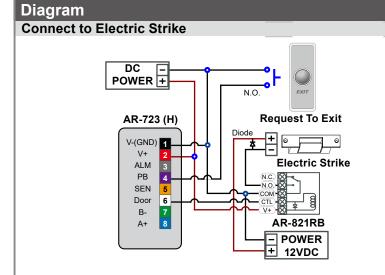


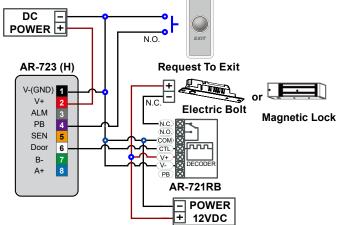
networking:	CNI	o PIN		(RS-485)
Application	Wire	Color	Description	
D	1	Black	DC 0V (GND)	
Power	2	Red	DC 9-24V	
Alarm Relay	3	Gray	Open collector output	
R.T.E	4	Purple	Negative Trigger Input	
Door Contact	5	Orange	Negative Trigger Input	
Lock Relay	6	White	Open collector output/ Security Trigger Signal	
DC 405	7	Green	RS-485 B-	
RS-485	8	Blue	RS-485 A+	

#### CN3 WG-READER or KEYBOARD Socket

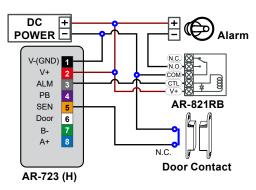
Application	Wire	Color	Description
	1		
	2		
	3		
MC	4	Blue	WG DATA 1
WG	5	Green	WG DATA 0
Dawar	6	Red	DC 9-24V
Power	7	Black	DC 0V (GND)



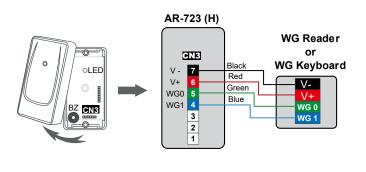
# Strengthen security with AR-721RB



## **Connect to Door Contact and Alarm**



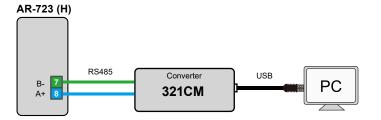
#### **Connect to Reader or Keyboard**



Please unload the cover before plug in AR-WGKEYBOARD.

# About Master Card

### **MASTER CARD Setting for Stand-Alone**



Use the MASTER CARD software



323DMaster

- Input the MASTER CARD number, and press [Write].
- Cut off and then transmit the power, the master card number will be activated.
- Present the card, and the reader will flash green light 3 times and sound 3 beeps. Then the card becomes MASTER CARD and accesses programming
  mode.lf MASTER CARD is presented again, it will exit programming mode.

## Adding Tag



- 1. Present Master Card
- After 3 short beeps [Access programming mode]
- 3. Present the new card or cards one by one till finished the adding.
- Present Master Card [Exit programming mode]

## Deleting All Tags



⊕ COM1

O COM2

- Present Master Card
- 2. After 3 short beeps [Access programming mode]
- 3. 1 long warning beep after 2sec.
- 4. 5 short beeps after 5sec: cards cleared
- S. Once MASTER CARD is presented after one warning beep, all card data will be cleared.

#### Operation process

#### A. Enter/ Exit Program Mode

• Enter the program mode

Input \* 123456 # or \* PPPPPP #

[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. Set up the password [Only for connect to external K-series reader]

• M4/M8: Individual pass code

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 #]

• M6: Public pass word

Card or PIN: Access programming mode → 15 \* PPPP # Input 4-digit pass code, default value: 4321]

Card and PIN: Access programming mode → 17 \* PPPP # [Input 4-digit pass code, default value: 1234; PPPP=0000: change into Card Only]

#### C. Lift control

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

Enable

Access programming mode → 24 \* 002 # [002= enable lift control]

Single floor

Access programming mode  $\rightarrow$  27  $\bigstar$  UUUUU  $\bigstar$  FF #

UUUU=User Address FF=Floor number (01~32 floor)

[e.g.] User address NO. 45, allow to access the 24th floor: 27 \* 00045 \* 24 #

Multi floors

Access programming mode → 21 \* UUUUU \* S \* FFFFFFF #

[UUUUU=User address S: 4 sets of lift control (Input: 0~3) FFFFFFFF: 8 floors setting (F=0=Disable, F=1=Enable)

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

Access programming mode  $\rightarrow$  21 \* |00168 \* |0 \* |00100000 # |  $\rightarrow$  21 \* |00168 \* |2 \* |00001000 # |

0.4	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		



## D. Setting Up the Arming [Only for connect to external K-series reader]

- 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: Arming is enabled and the power is suddenly off then on.
- Enable/Disable Arming status (for M4/M8; Factory default armingcode is: 1234) :

Standby Mode			
After door open	Do not open the door		
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 → ★ ★ #	<b>Disable:</b> Access programming mode → ★ #		

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

# **Function Default Value**

20 * DDD # ** Default Value								
Function	Sele	ction	Value	Application				
Attendance	%0: Yes	1: No	001	Networking				
Auto Re-lock	%0: Disable	1: Enable	002	Networking/Stand-Alone				
Auto Open	%0: Disable	1: Enable	004	Networking/Stand-Alone				
Door open button input	0: Disable		016	Networking/Stand-Alone				
Master Controller of Network	%0: Slave	1: Mater	032	Networking				

24 * DDD #   *Default Value							
Function	Selec	tion	Value	Application			
Auto-open door without cards at auto open zone		1: Enable	001	Networking/Stand-Alone			
Alarm Output/ Lift Control	%0: Alarm Output	1: Lift Control	002	Networking/Stand-Alone			
Stop Alarm by door close or by push button	0: None	※ 1: Yes	064	Networking/Stand-Alone			

28 * DDD #   *Default Value							
Function	Se	Selection		Application			
Dual Door Control		1: Enable	064	Networking/Stand-Alone			
Force Open Alarm Output		1: Enable	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"

=(0x1)+(0x2)+(1X4)+(1x16)+(0x32)+(0x64)+(1x128)=148; As a result of that, the command will be 20 \* 148 #

## Mode4 / Mode6 / Mode8

Mode	Networking/ Stand-Alone	User Capacity	Access Mode	Auto-show Duty time	Event log Capacity	120 Holidays	Anti force	Time Zone	Lift Control	Anti-pass- back
M4	Networking/ Stand-Alone	1,024	1.Card only 2.Card and PIN (4-digit PIN)+ # 3.Card or User address (5-digit) + Individual PIN (4-digit individual PIN) + #	Yes	1,200	Yes	Yes	No	32	Yes
M6	Stand-Alone	65,535	1.Card only 2.Card and PIN (4-digit public PIN= Arming PWD)+ # 3.Card or PIN (4-digit public PIN= Duress code)	No	No	No	No	No	No	No
M8	Networking/ Stand-Alone	1,024	1.Card only 2.Card and PIN (4-digit individual PIN)+ # 3.Card or PIN (4-digit individual PIN)	Yes	1,200	Yes	Yes	No	32	Yes

\* Mode 6, the number of users up to 65535, since it reads CARD CODE(5 digits) only, unlike that Mode4/Mode8 read SITE CODE and CARD CODE(10 digits). If Access Mode setting to use the PIN, it need to external the K-series Readers.

# Factory Reset by its commands

• When the device is stand-alone (not networking)

Access programming mode  $\rightarrow$  20 \* |016 #|  $\rightarrow$  24 \* |064 #|  $\rightarrow$  26 \* |00000 \* |01023 \* |1 #|  $\rightarrow$  28 \* |000 #|  $\rightarrow$  29 \* |29 \* | #|

\*Note: After the Master Code is changed, factory reset doesn't restore the Master Code back to 123456.

Function	and List					
		Command	Description	Mode		
Entering progra	amming mode	* PPPPPP #	PPPPP=Master Code, default value=123456	M4/M6/M8		
Exiting progran	mming mode	* #		M4/M6/M8		
Exiting programi	ming mode and enabling arming status	* (*) (#)		M4/M8		
	(Connecting to 716E	00 * NNN #	NNN=Node ID, range: 001~254	M4/M8		
	g (Connecting to PC directly without		NNN=Node ID of Access Controller, VVV=Virtual 716E Node ID,	IVI-1/IVIO		
via 716E)	g (Connecting to 1 C directly without	00 * NNN * VVV * nnn #		M4/M8		
via / ioc)			nnn=Door number; range:001~254			
			N: 0=ISO14443A; 1=ISO14443B; 2=ISO15693;			
			3=I Code1; 4=I Code2			
Mifare tag / car	d format (Optional)	01 *N #	PS.1. Please select the compliance, first.	M4/M8		
			Make sure reader and card using the same compliance.			
			2. Make sure reader and sure using the sume compliance.			
			TTT=Door relay time 000= Output constantly			
Door relay time	setting	02 * TTT #	001~600=1~600 sec.	M4/M6/M8		
•			601~609=0.1~0.9 sec.			
Alarm relay time setting		03 * TTT #	TTT=Alarm relay time 001~600=1~600 sec.	M4/M6/M8		
		04 * N #	·			
Control mode s			N=Mode 4=Mode4; 6=Mode6; 8=Mode8	M4/M6/M8		
Arming delay time setting		05 * TTT #	TTT=Alarm relay time 001~600=1~600 sec.	M4/M6/M8		
Alarm delay tim	ne setting	06 * TTT #	TTT=Alarm delay time 001~600=1~600 sec.	M4/M6/M8		
Master card setting		07 * SSSSS * EEEEE #	SSSSS-EEEEE=00000-01023 (00000-03000 for AR-725H);	M4/M8		
naster caru ser	tting	UT A 33333 A ELEELE #	SSSSS=Starting user address; EEEEE=Ending user address	IVI4/IVI8		
			N= 0(1st time zone) / 1(2nd time zone)			
			HHMM= Starting time; hhmm= ending time	M4/M6/M8		
Auto-open time	zone setting	08 * N * HHMMhhmm * 6543217H #	(i.e.: 08301200=08:30 to 12:00)			
auto opon time	2 20110 30ttillig	00 11 11 11 11 11 11 11 11 11 11 11 11 1				
			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 se	etting	09 * PPPPPPRRRRRR #	PPPPP=New master code	M4/M6/M8		
			RRRRR=Repeat the new master code			
Setting	Suspend tag(M6)	10 * SSSSS * EEEEE #	*=Suspend 9 =Delete;	M4/M6/M8		
Cotting	Delete tag(M4)	10 * SSSSS 9 EEEEE #	SSSSS=Starting user address, EEEEE=Ending user address	M6		
Set a sequence	of cards as "read and access"	11 * SSSSS * EEEEE #	SSSS=Starting card number; EEEEE=Ending card number	M4/M8		
Active the susp	pended cards	11 * SSSSS * EEEEE #	SSSS=Starting user address; EEEEE=Ending user address	M4/M8		
Set the cards a	s Card mode OR PIN mode by user		Access mode: Card or PIN; UUUUU=user address;			
address	•	12 * UUUUU * PPPP #	PPPP=4-digit pass code 0001~9999	M4/M8		
	as Card AND PIN mode by user		Access mode: Card and PIN; UUUUU=user address;			
address	as card AND FIN mode by user	13 * UUUUU * PPPP #		M4/M6/M8		
			PPPP=4-digit pass code 0001~9999			
M4: Duress cod	de setting	15 * PPPP #	PPPP=4-digit pass code (default value= <b>4321</b> )	M4/M8		
M6: Public PIN	setting (Card or PIN)	-5 -5	P.S. Duress code will be unavailable and become a public PIN at access mode "Card or PIN" of M6			
Card number m	addification	16 * UUUUU * SSSSSCCCCC #	UUUUU= User address; SSSSS=5-digit site code;	M4/M6/M8		
Caru number m	iodification	10 100000 1 33333500000 #	CCCCC=5-digit card code	IVI4/IVIO/IVIO		
M4: Arming pas	ss code setting	4= (3) 0.000	PPPP=4-digit pass code ( default value=1234; disable Arming PWD=0000)			
M6: Public PIN	setting (Card and PIN)	17 * PPPP #	P.S. Arming PWD code will be unavailable and become a public PIN at access mode "Card PIN" and of M6	M4/M6/M8		
M6: Public PIN setting (Card and PIN)						
Door open wait	ing time	18 * TTT #	TTT=Door open waiting time: 001~600=1~600 sec.; default value: 15 sec.	M4/M8		
Door open wait	ing time	18 * TTT #	TTT=Door open waiting time: 001~600=1~600 sec.; default value: 15 sec.	M4/M8		
	ing time induction (M4)	18 * TTT # 19 * UUUUU * QQQQQ #	UUUUU=User address;	M4/M8 M4/M6/M8		
	induction (M4)	19 * UUUUU * QQQQQ #	UUUUU=User address; QQQQQ=Card quantity(00001=Continuously inducting)	M4/M6/M8		
Set the card by	induction (M4)		UUUUU=User address; QQQQ=Card quantity(00001=Continuously inducting) Please refer to function default value for details.			
Set the card by	induction (M4)	19 * UUUUU * QQQQQ # 20 * DDD #	UUUUU=User address; QQQQQ=Card quantity(00001=Continuously inducting)	M4/M6/M8 M4/M6/M8		
Set the card by	induction (M4)	19 * UUUUU * QQQQQ #	UUUUU=User address; QQQQ=Card quantity(00001=Continuously inducting) Please refer to function default value for details.	M4/M6/M8		
Set the card by Reader addition	induction (M4)	19 * UUUUU * QQQQQ # 20 * DDD #	UUUUU=User address; QQQQQ=Card quantity(00001=Continuously inducting) Please refer to function default value for details. UUUUU=User address, S=4 sets of lift control(0~3); FFFFFFF=8 assigned floor	M4/M6/M8 M4/M6/M8		
Set the card by Reader addition Lift control sett Add/Delete tag	induction (M4) nal setting ting: multi-doors	19 * UUUUU * QQQQQ # 20 * DDD # 21 * UUUUU * S * FFFFFFF #	UUUUU=User address; QQQQQ=Card quantity(00001=Continuously inducting) Please refer to function default value for details. UUUUU=User address, S=4 sets of lift control(0~3); FFFFFFFF=8 assigned floor (F=0: Disable, 1: Enable)	M4/M6/M8 M4/M6/M8 M4/M8		
Set the card by Reader addition Lift control sett Add/Delete tag AR-401ROsite r	induction (M4)  nal setting  ting: multi-doors  by induction (M6 only)  number dip switch	19 * UUUUU * QQQQQ #  20 * DDD #  21 * UUUUU * S * FFFFFFF #  22 * N #	UUUUU=User address; QQQQQ=Card quantity(00001=Continuously inducting) Please refer to function default value for details. UUUUU=User address, S=4 sets of lift control(0~3); FFFFFFFF=8 assigned floor (F=0: Disable, 1: Enable) N=0(Delete tag); N=1(Add tag)	M4/M6/M8 M4/M6/M8 M4/M8 M6		
Set the card by Reader addition Lift control sett Add/Delete tag AR-401ROsite r Controller para	induction (M4)  nal setting  ting: multi-doors  by induction (M6 only)  number dip switch  meter setting	19 * UUUUU * QQQQQ # 20 * DDD # 21 * UUUUUU * S * FFFFFFFF # 22 * N # 23 * NNN * TTT # 24 * DDD #	UUUUU=User address; QQQQ=Card quantity(00001=Continuously inducting) Please refer to function default value for details. UUUUU=User address, S=4 sets of lift control(0~3); FFFFFFFF=8 assigned floor (F=0: Disable, 1: Enable) N=0(Delete tag); N=1(Add tag) NNN=site number, TTT= relay time: 000~600=1~600 sec. Please refer to function default value for details.	M4/M6/M8 M4/M6/M8 M4/M8 M6 M4/M8 M4/M6/M8		
Set the card by Reader addition Lift control sett Add/Delete tag AR-401ROsite r Controller para	induction (M4)  nal setting  ting: multi-doors  by induction (M6 only)  number dip switch  meter setting	19 * UUUUU * QQQQQ #  20 * DDD #  21 * UUUUU * S * FFFFFFFF #  22 * N #  23 * NNN * TTT #	UUUUU=User address; QQQQQ=Card quantity(00001=Continuously inducting) Please refer to function default value for details. UUUUU=User address, S=4 sets of lift control(0~3); FFFFFFFF=8 assigned floor (F=0: Disable, 1: Enable) N=0(Delete tag); N=1(Add tag) NNN=site number, TTT= relay time: 000~600=1~600 sec. Please refer to function default value for details.  YYMMDDHHmmss: Year/ Month/ Day/ Hour/ Min./ Sec.	M4/M6/M8 M4/M6/M8 M4/M8 M6 M4/M8		
Set the card by Reader addition Lift control sett Add/Delete tag AR-401ROsite r Controller para	induction (M4)  nal setting  ting: multi-doors  by induction (M6 only)  number dip switch  meter setting  clock setting	19 * UUUUU * QQQQQ # 20 * DDD # 21 * UUUUUU * S * FFFFFFFF # 22 * N # 23 * NNN * TTT # 24 * DDD #	UUUUU=User address; QQQQQ=Card quantity(00001=Continuously inducting) Please refer to function default value for details. UUUUU=User address, S=4 sets of lift control(0~3); FFFFFFFF=8 assigned floor (F=0: Disable, 1: Enable) N=0(Delete tag); N=1(Add tag) NNN=site number, TTT= relay time: 000~600=1~600 sec. Please refer to function default value for details.  YYMMDDHHmmss: Year/ Month/ Day/ Hour/ Min./ Sec. SSSSS=Starting user address; EEEEE=Ending user address;	M4/M6/M8 M4/M6/M8 M4/M8 M6 M4/M8 M4/M6/M8		
Set the card by Reader addition Lift control sett Add/Delete tag AR-401ROsite r Controller para Controller time Anti-pass-back	induction (M4)  nal setting  ting: multi-doors  by induction (M6 only)  number dip switch  meter setting  clock setting	19 * UUUUU * QQQQQ #  20 * DDD #  21 * UUUUU * S * FFFFFFFF #  22 * N #  23 * NNN * TTT #  24 * DDD #  25 * YYMMDDHHmmss #  26 * SSSSS * EEEEE * N #	UUUUU=User address; QQQQ=Card quantity(00001=Continuously inducting)  Please refer to function default value for details.  UUUUU=User address, S=4 sets of lift control(0~3); FFFFFFFF=8 assigned floor (F=0: Disable, 1: Enable)  N=0(Delete tag); N=1(Add tag)  NNN=site number, TTT= relay time: 000~600=1~600 sec.  Please refer to function default value for details.  YYMMDDHHmmss: Year/ Month/ Day/ Hour/ Min./ Sec.  SSSS=Starting user address; EEEEE=Ending user address; N=0/Enable; N=1/Disable; N=2/Initial	M4/M6/M8 M4/M8 M4/M8 M6 M4/M8 M4/M8 M4/M6/M8 M4/M6/M8		
Set the card by Reader addition Lift control sett Add/Delete tag AR-401ROsite r Controller para Controller time Anti-pass-back	induction (M4)  nal setting  ting: multi-doors  by induction (M6 only)  number dip switch  meter setting  clock setting	19 * UUUUU * QQQQQ #  20 * DDD #  21 * UUUUU * S * FFFFFFFF #  22 * N #  23 * NNN * TTT #  24 * DDD #  25 * YYMMDDHHmmss #  26 * SSSSS * EEEEE * N #  27 * UUUUU * FF #	UUUUU=User address; QQQQQ=Card quantity(00001=Continuously inducting) Please refer to function default value for details. UUUUU=User address, S=4 sets of lift control(0~3); FFFFFFFF=8 assigned floor (F=0: Disable, 1: Enable) N=0(Delete tag); N=1(Add tag) NNN=site number, TTT= relay time: 000~600=1~600 sec. Please refer to function default value for details.  YYMMDDHHmmss: Year/ Month/ Day/ Hour/ Min./ Sec. SSSSS=Starting user address; EEEEE=Ending user address;	M4/M6/M8 M4/M6/M8 M4/M8 M6 M4/M8 M4/M6/M8 M4/M6/M8 M4/M6/M8 M4/M8		
Set the card by Reader addition Lift control sett Add/Delete tag AR-401ROsite r Controller para Controller time Anti-pass-back	induction (M4)  nal setting  ting: multi-doors  by induction (M6 only)  number dip switch  meter setting  clock setting	19 * UUUUU * QQQQQ #  20 * DDD #  21 * UUUUU * S * FFFFFFFF #  22 * N #  23 * NNN * TTT #  24 * DDD #  25 * YYMMDDHHmmss #  26 * SSSSS * EEEEE * N #	UUUUU=User address; QQQQ=Card quantity(00001=Continuously inducting)  Please refer to function default value for details.  UUUUU=User address, S=4 sets of lift control(0~3); FFFFFFFF=8 assigned floor (F=0: Disable, 1: Enable)  N=0(Delete tag); N=1(Add tag)  NNN=site number, TTT= relay time: 000~600=1~600 sec.  Please refer to function default value for details.  YYMMDDHHmmss: Year/ Month/ Day/ Hour/ Min./ Sec.  SSSS=Starting user address; EEEEE=Ending user address; N=0/Enable; N=1/Disable; N=2/Initial	M4/M6/M8 M4/M8 M4/M8 M6 M4/M8 M4/M8 M4/M6/M8 M4/M6/M8		
Set the card by Reader addition Lift control sett Add/Delete tag AR-401ROsite r Controller para Controller time Anti-pass-back	induction (M4)  nal setting  ting: multi-doors  by induction (M6 only)  number dip switch  meter setting  clock setting  x (Enable user)	19 * UUUUU * QQQQQ #  20 * DDD #  21 * UUUUU * S * FFFFFFFF #  22 * N #  23 * NNN * TTT #  24 * DDD #  25 * YYMMDDHHmmss #  26 * SSSSS * EEEEE * N #  27 * UUUUU * FF #	UUUUU=User address; QQQQ=Card quantity(00001=Continuously inducting)  Please refer to function default value for details.  UUUUU=User address, S=4 sets of lift control(0~3); FFFFFFFF=8 assigned floor (F=0: Disable, 1: Enable)  N=0(Delete tag); N=1(Add tag)  NNN=site number, TTT= relay time: 000~600=1~600 sec.  Please refer to function default value for details.  YYMMDDHHmmss: Year/ Month/ Day/ Hour/ Min./ Sec.  SSSSS=Starting user address; EEEEE=Ending user address; N=0/Enable; N=1/Disable; N=2/Initial  UUUUU=User Address; FF=Floor (01~32 floor)	M4/M6/M8 M4/M8 M4/M8 M6 M4/M8 M4/M8 M4/M6/M8 M4/M6/M8 M4/M8		
Set the card by Reader addition Lift control sett Add/Delete tag AR-401ROsite r Controller para Controller time Anti-pass-back Single floor set Dual door control Delete all tags	induction (M4)  nal setting  ting: multi-doors  by induction (M6 only)  number dip switch  meter setting  clock setting  x (Enable user)	19 * UUUUU * QQQQQ #  20 * DDD #  21 * UUUUUU * S * FFFFFFFF #  22 * N #  23 * NNN * TTT #  24 * DDD #  25 * YYMMDDHHmmss #  26 * SSSSS * EEEEE * N #  27 * UUUUU * FF #  28 * DDD #	UUUUU=User address; QQQQ=Card quantity(00001=Continuously inducting)  Please refer to function default value for details.  UUUUU=User address, S=4 sets of lift control(0~3); FFFFFFFF=8 assigned floor (F=0: Disable, 1: Enable)  N=0(Delete tag); N=1(Add tag)  NNN=site number, TTT= relay time: 000~600=1~600 sec.  Please refer to function default value for details.  YYMMDDHHmmss: Year/ Month/ Day/ Hour/ Min./ Sec.  SSSSS=Starting user address; EEEEE=Ending user address; N=0/Enable; N=1/Disable; N=2/Initial  UUUUU=User Address; FF=Floor (01~32 floor)	M4/M6/M8 M4/M8 M4/M8 M6 M4/M8 M4/M6/M8 M4/M6/M8 M4/M6/M8 M4/M8 M4/M8		