

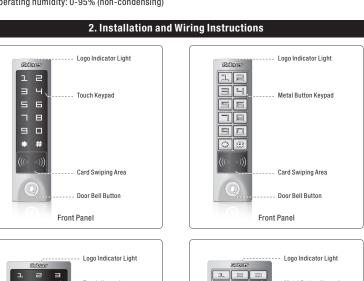
S Touch / S Key

User Manual

1. Introduction, Features and Specifications

sTouch R-w/sTouch R-s/sKey R-w/sKey R-s Reader is a new generation PIN and proximity card reader, allows entry via PIN and/or by presenting a proximity EM, HID, IC or CPU card, with wiegand 26-37, multiple data format output. It is compatible with most access control

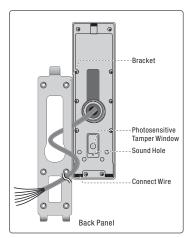
- > Aluminium alloy case, waterproof, fully potted, confirms to IP65. Touch panel (sTouch R-w/sTouch R-s) or metal keypad (sKey R-w/sKey R-s).
- > Built-in 125KHz (EM&HID card) reader: sTouch R-w H&EM/sTouch R-s H&EM/sKey R-w H&EM/s
- Key R-s H&EM Or 13.56MHz (IC&CPU card, ISO14443A) reader: sTouch R-w M/ sKey R-w M. > The back light can be set to Normal ON, Normal OFF or Automatic mode.
- 1.3 Specifications
- > Operating voltage range: DC12-14V
- > Idle input current: ≤35mA > Max proximity card read range: EM&HID card:3-6cmIC or CPU (Mifare) card: 2-6cm
- > Excitation frequency: 125KHz(EM, HID) or 13.56MHz (IC, CPU)
- > Card transmit format: Wiegand 26-37 > Keypad output format: Input a 4-6 digits PIN, sends card number, each key press sends a 4 bits data, or each press sends an 8 bits data.
- $> Dimension \ (Height \times Width \times Depth): s Touch \ R-w/s Key \ R-w: 125 \times 83 \times 21.7 mm;$
- sTouch R-s/sKev R-s: 158.6×43×21.7mm > Operating temperature range: -40 $^{\circ}$ 60 $^{\circ}$ C (EM&HID card): sTouch R-w H&EM/sTouch R-s H&EM/
- sKey R-w H&EM / sKey R-s H&EM. -20 \sim 60° C(IC or CPU card): sTouch R-w M/ sKey R-w M.
- > Operating humidity: 0-95% (non-condensing)



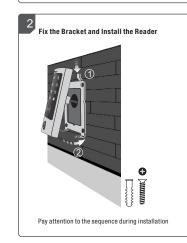


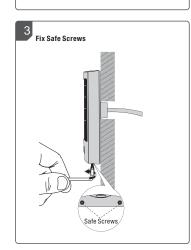


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	Common Access Controller					Door Bell	
+12V	GND	D0	D1	LED	BZ		\mathbb{L}
ρ	- Р	- Р	φ	- Р	ρ		Ш
Red	Black	Green	White	Brown	Yellow	Blue	Grey
	sTouch Reader / sKey Reader						

Color	Wiring	Remark
Red	+12V	+12 Power Input
Black	GND	GND
Green	D0	Wiegand output D0
White	D1	Wiegand output D1
Brown	LED	LED input
Yellow	BZ	Buzzer input
Blue	Door Bell	External Door Bell
Grey	Door Bell	External Door Bell

3. Master Keypad Operation

Enter Master Operation Mode. It will return to normal mode if there is no right Master PIN input in 5 seconds. After input of right master PIN, it will also return to normal mode if there is no valid operation in 30 seconds. Press "#" to confirm the input number, return to previous menu by press "*", the LED will indicate the operation mode.

		Е	nter master	operation mode		
White Flash Re			d	Functions	Remarks	
	* 6-8 digits Maste		r code # Enter master operatio mode		Factory default : 888888	
			Reader	rsettings		
Red Flash	Orange Flash	Orange	Functions		Remarks	
0		6-8 digits master code, #, Repeat 6-8 digits master code, #	Change master code			
	0	0-15,#	Set facility code		Default 0	
	2 26-37,#		Card numbe	r output format	Default 26	
		0,#	4-6 digits ke	ey press sends card number		
7 4	3	1,#	Each key pre	Default 1		
		2,#	Each key press sends an 8 bits data			
	_	0,#	Disable alarm ①		Default 1	
	4	1-3,#	Enable alarm 1-3 minutes			
		0,#	No door bell	function	Default 1	
5	5	1,#	No door bell	function		
	3	2,#	Enable exter	rnal door bell		
	3,#	Enable both build-in and external door bell				
8 3	0,#	Logo indicat	or light Normal OFF②	Default 1		
	1,#	Logo indicat	or light Normal On	Delault I		
	2	0,#	Buzzer OFF③		Default 1	
		1,#	Buzzer ON		Delault I	
		0,#	Keypad backlit Normal OFF		Default 1	
	3	1,#	Keypad backlit Normal On			
		2,#	Keypad back	klit automatic mode ④		
	4	0,#	Disable anti tamper alarm		Default 0	
	"	1,#	Enable anti tamper alarm		Default 0	

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Remarks:

- ① The anti tamper function will be invalid while alarm function is disabled
- ② Normal OFF, except indication in operating.
- 3 Buzzer will be ON after input of right mater PIN.
- 4 The keypad backlit will be on after a key press or read card, and it will be off in 30 seconds. While the backlit is OFF, the first keypad press will turn on the backlit, without any other function.

4. Function

When LED level is low, logo light will turn into Green, after 30 seconds or LED level rising, Logo light

 $When \, BZ \, level \, is \, low, \, the \, Buzzer \, will \, beep, \, after \, 30 \, seconds \, or \, BZ \, level \, rising, \, the \, Buzzer \, light \, will \, also \, records \, or \, BZ \, level \, rising, \, the \, Buzzer \, light \, will \, records \, record$ back to normal.

4.3 Alarm

When enable the anti tamper function, if the reader is disassembled illegally, the built-in buzzer will Input master code can remove the alarm. If there is no operation, the alarm will remove automatically

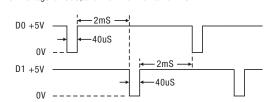
Press door bell button, the buzzer will sound ring-back tone, if connect with a Door Bell Decoder, then it can output a switching signal to control the door bell.

4.5 Wiegand Output Function

When the access host worked as reader, both card number and keypad transmits in Wiegand format, the output data are shown by the Low Level of D0 & D1 cable:

D0: Low level means 0, green cable D1: Low Level means 1, white cable

The wire in green (D0) is the wire for Wiegand 0, and the wire in white is the wire for wiegand 1. The



The digit of card number can be set to 26-37 bit and it should be matched with the controller, Factory

When you set it to 26 bit, the HID card will output wiegand 26-37 automatically as the format of the card, other card will output wiegand 26. when you set it to wiegand 27-37, all of the card will output wiegand 27-37

There are 3 formats output of card press (format 1 is factory default) $\,$ Format 0: 4-6 digits key press sends card number format: Input 4-6 digits PIN, press "#", output a wiegand 26-37, 10-bit decimal card number. For example, input password 999999, the output card number is $0000999999, could \ be \ displayed \ by \ 10-bit \ decimal \ card \ number \ display \ equipment.$

Format 1: Each key press sends 4 bits data, the corresponding relationship is:

1 (0001), 2 (0010), 3 (0011)

4 (0100), 5 (0101), 6 (0110) 7 (0111), 8 (1000), 9 (1001)

*(1010),0(0000),#(1011)

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Format 2: Each key press sends 8bit output data, the first 4 digits is ones-complement code for the last 4 $\,$

digits, the corresponding relationship is: 1 (11100001) , 2 (11010010) , 3 (11000011)

4 (10110100) , 5 (10100101) , 6 (10010110)

7 (10000111) , 8 (01111000) , 9 (01101001) *(01011010),0(11110000),#(01001011)

5. To Reset to Factory Default

Keypad access control(sKey-w, sKey-s), power off, keep pressing 💌 and power on, the logo will turn in orange after 1 second, release it until hearing two shot beep, then hearing a long beep, reset to factory default setting is successfully.

1 second, press 💌 within 1 second, release it until hearing two shot beep, reset to factory default

Remark: Reset to factory default, the users' information is still retained.

Sound and Light Indicatio	n
Logo Color	Buzzer
White	
	Short Ring
Green	Long Ring
Green	Long Ring
Green	Long Ring
	3 Short Ring
Slow Flash Red	
Slow Flash Orange	
Orange	
Orange	2 Short Ring
White	Long Ring
Quick Shine in Red	Alarm
	Logo Color White Green Green Green Slow Flash Red Slow Flash Red Slow Flash Red Slow Flash Red Slow Flash Orange Orange Orange White

7. Packing List					
Name	Qty	Remark			
Packing Box	1				
Card Reader	1	Model (Read card type) as labels on the products			
User Manual	1				
Rubber Bungs	4	Φ6mm×24 mm (White)			
Self Tapping Screws	4	ΦKA3mm×25 mm (Stainless steel)			
Screw Driver	1				

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