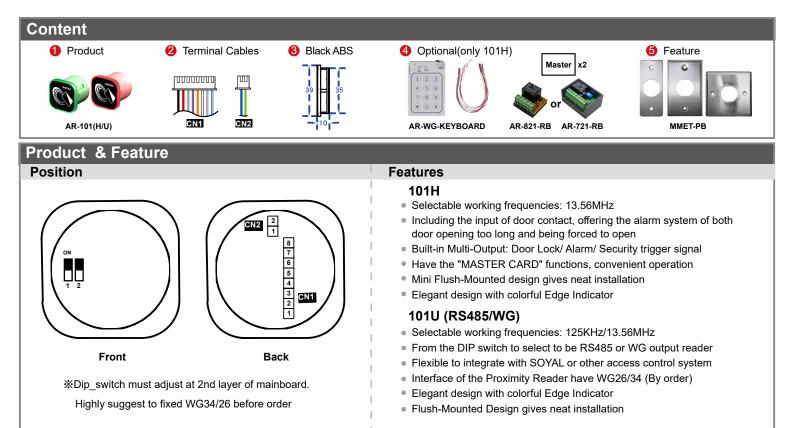


AR-101 (H/U)



Connector Table

AR-101H CN1 8PIN Cable

Function	Wire	Color	Description
WC Input	1	Blue White	WG DATA 1 Input
WG Input	2	Green White	WG DATA 0 Input
Lock	3	White	Transistor Output Max. 24V/1.5A (Open Collector Active Low)
Door Contact	4	Orange	Negative Trigger Input
Exit Switch	5	Purple	Negative Trigger Input
Alarm	6	Gray	Transistor Output Max. 12V/100mA (Open Collector Active Low)
Power	7	Thick Red	DC 12V
	8	Thick Black	DC 0V

AR-101H/U CN2 2PIN Cable

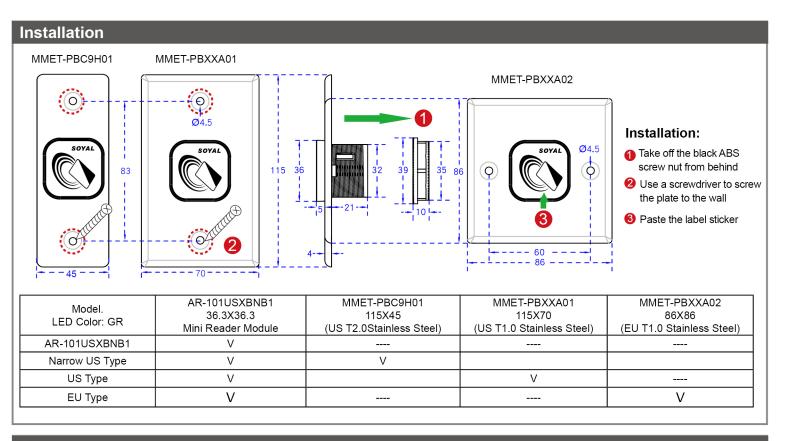
Function	Wire	Color	Description
RS-485 for Lift	1	Thick Green	RS-485(B-)
Controller	2	Thick Blue	RS-485(A+)

AR-101U CN1 8PIN Cable

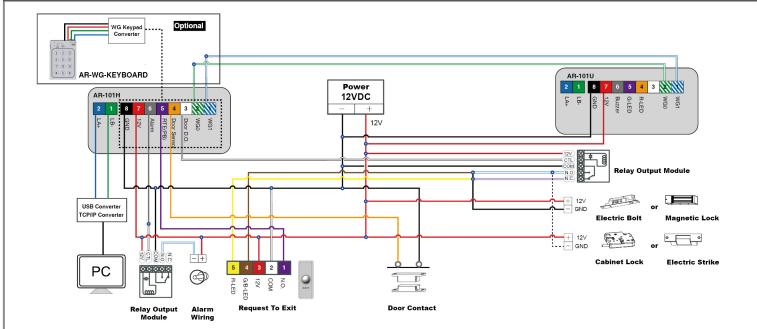
ON	Function									
Dip-switch	RS-485	RS-485 Mode		WG Mode						
SW1	ON	OFF	ON	OFF	Wire	Color	Description			
SW2	ON	ON	OFF	OFF						
Description	ption Enable auto open Enable au zone after flashed zone w/o 1st Tag 1st Tag			WG26						
CN1 Main				WG Output		Blue White	WG DATA 1 Output			
					2	Green White	WG DATA 0 Output			
	Door Lock Output	Door Lock Output			3	White	Transistor Output Max. 24V/1.5A (Open Collector Active Low)			
	Door Sensor	Door Sensor			4	Orange	Negative Trigger Input			
	Exit Button	Exit Button			5	Purple	Negative Trigger Input			
	Buzzer	Buzzer			6	Gray	Transistor Output Max. 12V/100mA (Open Collector Active Low)			
	Power	Power			7	Thick Red	DC 12V			
					8	Thick Black	DC 0V			

Access Controller

V180426



Diagram

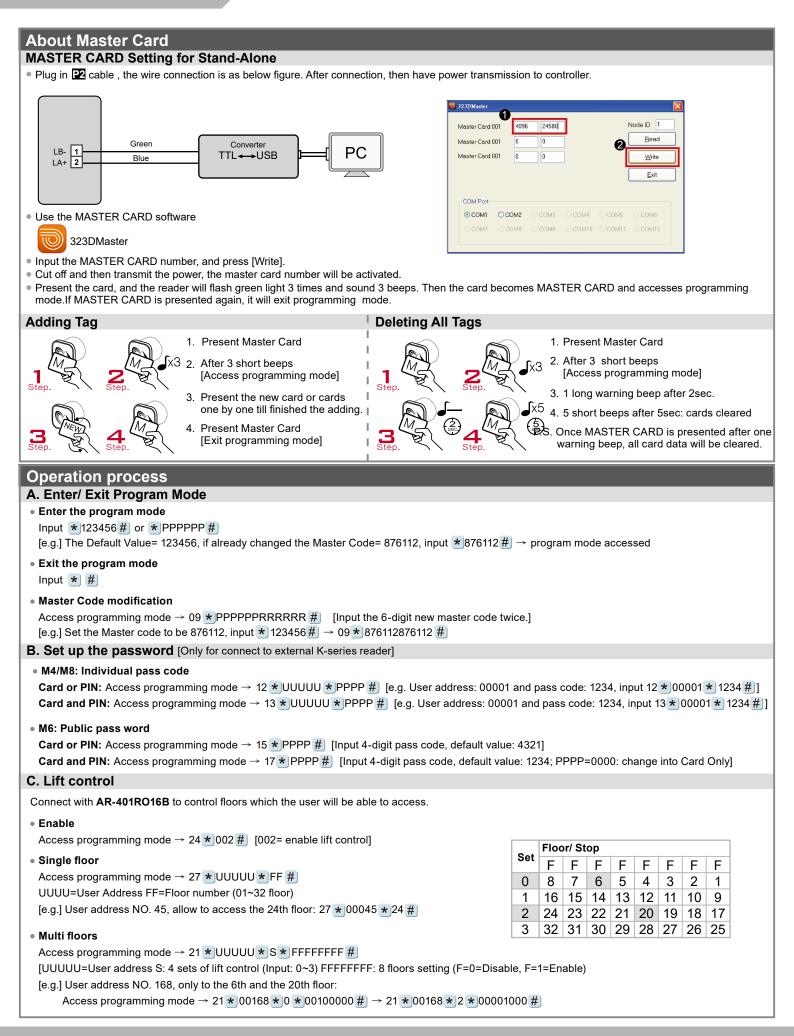


Application

Cabinet / Locker Door
Inside of cabinet Locker
10101010
Lock
101H/U Lock holder



AR-101 (H/U)



Access Controller

V180426

	tting Up t	the Armi	1g [Only for connect t	o external K-series re	eader]							
Alar	m conditio	ns:		Application:								
1. Arming is enabled				1. Door open too	long : Door is ope	en longer than	door relay ti	me plus	door clo	se time.		
2.Al	arm system	connected		 Force open (Op Door position a 			-					
Ena	ble/Disable	Arming st	atus (for M4/M8; Fact	tory default armingo	code is: 1234) :							
Sta	ndby Mode											
Afte	r door open				Do not open	the door						
The normal procedure to open door \rightarrow Input 4 digit arming code \rightarrow #				# ★ → Input	★ → Input 4 digit arming code → Present valid card							
<u> </u>	er Program		•				-					
Enable: Access programming mode $\rightarrow (*) (*) (#)$				Disable: Ac	cess program	mina mode ·	→ * #					
			to open door] can re	efer to [Access Mod			ge.e					
_	ction De			•								
											-	
20	* DDD #								%De	fault Value	9	
	ction				ction		Applicatio				-	
	ndance Rollook			i ≫0: Yes i ≫0: Disable	1: No 1: Enable	001	Networking		lono		-	
	Auto Re-lock			×0: Disable	1: Enable	002		Networking/Stand-Alone Networking/Stand-Alone			-	
	Door open button input			0: Disable	×1: Enable	016	Networking/Stand-Alone			-		
	ter Controlle		к	i Slave ∞0: Slave	1: Mater	032	Networking				-	
24	* DDD #								*Do	foult \/oluc		
	ction			Sele	Selection			*Default Value				
Auto-open door without cards at auto open zone			ls at auto open zone	%0: Disable	1: Enable	001	Networking		Alone		-	
Alarm Output/ Lift Control			<u> </u>	%0: Alarm Output	1: Lift Contro		Networking/Stand-Alone			-		
Stop Alarm by door close or by push button			by push button	0: None	※ 1: Yes	064	Networking/Stand-Alone					
28	* DDD #								ЖDе	fault Value	е	
Fun	ction			Sele	ction	Value	Applicatio	n			1	
Dua	l Door Contr	ol		※0: Disable	064	Networking	/Stand-/	Alone				
Forc	e Open Ala	rm Output		※0: Disable	1: Enable	128	Networking	/Stand-/	Alone			
e.g.]	DDD value	of Enable "A 2)+(1X4)+(1	I x each value) Auto Open" + "Exit by F x16)+(0x32)+(0x64)+(1 ode8			mmand will be	20 * 148 #		_		_	
ode	Networking/	User	Acc	ess Mode	Auto-sho		120	Anti	Time	Lift	Anti-pa	
	Stand-Alone	Capacity	1.Card only		Duty time	e Capacity	Holidays	force	Zone	Control	back	
	Networking/ Stand-Alone	1,024	2.Card only 2.Card and PIN (4-digit PIN)+ # 3.Card or User address (5-digit) + Individual PIN (4-digit individual PIN) + #		I-digit Yes	1,200	Yes	Yes	No	32	Yes	
14		65,535	1.Card only 2.Card and PIN (4-digit pub 3.Card or PIN (4-digit public	No	No	No	No	No	No	No		
14 16	Stand-Alone		3.Caru or FIN (4-uigit public		1					Yes		
	Stand-Alone Networking/ Stand-Alone	1,024	1.Card only 2.Card and PIN (4-digit indiv 3.Card or PIN (4-digit indiv		Yes	1,200	Yes	Yes	No	32	163	
6 8 Mod	Networking/ Stand-Alone	1,024 ber of users	1.Card only 2.Card and PIN (4-digit indiv	_{idual PIN)} ads CARD CODE (5 di	gits) only, unlike th							

Access programming mode $\rightarrow 20 \times 016 \# \rightarrow 24 \times 064 \# \rightarrow 26 \times 00000 \times 01023 \times 1 \# \rightarrow 28 \times 000 \# \rightarrow 29 \times 29 \times \#$ %Note: After the Master Code is changed, factory reset doesn't restore the Master Code back to 123456.



AR-101 (H/U)

Command List							
Function	Command	Description	Mode				
Entering programming mode	* PPPPP #	PPPPP=Master Code, default value=123456	M4/M6/M8				
Exiting programming mode	* #		M4/M6/M8				
Exiting programming mode and enabling arming status	* * #		M4/M8				
Node ID setting (Connecting to 716E	00 * NNN #	NNN=Node ID, range: 001~254	M4/M8				
Node ID setting (Connecting to PC directly without		NNN=Node ID of Access Controller, VVV=Virtual 716E Node ID,					
via 716E)	00 * NNN * VVV * nnn #	nnn=Door number; range:001~254	M4/M8				
		N: 0=ISO14443A; 1=ISO14443B; 2=ISO15693;					
Mifare tag / card format (Optional)	01 * N #	3=I Code1; 4=I Code2	M4/M8				
		PS.1. Please select the compliance,first.					
		2. Make sure reader and card using the same 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				
Control mode setting	04 * N #	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 time setting	06 * TTT #	TTT=Alarm delay time 001~600=1~600 sec.	M4/M6/M8				
		SSSSS-EEEE=00000-01023 (00000-03000 for AR-725H);					
laster card setting	07 *SSSSS *EEEEE #		M4/M8				
		SSSSS=Starting user address; EEEEE=Ending user address					
		N= 0(1st time zone) / 1(2nd time zone)					
		HHMM= Starting time; hhmm= ending time					
Auto-open time zone setting	08 * N * HHMMhhmm * 6543217H #	(i.e.: 08301200=08:30 to 12:00)	M4/M6/M8				
		6543217H= 7 days of week (Sat/Fri/Thu/Wed/Tue/Mon/Sun)+ Holiday					
		(F= 0: disable; 1: enable); Holidays establish by the software.					
• • • •		PPPPP=New master code					
Master code setting	09 * PPPPPPRRRRRR #	RRRRR=Repeat the new master code	M4/M6/M8				
Suspend tag(M6)	10 * SSSSS * EEEEE #	*=Suspend 9=Delete;	M4/M6/M8				
Setting 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 #	SSSSS=Starting card number; EEEEE=Ending card number	M4/M8				
Active the suspended cards	11 * SSSSS * EEEEE #	SSSSS=Starting user address; EEEEE=Ending user address	M4/M8				
Set the cards as Card mode OR PIN mode by user		Access mode: Card or PIN; UUUUU=user address;	1014/1010				
address	12 * UUUUU * PPPP #	PPP=4-digit pass code 0001~9999	M4/M8				
Set the cards as Card AND PIN mode by user	13 * UUUUU * PPPP #	Access mode: Card and PIN; UUUUU=user address;	M4/M6/M8				
address	13 × 00000 × PPPP #	PPPP=4-digit pass code 0001~9999	1014/1010/1010				
M4: Duress code setting		PPPP=4-digit pass code (default value= 4321)					
M6: Public PIN setting (Card or PIN)	15 * PPPP #	P.S. Duress code will be unavailable and become a public PIN at access mode "Card or PIN" of M6	M4/M8				
Card number modification	16 * UUUUU * SSSSSCCCCC #	UUUUU= User address; SSSSS=5-digit site code;	M4/M6/M8				
Card number modification		CCCCC=5-digit card code	1014/1010/1010				
M4: Arming pass code setting		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				
Door open waiting time	18 * TTT #	TTT=Door open waiting time: 001~600=1~600 sec.; default value: 15 sec.	M4/M8				
Add card by presenting (M4)	19 * UUUUU * QQQQQ #	UUUUU=User address; QQQQQ=Card quantity(00001=Continuously inducting)	M4/M6/M8				
Reader additional setting	20 * DDD #	Please refer to function default value for details.	M4/M6/M8				
lift control optimg: multi door		UUUUU=User address, S=4 sets of lift control(0~3); FFFFFFF=8 assigned floor	M4/M8				
Lift control setting: multi-doors	21 *UUUUU *S *FFFFFFF #	(F=0: Disable, 1: Enable)	1014/1010				
Add/Delete tag by induction (M6 only)	22 * N #	N=0(Delete tag); N=1(Add tag)	M6				
AR-401ROsite number dip switch	23 * NNN * TTT #	NNN=site number, TTT= relay time: 000~600=1~600 sec.	M4/M8				
Controller parameter setting	24 * DDD #	Please refer to function default value for details.	M4/M6/M8				
Controller time clock setting	25 * YYMMDDHHmmss #	YYMMDDHHmmss: Year/ Month/ Day/ Hour/ Min./ Sec.	M4/M6/M8				
Anti-pass-back (Enable user)	26 * SSSSS * EEEEE * N #	SSSSS=Starting user address; EEEEE=Ending user address;	M4/M8				
Single floor setting	27 * UUUUU * FF #	N=0/Enable; N=1/Disable; N=2/Initial UUUUU=User Address; FF=Floor (01~32 floor)	M4/M8				
			1				
Dual door control/ Active or inactive arming for force open	28 * DDD #	Please refer to function default value for details.	M4/M6/M8				
Delete all tags	29 * 29 * #		M4/M6/M8				
Enable the security trigger signal (with AR-721RB)	34 * 064 # (Enable)	To Change the "Door Lock" become the security trigger signal, when	M4/M6/M8				
	34 * 000 # (Disable)	controller is connected with AR-721RB.					