

## SR-2400 Quick reference Programming Guide

3R-2400 Quick reference Programming Guide		
Function description	Choose from the relevant function below and input	
Enter the programming mode	* 888888 # then you cando the programming (888888 is the default factory master code)	
To exit the programming mode	*	
Note: that to undertake thef enter into the programming in	ollowing programming the masteruser must mode	
Change the master code	0 New code # Repeat Newcode # (Code must be 6-8 digit numbers.)	
Add card user	1 Read Card # ( Can add card continuously)	
Delete card user	2 Read Card # ( Can delete cardcontinuously)	
To Unlockthe door		
To Unlock the door	Read user card	

## Attachment: Advanced Application

#### 1.SR-2400 operating as a Controller

In this mode the SR-2400 supports a Wiegand 26 bit input so an external Wiegand device with a 26 bit output can be connected to the Wiegand input terminals on the CFX-SR-2400 Either an ID card reader (125 KHZ) or an IC card reader (13.56MHZ) can be connected to the CrosFox. Cards are required to be added at the external reader, except where an externalEM reader is used, in this case cards can be added at either reader or controller. See figure 1

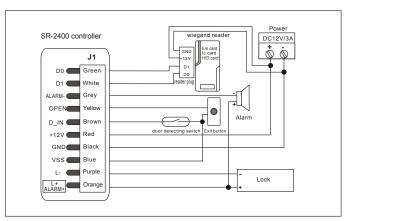


Figure 1

#### 2.SR-2400 operating isa Wiegand Output Reader

In this mode the SR-2400 supports a Wiegand 26 bit Output so the Wiegand data lines can be connected to any controller which supports a Wiegand 26 bit input. Seefigure 2

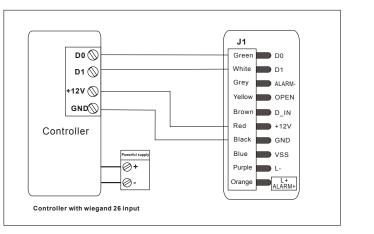


figure 2

#### 3. Two CFX-SR-2400 units interconnected for a single door

In this mode two SR-2400 units are us for a single, door one for entry and the other for exit. Either device acts as the controller and reader at the same time. Users can be enrolled in either of the devices. In this mode the user capacity for one door can be up to 20000. The setting of the two SR-2400 units must be the same including the same including the master code. See figure 3

#### 4.Two CFX-SR-2400 units interconnected & interlocked for 2 doors

two doors In this mode two SR-2400 units are used for two door swhich are then interconnected and interlocked. In this mode the doors canbe interlocked so that when door 1 is open, door 2 cannot be opened, and vice versaThe interlocked function is mainly prisons, and other places where a higher levelof security is required. See figure 4

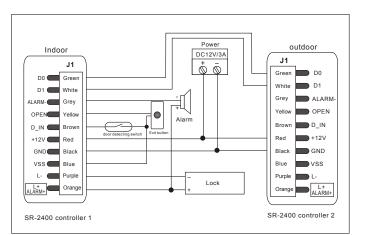


figure 3

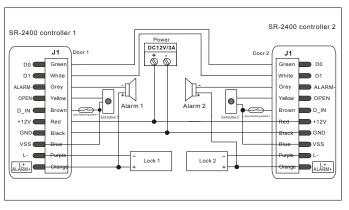


figure 4

## 5. Anti-submarine function for single door (3 1 #)

The connection diagram is as figure 1. Install one Wiegand reader (or a SR-2400 without user information as reader) outside the door, connecting to one SR-24000 Controller inside the door, which acts as the Anti-submarine Master unit. of the two devices, they build up an anti-submarine system for single door. The operation and function is as below:

- **5.1** Set the needed function and enroll the User Cards on the inside SR-2400 Anti-submarine Master unit.
- 5.2 With the valid user card, the user can only enter the door from the outside reader, and exit from the inside SR-2400 Controller. Onthe other hand, without entering record from the reader, the user can't exit from the controller inside, also, the user can'tenter in twice without the first exit record, and vice versa.

### Anti-submarine function for 2 doors

The connection diagram is as Figure 4. Door 1 with one SR-2400, and Door 2 with one, SR-2400 set one SR-2400 on Door 1 as the Anti-submarine Auxiliary(3 2 unit # ), and set the other SR-2400 on Door 2 as the Anti-submarine Master unit (3 1 #). They build up a anti-submarine system, which is normally used for parking lot.....etc.

The operation and function is as below:

- **6.1** Set the needed function and enroll the User Cards from SR-2400 Anti-submarine Master unit on Door 2.
- **6.2** With the valid user card, the user can only enter in from Door 1, and exit from Door 2. On the other hand, without entering record from the Auxiliary unit, the user can't exit from the Master unitor Auxiliary unit, also, the usercan't enter in twice without the first exit record, and vice versa.







User manual

.6.

.8.

# 1. Packing List

Name	Specification	Quantity
Standalone Proximity Reader	SR-2400	1
Infrared remote control		1
Manager card	One for add, one for delete	2
Short Pin	Used for factory default setting	1
User manual	SR-2400	1
Self Tapping Screws	Ф <b>3.5*27mm</b>	4/2

Please ensure that all the above contents are correct. If any aremissing, please notify the supplier of the

# 2. Description

The SR-2400 is fully waterproof standalone Proximity access Reader which uses advanced microprocessor, equipped with large capacity Flash memory supports up to 10,000 cards. It is so easy to add or delete card users by using the master card, besides, with Infrared remote control programmerthe user can set the features by themselves, including Alarm, Self-protection, interlock and Anti-submarine back Function. In additional, with infrared remotecontrol interlock and Anti-submarine back Function. In additional, with infrared remote.

The SR-2400 not only has the features of low power consumption, automatic selection of lock anti vandal alarm and exit button, ut also has the protective functionsagainst input over voltage and outputs short-circuit. These features make the SR-2400 reliablend easy in operation. It is an ideal choice for door access.

#### 3. Features

- · Standalone Card Reader
- User capacity: 10,000
- Card interface: 125KHZ EM Card Remote control for programming
- With Manager cards for fast add
- and delete users
- · Wiegand 26 input/output

- · Can be used as salve reader
- 2 pcsW can be interconnected/ interlocked Can be used as controller by connecting
- slave reader
- Anti-submarine back Function
- Alarm signal output. Door open detection
- Full of 10,000 users, recognizing speed <15ms.</li>

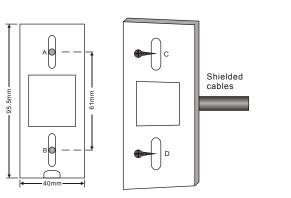
## 4. Specifications

Supply Voltage	DC12V±10%
Sleeping Current	<15mA
Card type	125KHZ EM card
Card Reading Distance	5~10cm
Wiegand interface	Wiegand 26
User capacity	10,000

Temperature	-20℃ ~60℃
Humidity	20%~98%
Lock output load	Max20A
Alarm output load	Max20A
Manager card	Two
Dimensions	103 x 48 x23mm

#### 5. Installation

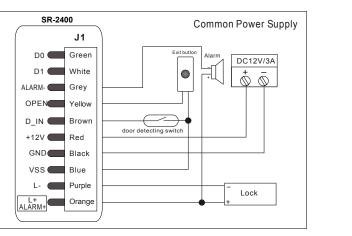
- Drill holes on the wall or prepare the cassette.
- · Wire through the hole, and blanket the unused cable in case of short circuit.
- Fix the back cover firmly on the cassette or the wall.
- Attach the reader to the back cover.

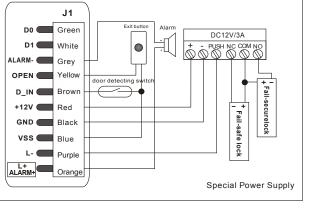


## 6. Wiring

)	Color	Function	Description
	Green	D0	Wiegand output, input signal wire D0
	White	D1	Wiegand output, input signal wire D1
	Grey	ALARM+	connecting to the negative pole of the alarm equipment
	Yellow	OPEN	To connect to one part of Exit Button
	Brown	D_IN	Door Contact input
	Red	12V	(+) 12Vdc Positive Regulated Power Input
	Black	GND	(-) Negative Regulated Power Input
	Blue	vss	the negative pole of the controller, connect to the other part of Exit button and door contact
	Purple	L-	Connect to the negative pole of the Lock
	Orange	L+/Alarm+	Connect to the positive pole of the lock and alarm equipment

## Connection Diagram





Do not power on until all wiring has been completed

### 7. Interface Circuits

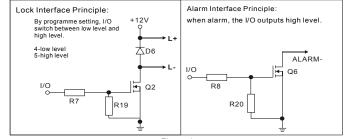


Figure 1

NOTE: The above diagrams show the output interface circuits. Unlike most lock and alarm outputs which use a relay that can be shocked or magnetized the SR-2400 uses MOS outputs for both the Lock Output on the left and the Alarm Output on theright.

# 8. To Reset to Factory Default and Manager Card setting

Power off, use the supplied Contact Pin to short out the 2P socket on the mainboard. then power on, if successful, the beeper will beep twice, the LED shines in orange. remove the Short Pin, then read any two EM cards, after that the LED turns in red, means reset to factory default setting successfully, of the two EM cards read, the first one is Manager add card, the second one is Manager delete card.

Remarks: Reset to factory default setting, the users' information enrolled is still retained. When reset to Factory default setting, the two Manager cards must be re-enrolled.

## 9. Sound and Light indication

Operation status	LED	Buzzer
Reset to factory default setting	Orange	Two shortring
Sleeping mode	Red shines slow	
peration successful		Short ring
Inter into programming mode	Red shines	Short ring
Inter into setting	Orange shines	Short ring
xist from programming mode	Red shines slow	Short ring
peration failed		Three short ring
pen the door	Green shines	Short ring
larm	Red shines fast	Alarm

# 10. SR-2400 Detailed Programming Guide

## 10.1 User settings

There are 2 waysto add and deleteusers:

nere are 2 ways to add and defeted	
-By manager card; B - By remote	control
- By Manager card (The most con	venient way)
oAdd user by ManagerCard	Manager add card Read user card Manager add card Cards can be added continuously.
o DeleteUser by Manager Card	Manager delete card Read user card Manager  Delete card Cards can be deleted continuously.
B- By Remote control	
Enter the programming mode	* Manager Password # 888888 is the default factory master code
emarks: All the steps below must be do	ne afterentering into programming mode
ochange the mastercode	0 New Password # RepeatNew Password # The master code must be 6~8 digit number.
oadd a carduser (Method 1)	Read Card #  Card can be added continuously without exiting programming mode.
oadd a carduser(Method 2)	Input Card number (8 digit) #  The card number is the last 8 digits of the number printing on the card.
odelete a carduser	2 Read Card # or 2 Card number (8digit) #
delete ALL users.  te: This option will delete all users but lager Cards. Be careful with use)	2 0000 #

## 10.2 Door setting

Lock Power Setting	
Fail secure (Unlocked when power on) This is the factorydefault, 3 seconds:	4 0~99 # 0-99 is to setthe door relay time0-99 seconds.
Fail safe (unlocked whenpower is off)	5 0~99 # 0-99 is to setthe door relay time0-99 seconds.
Anti-submarine Settings	

Anti-submarine Disabled 3 0 # (Factory default) Anti-submarine Master Mode 3 2 # Antisubmarine Auxiliary Mode (Note: the detailed wiring diagramand illustration, please refer to the "Advanced application"). Door open detection Door Open Too Long (DOTL) warning. When used with an optional magnetic contact or built-in magnetic contact of the lock, if the door is opened normally, but not closed after 1 minute, the inside buzzer will beep automatically to remind people to close the door and continue for 1 minute before switching off automatically. Door Forced Open warning. When used with an optional magnetic contact or built in magnetic contact of the lock, if the door is forced open, or if the door is opened after 120 seconds of the electro-mechanical lock not closed properly, the inside buzzer

To disable door open detection. 6 0 # (Factory default) To enable door open detection

Security Mode Setting

and alarm output will both operate.

Reader Lockout & Alarm Output options. If there are 10 invalid cards within 1 0 mi nut es, the Reader will lockout for 10 minutes or the alarm will operate for 10 minutes, depending on the option selected below.

Normal status (Nolockout or alarm) 7 0 # (Factory default setting) Reader Lockout 7 2 # Alarm Output

Door Interlock.

8 0 # Door interlock disabled Door interlock enabled

Alarm output time

To setthe alarm output time (0-3 minutes) Factory default is 1 minute

To remove the alarm

Toremove the doorforced open warning Read valid card or Master Code# To remove the door open too long

To Unlock the door

Read user card To Unlock the door

Note: that Manager Card can't be used to unlock the door.

Close the door or Read valid card

or Master Code#