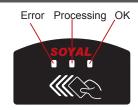


- Pull the cables from the square hole of the mounting plate.
- Use a screwdriver to screw the base onto the wall.
- Connect the terminal cables to the body and attach the body to the mounting plate.
- Assemble the covers with the Allen key and screws (accessories supplied).
- Turn on the power and LED will light and beep will sound.

Front Panel & Indicator



External WG keyboard

* If you want to program system on controller directly, please order WG keyboard then install it according to the following pattern.

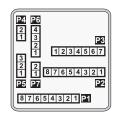






- Remove the Protection plug that in the bottom left.
 (* Do not lose protection plug or it will affect the protection level.)
- WG Keyboard cable will be connected to the pin board.
- WG Keyboard connected to the controller from the bottom left of the hole.
- When you finish programming system, please put protection plug back to the controller.

Connector Table



Cable: P1

Wire Application	Wire	Color	Description		
Look Dolov	1	Blue White	(N.O.)DC24V1Amp		
Lock Relay	2	Purple White	(N.C.)DC24V1Amp		
Common-COM-Point	3	White	(COM)DC24V1Amp		
Door Contact	4	Orange	Negative Trigger Input		
Exit Switch	5	Purple	Negative Trigger Input		
Alarm Relay	6	Grav	Transistor Output Max. 12V/100mA		
Alaim Relay	0	Glay	(Open Collector Active Low)		
Power	7	Thick Red	DC 12V		
8		Thick Black	DC 0V		

Cable: P2

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

Cable: P3

Wire Application	Wire	Color	Description
	1		
	2		
	3	Orange White	Net - TX+
TCD/ID Output	4	Orange	Net - TX-
TCP/IP Output	5	Green White	Net - RX+
	6	Germ	Net - RX-
	7		

Cable: P4

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

Cable: P5

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

Cable: P6

Wire Application	Wire	Color	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	

Cable: 27 (For the controller that doorbell function.)

Wire Application	Wire	Color	Description
	1	Plack M/hito	Transistor Output Max. 12V/100mA
Doorbell	'	DIACK VVIIILE	(Open Collector Active Low)
	2	Black	GND

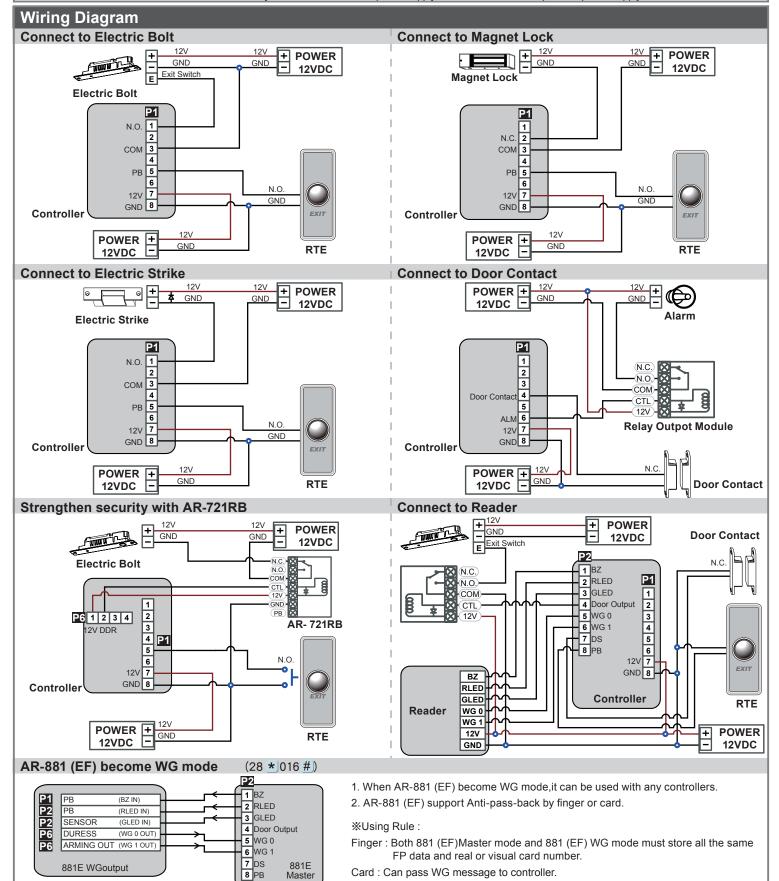
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Fingerprint

Notice

- 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.
- **3.Power supply:** Don't equip controller and lock with the same power supply. The power for controller may be unstable when the lock is activating, that may make the controller malfunction.

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





Adding and Deleting Tag

• Add Single Tag or Random tags

Input ★123456 # (or Master Code) → 19 ★ UUUUU ★ 00001 # → Present the tag(s) with Controller (single tag or random numbered cards one by one) → Done [e.g.] 2 readom cards with user addresses No. 100 and No. 101:

Access programming mode → 19 ★ 00100 ★ 00001 # Present the tags one by one → Done

Add the Sequential tags

Input \bigstar 123456 # (or Master Code) \to 19 \bigstar UUUUU \bigstar QQQQQ # \to Present the tags (Present the tag with the lowest number first.) \to OK [e.g.] User Address NO.101 to NO.120 have 20 pcs of sequential tags:(62312~62332):

Access programming mode → 19 * |00101 * |00120 # | → Close Tag into RF Area(only use the tag NO.62312) → OK

Delete a Single Tag

Input \star 123456 # (or Master Code) \rightarrow 10 \star SSSSS 9 EEEEE # [e.g.] Delete User Address: 00058

Access programming mode → 10 ★ 00058 9 00058 #

Delete a batch of Tags

Input \star 123456 # (or Master Code) \rightarrow 10 \star SSSSS 9 EEEEE # [e.g.] Delete User Address: 00101~00245

Access programming mode → 10 ★ 00101 9 00245 #

Delete All Tags

Input * 123456 # | (or Master Code) → 29 * 29 * # |



Programming

A. Entering and Exiting Programming Mode

Entering

Input * 123456 # or * PPPPPP #

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

Exiting

Input * #

Changing the Master Code

Access programming mode \rightarrow 09 * PPPPPRRRRR # [Input the 6-digit new master code twice.] [e.g.] If want to changing the Master Code= 876112, input * 123456 # \rightarrow 09 * 876112876112 #

B. Changing the Node ID of Reader

Access programming mode → 00 * NNN * MMM * AAA #

[NNN= Node ID: 000~254; MMM=AR-881 (EF) Door NO.:1~255; AAA=WG Reader Door NO.:1~255

C. Anti-pass-back

Usually, anti-pass-back is commonly applied to parking areas in order to prevent from multi-entry with one card at a time, or somewhere wants to monitor not only the access but also exit condition.

Enable device

Access programming mode → 20 ★ U ★ DDD # U= Enable target unit(0=AR-881 (EF),1=Reader) [Please refer to function default value for details.] [e.g.] If the AR-881 (EF) set to exit reader, WG Reader set to access reader.

Access programming mode → 20 ★ 0 ★ 128 # 1 → 20 ★ 1 ★ 192 # Please refer to function default value for details.]

Enable card user

Access programming mode \rightarrow 26 \star SSSSS \star EEEEE \star P # SSSSS= starting user address; EEEEE= ending user address [P=0 Enable/ P=1 Disable/ P=2 Reset] [e.g.] User address from 00152 to 00684 enable the anti-pass-back function: 26 \star 00152 \star 00684 \star 0 #

D. Auto Open Zone

Door will keep opening after first man flashing card. When the reader is stand-alone, supporting only 16 sets of auto-open zone by device setting. Auto-open zone can extend up to unlimited sets by Networking.

• Enable/Disable auto open zone

Access programming mode \rightarrow 20 *U *DDD # U= Enable target unit(0=AR-881 (EF),1=Reader) [Please refer to function default value for details.] [e.g.] If the **AR-AR-881 (EF)** set to **Enable aut open zone**.

Access programming mode → 20 ★ 0 ★ 004 # [Please refer to function default value for details.]

• Enable/Disable auto open door without presenting card

Access programming mode → 24 ★ U ★ DDD # U= Enable target unit(0=AR-881 (EF),1=Reader) [Please refer to function default value for details.] [e.g.] If the **WG Reader** set to **Enable aut open door without presenting card**.

Access programming mode → 24 * 1 * 128 # | [Please refer to function default value for details.]

Setting up access time

Access programming mode \rightarrow 08 * MW * NN * HHMMhhmm * 7123456H # [M=AR-881 (EF); W=Reader(0=disable,1=enable); NN: 16 sets of auto-open zone (NN=00~15); HHMMhhmm=Starting time to ending time; 7123456H= 7 days of week + Holiday (F= 0: disable; 1: enable)] [e.g.] AR-881 (EF) (without WG reader), to set second time zone which could be passed only at 9:30am to 4:20pm on Mon, Wed and Fri. Access programming mode \rightarrow 08 * 10 * 02 * 09301620 * 01010100 #] \rightarrow setting is completed

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L

17

33

57

П

10 9

18

34

Fingerprint V140422

Set Floor

8 7

24 | 23 | 22 | 21

32 | 31 | 30 | 29 | 28 | 27 | 26 | 25

40 | 39

48 | 47 | 46 | 45 | 44 | 43 | 42 | 41

(G) L

0

1

2

3

4

5

6 | 56 | 55 | 54 | 53 | 52 | 51 | 50 | 49

7

Please refer to below floor chart

ı

16 | 15 |

L

6

14 | 13 |

38 | 37 | 36 |

ı

5 | 4 | 3 | 2 | 1

64 | 63 | 62 | 61 | 60 | 59 | 58 |

 $L \mid L$

12 | 11

20 19

35

E. Lift control

Connect with AR-401RO16B to control floors which the user will be able to access. [BAUD9600]

Single floor

Access programming mode → 27 ★UUUUU ★LL #

UUUU=User Address LL=Floor number (01~64 floor)

[e.g.] User address NO. 45 only can reach the elevator to the 24th floor: 27 * 00045 * 24 #

Multi floors

Access programming mode \rightarrow 21 * UUUUU * G * LLLLLLL #

[UUUUU=User address G: 8 sets of lift control (Input: 0~7) LLLLLLL:

8 floors setting (L=0=Disable, L=1=Enable)

[e.g.] User address NO. 168 can reach only the 6th and 20th floor:

Access programming mode → 21 ★ 00168 ★ 0 ★ 00100000 #

 \rightarrow 21 * 00168 * 2 * 00001000 # \rightarrow OK (Please refer to floor chart as right.)

F. Setting Up the Arming

2.Alarm system connected

• Conditions:

Application:

1. Arming is enabled

Enable Arming status:

- 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**: Arming is enabled and the power is suddenly off then on.

Standby Mode			
Card only		Card or Passcode	Card and Passcode
Enable all devices	Enable particular device	Input 5 digit user address → Input 4	Induct valid card → Input 4 digit pass
Induct valid card → Input 4 digit	Induct valid card → Input 4 digit	digit pass code → # → Input 4 digits	code → # J → Input 4 digits arming
arming code → * * #	arming code → ★U# or #	arming code → * * # or * U #	code → * * # or * U #
Enter Program Mode			
Enable all devices: Access progra	mming mode → * * #	Enable particular device: Access	programming mode → ★ ★ U #

Disable Arming status:

Standby Mode			
Card only		Card or Passcode	Card and Passcode
Disable all devices	Disable particular device	Input 5 digit user address → Input 4	Induct valid card → Input 4 digit pass
Induct valid card → Input 4 digit	Induct valid card → Input 4 digit	digit pass code → # → Input 4 digits	code → #) → Input 4 digits arming
arming code → ★ 9 #	arming code → ★U# or #	arming code → ★ 9 # or ★U #	code → * 9 # or * U #

※ Factory default armingcode is: 1234. U=Reader unit (0=AR-881 (EF), 1=WG Reader).

G. Adding / Deleting Fingerprint

Adding

Access programming mode → 3 9 ★ F ★ UUUUU # Place your finger on the sensor [F=1= Adding 1 Finger data; F=2= Adding 2 Finger data; UUUUU= User address]

How to add a finger data:

Adding 1 Fingerprint (By DO)	Fi	nger 1				Bi	Di	E	Bi		ig Bi OK)
Adding 2 Fingerprint (By DO)	Finger 1	Bi	Di	Bi	Long Bi (OK)	Fin	ger 2	Bi	Di	Bi	Long Bi

* If you hear continuous "beep..." sounds when you place finger on the sensor, please release your finger from the sensor.

Deleting

Access programming mode → 3 9 * 0 * UUUUU # UUUUU = User address

• Deleting All
Access programming mode → 3 9 * 9 * 99999 #

H. Enable/Disable Skip Finger/Tag

Access programming mode → 4 0 ★ F ★ NNNNN ★ EEEEE #

(Please consult detail command on page 8.)

NNNN=starting user address EEEEE= ending user address F=1+3(Default Value)

Command Setting	Software Setting	Access Mode	Way
40 * 1 * NNNNN * EEEEE #	☐ Just fingerprint	FP first and then Tag	First / Then
40 * 3 * NNNNN * EEEEE #	☐ Just card control		
40 * 0 * NNNNN * EEEEE #		FP only or Tag only	A D
40 * 2 * NNNNN * EEEEE #	☑ Just card control		or

I. Adding / Deleting Fingerprint

- 1. For dual-fingerprint sensor module version, capactive sensor module is the only enabled way for enrolling FP.
- 2. For dual-fingerprint sensor module version, user just can select one of fingerprint sensor for identification and can't put two fingerprints to different sensor at the same time.
- 3. Extra WG keypad panel is needed for adding card or downloading data connected to PC.
- 4. Each finger need to be collected 1 times enrolling for AR-881 (EF).

J. The process of FP identification

- 1. While attached a finger on biometric sensor, there is a beep sound for starting the scanner. Then, please don't move your finger until the 881EF makes another beep sound.
- 2. If there is a 8-beep sound after user gets access by FP, the FP data shall be reset by command 39*9*99999# under the programming mode. Cautions: Before reset the FP, please backup the data from source FP first.



Restoring Factory Settings

Reset all device parameters and user card data

 Reset all device parameters and user card data: Use the command:

Access programming mode → 29 * 29 9 # Use the Button on the PCB:

· Reset all user card data:

Access programming mode → 29 * 29 * #

Press "IP Reset Button" of main board for few seconds, then IP and all device parameters will reset. (Reference to picture)

* After reset, you will hear the long reminder sound, and wait until the sound disappear. Resupply the power to device will restore factory setting. please refer to [38 * DDD #] command to reopen.

Deleting All Fingerprint:

Access programming mode → 39 * 9 99999 #



Firmware Upgrade

Get the upgrade software from SOYAL or our distributor and run "UdpUpdater" software

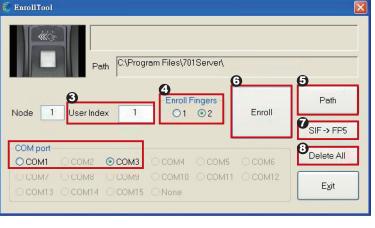
 Execute the software UDP Updater The software is within SOYAL CD or Login the SOYAL web to downloads

Update the firmware

[Please login the SOYAL web to download the new ISP Firmware.]

- 1. Input the Target Address and Port
- 2. [Load F/W] open the documents that have the new ISP Firmware
- 3. Click the new ISP Firmware and [Open] it
- 4. Click [Update Device] to start the firmware update
- 5. Till the screen shown [Firmware Update is Complete]

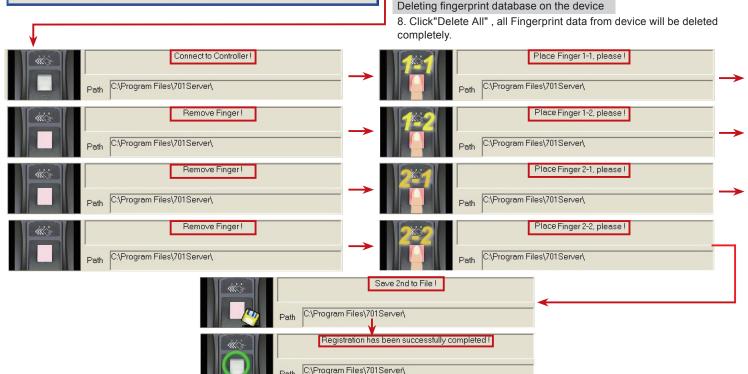




- 1. Select correct "COM Port".
- 2. Select "Node ID" of the device.
- 3. Input "User Address".
- 4. Select the number of enrolled fingers in assigned path (1FP or 2FP per User).
- 5. Select "Save Path" in which will save fingerprint data.
- 6. Click "Enroll", follow pop-up picture and Status bar to enroll FP as below: Connect to Controller—» Place 1st finger 1st time to Finger sensor—» remove finger—» Place 1st finger 2nd time—» remove finge—» Place 2nd finger 1st time—» remove finger—» Place 2nd finger 1st time—» Save FP data to File—» Registration Completed.

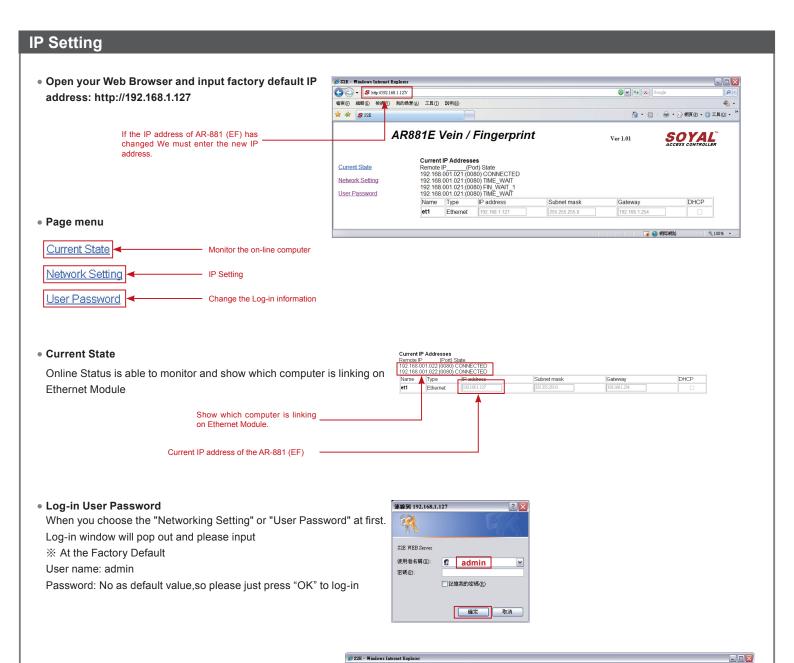
Transfer fingerprint format V9 -> V5

7. Click "SIF-FP5", select old AR-821EF V9 FP file format. SIF, the system will automatically generate new single FP file format. FP5 into 701Server folder. FP5 into 701Server folder.



Fingerprint

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★ http://192.168.1.
检案性 網報医 模模型 男

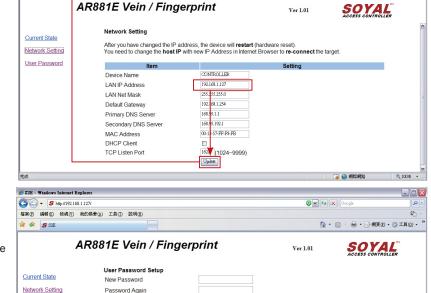
🚖 🍁 🎜 S2E

User Password

我的悬蒙(A) 工具(I) 説明(H)

Networking Setting

You will find initial IP Address 192.168.1.127 and check MAC Address is the same as sticker on Ethernet Module device. Please revise IP address you want, and then click "Update" button. After updating the IP, please re-connect the Web Browser by new IP address.



Update

@ 4 4 X

☆ · □ · □ · □ 初頁(P) · ○ I具(O) ·

User Password

Change the log-in password to lock the IP setting of Ethernet Module.

The password composes of 10 characters at most, it can be either $A\sim Z$ or $0\sim 9$.



Command List (By WG Keyboa	ard) <u></u>		
Function	Command	Exposition	
Entering programming mode	* PPPPPP #	PPPPP: Master Code, (Default value: 123456)	
Exiting programming mode	*#		
Exiting programming mode and enabling all device	* * #)	Including 881 (EF), WG Reader	
into arming status.			
Enabling each device into arming status.	* * U #	U=Enable target unit (0=881 (EF) , 1=WG Reader)	
		NNN=Node ID,(001~254)	
Node ID setting	00 * NNN * MMM * AAA #	MMM=881 (EF) Door Number,(001~255)	
		AAA=WG Reader Door Number,(001~255)	
		default value = 192.168.1.127	
	01 * 0 * CCCCCCCCC #	CCCCCCCCC = 192168001127	
IP Address assign (Must power reset)		If set to 000.000.000.000 will enable DHCP otherwise	
	01 * 1 * 255255255000 #	will disable DHCP Netmask	
	01 * 2 * 192168001254 #	Gateway assign	
	01 12 192 16800 1234 #	U=Enable target unit (0=881 (EF) , 1=WG Reader)	
		TTT=Door relay time	
Door relay time setting	02 * U * TTT #	000 (Output constantly)	
		001~600=1-600 Sec. ; 601~609=0.1~0.9Sec. TTT=Alarm relay time ; 000 (Output constantly)	
Alarm relay time setting	03 * TTT #	001~600=1~600 Sec.	
Arming delay time setting	05 *)TTT #)	Base on second, range: 001~255	
Alarm delay time setting	06 * TTT #	Base on second, range: 001~255	
Alaim delay time setting	00 111 #	SSSS-EEEE=00000~15999	
Master card setting	07 * SSSSS * EEEEE #	SSSS= starting user address; EEEEE= ending user address	
		M=881 (EF); W=WG Reader (0=disable; 1=enable)	
		NN=16 sets of auto-open zone (Range: 00~15)	
		HHMMhhmm=staring time to ending time	
Auto-open zone setting	08 * MW * NN * HHMMhhmm *	(e.g.: 08301200=08:30 to 12:00)	
Auto-open zone setting	7123456H #	7123456: 7 days of week -Sun/Mon/Tue/Wed/Thu/Fri/S	
		(Input value: 0=disable; 1=enable)	
		H: Holiday (Input value: 0=disable; 1=enable) PPPPPP= New master code	
Master code settings	09 * PPPPPPRRRRRR #		
	Suspend: 10 * SSSSS * EEEEE #	RRRRR= Repeat the new master code *:Suspend 9:Delete	
Suspend or delete tags	Delete: 10 * SSSSS 9 EEEEE #	SSSS= starting user address; EEEEE= ending user address	
Recover tag	11 * SSSSS * EEEEE #	SSSS= starting user address; EEEEE= ending user address	
- Trocover tag		UUUUU= user address; PPPP=4-digit individual PWD	
Setting up Card or PIN mode by user address	12 * UUUUU * PPPP#	(Access mode: Card or PIN)	
		Base on 1ms, range:1~255, default value=10,	
Arming output setting	14 * TTT #	Input 0= Timeless	
		PPP=4-digit PWD (0001-9999)	
Duress code setting	15 * PPPP #	Default value : 4321	
A 1 DIAID 111	4- Barra (f)	PPP=4-digit PWD (0001-9999)	
Arming PWD setting	17 * PPPP #	Default value: 1234	
Enabling or Disabling into arming status	Card+NNNN #	NNINN: Arming DWD	
Enabling or Disabling each device into arming status.	Card+NNNN * U #	NNNN: Arming PWD	
Enabling all device into arming status.	Card+NNNN * * #	U=Enable target unit (0=AR-881 (EF), 1=WG Reader)	
Disabling all device into arming status.	Card+NNNN * 9 #		
		U=Enable target unit (0=881 (EF) , 1=WG Reader)	
Door open waiting time	10 * II * TTT #	, ,	
Door open waiting time	18 *U *TTT #	TTT=Door open waiting time:001~600;default value:15 sec.	
Door open waiting time Set the card by induction	18 *U *TTT #	UUUUU=user address	
		UUUUU=user address QQQQQ=Card quantity(00001=Continuously inducting)	
		UUUUU=user address QQQQQ=Card quantity(00001=Continuously inducting) U=Enable target unit (0=AR-881 (EF), 1=WG Reader)	
Set the card by induction	19 * UUUUU * QQQQQ #	UUUUU=user address QQQQQ=Card quantity(00001=Continuously inducting) U=Enable target unit (0=AR-881 (EF), 1=WG Reader) DDD=Function default value	
Set the card by induction	19 * UUUUU * QQQQQ #	UUUUU=user address QQQQ=Card quantity(00001=Continuously inducting) U=Enable target unit (0=AR-881 (EF), 1=WG Reader) DDD=Function default value UUUUU=user address: G=4 sets of lift control(0~3)	
Set the card by induction Reader additional setting Lift control setting: multi-doors	19 * UUUUU * QQQQQ # 20 * U * DDD # 21 * UUUUU * G * LLLLLLL #	UUUUU=user address QQQQQ=Card quantity(00001=Continuously inducting) U=Enable target unit (0=AR-881 (EF), 1=WG Reader) DDD=Function default value	
Set the card by induction Reader additional setting	19 * UUUUU * QQQQQ # 20 * U * DDD #	UUUUU=user address QQQQ=Card quantity(00001=Continuously inducting) U=Enable target unit (0=AR-881 (EF), 1=WG Reader) DDD=Function default value UUUUU=user address; G=4 sets of lift control(0~3) LLLLLLLL=8 assigned floor (F=0: Disable, 1: Enable) MMM=Node ID of lift controller	
Set the card by induction Reader additional setting Lift control setting: multi-doors AR-401RO16/ AR-401RO16B relay time setting	19 * UUUUU * QQQQQ # 20 * U * DDD # 21 * UUUUU * G * LLLLLLL # 23 * MMM * TTT #	UUUUU=user address QQQQ=Card quantity(00001=Continuously inducting) U=Enable target unit (0=AR-881 (EF), 1=WG Reader) DDD=Function default value UUUUU=user address: G=4 sets of lift control(0~3) LLLLLLLL=8 assigned floor (F=0: Disable, 1: Enable)	
Set the card by induction Reader additional setting Lift control setting: multi-doors	19 * UUUUU * QQQQQ # 20 * U * DDD # 21 * UUUUU * G * LLLLLLL #	UUUUU=user address QQQQ=Card quantity(00001=Continuously inducting) U=Enable target unit (0=AR-881 (EF), 1=WG Reader) DDD=Function default value UUUUU=user address: G=4 sets of lift control(0~3) LLLLLLLL=8 assigned floor (F=0: Disable, 1: Enable) MMM=Node ID of lift controller TTT= relay time: 000~600=1~600 sec.	

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Fingerprint

Command List (By WG Keyb	oard)					
Function	Comman	d			Exposition	
1 unction			\$5555	= starting u	ser address; EEEEE= ending user addres	
Anti-pass-back (Enable user)	26 * SSSSS * EEEEE *	P #		ū	=Disable; P=2=Initial	
Lift control setting: single door	27 * UUUUU * LL #)			UUUUU=user address; LL: Floor number(01~64 floor)		
Duress Function and Arming output setting	28 * FFF #		Arming output and Duress function: FFF= 008 (default value			
Delete all tag	29 * 29 * #	79	7 mmig output and 2 aroso tanoani i i i oso (asiaan talas)			
Same tag reading interval time	31 * TTTT #	Base o	Base on 10ms, range from 10 to 6000			
Auto ring the clock alarm schedule	32 * SS * HHMMTT * 7	SS= 16 HHMM TT=Pe (Base 712345 (Input)	SS= 16 sets auto alarm schedule, range 0~15 HHMM= HH:MM (ex. 0830: Ring bell at 08:30) TT=Period of time to ring bell (Base on second, range 01~99 sec.) 7123456: 7 days of week -Sun/Mon/Tue/Wed/Thu/Fri/Sat (Input value: 0=disable; 1=enable) H: Holiday (Input value: 0=disable; 1=enable)			
Holiday Setting	35 * MMDD * F #	DD= D	MM= Month of year (01=Jan10=Oct.) DD= Date of month (01=1st day of month) F= 0:Delete; 1: Add			
Enabling or Disabling into Full Access status	36 * MW #)	M=881	M=881 (EF); W=WG Reader (0=disable; 1=enable)			
RS485 port function setting (Needs to be restarted after setting)	37 * AB #	1:H 2:L	A=0:AR401RO B=0: 9600(default value) 1:Host (default value) 2:LED Panel 3:Printer 2: 38400 3: 57600			
Biometric forms set (Needs to be restarted after setting)	38 * DDD #	003=9 004=2 008=2	002=2000 Finger-Vein recognition 003=9000 Optical / Capacitive fingerprint recognition 004=200 Optical fingerprint recognition 008=200 Capacitive fingerprint recognition 012=200 Optical & Capacitive fingerprint recognition			
Adding / Deleting Fingerprint	39 * F * UUUUU #			F= 1: Adding one finger data 2: Adding two finger data 0: Delete UUUUU=user address		
Deleting All Fingerprint	39 * 9 * 99999 #					
En/Disable Skip Finger/Tag	40 * F * NNNNN * EEE	40 * F * NNNNN * EEEEE #		First 40*1*NNNNN*EEEEE# Then 40*3*NNNNN*EEEEE# Access mode: FP first and then Tag (Default Value) First 40*0*NNNNN*EEEEE# Then 40*2*NNNNN*EEEEE# Then 40*2*NNNNN*EEEEE# Then 40*2*NNNNN*EEEEE# Then 40*2*NNNNN*EEEEE#		
				Access mode: FP only or Tag only		
			INNNN	NNNNN= starting user address;EEEEE= ending user address		
Function Default Value						
20 * U * DDD #					*Default Value	
Function Time Attendance		Opt		Value	Application	
Time Attendance		%0: Yes	1: No	001	Networking Networking/Stand-Alone	
Auto Open		%0: Disable %0: Disable		002	Networking/Stand-Alone Networking/Stand-Alone	
Auto Open When Access Mode is "Card and PIN", Readers can skip pressing PIN code.		%0: Disable		004		
Exit by Push Button			*1: Enable	016	Networking/Stand-Alone Networking/Stand-Alone	
Enable force Open		%0: Slave	1: Mater	032	Networking Networking	

Enable force Open 1: Mater 032 Networking 064 As Access/Exit Reader ₩0: Exit 1: Access Networking %0: Disable 1: Enable Anti-pass-back 128 Networking 24 * U * DDD# *Default Value Function Option Value Application Enable Egress Beep Sounds %0: Disable 1: Enable 001 Networking/Stand-Alone Skip Tag after FP Access %0: Disable 1: Enable 002 Networking/Stand-Alone Enable Arm/Disarm Zone(62) 1: Enable 008 Networking/Stand-Alone Reader and controller share the same door relay (only for reader) 0: Disable %1: Enable 016 Networking/Stand-Alone Free Access Mode %0: Disable 1: Enable 032 Networking/Stand-Alone 1: Push button/Door Closed Stop Alarm by ... ※0: None 064 Networking/Stand-Alone Open door immediately without 1st card presented at auto open zone | %0: Disable 1: Enable 128 Networking/Stand-Alone 28 * FFF # *Default Value Option **Function** Value **Application** Expiry User Access Trigger Alarm 001 Networking/Stand-Alone %0:Disable 1:Enable Auto Reset Anti-pass on TZ61 002 Networking/Stand-Alone %0:Disable 1:Enable Networking/Stand-Alone Duress Function and Arming output setting 0:Wiegand output ※1: Arming and Duress 800 RS-485 Networking/Stand-Alone 401RO16B:00 **%HOST: 01** 000 016 LED: 10 PRN: 11 032 048