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Product

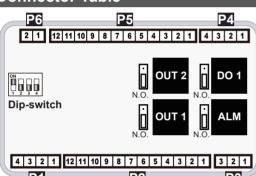




- Separate controller connected to 2 WG readers, can enhance the security of the system.
- Can connect to Door Open Button, Door Sensor, and Tamper Switch.
- When Door open to Long or Force open, it's can be detected.
- 4 Control Mode, allowing users the flexibility of use with.
- Can automatically determine to use stand-alone or networking.

Specification								
CPU	8 bit CPU	Temperature	-20°C ~ +60°C	Event log	1456			
RAM	512 k Bits	Digital Input	2 Door Open Button/ 2 Door Sensor/ 2 Housing open detection/ Prepared for 2 DI	Aux. WG Port	WG 26 / WG 34			
Power Supply	10 ~ 24	Relpy Output	2 Door Relay/ 1 Alarm Relay/ Prepared for 1 Relay output	Anti-pass-back	YES			
Power Consumption	< 3W	Transistor Output	Prepared for 2 DO	Lift Control	NO			
Interface	RS-485	Door Relay Time	Toggle, 0.1~600Ses	Time Zone	63 (stand-alone /networking)			
Baud Rate	9600 bps,N,8,1	Alarm Relay Time	Toggle, 0.1~600Ses	Real Time Clock	YES			
External WG Readers	2 WG (Controller power supply)	User Capacity	3,000	DIP_SW	4 (Node ID: 1~16)			

Connector Table



N N	 Node ID is setting 	ng by DIP_Switch
ᄪᆔᆔᆔᆔ	 Node ID is setting Node ID: 01~16 	

DIP SW	1	2	3	4	
Node ID 01	ON	off	off	off	
Node ID 02	off	ON	off	off	
Node ID 03	ON	ON	off	off	
1					
Node ID 15	ON	ON	ON	ON	
Node ID 16	off	off	off	off	

Connector: P1

Code	Pin	Description
LA+	1	RS-485(A+)
LB-	2	RS-485(B-)
GND	3	DC Power 0V
DC 12V	4	DC Power 12V

Connector: P2

Code	Pin	Description
COM	1	COM
OUT1	2	N.C./N.O.
BZ	3	Beeper Output
LG	4	LED Green Output
LR	5	LED Red Output
TAM	6	Tamper Switch Input
SEN	7	Door Sensor Input
РВ	8	Exit Switch Input
WD1	9	Wiegand DAT:1 Input
WD0	10	Wiegand DAT:0 Input
GND	11	DC Power 0V Output
12V	12	DC Power 12V Output

Connector: P3

Code	Pin	Description
COM	1	COM
DI2	2	DI 2
DI1	3	Fire-alarm Input

Connector: P4

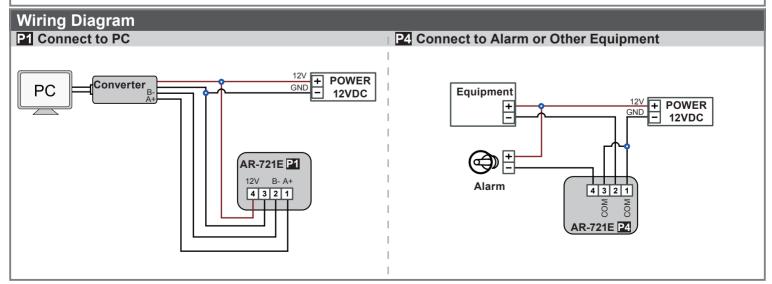
Code	Pin	Description	IK
COM	1	COM	
DO1	2	N.C./N.O.	
COM	3	COM	
ALM	4	N.C./N.O.	

Connector: P5

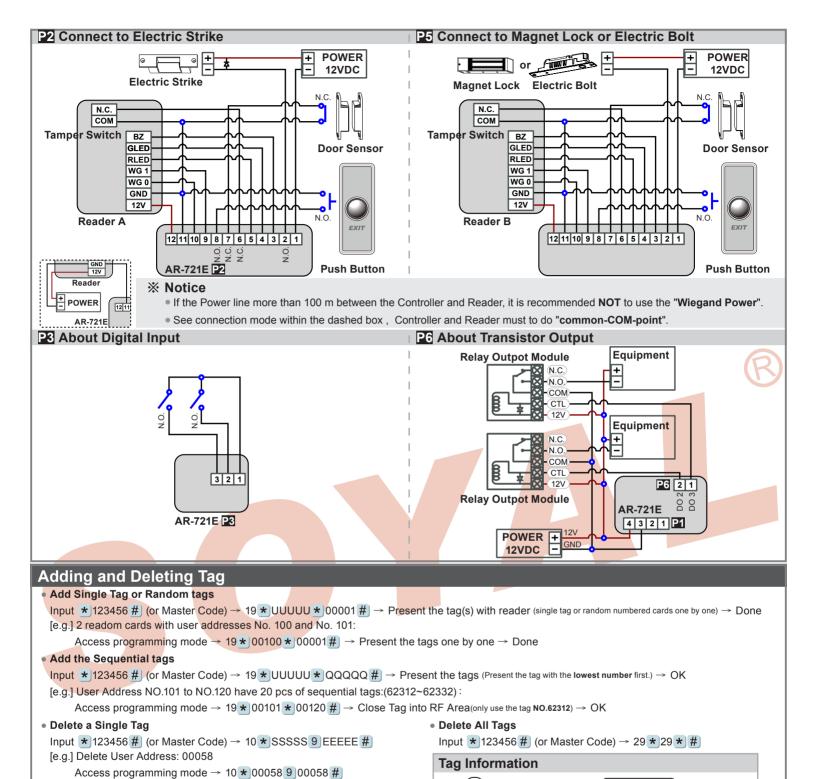
Code	Pin	Description
COM	1	COM
OUT2	2	N.C./N.O.
BZ	3	Beeper Output
LG	4	LED Green Output
LR	5	LED Red Output
TAM	6	N.C.
SEN	7	N.C.
PB	8	N.O.
WD1	9	Wiegand DAT:1 Input
WD0	10	Wiegand DAT:0 Input
GND	11	DC Power 0V Output
12\/	12	DC Power 12V Output

Connector: P6

Code	Pin	Description
DO3	1	DO 3
DO2	2	DO 2







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-CARD CODE

SITE CODE

0000848795 00Q12.62362← CARD CODE

SITE CODE

Operation process

Delete a batch of Tags

A. Enter/ Exit Program Mode

• Enter the program mode

Input *123456 # or *PPPPPP #

[e.g.] Delete User Address: 00101~00245

Input **★** 123456 **#**] (or Master Code) → 10 **★** SSSSS 9 EEEEE **#**]

Access programming mode → 10 * 00101 9 00245 #

[e.g.] The Default Value= 123456, if already changed the Master Code= 876112, input ★876112 # → program mode accessed

Exit the program mode

Input * #

Master Code modification

Access programming mode \rightarrow 09 * PPPPPRRRRRR # [Input the 6-digit new master code twice.] [e.g.] Set the Master code to be 876112, input * 123456#] \rightarrow 09 * 876112876112 #



B. Chang the Node ID of Reader

Access programming mode → 00 * NNN # [Node ID: 001~255]

C.Set up M4/M8

Access programming mode → 04 * N # [N=4/8]

D. Set up the password

Card or PIN: Access programming mode → 12 * UUUUU * PPPP # [e.g. User address: 00001 and pass code: 1234, input 12 * 00001 * 1234 #]

Card and PIN: Access programming mode → 13 * UUUUU * PPPP # [e.g. User address: 00001 and pass code: 1234, input 13 * 00001 * 1234 #]

E. Anti-pass-back(Reader A and Reader B must to be setting)

Usually, anti-pass-back is commonly applied to parking areas in order to prevent from multi-entry with one card at a time, or to situations need access and exit monitor.

Controller enable

Access programming mode → 20 ★ DDD # [128= Anti-pass-back(0=Disable; 1=Enable)/ 064=Access/Exit(0=Exit; 1=Access).] [e.g.] Enable Anti-pass-back, and set to Exit door= (128 x 1) + (064 x 0) = 128

Access programming mode → 20 ★ 128 # (Please refer to function default value for details.)

Card enable

Access programming mode → 26 * SSSS * EEEEE * N #

[SSSS= User address start; EEEEE= User address end; N=0(control)/ 1(Not control)/ 2(reset)]

[e.g.] User address from 00152 to 00684 enable the anti-pass-back function: 26 * 00152 * 00684 * 0 #

[e.g.] No. 154 enable the anti-pass-back, and induction into the door has not been induced to leave. When he re-induction into the door will become invalid, then he needs to set the reset. Access programming mode → 26 ★ |00154 ★ |00154 ★ |2 # | → Reset

F. Auto Open Time Zone

Door will keep open after the first flashing card. There are 2 time zones supported.

• Enable/Disable auto open zone

Access programming mode → 20 ★ 004 # [004= enable Auto-Open Time Zone; 000= disable Auto-Open Time Zone]

• Enable/Disable auto open door without presenting card

Access programming mode → 24 * |001 # | [001= enable Auto-Open Time Zone; 000= disable Auto-Open Time Zone]

• Set up open time

Access programming mode → 08 * N * HHMMhhmm * 6543217H #

N: 2 sets of auto-open zone (N=0=1st set; N=1=2nd set)

HHMMhhmm=Staring time to ending time (e.g. 08301200=08:30 to 12:00)

6543217H= 7 days of week (Sat/Fri/Thu/Wed/Tue/Mon/Sun) + Holiday (F= 0: disable; 1: enable); Holidays establish by the software. [e.g.] To set the second time zone as 9:30 AM to 4:20 PM, Monday, Wednesday and Friday: 08 ★ 1 ★ 09301612 ★ 01010100 # → Done

G. Setting Up the Arming

- Alarm conditions:
- 1. Arming is enabled
- 2. Alarm system connected

Application:

- 1. Door open too long: Door is open longer than door relay time plus door close time.
- 2. Force open (Opened without a valid user card): Access by force or illegal procedure.
- 3. Door position abnormal: When power is off and then on, reader on arming bffore power off.

• Enable/Disable Arming status (Factory default armingcode is: 1234) :

Standby Mode						
After door open	Door is not open					
The normal procedure to open door → Input 4 digit arming code → # Input 4 digit arming code → Present valid card						
Enter Program Mode						
Enable: Access programming mode → ★ ★ # Disable: Access programming mode → ★ #						

* [The normal procedure to open door] can refer to [Access Mode].

Function Default Value

20 * DDD # **Default Value							
Function	Sele	Selection		Value	Application		
Attendance	%0: Yes	1: No	0	001	Networking		
Auto Re-lock	%0: Disable	1: Enable	1	002	Networking/Stand-Alone		
Auto Open	%0: Disable	1: Enable	2	004	Networking/Stand-Alone		
Door open button input	0: Disable	※1: Enable	4	016	Networking/Stand-Alone		
Master Reader of Network	%0: Slave	1: Mater	5	032	Networking		
Access/Exit	%0: Exit	1: Access	6	064	Networking		
Anti-pass-back	%0: Disable	1: Enable	7	128	Networking		

П	24 * DDD #							
П	Function	Selection		Bit	Value	Application		
	Auto-open door without cards at auto open zone		1: Enable	0	001	Networking/Stand-Alone		
П	Stop Alarm by door close or by push button		1: Yes	6	064	Networking/Stand-Alone		



28 * DDD # *Default Value							
Function	Selection		Bit	Value	Application		
Can be password-free in the Card or PIN mode	%0: Disable	1: Enable	5	032	Networking/Stand-Alone		
Reset the Anti-pass-back by the software	%0: Disable	1: Enable	6	064	Networking/Stand-Alone		
Arming for force open	%0: Disable	1: Enable	7	128	Networking/Stand-Alone		

Selection= 0(none value)/ 1(1 x each value)

[e.g.] DDD value of Enable "Auto Open" + "Exit by Push Button +"Anti-pass-back" =004+016+128=148; As a result of that, the command will be 20 * 148 #).

Mode4/ Mode8

- Mode 4: 1.Card only; 2.Card and PIN (4-digit PIN) + #]; 3.Card or User address (5-digit) + Individual PIN (4-digit individual PIN) + #]
- Mode 8: 1.Card only; 2.Card and PIN (4-digit individual PIN) + #]; 3.Card or PIN (4-digit individual PIN)

Command List

*** General instructions**

Function	Command	Description	Notes
Entering programming mode	* PPPPPP #	PPPPP=Master Code, default value=123456	
Exiting programming mode	* #		
Control mode setting	04 * N #	N=Mode 4=Mode4;8=Mode8	6
Master card setting	07 * SSSSS * EEEEE #	SSSS-EEEE=00000-02999;	IK
		SSSS=Starting user address; EEEEE=Ending user address	
Auto-open time zone setting	08 * N * HHMMhhmm * 654321	7H # N= 0(1st time zone) / 1(2nd time zone)	
		HHMM= Starting time; hhmm= ending time	
		(i.e.: 08301200=08:30 to 12:00)	
		6543217H= 7 days of week (Sat/Fri/Thu/Wed/Tue/Mon/Sun) + Holiday	
		(F= 0: disable; 1: enable); Holidays establish by the software.	
Master code setting	09 * PPPPPPRRRRRR #	PPPPP=New master code	
		RRRRR=Repeat the new master code	
Suspend / Delete tag	10 * SSSSS * EEEEE #	* =Suspend 9 =Delete;	
	10 * SSSSS 9 EEEEE #	SSSS=Starting user address, EEEEE=Ending user address	
Active the suspended cards	11 * SSSSS * EEEEE #	SSSS=Starting card number, EEEEE=Ending card number	
Set the cards as Card mode OR PIN mode	12 * UUU <mark>UU</mark> * PPPP #	Access mode: Card or PIN; UUUU=user address;	
by user address		PPPP=4-digit pass code 0001~9999	
Set the cards as Card AND PIN mode	13 * UUU <mark>UU</mark> * PPPP #	Access mode: Card and PIN; UUUUU=user address;	
by user address		PPPP=4-digit pass code 0001~9999	
Duress code setting	15 * PPPP #	PPPP=4-digit pass code (default value=0000)	
		P.S. Duress code will be unavailable and become a public PIN at access mode "Card or PIN" of M6	
Card number modification	16 * UUUUU * SSSSSCCCCC #	UUUUU= User address; SSSSS=5-digit site code; CCCCC=5-digit card code	:
Arming pass code setting 17 * PPPP #		PPPP=4-digit pass code (default value=1234; disable Arming PWD=0000)	
		P.S. Arming PWD code will be unavailable and become a public PIN at access mode "Card PIN" and of M6	
Door open waiting time	18 * TTT #	TTT=Door open waiting time: 001~600=1~600 sec.; default value: 15 sec.	
Set the card by induction(M4/M8) 19 * UUUUU * QQQQQ #		UUUUU=User address;	
		QQQQ=Card quantity(00001=Continuously inducting)	
Controller parameter setting	24 * DDD #	Please refer to function default value for details.	
Controller time clock setting	25 * YYMMDDHHmmss #	YYMMDDHHmmss: Year/ Month/ Day/ Hour/ Min./ Sec.	
Anti-pass-back (Enable user) 26 * SSSSS * EEEEE * N #		SSSSS=Starting user address; EEEEE=Ending user address;	
		N=0/Enable; N=1/Disable; N=2/Initial	
Controller control setting	28 * DDD #	Please refer to function default value for details.	
Delete all tags	29 * 29 * #		

% Individual instruction set

Function	Command	Description	Notes
Keyboard Lock/ Unlock	* #	Press and hold for 2 seconds to lock the keyboard, again to unlock.	
Exiting programming mode and enabling arming status	* * #		
Node ID setting (for Reader)	00 * NNN #	NNN=Node ID, range: 001~254	
Door relay time setting	02 * TTT #	TTT=Door relay time 000= Output constantly	
		001~600=1~600 sec.	
		601~609=0.1~0.9 sec.	
Alarm relay time setting	03 * TTT #	TTT=Alarm relay time 001~600=1~600 sec.	
Controller additional setting	20 * DDD #	Please refer to function default value for details.	