

K50i Series

Technical Manual





K50F



K50P

K50F + K51S

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Version 1.01

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CONTENTS

TITLE	Page
System Overview	3
Connectors	3
Box Contents & Installation	4
Restoring Default Settings	5
Stand Alone Applications	
Fail Safe Lock Wiring and Programming	6
Fail Secure Lock Wiring and Programming	8
Fail Safe Lock Wiring and Programming with Keypad In/Out	10
Fail Secure Lock Wiring and Programming with Keypad In/Out	12
Wiring and Programming with Door Entry Systems	14
Single Door Proximity with Fail Safe Lock Wiring and Programming	16
Single Door Proximity with Fail Secure Lock Wiring and Programming	18
Optional Outputs	
Doorbell Function Wiring and Programming	20
Alarm, Tamper and Door Contact Wiring and Programming	22
Lift Control Wiring and Programming	24
Networking	
Upto 254 Keypads Direct to PC	26
Upto 254x16 Keypads using 716E 16 Door Controller	28
Auto-Open Time Zone Programming	30
Additional Connection Diagram	31
Lift Control and Alarm Programming Charts	32
Programming Table	33
Specifications	34
Table of Users	35

SYSTEM OVERVIEW

The K50P is a versatile Keypad capable of many functions and several different mounting options.

Key Features:

- Upto 1024 different 4 digit user codes
- 2 internal open time zones
- **Tamper Switch** •
- 32 floor lift control
- **Door Monitoring** •
- Code in/Code out (with additional Wiegand Keypad) •
- **Optional Anti-pass back function with Code In/Out** •
- **Egress Button** •
- Network capability upto 254 x 16 doors each with Keypad In/Out •
- **Duress Code** •
- Optional Lock Outputs - Timed 0.1 to 600 seconds, Latched On/Latched Off
- Universal Serial Port for LED Display, Printer, Lift Control etc. •
- Alarm function for Tamper, Forced Entry, Duress and Door Open •
- Will run as a Standalone Controller during Host Controller failure •
- Proximity Card flash edit mode •
- **Buffer for upto 1200 Transactions** .
- **Auto-Relock Function**

CONNECTORS



P1 Table 1: Connector P1 colour coding.			
Wire Application	Wire	Color	Description
	1	Blue White	(N.O.)DC24V1Amp
Door Relay	2	Purple White	(N.C.)DC24V1Amp
	3	White	(COM)DC24V1Amp
Door Sensor	4	Orange	Negative Trigger Input
Exit Switch	5	Purple	Negative Trigger Input
Alarm Output	6	Grey	Transistor Output (Open Collector Active Low)
Power	7 Thick Red	DC Power 12V	
FOWEI	8	Thick Black	DC Power 0V

(P22) : Connector P2 colour coding.

Wire Application	Wire	Color	Description
Networking	1	Thick Green	RS-485(B-)
Module	2	Thick Blue	RS-485(A+)
Wiegand	3	Thin Blue	Wiegand DAT:1 Input
wiegand	4	Thin Green	Wiegand DAT:0 Input
Beeper	5	Pink	Beeper Output 5V/100mA, Low
	6	Brown	LED Green Output 5V/20mA, Max
	7	Yellow	LED Red Output 5V/20mA, Max



Table 3: Tamper Switch Connector P3 colour coding.

Wire Application	Wire	Color	Description
	1	Red	N.C.
Tamper Switch	2	Orange	COM
	3	Yellow	N.O.

Contact Rating : 1A 125VAC/24VDC

BOX CONTENTS & INSTALLATION



The communication wires and power line should not be housed in the same electrical conduit. They should always be installed in separate conduit.

RESTORING DEFAULT SETTINGS

Entering and Exiting Programming Mode				
Entering Exiting *123456# or *Master Code# (If already changed) *#				
Initial So	etup			
1. Restoring F	actory Settings			
Enter Program \rightarrow 20*000 \rightarrow 28*000 2. Changing T Enter Program \rightarrow 09*PP 3. Changing T Enter Program \rightarrow 04*N#	nming Mode \rightarrow *1234 \rightarrow 15*0000# \rightarrow \rightarrow 29*29*# \rightarrow he Master Code nming Mode \rightarrow *1234 PPPPRRRRR# (Input he Control Mode nming Mode \rightarrow *1234 \rightarrow (Input Mode No: 4	$\begin{array}{c} 456\# \text{ or } *MASTE \\ \hline 24*000\# \rightarrow 26 \\ \hline *# \\ 456\# \text{ or } *MASTE \\ t the New 6 digit N \\ \hline 456\# \text{ or } *MASTE \\ \hline 4/6/8) \rightarrow *# \\ \hline \end{array}$	R CODE# (If alread 5*00000*01023*2# R CODE# (If alread faster Code twice) R CODE# (If alread	dy changed) dy changed) → [*#] dy changed)
Mode		, <u> </u>		
Application	M4 Stand-Alone	MD	IVIO Stand-Alone	
Support	Networking	Stand-Alone	Networking	
Code Capacity	1024	1	1024	
Access Mode	Press 9-digit PIN = 5-digit user address + 4-digit individual pass code	Press 4-digit common code	Press 4-digit individual pass code	
Event Capacity	1200	Х	1200	
120 Holidays	V	х	v	
Duress	v	x	v	
Time Zone	11	х	11	
Lift Control	32	х	32	
Anti-pass-back	v	Х	v	
Notice Most applications require the Keypad to be set up in Mode 8.				



FAIL SAFE LOCK WIRING AND PROGRAMMING

Initial Setup
1. Changing The Master Code
Enter Programming Mode \rightarrow *123456# or *MASTER CODE# (If already changed) \rightarrow 09*PPPPPPRRBRBR# (Input the New 6 digit Master Code twice) \rightarrow *#
2. Changing The Control Mode
Enter Programming Mode \rightarrow *123456# or *MASTER CODE# (If already changed) \rightarrow 04*8# \rightarrow *# (This will change Control Mode to Mode 8)
3. Adding User Codes
Enter Programming Mode \rightarrow *123456# or *MASTER CODE# (If already changed) \rightarrow 12*UUUUU*PPPP# (Input the User Address and User Code - UUUUU= 5 digit User address & PPPP= 4 digit User code) \rightarrow *#
4. Changing the Lock Time
Enter Programming Mode → *123456# or *MASTER CODE# (If already changed) → 02*TTT# (Input Lock Time - TTT= 3 digit time in seconds) → *#
5. Enabling Exit Function
Enter Programming Mode \rightarrow *123456# or *MASTER CODE# (If already changed) \rightarrow 20*DDD# (DDD is the sum of the required values for programming) \rightarrow *#
6. Deleting Codes
Enter Programming Mode \rightarrow *123456# or *MASTER CODE# (If already changed)
\rightarrow 10*SSSS9EEEEE# (Input the Start User Address and End User Address -
SSSSS = Start User Address, EEEE = End User Address) → *#
Notice
Refer to Chart A 20*DDD# on page 32 for the values needed for programming the Exit Function.



FAIL SECURE LOCK WIRING AND PROGRAMMING

Initial Setup
1. Changing The Master Code
Enter Programming Mode \rightarrow *123456# or *MASTER CODE# (If already changed) \rightarrow 09*PPPPPRRRRR# (Input the New 6 digit Master Code twice) \rightarrow *#
2. Changing The Control Mode
Enter Programming Mode \rightarrow *123456# or *MASTER CODE# (If already changed) \rightarrow 04*8# \rightarrow *# (This will change Control Mode to Mode 8)
3. Adding User Codes
Enter Programming Mode \rightarrow *123456# or *MASTER CODE# (If already changed) \rightarrow 12*UUUUU*PPPP# (Input the User Address and User Code - UUUUU= 5 digit User address & PPPP= 4 digit User code) \rightarrow *#
4. Changing the Lock Time
Enter Programming Mode \rightarrow *123456# or *MASTER CODE# (If already changed) \rightarrow 02*TTT# (Input Lock Time - TTT= 3 digit time in seconds) \rightarrow *#
5. Enabling Exit Function
Enter Programming Mode \rightarrow *123456# or *MASTER CODE# (If already changed) \rightarrow 20*DDD# (DDD is the sum of the required values for programming) \rightarrow *#
6. Deleting Codes
Enter Programming Mode \rightarrow *123456# or *MASTER CODE# (If already changed) \rightarrow 10*SSSS9EEEEE# (Input the Start User Address and End User Address - SSSSS = Start User Address, EEEEE = End User Address) \rightarrow *#
Notice
Refer to Chart A 20*DDD# on page 32 for the values needed for programming the Exit Function.



FAIL SAFE LOCK WIRING/PROGRAMMING WITH KEYPAD IN/OUT

Initial Setup
1. Changing The Master Code
Enter Programming Mode → *123456# or *MASTER CODE# (If already changed)
\rightarrow 09*PPPPPRRRRR# (Input the New 6 digit Master Code twice) \rightarrow *#
2. Changing The Control Mode
Enter Programming Mode → *123456# or *MASTER CODE# (If already changed)
\rightarrow 04*4# \rightarrow *# (This will change Control Mode to Mode 4)
3. Adding User Codes
Enter Programming Mode → *123456# or *MASTER CODE# (If already changed)
\rightarrow 12*UUUUU*PPPP# (Input the User Address and User Code - UUUUU= 5 digit
User address α FFFF- 4 digit User Code, $\rightarrow \mu$
4. Changing the Lock Time
Enter Programming Mode → *123456# or *MASTER CODE# (If already changed)
→ 02*TTT# (Input Lock Time - TTT= 3 digit time in seconds) → [*#]
5. Anti-Passback Setup (Optional)
Enter Programming Mode \rightarrow *123456# or *MASTER CODE# (If already changed)
\rightarrow 20*128# (Refer to Chart A 20*DDD# on Page 32 for Details) \rightarrow [^#]
6. Enable User For Anti-Passback (Optional)
Enter Programming Mode *123456# or *MASTER CODE# (If already changed)
→ 26*SSSSS*EEEEE*N# (SSSSS = Start User Address - LLLL = End User Address N = 0 = Enable 1 = Disable) → *#
7 Deleting Codes
Fater Programming Mode \rightarrow *122456# or *MASTER CODE# (If already changed)
$\rightarrow 10*SSSSSFFFFF# (Input the Start User Address and End User Address -$
SSSSS = Start User Address, EEEEE = End User Address) → [*#]
Notice
The Keypad needs to be in Mode 4 for Keypad In/Out operation.



FAIL SECURE LOCK WIRING/ PROGRAMMING WITH KEYPAD IN/OUT

Initial Setup
1. Changing The Master Code
Enter Programming Mode \rightarrow *123456# or *MASTER CODE# (If already changed)
$\rightarrow \boxed{09*PPPPPRRRRR#} (Input the New 6 digit Master Code twice) \rightarrow \boxed{*#}$
2. Changing The Control Mode
Enter Programming Mode → *123456# or *MASTER CODE# (If already changed)
\rightarrow 04*4# \rightarrow *# (This will change Control Mode to Mode 4)
3. Adding User Codes
Enter Programming Mode → *123456# or *MASTER CODE# (If already changed)
\rightarrow 12*UUUUU*PPPP# (Input the User Address and User Code - UUUUU= 5 digit
User address & PPPP= 4 digit User code) → ^{*#}
4. Changing the Lock Time
Enter Programming Mode \rightarrow *123456# or *MASTER CODE# (If already changed)
\rightarrow 02*TTT# (Input Lock Time - TTT= 3 digit time in seconds) \rightarrow *#
5. Anti-Passback Setup (Optional)
Enter Programming Mode \rightarrow *123456# or *MASTER CODE# (If already changed)
\rightarrow 20*128# (Refer to Chart A 20*DDD# on Page 32 for Details) \rightarrow *#
6. Enable User For Anti-Passback (Optional)
Enter Programming Mode \rightarrow *123456# or *MASTER CODE# (If already changed)
→ 26*SSSSS*EEEEE*N# (SSSSS = Start User Address - EEEEE = End User Address
N - 0 = Enable, 1 = Disable) → *#
7. Deleting Codes
Enter Programming Mode \rightarrow *123456# or *MASTER CODE# (If already changed)
\rightarrow 10*SSSS9EEEEE# (Input the Start User Address and End User Address -
SSSSS = Start User Address, EEEEE = End User Address) → *#
Notice
The Keypad needs to be in Mode 4 for Keypad In/Out operation.



WIRING AND PROGRAMMING WITH DOOR ENTRY SYSTEMS

Initial Setup
1 Changing The Master Code
Enter Programming Mode → [*123456#] or [*MASTER CODE#] (If already changed)
\rightarrow 09*PPPPRRRRR# (Input the New 6 digit Master Code twice) \rightarrow *#
2. Changing The Control Mode
Enter Programming Mode \rightarrow *123456# or *MASTER CODE# (If already changed)
\rightarrow 04*8# \rightarrow *# (This will change Control Mode to Mode 8)
3. Adding User Codes
Enter Programming Mode → [*123456#] or [*MASTER CODE#] (If already changed)
→ 12*UUUUU*PPPP# (Input the User Address and User Code - UUUUU= 5 digit
User address & PPPP= 4 digit User code) → *#
4. Changing the Lock Time
Enter Programming Mode → [*123456#] or [*MASTER CODE#] (If already changed)
$\rightarrow 02^{*}TTT\# (Input Lock Time - TTT= 3 digit time in seconds) \rightarrow *#$
5. Enabling Exit Function
Enter Programming Mode → [*123456#] or [*MASTER CODE#] (If already changed)
\rightarrow 20*DDD# (DDD is the sum of the required values for programming) \rightarrow [*#]
6. Deleting Codes
Enter Programming Mode \rightarrow [*123456#] or [*MASTER CODE#] (If already changed)
→ 10*SSSS9EEEEE# (Input the Start User Address and End User Address -
SSSSS = Start User Address, EEEEE = End User Address) → *#
Notion
Notice
Refer to Chart A 20*DDD# on page 32 for the values needed for programming the Exit Function.



SINGLE DOOR PROXIMITY WITH FAIL SAFE LOCK WIRING AND PROGRAMMING

Initial Setup
1. Adding a Single/Multiple Non Sequential Random Token
Enter Programming Mode → *123456# or *MASTER CODE# (If already changed)
→ 19*UUUUU*00001# (Input the User Address and Quantity - UUUUU= 5 digit
User address & 00001 = Token Quantity) Present Token(s) to Reader → [*#]
When adding multiple tokens the User Address will automatically increase with each Token.
2. Adding Multiple Sequential Tokens
Enter Programming Mode → ^{*123456#} or [*] MASTER CODE# (If already changed)
\rightarrow 19*UUUUU*QQQQQ# (Input the User Address and Quantity - UUUUU= 5 digit User
Address & QQQQQ = Token Quantity) Present Lowest numbered Token to Reader \rightarrow *#
3. Deleting Tokens
Enter Programming Mode → *123456# or *MASTER CODE# (If already changed)
→ 10*SSSS9EEEEE# (Input the Start User Address and End User Address -
SSSSS = Start User Address, EEEEE = End User Address) → [*#]
Example
Deleting a Single Token
Enter Programming Mode → [*123456#] or [*MASTER CODE#] (If already changed)
→ 10*00001900001# (Input the Start User Address and End User Address -
00001 = Start User Address, 00001 = End User Address) → *#
Token 00001 has been Deleted.
Deleting Multiple Tokens
Enter Programming Mode → ^{*123456#} or ^{*MASTER CODE#} (If already changed)
\rightarrow 10*00001900010# (Input the Start User Address and End User Address -
00001 = Start User Address, 00010 = End User Address) → *#
Tokens 00001 - 00010 have been Deleted.
•• ••
Notice
Refer to Table of Users for User details before deleting Tokens.



SINGLE DOOR PROXIMITY WITH FAIL SECURE LOCK WIRING AND PROGRAMMING

Initial Setup
1. Adding a Single/Multiple Non Sequential Random Token
Enter Programming Mode → ^{*123456#} or [*] MASTER CODE# (If already changed)
→ 19*UUUUU*00001# (Input the User Address and Quantity - UUUUU= 5 digit
User address & 00001 = Token Quantity) Present Token(s) to Reader → ^{*#}
When adding multiple tokens the User Address will automatically increase with each Token.
2. Adding Multiple Sequential Tokens
Enter Programming Mode \rightarrow $[*123456#]$ or $[*MASTER CODE#]$ (If already changed)
\rightarrow 19*UUUUU*QQQQQ# (Input the User Address and Quantity - UUUUU= 5 digit User
Address & QQQQQ = Token Quantity) Present Lowest numbered Token to Reader \rightarrow *#
3. Deleting Tokens
Enter Programming Mode → *123456# or *MASTER CODE# (If already changed)
→ 10*SSSS9EEEEE# (Input the Start User Address and End User Address -
SSSSS = Start User Address, EEEEE = End User Address) → *#
Example
4. Deleting a Single Token
Enter Programming Mode → [*123456#] or [*MASTER CODE#] (If already changed)
\rightarrow 10*00001900001# (Input the Start User Address and End User Address -
00001 = Start User Address, 00001 = End User Address) → *#
Token 00001 has been Deleted.
5. Deleting Multiple Tokens
Enter Programming Mode → [*123456#] or [*MASTER CODE#] (If already changed)
\rightarrow 10*00001900010# (Input the Start User Address and End User Address -
00001 = Start User Address, 00010 = End User Address) \rightarrow *#
Tokens 00001 - 00010 have been Deleted.
Notice
Refer to Table of Users for User details before deleting Tokens.



DOORBELL FUNCTION WIRING AND PROGRAMMING

Initial Setup						
1. Changing The Master Code Enter Programming Mode \rightarrow *123456# or *MASTER CODE# (If already changed)						
→ 09*PPPPPRRRRR# (Input the New 6 digit Master Code twice) → $[*#]$ 2. Enabling Doorbell Function Enter Programming Mode → $[*123456#]$ or $[*MASTER CODE#]$ (If already changed) → $[24*DDD#]$ (DDD is the sum of the required values for programming) → $[*#]$						
24*DDD#						
Function	Opt 0	ion 1	Value	Application		
Auto-open door without presenting card at auto open zone	Disable*	Enable	001	Networking / Stand-Alone		
Alarm Output/Lift Control	Alarm Output*	Lift Control	002	Networking / Stand-Alone		
Stop Alarm by	None*	Push Button / Door Closed	064	Networking / Stand-Alone		
Door bell	Disable*	Enable	128	Networking / Stand-Alone		
	* = Default Se	etting				
Example						
To enable Auto-Open Door , Alarm Output and Doorbell, add the values of these functions together:- Auto-Open Door = 001 Doorbell = 128 Total = 129						
Enter Programming Mode \rightarrow *123456# or *MASTER CODE# (If already changed) \rightarrow 24*129# \rightarrow *# (129 is the sum of the required values for programming)						
Notice						
Enabling the Doorbell function will disable the Door Monitor Alarm function.						



ALARM, TAMPER AND DOOR CONTACT WIRING AND PROGRAMMING

Initial Setup
1. Changing The Master Code
Enter Programming Mode → *123456# or *MASTER CODE# (If already changed)
\rightarrow 09*PPPPPRRRRR# (Input the New 6 digit Master Code twice) \rightarrow *#
2. Enabling Alarm Output Function
Enter Programming Mode \rightarrow *123456# or *MASTER CODE# (If already changed) \rightarrow 24*DDD# (DDD is the sum of the required values for programming) \rightarrow *#
3. Enabling Stop Alarm By
Enter Programming Mode \rightarrow *123456# or *MASTER CODE# (If already changed)
\rightarrow 24*DDD# (DDD is the sum of the required values for programming) \rightarrow \uparrow #
4. Enabling Auto Relock
Enter Programming Mode \rightarrow *123456# or *MASTER CODE# (If already changed)
\rightarrow 20*DDD# (DDD is the sum of the required values for programming) \rightarrow *#
5. Enabling Force Open Alarm Output
Enter Programming Mode \rightarrow *123456# or *MASTER CODE# (If already changed)
\rightarrow 28*DDD# (DDD is the sum of the required values for programming) \rightarrow *#
6. Changing Alarm Relay Time
Enter Programming Mode \rightarrow *123456# or *MASTER CODE# (If already changed)
→ 03*TTT# (TTT = Relay Time in seconds, 000 = Toggle, 001 - 600 = 1 - 600 Sec) → *#
7. Changing Alarm Delay Time
Enter Programming Mode → ^{*123456#} or [*] MASTER CODE# (If already changed) → 06*TTT# (TTT = Relay Time in seconds, 001 - 600 = 1 - 600 Sec) → [*] #
Notice
Refer to the charts on page 32 for full Programming Values.



LIFT CONTROL WIRING AND PROGRAMMING

Initial Setup

1. Enabling Lift Control Function

Enter Programming Mode → *123456# or *MASTER CODE# (If already changed)

 \rightarrow 24*DDD# \rightarrow *# (DDD is the sum of the required values for programming)

2. Setting Relay Time

Enter Programming Mode --- *123456# or *MASTER CODE# (If already changed)

→ 24*NNN*TTT# → *# (NNN is the Node ID of Lift Controller, TTT = Time in Seconds, 001 - 600 = 1 - 600 Seconds)

Notice

Refer to Chart B 24*DDD# on page 32 for the values needed for programming and ensure <u>ALL</u> Users have been added.

Programming

2. Single Floor Programming

Enter Programming Mode --- *123456# or *MASTER CODE# (If already changed)

 \rightarrow 27*UUUUU*FF# (UUUUU = User Address, FF = Floor Number 01 - 32) \rightarrow *#

3. Multiple Floor Programming

Enter Programming Mode --- *123456# or *MASTER CODE# (If already changed)

```
\rightarrow 21*UUUUU*S*FFFFFF# (UUUUU = User Address, S = 4 Sets of Lift Control & FFFFFFF = Floor Number 01 - 32) \rightarrow *#
```

Example

4. Single Floor Programming

Enter Programming Mode \rightarrow *123456# or *MASTER CODE# (If already changed) \rightarrow 27*00001*07# (00001 = User Address, 07 = Floor Number 01 - 32) \rightarrow *# User 00001 is programmed for access to floor 07

5. Multiple Floor Programming

Enter Programming Mode — *123456# or *MASTER CODE# (If already changed)

→ 21*00001*3*00001111# (00001 = User Address, 3 = Floors 25 - 32 & 00001111 = Floor Numbers 25 - 28) → [*#]

00000001 = Floors 1, 9, 17 & 25
00000010 = Floors 2, 10, 18 & 26
00000100 = Floors 3, 11, 19 & 27
00001000 = Floors 4, 12, 20 & 28
00010000 = Floors 5, 13, 21 & 29
00100000 = Floors 6, 14, 22 & 30
01000000 = Floors 7, 15, 23 & 31
10000000 = Floors 8, 16, 24 & 32

		Floor/Stop						
Set	F	F	F	F	F	F	F	F
0	8	7	6	5	4	3	2	1
1	16	15	14	13	12	11	10	9
2	24	23	22	21	20	19	18	17
3	32	31	30	29	28	27	26	25



NETWORKING UPTO 254 KEYPADS DIRECT TO PC

Initial Setup
1. Setting Node ID
Enter Programming Mode → *123456# or *MASTER CODE# (If already changed)
→ 00*NNN*VVV*DDD# (NNN = Node ID of Keypad, VVV = Virtual 716E Node ID,
DDD = Door Number) → *#
Notice
Refer to the 701 Client and 701 Server manuals for information regarding PC Software.
Refer to Additional Connection Diagram on page 31 for details on connecting AR-485REP RS485 repeaters if connecting more than 32 Networked Keypads.



NETWORKING UPTO 254 X 16 KEYPADS USING 716E 16 DOOR CONTROLLER

Initial Setup

1. Setting Node ID

Enter Programming Mode \rightarrow *123456# or *MASTER CODE# (If already changed)

 \rightarrow 00*NNN# (NNN = Node ID of Keypad) \rightarrow *#

Notice

Refer to the 701 Client and 701 Server manuals for information regarding PC Software.

AUTO-OPEN TIME ZONE PROGRAMMING

Initial Setup	Initial Setup						
1. Enable/Disable Auto-Open Zone							
Enter Programming Mode → *123456# or *MASTER CODE# (If already changed)							
→ 20*004# (Refer to Chart	20*DDD# be	elow for ac	ditional	function values) → [*#]			
2. Enable/Disable Auto-Open Zoi	2. Enable/Disable Auto-Open Zone without Presenting a Token						
Enter Programming Mode \rightarrow [*	123456# oi	*MASTI	ER COD	E# (If already changed)			
→ 24*001# (Refer to Chart	24*DDD# or	n page 23	for addi	tional function values) \rightarrow *#			
3. Open Time Setup							
Enter Programming Mode \rightarrow [*	123456# oi	*MAST	ER COD	E# (If already changed)			
→ 08*N*HHMMHHMM*1111	111# (N = 2	2 sets of A	uto-Ope	n Zone, input 0 = First Set,			
1 = Second Set, HHI	ммннмм =	Start time	e and En	d time, DDDDDDD = Days,			
1 = Enable 0 = Disab	ole) → [*#]						
20*DDD#							
Function	Option Augustion						
	0	1	value	Application			
Time Attendance	Yes*	No	001	Networking			
Auto Re-lock	Disable*	Enable	002	Networking/Stand-Alone			
Auto Open	Disable*	Enable	004	Networking/Stand-Alone			
Exit by Push Button	Disable*	Enable	016	Networking/Stand-Alone			
Master Reader of Network	Slave*	Mater	032	Networking			
Access/Exit Reader	Exit*	Access	064	Networking			
Anti-pass-back	Disable*	Enable	128	Networking			
	* = Defa	ault Settir	ng				
Example							
2. Enable/Disable Auto-Open Zoi	ne without P	resenting	a Tokei	ı			
Enter Programming Mode \rightarrow [*	123456# 0	r *MAST	ER COD	E# (If already changed)			
\rightarrow 24*001# (001 = Auto-Open Zone enabled, refer to page 23 for details) \rightarrow *#							
3. Open Time Setup							
Enter Programming Mode \rightarrow *123456# or *MASTER CODE# (If already changed)							
→ 08*1*08301000*0111110# (1 = Second Set enabled, 08301000 = Auto-Open							
Time set from 0830 to 1000, 0111110 = Mon - Fri set) → *#							

ADDITIONAL CONNECTION DIAGRAM



LIFT CONTROL AND ALARM PROGRAMMING CHARTS

A <u>20*DDD#</u>								
Function	Opt	ion		Value		Δpi	alication	
	0	1		value		Ah	JICauon	
Time Attendance	Yes*	Yes* No 001 Network			vorking			
Auto Re-lock	Disable*	Ena	lble	002	Netv	Networking/Stand-Alor		
Auto Open	Disable*	Ena	lble	004	Netv	Networking/Stand-Alor		
Exit by Push Button	Disable*	Ena	able	016	Netv	working	/Stand-Alone	
Master Reader of Network	Slave*	Mas	ster	032		Netw	vorking	
Access/Exit Reader	Exit*	Acc	ess	064		Netw	vorking	
Anti-pass-back	Disable*	Ena	ible	128		Netw	vorking	
B \ 24*DDD#								
F		Opt	ion				A Reading	
Function	0			1		Value	Application	
Auto-open door without presenting card at auto open zone	Disable*	Disable*		Enable		001	Networking / Stand-Alone	
Alarm Output/Lift Control	Alarm Out	put*	Li	ft Conti	ft Control		Networking / Stand-Alone	
Stop Alarm by	None*		Pu: Do	sh Button / or Closed		064	Networking / Stand-Alone	
Door bell	Disable*			Enable		128	Networking / Stand-Alone	
C \ 28*DDD#								
F unction		Opt	ion					
Function	0			1		Value	Application	
Two Door Opening	Disable	ý ,	E	Enable		64	Networking / Stand-Alone	
Force Open Alarm Output	Disable* E		E	Enable		128	Networking / Stand-Alone	
* = Default Setting								

PROGRAMMING TABLE

Command List		
Function	Command	Control Mode
Entering Programming Mode	*123456# or *Master Code# (If Already Changed)	M4/6/8
Exiting Programming Mode	*#	M4/6/8
Exiting Programming Mode and Enabling Arming Status	**#	M4/6/8
Node ID Setting Connected to 716E For More Than 254 Units	00*NNN# (NNN = Node ID: 001 – 254)	M4/8
Node ID Setting Connected To PC For Upto 254 Units	00*NNN*VVV*nnn# (NNN = Node ID of K50i, VVV = Virtual 716E Node ID, nnn = Door Number)	M 4/8
Lock Relay Time Setting	02*TTT# (TTT = Lock Relay Time)000 = Toggle, 001 – 600 = 1 – 600 Sec, 601 – 609 = 0.1 – 0.9 Sec	M 4/6/8
Arming Relay Time Setting	03*TTT# (TTT = Door Relay Time)000 = Toggle, 001 – 600 = 1 – 600 Sec	M4/6/8
Control Mode Setting	04*N# (N = Mode 4/6/8)	M4/6/8
Arming Delay Time Setting	05*TTT# (TTT = Arming Delay Time) 001 – 600 = 1 – 600 Sec	M4/6/8
Alarm Delay Time Setting	06*TTT# (TTT = Arming Delay Time) 001 – 600 = 1 – 600 Sec	M4/6/8
Auto-Open Zone Setting	08*N*HHMMHHMM*1111111# (N = 2 Sets of Auto Open Zone) HHMMHHMM = Start Time to End Time 1111111 = Days S/M/T/W/T/F/S - 0 = Disable, 1 = Enable	M4/6/8
Master Code Setting	09*PPPPPRRRRRR# (PPPPP = Master code, RRRRR = Repeat Master Code)	M4/6/8
Deleting Tokens/User Codes	10*SSSS9EEEEE# (SSSSS = Start Address, EEEEE = End Address)	M4/6/8
Setting PWD/PIN	12*UUUUU*PPPP# (UUUUU = User Address, PPPP = 4 – Digit User Code)	M4/6/8
Arming Output Time Setting	14*TTT# (TTT = Arming Output Time) 001 – 250 = 1 – 250 Sec	M4/6/8
Duress Code Setting (M4/M8) Common Code Setting (M6)	15*PPPP# (PPPP = 4 Digit Duress Code) 15*PPPP# (PPPP = 4 – Digit Common Code - Set to 0000 to disable)	M4/8 M6
Door Close Time	18*TTT# (TTT = Door Close Time) 001 – 600 = 1 – 600 Sec, Default = 15 Sec	M4/6/8
Adding Tokens	19*UUUUU*QQQQQ# (UUUUU = User Address, QQQQQ = Token Quantity)	M4/6/8
Factory Setting 1	20*DDD# (DDD – Refer to Chart A 20*DDD# on Page 32 for Details)	M4/6/8
Lift Control Setting: Multi Doors	21*UUUUU*S*FFFFFFF# on Page 25 for Details)	M4/6/8
Relay Time Of Lift Controller Setting	23*NNN*TTT# (NNN = Node ID, TTT = Relay Time) 001 – 600 = 1 – 600 Sec	M4/6/8
Factory Setting 2	24*DDD# (DDD – Refer to Chart B 24*DDD# on Page 32 for Details)	M4/6/8
Real Time Clock Setting (Stand-Alone)	25*YYMMDDHHmmss# (YYMMDDHHmmss = Year/Month/Day/Hour/Minute/Second)	M4/6/8
Anti-Passback (Enable User)	26*SSSSS*EEEEE# (SSSSS = Start Address, EEEEE = End Address)	M4/6/8
Lift Control Setting (Single Door)	27*UUUUU*FF# (UUUUU = User Address, FF = Floor Number 01 – 32)	M4/6/8
Force Open Alarm Setting	28*NNN# (NNN – Refer to Chart C 28*NNN# on Page 32 For Details)	M4/6/8
Delete All Users	29*29*# followed by *#	M4/6/8

SPECIFICATIONS

K50i Dat	asheet						
Mode No.		M4 M6 M8					
User Capacity	/	1,024	1,024 65,536				
Event Log		1,200	N/A	1,200			
Access Mode		5-Digit User Address+ 4-Digit Individual Password	5-Digit User dress+ 4-Digit vidual Password				
Support		Stan	d-Alone / Networkin	g			
Power Requir	ement		9-24 VDC 9-18 VAC				
Voltage			<3W				
Communication	on Interface		RS-485				
Baud Rate		!	9600 bps (N, 8, 1)				
Operating Ter	mperature		-20°C ~ +75°C				
DI Input		Egress Button Door Sensor					
DO Output		1 Door Relay Output					
Transistor Ou	tput	Duress/Alarm/Arming LED					
Door Relay Ti	me	0, 0.1~600 sec.					
Alarm Relay 1	īme	0, 1~600 sec.					
Tamper Resis	t. Switch	Limit Switch (Form C)					
Anti-Passbac	k	Yes					
Serial Out		TTL (4800 bps, N, 8, 1)					
IP Rating		IP65					
Real Time Clo	ck	Yes					
Indicator		1 Bi-Colour LED 1 Piezo Sounder					
Colour	PBT Housing	ing Gray ABS Plastic					
	Metal Box	Brushed Stainless Steel					
Dimensions	PBT only	113.75	5(L)x65.20(W)x28.20	(H)			
(,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	Metal Box	150(L)x92(W)x49.28(H)					
Housing Mate	rial	PBT Keypad Housing Metal box: 316 Stainless Steel					

TABLE OF USERS

Name of On-Site Programmer(s): ______ Installation Company: _____

DEFAULT MASTER CODE:- *123456#

Tel: _____ Date: _____

USER MASTER CODE: _____

Lock Time: _____ _ Lock Type: _____

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We recommend this page should be filled in and regularly updated and kept in a safe and secure location by the person responsible for the upkeep of the system.