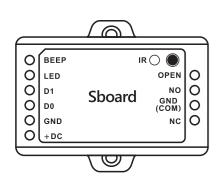
Mini Control Board - Sboard



User Manual

STADA PARTS

INTRODUCTION -

The Sboard is a mini single door control panel, can work with any Wiegand 26~37 bits output reader. It uses Atmel microcontroller to assure stable performance, and equips with an infrared remote control for easy operation. The Sboard supports 1,000 users, all user data can be transferred.

- > 1,000 users, user data can be transferred
- > Multi access modes: Card, Card or PIN, Card with PIN and multi Cards/PINs
- > Can connect with any reader with Wiegand 26~37 bits output
- > Can connect with any keypad reader with 4bits, 8bits (ASCII), or 10bits Virtual number
- > Support Master Card function
- > Low temperature resistance(-40°C)

User Capacity	1,000
Operating Voltage	9~24V DC
Idle Current	<20mA
Relay	One (NO, NC, Common)
Adjustable Relay Output Time	1~99 Seconds (5 seconds default)
Lock Output Load	2 Amp Maximum
Wiegand Interface Input Output	Wiegand 26~37 bits Wiegand 26~37 bits (for user transfer)
Environment Operating Temperature Operating Humidity	Indoor -40°C~60°C (-40°F~140°F) 0~90%RH
Physical Colour Dimensions Unit Weight Shipping Weight	ABS Shell Black (White optional) L65mm × W54mm × D19mm 40g 100g

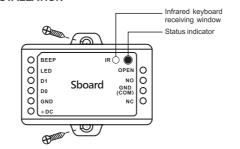
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Infrared Remote Control Diode IN4004 (For relay circuit protection) Self Tapping Screws: \$\Phi3*25mm Wall Anchors

Master Cards

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INSTALLATION -



Wiring

Name	Notes
The Left Side	
BEEP	Buzzer Control
LED	Green LED Light Control
D1	Wiegand Input Data 1
D0	Wiegand Input Data 0
GND	Negative Pole of DC (9~24V) Power Input
+DC	Positive Pole of DC (9~24V) Power Input
The Right Side	
OPEN	Connect to One Wire of Exit Button
NO	Normally Open Relay Output (install diode provided)
GND	Negative Pole of Lock
(COM)	(Common Connection for Relay Output)
NC	Normally Closed Relay Output (Install diode provided)

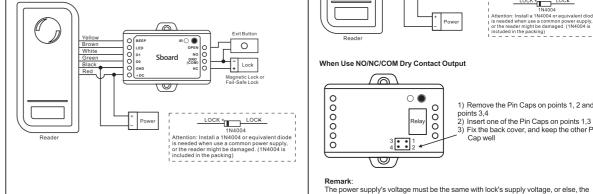
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Sound and Light Indication

Operation Status	LED	Buzzer
Stand by	Red light bright	_
Enter into programming mode	Red light shines	One beep
In the programming mode	Red light bright	One beep
Operation error	_	Three beeps
Exit from the programming mode	Red light bright	One beep
Onen lock	Green light bright	One heen

Connection Diagram

Magnetic Lock or Fail-safe Lock



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Door/Gate Operator or Fail-secure Lock

lock will not work properly or be damaged.

Master Delete Card.

1) The type of the Master Cards is according to the external reader. For example: the external reader is 125KHz HID Reader, then the Master Cards must be 125KHz HID

To reset to factory default, power off, press the Exit Button (or connect "OPEN" and "GND"

into orange, release the exit button (or disconnect "OPEN" and "GND"), then read any two

to be short circuit), hold it and power on, there will be two beeps, and the LED light turns

successfully. Of the two cards reading, the 1st one is Master Add Card, the 2nd one is the

cards on the external reader, the LED will turn into red, means reset to factory default

2) If no Master Cards added, must press the Exit Button for at least 10 seconds before

Reset to factory default, the user's information is still retained.

Reset to Factory Default and Master Cards Programming

PROGRAMMING-

Programming will vary depending on access confirguration. Follow the instructions according to your access configuration.

LOCK + LOCK

) Remove the Pin Caps on points 1, 2 and

2) Insert one of the Pin Caps on points 1.3

3) Fix the back cover, and keep the other Pin

points 3.4

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- Remote Control: Please use the Infrared Remote Control to program the Sboard. The "IR" on the Sboard is the infrared receiving window, please direct the Remote Control to it.
- User ID number: Assign a user ID to the access card in order to track it. The common user ID number can be any number fom 0~999. IMPORTANT: User IDs do not have to be proceeded with any leading zeros. Recording of User ID is crical. Modifications to the user require the User ID be available.
- PIN: Can be any 4~6 digits except 8888 which is reserved.

Enter and Exit Program mode

Programming Step	Keystroke Combination	
1. Enter Program Mode	* (Master Code) # (Factory default is 123456)	
2. Exit Program Mode	*	

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Set Master Code

Programming Step	Keystroke Combination	
Enter Program Mode	* (Master Code) #	
2. Update Master Code	0 (New Master Code) # (Repeat New Master Code) # (code: 6 digits)	
3. Exit Program Mode	*	

Add Users with Remote Control

Sboard Connected with Card Reader:

For the readers develop together with Sboard, such as S series readers, skip the below step 1; For other card readers, set the Sboard's Wiegand input as below step 1 according to the Wiegand output of the readers

Sboard Connected with Keypad Reader:

Can be any Keypad Reader with 4Bits, 8Bits (ASCII), 10Bits output formart Sboard can recognize the keypad reader's PIN output format automatically, no need do any setting.

PIN(s) can be input/added on either the remote control or the external Keypad Reader, except when the Keypad Reader is 10 digits virtual card number output, the PIN(s) can only be input/added through the Keypad Reader.

Programming Step	Keystroke Combination	
Enter Program Mode	* (Master Code) #	
2. Wiegand Input bits	8 (26~37) # (Factory default is 26bits)	
3. Exit	*	

Programming Step	Keystroke Combination
Add Card User	
Enter Program Mode	* (Master Code) #
Add Card: Using Auto ID (Allows Sboard to assign Card to next available User ID number) OR	1 (Read Card on External Reader) # Repeat Step 2 for additional user cards
2. Add Card: Select Specific ID	1 (User ID) # (Read Card on External
(Allows Master to define a specific User ID to associate the card to)	Reader) # The user ID is any number from 0-999
OR	The user ID is any number nonro-999
2. Add Card: by Card Number OR	1 (Input 8/10 digits Card number) #
2. Add Card: Block Learn	1 (User ID number) # (Card quantity)#
(Allows Master to add up to 1000	(The first card number) # Cards' number must be consecutive:
cards to the Reader in a single step.) Takes 2 minutes to program.	Card quantity = number of card to be enrolled
Add PIN User	
Enter Program Mode	* (Master Code) #
Add PIN: Using Auto ID (Allows Sboard to assign PIN to next available User ID number)	1 (Input PIN) # Repeat Step 2 for additional users (PIN: 4~6 digits)
2. Add PIN: Select Specific ID	1 (User ID) # (Input PIN) #

Sboard Connected with Fingerprint Reader:

(Allows Master to define a specific

User ID to associate the PIN to)

Exit

Connecte F2 as the fingerprint reader to Sboard, two steps to enroll the valid fingerprint. (1) Add the Fingerprint (A) on F2

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(PIN: 4~6 digits)

The user ID is any number from 0-999

(2) Add the same Fingerprint(A) on Sboard as below

Enter Program Mode: * (Master Code) # 1 (Press Fingerprint A on F2) (Repeat Fingerprint A on F2) # (ID auto allocated) OR 1 (User ID) # (Press Fingerprint A on F2) (Repeat Fingerprint A on F2) # (Select specific ID) 3 Exit: *

Add Users by Master Add Card

Add card users
Master Add Card | - Read User Card | - Master Add Card (Cards can be added

Master Add Card | - Input PIN | - Master Add Card (PINs can be added continuously)

Change PIN

Programming Step	Keystroke Combination	
Note: Below is done outside programming mode, users can understake this themselves, but you still need the REMOTE CONTROLLER to enter the first digit		
Change the card associated PIN (There will auto associate PIN (8888) to cards when adding card users)		
1. Change the users' PIN	* (ID Number) # (Old PIN) # (New PIN) # (Repeat New PIN) # (PIN: 4~6 digits)	
2. Exit	*	

Delete User Card(s) or PIN(s) by Remote Control

() () •	
Programming Step	Keystroke Combination
Enter Program Mode	* (Master Code) #

2 (Read Card on External Reader) # 2. Delete User - By Card 2 (Input 8/10 digits Card number) # 2. Delete User - By Card number 2. Delete User - By PIN 2 (Input PIN) # 2. Delete All User 2 (Mater Code)

2 (User ID) #

Delete Users by Master Delete Card

3. Exit

2. Delete User - By User ID

Master Delete Card | - Read Card | - Master Delete Card (Cards can be deleted

Master Delete Card | - Input PIN | - Master Delete Card (PINs can be deleted continuously)

Set Relay Configuration

The relay configuration sets the behaviour of the output relay on activation.

Programming Step	Keystroke Combination
Enter Program Mode	* (Master Code) #
2. Pulse Mode OR	3 (1~99) # The relay time is 1~99 seconds. (1 is 50mS) (Factory default is 5 seconds)
2. Toggle Mode	3 0 # Sets the relay to ON/OFF Toggle mode
3. Exit	*

For Multi Cards/PINs access mode, the interval time of pressing cards/inputting PINs can not exceed 5S, or else, the machine will exit to standby automatically

Programming Step	Keystroke Combination
Enter Program Mode	* (Master Code) #
2. Card access OR	40#
2. Card + PIN access OR	41#
2. Card or PIN access OR	42# (Factory default)
2. Multi cards/PINs access	4 3 (2~9) # (2~9 mean the qty of valid card/PIN)
3. Exit	*

Set Audible and Visual Response

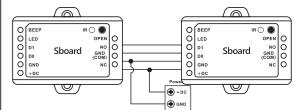
Programming Step	Keystroke Co	Keystroke Combination	
Enter Program Mode	* (Master Cod	de) #	
2. Control Sounds OR 2. Control LED	OFF = 7 0 # OFF = 7 4 #	ON = 71# ON = 75# (Factory defaults are ON)	
3. Exit	*	•	

User Information Transfer

The Sboard supports the User Information Transfer function, and the enrolled user (cards, PINs) can be transferred from one (let's name it Master Unit) to another (let's name it Accept Unit), Maximum 10pcs Accepts Units can be transferred once.

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Connection Diagram



 The Master Units and Accept Units must be Sboard or S1234-X. • The Master Code of the Master Unit and the Accept Unit(s) must be set to the same.

Program the transfer operation on Master Unit only.
If the Accept Unit(s) are already with the users enrolled, it will be covered after transfer. For full 1,000 users enrolled, the transfer takes 3 minutes.

Set Transferring on Master Unit:

	Programming Step	Keystroke Combination
	Enter the programming mode	* (Master Code) #
	Set transferring	96#
Within 3 minutes, Green LED shines, that means the users' information has		that means the users' information has been

3 Exit

transferred successfully

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