

AR-327-E / 727-E



1.Tubing: The communication wires and power line should NOT be bound in the same conduit or tubing.

2.Wire selection: Use AWG 22-24 Shielded Twist Pair to avoid star wiring ,CAT 5 cable for TCP/IP connection. Don't equip reader and lock with the same power supply. The power for reader may be unstable when the lock is activating, that may make the reader malfunction.

3.Power supply: The standard installation: Door relay and lock use the same power supply, and reader use independent power supply.



Connector Table

Cable: P1 CN4 Main Port

Wire Application	Wire	Color	Description			
Lock Relay	1	Blue White	(N.O.)DC24V1Amp			
	2	Purple White	(N.C.)DC24V1Amp			
Lock Relay COM	3	White	(COM)DC24V1Amp			
Door Sensor	4	Oran <mark>ge</mark>	Negative Trigger Input			
Exit Switch	5	Pur <mark>ple</mark>	Negative Trigger Input			
Alarm Relay	6	Gr <mark>ay</mark>	N.O./N.C. Optional (by jumper)			
Power	7	Thick Red	DC 12V			
	8	Thick Black	DC 0V			

Cable: P2 CN5 WG Port

Wire Application	Wire	Color	Description		
Beeper	1	Pink	Beeper Output 5V/100mA, Low		
	2	Yellow	Red LED Output 5V/20mA, Max		
LED	3	Brown	Green LED Output 5V/20mA, Max		
De en Outruit	4	Blue White	Transistor Output Max. 12V/100mA		
	4		(Open Collector Active Low)		
Wingond	5	Thin Green	Wiegand DAT: 0 Input		
vviegand	6	Thin Blue	Wiegand DAT: 1 Input		
WG Door Sensor	7	Orange	Negative Trigger Input		
WG Exit Switch	8	Purple	Negative Trigger Input		

Cable: P3 CN7 (AR-327-E By order)

Wire Application	Wire Color		Description
	1		
	2		
TCP/IP Module	3	Yellow	Net - TX+
Output	4	Green	Net - TX-
	5	Red	Net - RX+
	6	Black	Net - RX-
	7		



Cable: P4 CN6

Wire Application	Wire	Color	Description
RS-485 for Lift	1	Thick Green	RS-485(B-)
Controller	2	Thick Blue	RS-485(A+)

Cable: 25 CN3

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

Cable: P6 CN8

Wire Application Wire Color Description			Description		
Power	1	Red	DC 12V Output		
Security trigger signal	2	Purple	Security trigger signal Output		
Arming	3	Red White	Arming Output		
Duress	4	Yellow White	Duress Output		



Optional Cables

Cable: 27 CN1	1 (Optio	nal:Lift Co	ntrol w/ AR-725L485; SW:RS485-2)
P9 CN9	(Optio	nal:Voice N	/lodule; SW:RS485-3)
Wire Application	Wire	Color	Description
TTL Port for	1	Black	DC 0V
Lift Control or Voice	2	Yellow	ТХ
Module	3	White	TF

2	\\/bito	TC	
3	vvrille	10	
4	Orange	RX	
-		50.51	
5	Red	DC 5V	
6			
	3 4 5 6	3 White 4 Orange 5 Red 6	3 White TE 4 Orange RX 5 Red DC 5V 6

Front Panel & Indicator

Cable: 28 AR-327-E: CN10 / AR-727-E: CN18

Wire Application	Wire	Color	Description
HID ProxII RF	1	Orange	ANT 1
Module	2	Purple	ANT 2
	3	Black	DC 0V
	4	Red	DC 5V
	5	Blue	Wiegand DAT: 1 Input
	6	Green	Wiegand DAT: 0 Input
	7	White	





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Enable "Share Door Relay" to open the same electronic lock regardless of whether it is triggered by the main controller or the Wiegand reader. This is achieved by using the NO contact of the blue-white wire in CN4, suitable for systems where the controller and the reader control the same lock.

Disable "Share Door Relay" for card swiping on the main controller, triggering the NO contact of the blue-white wire in CN4. For card swiping on the Wiegand reader, triggering the NO contact of the blue-white wire Door Output in CN5 WG Port. This allows the main controller and the reader to independently control two electronic locks.

WG Mode / Controller Mode Setting Method



- AR-327-E and AR-727-E can be set up as WG26/WG34/WG64 while the Controller is in WG Mode. These Controller can also be paired with the Controller that has WG input function.
- 2. Networking Setting: Select E Series Controller Parameter Edit in 701Server,tick up the function "Ev5 WG out/Hv3 Lift out"
- 3. Please restart the controller after pressing "Write to Controller".

Please refer to the FAQ for software configuration instructions: How to set the E Series card reader to Wiegand

output mode?





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C. Initial setup

Language Setting

Access programming mode \rightarrow 5 Tools \rightarrow 1 Language \rightarrow 0 EN \rightarrow Succeeded \rightarrow Initial system...

Node ID of Reader Setting

Access programming mode \rightarrow 3 Parameters[1] \rightarrow 1 Node ID \rightarrow Input New Node ID : 1~254 (default value:001) \rightarrow Main Door Number : 0~255 \rightarrow WG1 Door Number : 0~255 \rightarrow Show WG Message (0=No,1=Enable) \rightarrow Network setting \rightarrow Succeeded

D. PIN & UID Length setting

Access programming mode \rightarrow 3 Parameters[1] \rightarrow 9 PIN & UID format \rightarrow User PIN Length Range:4~8(4 is default value); Card PIN Length Range:2~8(4 is default value)

E. Duress Code

Access programming mode \rightarrow 4 Parameters[2] \rightarrow 7 Duress Code \rightarrow 4 sets (select one) \rightarrow Input 4-digit PIN (0001~9999) \rightarrow Succeeded

Or via 701Server to set it on AR-829E-V5 screen

*Duress Code is only available in networking mode. It will substitute a personal pin code and send the message of Duress to computer as a warning signal.

%The Duress Code 0000 means that disable Duress Function and the default value is set as 0000 already.

F. PIN Code

Access programming mode → 2 User Setting → 1 Password → Input 5/6-digit user address → Input 4-digit PIN (0001~9999) → Succeeded
 Or via 701Client set it on Users screen

G. Setting up the alarm / arming

• Conditions: 1. Arming 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 before power off.

Enable/Disable the arming status:

Standby Mode			
Card only		Card or PIN	Card and PIN
Open the door	No open the door	Input user address → Input 4	Present the tag to reader \rightarrow Input
Present the tag to reader \rightarrow Input	$\star \rightarrow$ Input 4 digits arming PWD	digits individual PWD \rightarrow # \rightarrow	4 digits individual PWD \rightarrow # \rightarrow
4 digits arming PWD \rightarrow #	→ Present the tag to reader	Input 4 digits arming PWD \rightarrow #	Input 4 digits arming PWD \rightarrow #
Access Programming mode			
Enable: Access programming mode	\rightarrow 7 Quit & Arming	Disable: Access programming mode	e → 6 Quit

H. Enable Voice Module (supporting version : F/w Ver 3.02 or later)

 Hardware setting 	
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Access programming mode \rightarrow 5 Tools \rightarrow 5 Ext. Comm Port \rightarrow 2 Voice

- Software Setting 701 Server <a>[[
 a) or <a>[[
- Step 1. Click "Read from Controller"
- Step 2. Select "Card Reader / Voice Module" in RS485-2 section.
- Step 3. Click "Write to Controller" to finish the setting.

Farget Node	00:Area00	001 ~	Main WGA			Free Zone	Alarm Schedule
New Node ID	1	Enable Force Alarm		Duress Code	0	Duby Shift	716516/7215/2
Door Relay	7	Enable Antipassback		None Englis	h Menual	Ducy Shine	/10010//21042
Relay [WG]	7	Is Entry Door		Date Time F	ormat(DD/MM)	Lift Control Time	(Sec.) 15
Open too long	15	Enable Push to Exit		Enable Black	Tag	Body Temperatu	e Hi 36.5
too long[WG]	15	Egress Beep Sounds		Reset Antipa	ss(Time Zone 61)	Area Code (None	Polling) 0
Alarm Relay	15	Enable Auto Relock			Expiried Arress		
Armed Delay	1	Close Stop Alarm		EV5 WG out	HV3 Lift out	RS485 - 1	-
Arm Pulse	0 *10ms	Snare Door Relay		Free RE Che	ck at Finner Access	Lift Controller	Host Comm. Port
Alarm Dalay	1	Enable Free Zone		I ock/Disable	a Keyboard	O LED Panel	O Line Printer
Alarin Delay	-	Pree Zone Open Imm.		Enable AUT	O Duty Time Shift	CN11 (RS485-2)	
Edit Pwd	1224	Ena. Disarm Zone(62)		Show WG P	ort message on LCD	O AR331EF-3	00
Armed Pwd	1234	IS Duty Reader		Dupl. check	at enroll Finger	O AR837EA	
Door Nr.	1	Deer Open for Any Tag				O	
Door Nr[WG]	2	bool open for Any rag		Master	0 0	O AR837EF-9	00
				Max keypad er	ror times 5	O	
Card or PIN Acc	ess Mode		Fingerprint	Security Level		O Lift Control	er 🖉
O Address + I	PIN Code (M4)	Pin Code Only (M8)	O Level Lo	w 🖲 Level Mediur	n 🔿 Level High	Card Reade	r / Voice Module 2
E-Controller Fire	mware Ver:4.4					Ulne Printer	
			Target Cor	troller		CN9 (RS485 - 3	
Read from (Controller	Write to Controller	Selecte	d Only 💦 🔿 All Co	nnected Controller	(a) Lift Control	
			User Rang	e: 0	499	Chine Brinker	er
Read	File	Write File					
			Write F	inger/Hace	Delete Finger/Face	O LED Panel	
Empty	Log	Exit	Read F	inger/Face	Transfer (V9>V5)	Card Reade	r / Voice Module



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