SYRIS SY110SA

Operating Manual

Ver:1.60

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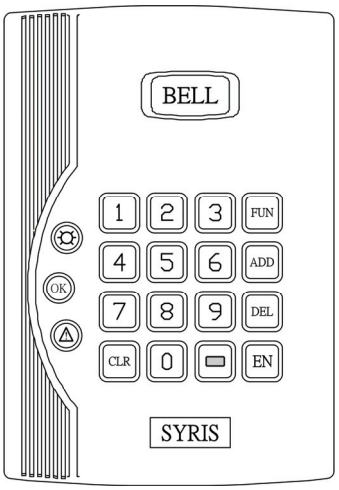
Introduction

This document including the sequence of setup SY110SA functions. The input sequence is from left to right, please select the function and enter by the listed input order.



Ⅰ. DO Default Contrast Table

DO	Notation
DO #1	Controller inner output point

Ⅱ. DI Default Contrast Table

DI	Function	Notation
DI #1	Open door button	Controller inner contact
DI #2	Door detect	Controller inner contact
DI #3 (Bell key) or (Call Key)	Door bell input	Controller inner contact

※All the DI function can not be change. Standard construction, no need to setup any parameter.

Ⅲ. Operation

0) LOGIN THE CONTROLLER

Insert the "▭" + main password + "**EN**" (The lenght of the main password is 1~10 digits)
Please press "▭" and enter 1~10 digits main passwords then press "**EN**" to login the system (the default main password "1234")

1) ADD CARD (This function requires to login the controller first)

Choose add card function (four kinds of add card method)

1-1 Add one card: please enter the new user ID then present card
"**ADD**" + user ID[1] + **EN**

1-2 Add one card: please enter new user ID and card ID, without swap the card
"**ADD**" + user ID + "▭" + card ID[2] + **"EN"**

1-3 Add multi-cards: please enter the first and last user ID then present cards
"**ADD**" + first user ID + "**ADD**" + last user ID + "**EN"**

1-4 Auto add card: the system will automatically search the available user ID to add card
"**ADD**" + "**EN"** + swap the card

[1] User ID available range: 1 to 2000
[2] Card ID maximum 10 digits

2) DELETE CARD (This function requires to login the controller first)

2-1 Delete one card: please enter the new user ID (no need to present card)
"**DEL**" + user ID[3] + "**EN**"

2-2 Delete one card: enter the card serial number which wants to delete and no need to present card
"**DEL**" + "▭" + Card ID[4] + "**EN**" (the card ID is decimal)

2-3 Delete multi-cards: delete multi-cards needs to enter the first and last user ID then present cards
"**DEL**" + the first user ID + "**DEL**" + the last user ID + "**EN**"

2-4 Delete one card: enter the delete card order then present card.
"**DEL**" + "**EN**" + swap the card

2-5 Delete all cards, no need to present cards
"**DEL**" + "▭" + "**DEL**" + "▭" + "**DEL**" + "▭" + "**DEL**" + "▭" + "**EN**"

3) CHANGE PASSWORD

To change user password, you will need to enter the old password then press "▭" key and enter the new password, click "▭" again then enter the new password and press "**EN**" to complete the process.

To change main password: (the main password which you use to login)
Please press "▭" key then enter main password after login and repeat the action again.
"▭" + old main password + "▭" + new main password + "▭" + again new main password + "**EN**"

Apply the master card to main password: (the main password which you use to login)
"▭" + main password + "▭" + N + "**EN**"
When N = 0 or 1, N = 0 means disable the use of master card, N = 1 means enable the use of master card. If you enable the use of master card, the user needs to present the master card within 10 sec. after insert the main password.

Notice: The main password only can be changed when the original password[5](Initial Password) is equal to "000000000".

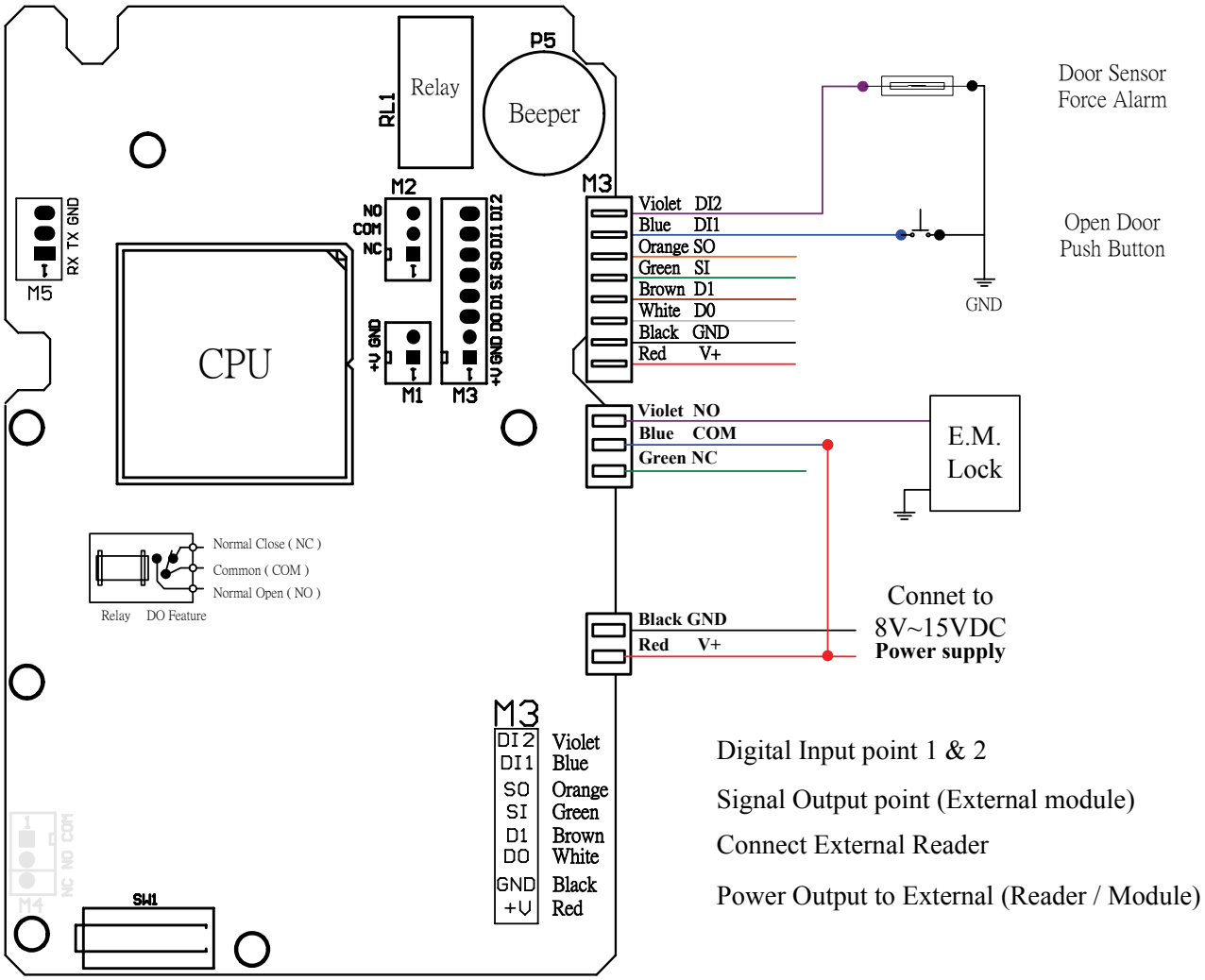
4) FUNCTION KEY Basic Parameter Setting

Function name	Enter steps	Remarks
Logout	"**FUN**" + 0 + "**EN**"	Logout controller
Access Mode	"**FUN**" + 1 + "▭" + N+ "**EN**"	N=1~4, when N=1 means card only access mode N=2 means card or password only access mode N=3 means card plus card access mode N=4 means password only access mode
Setup Personal PIN	"FUN" + 2 + "▭" + User ID + "▭" +**PIN** + "**EN**"	Setup personal PIN Cover the old PIN when user ID repeat ＊ PIN range: 1~10 digits. Ex: 1234 or 335566 or 1234567890

＊ This mark means the setting is the factory defualt.

[3] User ID available range: 1~2000
[4] Card ID maximum 10 digits
[5] The system original PIN default ="0000000000". The user cannot change other main password once the main password set has been changed. To change the main password, please refer section IX

Ⅳ. Simple Wiring Diagram



Digital Input point 1 & 2

Signal Output point (External module)

Connect External Reader

Power Output to External (Reader / Module)

Ⅴ Advanced Function Setup Table

Function Name	Enter Steps	Remark:
The use of Door Output	"**FUN**" + 3 + "[ ]" + N + "[ ]" + TTT + "**EN**"	TTT is the setup time, range: 0[6]~255 (5∗) sec. N= 0~2, N = 0 means disable relay action N = 1 means action by controller inner relay∗ N = 2 means action by external module relay
Door Bell	"**FUN**" + 4 + "[ ]" + N + "[ ]" + TTT + "**EN**"	TTT is the setup time, range: 0~255 (3∗) sec. N= 0~2, N = 0 means disable door bell function N = 1 means enable the inner relay as door bell function N = 2 means enable external relay as door bell function∗
Alarm Output Point Setup	"**FUN**" + 5 + "[ ]" + N + "[ ]" + TTT + "**EN**"	TTT is the setup time, range: 0~255 (30∗) sec. N= 0~2, N = 0 means stop the alarm signal output∗ N = 1 means take inner relay for alarm function N = 2 means take external relay for alarm function
Push Button Input Point Setup	"**FUN**" + 6 + "[ ]" + N + "**EN**"	N[7] is the DI ID, N= 0~6 (1∗) N = 0 means the use of open door push button N = 1~6 means enable the DI as door open push button function
Door Sensor Input Point Setup	"**FUN**" + 7 + "[ ]" + N + "**EN**"	N is the DI ID, N= 0~6 (2∗) N = 0 means to stop the use of door sensor∗ N = 1~6 means enable the DI as door sensor function
Door Bell Input Point Setup	"FUN" + 8 + "[ ]" + N + "**EN**"	N us the DI ID, N= 0~6 (3∗) N = 0 means to stop the use of door sensor N = 1~6 means enable the DI as open door push button function
Push Button #2 Input Point Setup	"**FUN**" + 9 + "[ ]" + N + "**EN**"	N is the DI ID, N= 0~6 (4∗) N = 0 means the use of open door push button N = 1~6 means enable the DI as door open push button function
Door Bell #2 Input Point Setup	"FUN" + 10 + "[ ]" + N + "**EN**"	N us the DI ID, N= 0~6 (6*) N = 0 means to stop the use of door sensor N = 1~6 means enable the DI as open door push button function
Setup Date	"**FUN**" + 20 + "[ ]" +yy +mm+dd + hh+mm+ss+ "**EN**"	Setup Time/Date yy=year, mn = month, dd=day, ; hh =hour, mm=minute, ss= second,
Door alway open	"**FUN**" + 21 + "[ ]" + N + "**EN**"	N=1or 0, N = 0 means disable door always open function∗ N = 1 means enable door always open function
Door forced open	"**FUN**" + 30 + "[ ]" + N + "**EN**"	N= 1or 0, N = 0 means disable door forced open function∗ N = 1 means enable door forced open, alarm output function
Door Open Timeout	"**FUN**" + 31 + "[ ]" + N + "[ ]" + TTT + "**EN**"	N= 1or 0, N = 1means enable door open timeout function N = 0 means disable door open timeout function∗ (Door open time + TTT = timeout time) TTT is the time allow you to close the door, range: 0~ 255 sec. (10∗)
Tamper Switch	"**FUN**" + 32 + "[ ]" + N + "**EN**" ∗Controller inner contact point	N= 1or 0, N = 0 means disable tamper switch function∗ N = 1 means disable tamper switch function
Card Type	"**FUN**" + 40 + "[ ]" + N +"**EN**"	N = 1~3, N = 1 means regular EM Card∗, when N = 2 means using SYRIS card, N = 3 means using Two Page Card.
Card Data Bytes format	"**FUN**" + 41 + "[ ]" + N +"**EN**"	N = 1~3, N = 1 means using 2 Bytes, when N = 2 means using 3 Bytes∗, when N = 3 means using 4 Bytes format.
Setup Main Password	"**FUN**" + 50 + "[ ]" + N + "[ ]"+ main password + "**EN**"	Only if the initial password havn't been changed, you can modify the main password. There are three sets of the main password you can use. Use N to select which main password you want to use (N=1~3). The default main password is "1234"∗. Also, if other set of the main password had been changed before, this function will be disabled.
Restore Factory Default	"**FUN**" + 86 + "[ ]" + 87 + "**EN**"	All the setup data including card data and master card data will be clean by executing this step, the controller will restore to factory default.
Restore Main Password	"**FUN**" + 98 + "[ ]" + 99 + "**EN**"	Restore three set of the main password back to factory default, and disable the use of the Master card. If the Initial password is not equal to "0000000000" This function will be disabled.

∗ This marks means the setting is factory defualt.

[6] IF you set the "TTT" to "0", then it means that the door will be opened / closed when you swap the card. (Swap to change the status).
[7] The Input point you can use is from DI1~DI6, for detail information, please refer to the next page of the contrast table.

Ⅵ DO Complete Function Contrast Table

DO	Notation
DO #1	Controller inner contract
DO# 2	External module DO contact

Ⅶ DI Complete Function Contrast Table

DI	Notation
DI #1	Controller inner contact
DI #2	Controller inner contact
DI #3 (Bell key) or (Call Key)	Controller inner contact
DI #4	The first DI of external module
DI #5	The second DI of external module
DI #6 (Bell key) or (Call Key)	External keypad reader

※The entire DI is free to use, change parameter and setup way, please refer the advanced function setup table last page.

Ⅷ Reader Display Status Table

No.	Description	Lights and sounds				Notation
		OK LED	BELL LED	ERROR LED	Sound	
0	Normal status	Off	On	Off	No action	
1	Correct status	On	On	Off	Short beep（0.5 sec）	Return to original status
2	Error status	Off	On	On	Two short beep	Return to original status
3	Login	Off	Flashes	Off	No action	Continued until logout
4	Setup complete status	On	On	Off	Long beep（1 sec）	Return to original status
5	Await password enter/Card sense status	Flashes	On	Off	Long beep（0.5 sec）	Continued until enter complete or timeout
6	Alarm status	Off	On	Flashes	Short beep	Continued until disarmed or restore
7	Lock status	Flashes	On	Flashes	No action	Continued until local control
8	Initializing	On	On	On	Long beep（1 sec）	Return to original status

※ The timeout limit of card sense and password enter is 20 sec., the system will logout when timeout or press【EN】.
※ The system will automatically logout if there does not has any event happen within 60 sec.
※ Enter password incorrect over three times will lock the controller and can not login for 60 sec.

Ⅸ Advanced Function

1. The “Initail Password” by default it is “0000000000” 10 zero. If this password never had been changed, then you will be able to modify it while power up the controller and within 60 seconds, key in the command below to change: “▭” + “**ADD**” + “▭” + new initial password + “▭” + new initial password + “**EN**”

2. Restore the main password (This function can only be proceeding while power up the controller within 60 sec; the default main password is “1234”): Press “▭” + “**DEL**” + Initail password + “**EN**”.

3. There are some other extra functions which require the MDUSB-S-1 and utility tool. With proper tools, you will be able to (upload/download) the setting (from/to) controller. You can also back up the holder data, I/O data, Card number, personal password, controller parameter, master password, master card’s card number.

X. Advanced Wiring Diagram

SY110 Wiring Diagram