit Accelerated start code

Output 1, Start / Stop Mode (toggle) with 3-digit Accelerated start code

(Default: Momentary, 1-second)

	-	onfirm Co	ric Lock – Installer Programming (Default: Fail-Secure) mments ill-Secure electric lock (energized to unlock) sil-Safe electric lock (de-energized to unlock)
-	le Lock-up & Rep Lock-up Modes 1 5 to 10	_	nstaller Programming (Default: 10 tries / 30 seconds) Comments 10 successive false codes, keypad locks during 30 seconds (default) Selectable of 5 to 10 false code, keypad locks during 15 minutes. Locking can be released at any time with Super User Code Disappearance of all the above securities
Location 8 1	Function (Door		nouncer – Installer Programming (Default: 1 long beep) Comments No notification. 2 short-beep is given when the door lock is opened. 1 second long beep notification is given when the door lock is
•		(Auto or N	opened. It is good for locking device give no sound when it activates. Such as a magnetic lock (default) Such as a magnetic lock (default)
82	1	#	codes. It is NOT necessary to set the Master Code and all User Codes in the same digit length. They can be 4-8 digits mixed arbitrary (default) Auto Entry Mode does not need to enter # button after the user codes. However, All the User Codes MUST be in the same digit length of the Master Code and they can be 4-8 digits
l) Pacifier To			nstaller Programming (Default: ON) Comments Pacifier tone OFF, good for silent environment Pacifier tone ON for every key-press (default)
J) Main LED	_	FF – Installe	er Programming (Default: Flashing) Comments Main LED OFF during system standby, good for people do not like flashing LED at night Main LED flashing during system standby (default)

K) Egress Dela	v & Warning	– Installe	r Programming (Default: Instant, No warning
Location D	O to 4	Confirm #	Comments Five delay options for operating Output 1 with egress button: 0 – Instant activation, no delay and warning (default) 1 – Momentary contact, 5 seconds delay with warning 2 – Momentary contact, 10 seconds delay with warning 3 – Hold contact, 5 seconds delay with warning 4 – Hold contact, 10 seconds delay with warning
L) Exit Progran	nming Mode		
Confirm	Comments	2000000	to set keypad back to parmal apprations after programming

It is always necessary to set keypad back to normal operations after programming

SETTING & PROGRAMMING

Criteria for Programming

- (1) The keypad MUST be in Programming Mode for making Setting and Data Changes.
- (2) Programming can be accomplished in workshop or at the installation site. All data are stored in a non-volatile memory and will not be lost in power off.
- (3) DO NOT disconnect the keypad from power while in programming mode; otherwise could cause a keypad memory error.

Enter and Exit Programming Mode

It is necessary to set the keypad in programming mode with the Master Code for all programming.

1. Enter programming mode with the master code and confirm it with key.

For the owner's convenience in programming at the first time, a Master Code has been set before exit-factory.

Master Code	Confirm	
0000	*	Keypad is now in programming mode

- Use the programming instructions stated in "Programming Summary Chart" to make change of the keypad data. Programming can be done continuously one by one on the Locations required until finish.
- 3. Exit the programming mode by pressing the key after all the required programming is finished.

NOTE:

- For security reason, owner should program a new master code to replace the exit-factory master code
- Once a new master code is programmed, the old master code is replaced.
- Use DAP jumper to set keypad to programming mode if master code is forgotten. See DAP Jumper description for the details.

The DAP Jumper (Direct Access to Programming Mode) - If Master Code is Forgotten

If the master code is forgotten, use the DAP jumper (located on the main circuit board) to override the forgotten code and permit the keypad direct entry into programming mode. Apply the procedures precisely as follows.

- 1. Disconnect the power supply.
- 2. Move the DAP jumper from OFF to ON.
- 3. Reconnect the power supply.
 - The keypad will start beeping.
- Move the DAP jumper back to OFF position.
 The keypad will stop beeping as soon as the jumper is removed.
- 5. The keypad is now in the programming mode, ready to receive new programming data.
- 5. The keypad is now in the programming mode, ready to receive new programming data.
- 6. Re-program the keypad with the available options shown on the "Programming Summary Chart".
- The operation of DAP jumper is for setting the keypad into programming mode only. It does not
 affect the stored data in the programming locations.
- After the keypad is in programming mode, a new master code may be programmed to replace the one that was forgotten.



Location	New Master Code	Confirm
0	XXXX	#

NOTE:

Location is the storage location for the master code.

- The master codes can be 4-8 digits long.
- User codes must have the same length as the master code if the keypad is in auto code entry mode.

Programming Example:

1.	Set	keypad	to	programming	mode v	vith	master	code	and	*	key	or	DAP	jumper.	Taking	the
	fact	ory-set	ma	ster code 000	0 as exa	amp	le here:									

0000 *

2. Program a new Master Code 3 2 8 9 for the keypad:

0 3289 #

3. Exit programming mode by pressing the 🖹 key.

NOTE

- The keypad has a new master code 3 2 8 9 now.
- The owner can use the new master code to set the keypad into programming mode in the future and does not require to use DAP jumper every time.

System Refresh (Complete Data Refresh) (Refresh Code 8901)

Sometimes it may require to completely erase all the current data in memory (except the master code) and set the keypad back to its default values as like a new unit. This may be necessary while the stored data can not be traced or for a new owner who bought a house with a keypad installed. The procedures are as follows:

 Set keypad to programming mode with master code and key. Taking the previous programmed master code 3 2 8 9 as example here:

3289 *

8901 #

- 3. Enter the required new data for the keypad. See "Programming Summary Chart" for the available data.
- 4. Exit programming mode by pressing the 🚺 to make keypad back to normal operation mode after all the required data are entered.

NOTE:

• The keypad is in Manual Code Entry Mode (default) after refreshing.

Progra	amming The	User Code	<u> </u>			(Location 1)
_	up of user cod ramming proc		grammed to	operate output 1	for door open.	The following are
		Locations	<u>User ID</u>	Entry of Code	Confirm	
	Output 1	1	00 - 99	4 -8 Digits	#	
• 100 un • The us as the • See "P	ique User IDs er codes can b master code i rogramming S	00-99 for 100 e 4-8 digits lo f the keypad i ummary Char	User Codes ong in manua is in auto cod t" Section C		mation	e the same length e entry modes.
Program	ming Example	<u>:</u>				
	ypad to progra r code 3 2 8 9			code and 🔳 key.	Taking the prev	ious programmed
	3289	*				
	am an User Co ; ID = 01 as exa		r output 1 -	One of the	e 100 user code	s (user ID: 00-99,
	1 01	832	#			
3. Exit pr	ogramming m	ode by pressi	ng the 🔳			
<u>Operatio</u>	on (Manual Co	de Entry Mod	de)			
Press 🛚	3321	#] Ou	tput 1 activat	es (The door is oper	1)	

NOTE:

In Auto Code Entry Mode only the User Codes that have the same digit length as the master code are valid and press the # key is not required.

Programming The Super User Code

(Location 45)

Super User Code is a multi-task user code for activating the output 1 and operating the special functions of Output 1.

Locations Super User Code Confirm

4 5 4 - 8 Digits #

NOTE:

- The super user code can be 4-8 digits long in manual code entry mode; but must has the same length as the master code if the keypad is in auto code entry mode.
- Super user code and Egress Button are excluded from any system operation inhibit and lock-up; they are always valid for door open at anytime for safety.
- See "Programming Summary Chart" Section C 2 for more information
- See information on Location 82 concerning digit length in Auto and Manual code entry modes.

Programming Example:

 Set keypad to programming mode with master code and key. Taking the previous programmed master code 3 2 8 9 as example here:

3 2 8 9 *

2. Program 2 5 8 0 as Super User Code:

45 2580 #

3. Exit programming mode by pressing the

Operation:

1) Operating Output 1

Super User Code is just like a normal user code. Simply key-in the code with a specific output number of the desired output. Super User Code can also be used to reset an output operating with long timer instantly at anytime required.

2580 # 1 ----- Output 1 Activates or De-activates

2) Overriding The Door Lock Controlled by Output 1 (Keep Door Un-locked)

The Output 1 is usually for door lock control. In some circumstances, the door lock may be required to be un-locked for a period for people to enter-exit the premises conveniently without user code. The function Starts / Stops in toggle with the following code entry.

2580 # 7	The Door is Un-locked, Start-Stop in Tog	ggle
----------	--	------

NOTE:

- The "Output 1" LED (Green) turns ON while the door is un-locked.
- DO NOT forget to stop this function after its use is no longer required.
- This feature is recommended for Fail-safe locks only.
- <u>Fail-secure lock is NOT recommended</u>, which may be damaged by staying activated for too long due to high power consumption.

REMARK:

While [SUPER USER CODE] [III] is in operation to hold the door lock open, all the User Codes including Super User Code for Output 1 are temporarily suspended.

3) Inhibiting The User Codes for Output 1 (Manually Disable All User Codes for Door Lock Actuation)

To enhance security after office hour or while nobody inside house, owner can manually stop the operation of Output 1 to prevent users from accessing the protected premise with user codes. The function is Start-Stop in toggle with the following code entry.

2	5	8	0	#	9	Door Lock Operation Disabled, Start-Stop in	Toggle
---	---	---	---	---	---	---	--------

NOTE:

- Inhibiting applies to all the user code for Output 1 only.
- For safety reasons, the egress button and the super user code continue to operate the output 1 even output 1 is inhibited.
- The INHIBIT LED is ON while output 1 is inhibited.

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To delete a user who has left the company or who no longer has the authority to enter the protected area.

Deleting Examples:

 Set keypad to programming mode with master code and wey. Taking the previous programmed master code 3 2 8 9 as example here:

3289 *

Deleting the codes one by one if more than one codes are required. Enter Location number and User ID (if has) and the | | key:

a) Delete a User Code from ID 01 from Output 1, press Location 1, User ID 01 and # key:

1 0 1 #

b) Delete the Super User Code, press Location 45 and # key:

4 5 #

c) Delete a Visitor Code from ID 3, press Location 47, User ID 3 and # key:

4 7 3 #

3. Exit programming mode by pressing the

(Locations 40-43)

The output 1 can be programmed to trigger with the following options. for a programmed length of time from 1 to 999 seconds; or to trigger ON and OFF in toggle with a user code; or to trigger ON with an accelerated start code and OFF with an full digit user code.

	Locations	Time Length	Confirm
A)	4 0	1 – 999	#
B)	4 1		#
C)	4 2		#
D)	4 3		#

NOTE:

Programming Locations:

• Locations 40, 41, 42 and 43 for Output 1

Programming Options for Output 1 (See "Programming Summary Chart" Section D for more information):

A) Location 40: Momentary Mode with time length from 1 to 999 seconds (Default = 1 second)

The relay outputs can be programmed to work for a time length from 1 to 999 seconds to cope with the door opening required.

B) Location 41: Start / Stop Mode (toggle)

The relay outputs can be programmed to trigger ON (start) and OFF (stop) with a user code.

C) Location 42: Start / Stop Mode (toggle) with 2-digit Accelerated Code

The relay outputs can be programmed to trigger ON with only the first 2 digits of a user code and OFF with a full user code

Example:

- a) User Code 8 3 2 1 is a full code, then the first 2 digit 8 3 is the accelerated code.
- b) User Code 5 4 3 2 1 is a full code, then the first 2 digit 5 4 is the accelerated code.

D) Location 43: Start / Stop Mode (toggle) with 3-digit Accelerated Code

The relay outputs can be programmed to trigger ON with only the first 3 digits of a user code and OFF with a full user code.

Example:

- a) User Code 5 4 3 2 1 is a full code, then the first 3 digit 5 4 3 is the accelerated code.
- b) User Code 9 2 7 0 5 3 is a full code, then the first 3 digit 9 2 7 is the accelerated code.

Programming Examples	<u>:</u>
1. Set keypad to program master code 3 2 8 9 as	mming mode with master code and 🗐 key. Taking the previous programmed sexample here:
3289	*
2. Set Output 1 in mome	entary mode of 5 seconds:
40 5	#
3. Set Output 1 in Start	/ Stop Mode:
4 1	#
4. Set Output 1 in Start	/ Stop Mode with 2-digit Accelerated Start Code:
4 2	#

Operation :

5. Exit programming mode by pressing the

1.	Operate Output 1 in momentary mode of 5 seconds using user code 8 3 2 1 that was programmed
	previously:

8 3 2 1 # ----- Output 1 operates for 5 seconds

2. Operate Output 1 in Start / Stop mode using user code 8 3 2 1 that was programmed previously:

8321 # ------ Output 1 start / stop in toggle with the same user code

Operate Output 1 in Start / Stop mode with the 2 digit Accelerated code using user code 8 3 2 1
that was programmed previously:

83 # -----Output 1 starts with Accelerated Code
8321 # ----- Output 1 stops with Full User Code

NOTE:

- The purpose of the accelerated Code Start / Stop mode with accelerated code can be
 considered as two user codes with one for starting and the other for stopping the output. Owner
 can give the accelerated code to the staff to start a system (for example, an alarm system). The
 staff can only start the system but can not stop it. Only the owner can stop the system with the
 full user code.
- The Super User Code is always valid to Start / Stop the output.

Super User Code # 1 ----- Output 1 Activates or De-activates

Configuration of Output 1 for Electric Lock (Location 66) There are two types of electric door locks on the market. They are Fail-Secure and Fail-Safe. It is

There are two types of electric door locks on the market. They are Fail-Secure and Fail-Safe. It is necessary to select the right one for your application environment. The keypad has been designed compatible with both types of lock with an appropriate code of the type of lock.

Locations	Type of Lock	Confirm	
6 6	0 or 1	#	

Programming Codes for Type of Locks:

 Fail-Secure Electric Lock --- It is normally <u>de-energized</u> (OFF) to lock, power ON to unlock (security first) (Default).

e.g. Fail-secure Electric strike locks etc.

-- Fail-Safe Electric Lock
--- It is normally <u>energized</u> (ON) to lock, power OFF to unlock (safety first).

e.g. Electro-magnetic locks, Drop bolt locks, Fail-safe Electric strike locks etc.

Important Note to Installer:

It is necessary to confirm that the lock is Fail-Secure or Fail-Safe before setting the type of lock for it. Wrong setting a Fail-Secure electric lock to normally energized operation may cause damage to the lock or even the keypad; because the Fail-Secure electric lock usually takes high current and is not suitable for normally energized operation.

False Attempt System Lock-up or Reporting

(Location 70)

The keypad can be programmed to give system lock up or to report the event in order to secure the premises against unauthorized entry of multiple false codes are entered. The lock-up options are represented by a 1 or 2 digits code for owner's selection.

Locations	Lock-Up Options	Confirm
7 0	1 to 2 Digits	#

Programming Codes for Lock-Up Options:

- -- After 10 successive false attempts using incorrect user codes, the keypad will lock for 30 seconds (Default).
- 5 to 10 -- After 5 to 10 successive false attempts using incorrect user codes, the keypad will lock for 15 minutes. The lock-up can be terminated at any time with Super User Code during the locking period if required.

Super User Code # 9

O -- No system lock-up will happen.

Programming Examples:

1. Set keypad to programming mode with master code and key. Taking the previous programmed master code 3 2 8 9 as example here:

3 2 8 9 *

2. Set keypad to lock 15 minutes after 5 successive false attempts using incorrect user codes:

7 0 5 #

3. Exit programming mode by pressing the

Output Activation Announcer

(Location 81)

The purpose of output activation announcer is to give a sound signal to notify the visitor outside to open the door when the lock is activated. It is good for the locking device, such as a magnetic lock that gives no sound when it is activated.

Locations	Function Options	Confirm
8 1	0, 1 or 2	#

Programming Options:

- No output activation notification will be given when the door lock is opened.
- 1 -- The keypad will beep twice when the door lock is opened.
- 2 -- The keypad will give a one second long beep when the door lock is opened (Default).

User Code Entry Modes (Auto or Manual)

(Location 82)

Some users like to press # key to confirm a code entry manually to prevent the unauthorized person to easily check out the digit length of the user code; but some people do not. They prefer the keypad to check the code automatically when the last number of digit is reached. The keypad can be programmed for auto or manual user code entry modes.

Locations Function Options Confirm

8 2 0 or 1 #

Programming Options:

- Auto code entry mode, Pressing the ey is not required after entry of a user code. In auto code entry mode, all user codes must have the same number of digit as the master code. For example, if .the master code is 5 digits, then all the user codes must be 5 digits as well.

Pacifier Tones ON-OFF (Location 83)

Pacifier tones are the beep tones from the keypad to confirm the code entry successfully or not. Pacifier tone ON-OFF does not impact the sound mode of the "Output Activation Announcer" at Location 81

Locations	Function Options	Confirm
8 3	0 or 1	#

Programming Options:

- -- All pacifier tones OFF, good for place needs silent environment.
- -- Pacifier tones enabled, the tones indicate operation status of the keypad; such as 1 beep for successful key entry and 5 beeps for unsuccessful code entry (Default).

Main Status LED Flashing ON-OFF

(Location 84)

The status LED typically flashes while the keypad is in standby. Some people find it is annoying especially at the night time. The LED can be ON or OFF with the setting here.

Locations	Function Options	Confirm
8 4	0 or 1	#

Programming Options:

- o -- The status LED flashing is OFF. It is good for the people do not like a flashing light at night.
- 1 -- The status LED flashes all the time in standby mode (Default)

0

5. Exit programming mode by pressing the

#

Most of the keypads mainly controls "Going In" with user codes and controls "Going Out" simply pressing an egress button. However, in some situations, providing some warning and delay are desirable before the door is open after pressing the egress button. For example, in hospitals or schools, it may be desirable to delay the egress operation and provide a warning to prevent patients or young children from easily leaving the protected area.

- An egress button programmed with egress delay & warning does not affect the normal operation of the keypad. The user codes are always the first priority to operate output 1 to actuate the door lock
- It is not necessary to do anything if egress delay is not required. Just leave the egress button on its default setting. Egress Modes

Confirm

Locations

8 5 0 to 4 #
The Five Egress Modes:
 - Momentary Contact with no warning and delay (Default) Press the egress button momentarily, Output 1 activates instantly to open the door.
 Momentary Contact with 5 seconds delay and warning beep Press the egress button momentarily, the keypad will beep for 5 seconds before Output 1 activates.
 Momentary Contact with 10 seconds delay and warning beep Press the egress button momentary, the keypad will beep for 10 seconds before Output 1 activates.
3 - Hold contact for 5 seconds with warning beep Press and hold the egress button for 5 seconds and the keypad will beep for those 5 seconds before Output 1 activates.
4 - Hold contact for 10 seconds with warning beep Press and hold the egress button for 10 seconds and the keypad will beep for those 10 seconds before Output 1 activates.
Programming & Operation Examples :
 Set keypad to programming mode with master code and key. Taking the previous programmed master code 3 2 8 9 as example here:
3289 *
2. Program the egress button with 5 seconds delay momentarily mode:
85 1 #
Operation Press the egress button momentary, the keypad will beep for 5 seconds before the door is open to warn that someone is preparing to exit the protected area.
3. Program the egress button with 5 seconds delay hold contact mode:
85 3 #
Operation Press and hold the egress button for 5 seconds. The keypad will beep for those 5 seconds before the door is Open to warn that someone is preparing to exit the protected area .
4. Program the egress button to return to default setting:

Operation --- Press the egress button momentarily, the door is open instantly without warning.

NOTE:

For safety and to avoid confusion, when a delay is programmed, please post a notice near the egress button to notify the users. Here are two example stickers for an egress button with 5 seconds momentary delay or 5 seconds press-and-hold delay.

Press The Button Momentarily And Wait For 5 Seconds Until The Door Is Unlocked Press And Hold The Button For 5 Seconds Until The Door Is Unlocked

SET KEYPAD TO SINGLE USER MODE (to whom it may require)

This keypad also consists of a simplified version software for code entry. It is single user mode for those users only need one each user code for output 1 and the special functions.

Once the keypad is in single user mode, there is no User ID required for the codes, just simply enter the code to each Locations directly.

Single user mode is prepared for those users who need simple function and use the default values for their keypad only. Please ignore this section if it is not suitable for your application.

Important Notes:

- All user codes and master code must be 4 digits. The codes of more than 4 digits will be invalid.
- Change the master code to 4 digits before refreshing the keypad to single user mode. Otherwise, refreshing will be refused.
- Refreshing takes 2-3 seconds to complete. Do not enter any code during refreshing until 2 confirmation bees are heard.
- The keypad will be in auto code entry mode in default after it is refreshed to single user mode.
- The keypad can be changed back to standard multi-user mode with the system refreshing code 8 9 0 1.
- Single user mode simplifies the procedures for code entry only. All programming procedures for other features are exactly the same like in multi-user mode and not affected.
- See summary chart for the "Single-User Mode" programming procedures.

A) Enter Progra	mming Mod	de with Mas	ter Code	(Exit-Factory Master Code: 0 0 0 0)	
Entry of Mast		Confirm T	Comments Set system to Pro	ogramming Mode	
	NOTE: Factory has put a master code OOO into the keypad before exit-factory, owner may take it for first time use.				
B) System Refreshing to Single User Mode — Installer Programming (Default: 8 9 0 0, Single-user mode)					
Refresh Code 8 9 0 0	Confirm #	Comment Clear all pr Master Co	– reviously stored da	ata and set keypad back to default values except	
	C) Code Entries – User Programming 1) Recording Master Code and User Codes – User Programming (No Default Codes)				
•			Codes – User Pro	ogramming (No Default Codes)	

2) Recording Super User Code – User Programming (No Default C				
Location Entry of Code 4 5 4 digits fixed		Comments Owner's Multi-	task User Code	
3) Recording the Visitor C	odes – User Pr	ogramming	(No Default Codes)	
Location Operation Ti	me Entry of Co 4 digits fix		Comments visitor code for operating Output 1. Operation Time: 00 = One time use only 01 to 99 = Valid within time limit of 1-99 hours	
Programming Example	es for "Single	-User Mode	"	
1. Set keypad to programming mode with the Ex-factory Master Code <u>0 0 0 0</u> or your Master Code if it was changed:				
2. Refresh the keypad to S	ingle-User Mod	de with Refresh	ing code 8 9 0 0 :	
	8900	#		
3. Program a new Master	Code <u>3 2 8 9</u> fo	r the keypad:		
	0 328	3 9 #		
4. Program an User Code §	3 2 1 for outp	out 1:		
1 8321 #				
5. Program a Super User Code 2580:				
	45 25	580 #		
6. Program a Visitor Code 2 3 0 8 with Time-Limit of 8 hours:				
	47 08	3 2308	#	
7. Exit programming mode by pressing the				

SPECIFICATIONS

Operation Voltage: 12V DC. 11-15V DC.

Operation Current:

Quiescent - 16mA Maximum - 50mA

Operation Modes:

- a) Multi User Mode -- 100 user codes for output 1 (user number 00-99), Auto or Manual Code Entry
- b) Single User Mode -- 1 user code for each output and the special functions, Auto or Manual Code Entry

User Code Combinations:

- a) Single User Mode -- 10.000 (User Code fixed at 4 digits)
- b) Multi User Mode -- Over 1 Million (User Code 4-8 digits programmable)

Input Sensing Terminals:

Egress Input -- Normally open referring to (-) ground

Output Contacts:

OUTPUT 1: Solid State Fail-secure or Fail-safe, 3A / 12VDC. Rating DOOR BELL: 1A / 24VDC Max. Rating, Normally Open Contact

• Tamper Switch Contact:

Normally Closed Dry Contact, 50mA / 24VDC Max.

Auto Refreshing Time During Code Entry:

- a) Eash Digit Maximum Entry Time Limit -- 10 seconds
- b) Eash Code Maximum Entry Time Limit -- 30 seconds

Weatherproof: IP-54

Operation Temperature:

-20°C to +70°C

Ambient Humidity:

5-95% relative humidity (non-condensing)

Dimensions:

117(H) X 117(W) X 28(D)mm

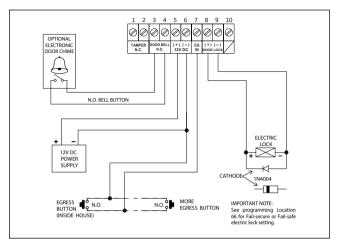
Weight:

200g net

Specifications are subject to change for modification without notice

APPLICATION EXAMPLES

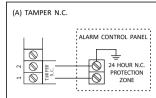
BASIC WIRINGS OF A STAND ALONE DOOR LOCK



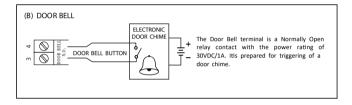
NOTE:

- Connect the 1N4004 as close as possible to the lock in parallel with the lock power terminals to absorb the back EMF to prevent it from damaging of the keypad.
- To avoid Electro-Static-Discharge from interfering with the operation of the keypad, always ground the (–) GND terminal of the keypad to earth.
- The DOOR LED lights up in Green during the door lock is open.

APPLICATION HINTS FOR THE AUXILIARY FACILITIES



The tamper switch is Normally Closed while the keypad is secured on gang box. Itis open when the keypad is removed from the gang box. To prevent sabotage, connectthese terminals in series with a 24 hour N.C. protection zone of an alarm system if required.



AUXILIARY INFORMATION

DRY CONTACT

A dry contact means that no electricity is connected to it. It is prepared for free connections. The Relay Output contacts provided in this keypad system are dry contacts.

• N.C.

Normally Closed, the contact is closed circuit at normal status. It is open circuit when active.

N.O.

Normally Open, the contact is open circuit at normal status. It is closed circuit when active.

TRANSISTOR OPEN COLLECTOR OUTPUT

An open collector output is equivalent to a Normally Open (N.O.) contact referring to ground similar to a relay contact referring to ground. The transistor is normally OFF, and its output switches to ground (-) when active. The open collector can only provide switching function for small power but it is usually good enough for controlling of an alarm system. The Duress, Inter-lock and Key Active/Alarm Outputs of the Keypad are open collector outputs.



OPEN COLLECTOR
OUTPUT ---Output switches to
ground when activated

EQUIVALENT



N.O. CONTACT OUTPUT ----Output switches to ground when activated



