

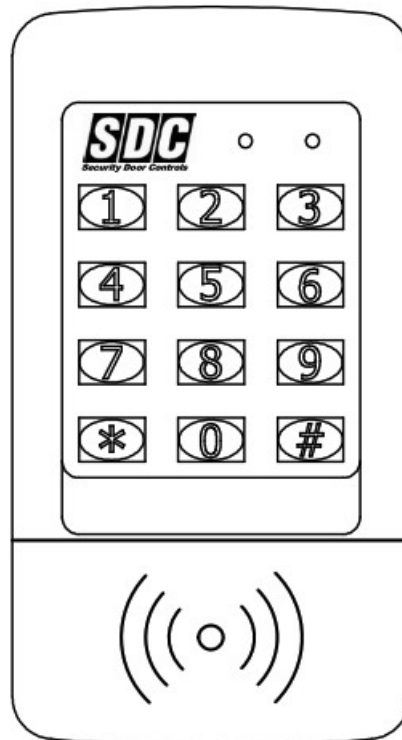


SDC EntryCheck 920P Instruction Manual

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STALLATION INSTRUCTIONS 920P EntryCheck™



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The EntryCheck™ 920P Indoor/Outdoor Keypad is a surface-mount digital keyless entry system designed for access control applications. The backlit keys are bright and easy to read. A heavy cast vandal-resistant housing design with a mounting plate allows the 920P to be mounted on a rugged surface or on a standard single-gang electrical box.

The 920P has a capacity of 500 users. Users can be assigned to use 4 to 6 digit PIN codes and/or HID 125kHz proximity access credentials. An authenticated access can be programmed to activate one or both of the relay outputs.

The timed “anti-passback” feature prevents using the same credentials twice before a programmed waiting period has elapsed. Two long-lasting solid-state LED indicators show the status of the system. The left bi-color indicator lights red to indicate power, then green when a relay is active (access grant, etc.).

The right indicator flashes yellow to indicate that the keypad is in programming mode. An internal sounder can be programmed to beep each time a key is pressed or when output is activated. An internal jumper sets the sounder volume high or low. The SENSE input can be configured one of two ways through programming.

When configured for “Door Sense”, the input is wired to a normally closed door position switch to detect when the door is opened or closed. Forced entry or door ajar situations can then be detected. The “Auto-relock” feature can also be used to turn off the Main Relay output immediately when the door is closed after access has been granted to prevent “tailgating”. When the SENSE input is configured for “Inhibit”, the input can be wired to a normally open “service” switch or automatic timer that will disable access while the switch is closed. The REQUEST-TO-EXIT input can be wired to a normally open pushbutton to provide codeless activation of the Main Relay, Auxiliary Relay, Output #3 or Output #4 (programmable).

The ALARM SHUNT signal is available when access is granted. This signal can be programmed to activate any of the relays or solid-state outputs to shunt alarm contacts on the access door/gate preventing the triggering of an alarm when authorized access occurs.

The 920P EntryCheck™ is powered from a 12 or 24V AC or DC source. The non-volatile EEPROM memory retains entry codes and programming when power is removed. An internal jumper is provided to reset the master code. The Main Relay has a 5 Amp capacity. The Auxiliary Relay has a 2 Amp capacity. Two solid-state outputs, capable of sinking 100 mA to common are programmable for alarm shunting, or to signal forced entry, door ajar, keypad lockout, and keypad active conditions.

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Features

- Keypad programmable
- 500 user codes
- 3 User Modes
 - PIN or Card
 - Card Only
 - Card and PIN
- 4 to 6 digit user codes

- 4 independent outputs
- 4 independent timers
- 2 Form C relay contacts
- 2 solid-state open collector outputs
- Program entry codes to activate one or two relays
- Disable input
- Door sense input
- Request-to-exit/Reception input
- Keypad tamper lockout
- Timed anti-passback
- Anti-tailgate
- Two LED status indicators
- Tactile key feel
- Audible code entry verification
- 12V or 24V, AC or DC operation

SPECIFICATIONS

Mechanical

Dimensions: 3.00" W x 5.75" H x 1.375" D (1.4375" wall projection)

Electrical

Input Voltage: 12/24 Volts AC or DC

Operating Current: 30 mA typical, 150 mA max

Output Ratings

Main Relay: Form "C" 5 Amps @ 28 Volts max

Auxiliary Relay: Form "C" 2 Amp @ 28 Volts max

Type: Solid-state outputs (Outputs #3 & #4)

Short-to-common 100 mA @ 24 VDC maximum

Environmental

Temperature: -4°F to 140°F (-20°C to 60°C)

Humidity: 5% to 95% non-condensing

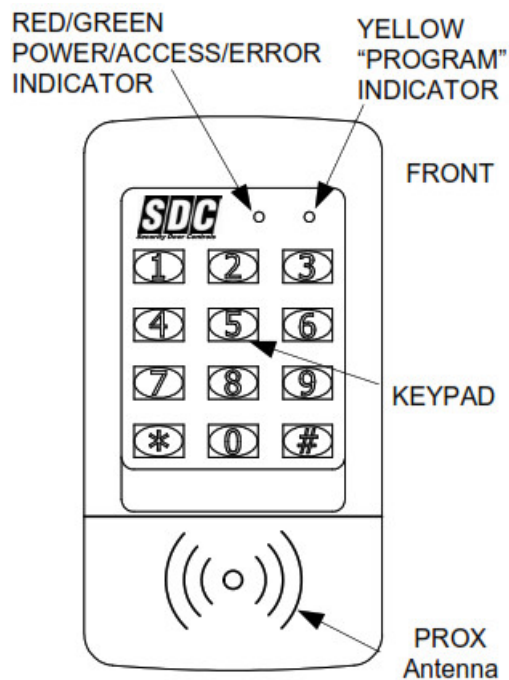
Any suggestions or comments to this instruction or product are welcome. Please contact us through our website or email engineer@sdsecurity.com

QuickStart Programming Examples

IMPORTANT!: Cards & Codes are stored by User #. It is imperative that the User numbers and their assigned personnel are managed in the event a specific user ever needs to be deleted. Page 8 is available to assist in documenting user numbers.

You must first enter programming mode to perform any function. The yellow indicator will blink slowly showing that the 920P EntryCheck™ is in programming mode. Use the option codes to program each function. After the new data entry is complete for each function, the green indicator will light briefly if the programming has been accepted. The red indicator will light if any programming data is entered incorrectly or the function is rejected. If a red indicator is seen, the entire function (option code + data) will have to be fully re-entered. The keypad will remain in programming mode until # is pressed or after 30 seconds of inactivity.

Set default parameters (first-time use)



Step 1. Enter: #9# 123456#	Enter programming mode (default master code=123456)
Step 2. Enter: 03# 4#	Set the entry code length to 4 digits
Step 3. Enter: 21# 5#	Set the main relay activation time for 5 sec.
Step 4. Enter: #**	Exit programming mode

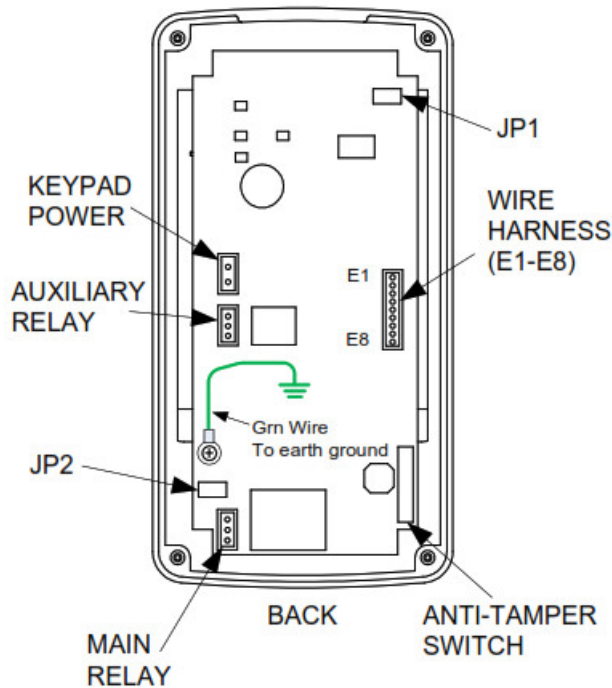
Assign a user (Card only)

Step 1. Enter: #9# 123456#	Enter programming mode (default master code)
Step 2. Enter: 06# 002# 9876# 9876# 1# (Present card)	Assign a card to User 002 with a PIN code of '9876'. Activate the main relay when validated.

Step 3. Repeat Step 2 to enter another unique user & card, or continue to Step 4.	
Step 4. Enter: #**	Exit programming mode.

Assign a user (PIN only)

Step 1. Enter: #9# 123456#	Enter programming mode (default master code)
Step 2. Enter: 01# 003# 2580# 2580# 1#	Assign User# 003 with a PIN code of '2580'. Activate the main relay when entered.
Step 3. Repeat Step 2 to enter another unique user & PIN or continue to Step 4.	
Step 4. Enter: #**	Exit programming mode

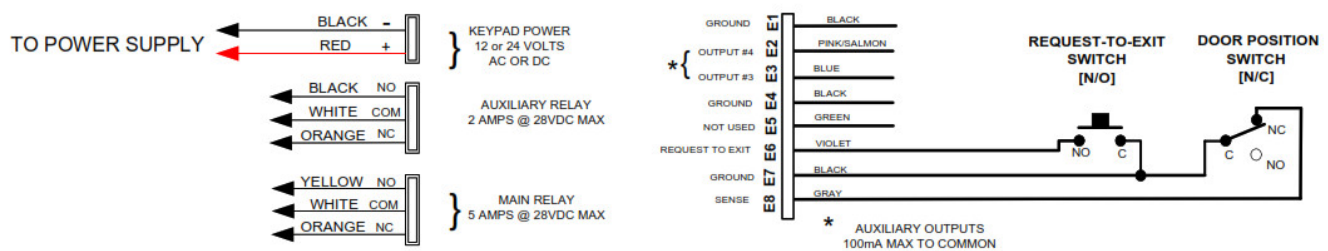


Test your new user

Present your card or enter an authorized PIN code + #. The green indicator should illuminate and the main relay should activate, unlocking the door for 5 seconds.

Deleting a user code

Step 1. Enter: #9# 123456#	Enter programming mode (default master code)
Step 2. Enter: 02# 002# 002#	User 002 has been deleted.
Step 3. Enter: #**	Exit programming mode



IF THE UNIT IS AC POWERED, MAKE SURE THAT THE SECONDARY OF THE SYSTEM IS ISOLATED FROM EARTH GROUND

KEYPAD WIRING EXAMPLE

See Fig. 3 for an example of a basic door installation. The keypad is mounted adjacent to the door. An electric door strike is mounted in the door jamb to release the door lock. An optional door contact switch is mounted on top of the door jamb for detecting when the door is open.

Use the following steps to wire the keypad. Refer to the wiring diagram shown in Fig. 4 to assist in the wiring.

Note: For lock power, use 18 AWG wires or larger (depending on load). Use 22 AWG or larger for signal connections. Refer to lock manufacturer's documentation for lock power requirements.

Output Connection

Install a low-voltage fail-secure electric door strike at the door to be controlled. Route 2 wires from the door strike

to the keypad. Connect a MOV across the coil wires of the strike. Connect the (+) door strike wire the keypad's MAIN RELAY N.O wire (yellow). Connect the other door strike wire to the keypad's PWR(-) wire (black). Connect the keypad's MAIN RELAY COM wire (white) to the keypad's PWR(+) wire (red).

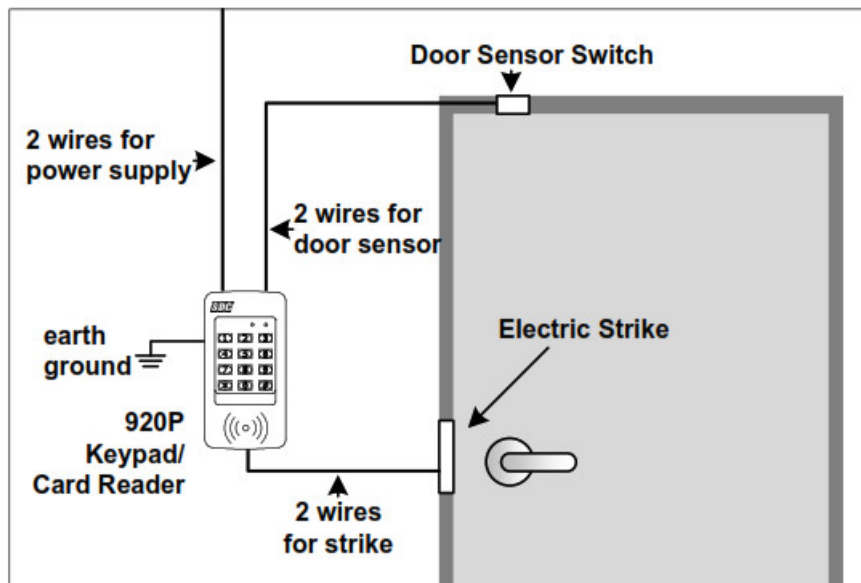


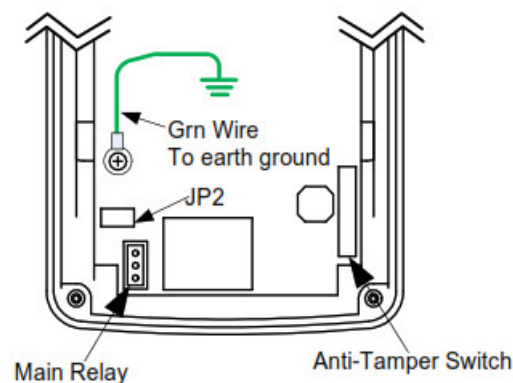
Fig. 3 Basic Door Installation

Power Connection

Connect the power supply's output terminals to the keypad's PWR(+) wire (red) and PWR(-) wire (black). If using a DC supply, observe wiring polarity. If an AC transformer is being used, polarity does not matter. Caution: If the unit is AC powered, make sure the secondary of the system transformer is isolated from the earth ground.

Earth Ground

To avoid damage to the unit from static discharges, this unit must be connected to proper earth ground. Connect the green earth ground wire to a good earth grounding point. The suggested wiring size is 18 AWG for the earth ground.



Sense Input

RE Note: The SENSE input (gray wire) can be programmed as either a door sense or inhibit input (default = inhibit). Both features cannot be used at the same time.

Door Sense: (Detect forced entry or door ajar conditions) Install a normally closed door switch on the door and route two wires from the switch to the keypad. Connect the door switch to the keypad's SENSE wire (gray/ E8) and COM wire (any black wire).

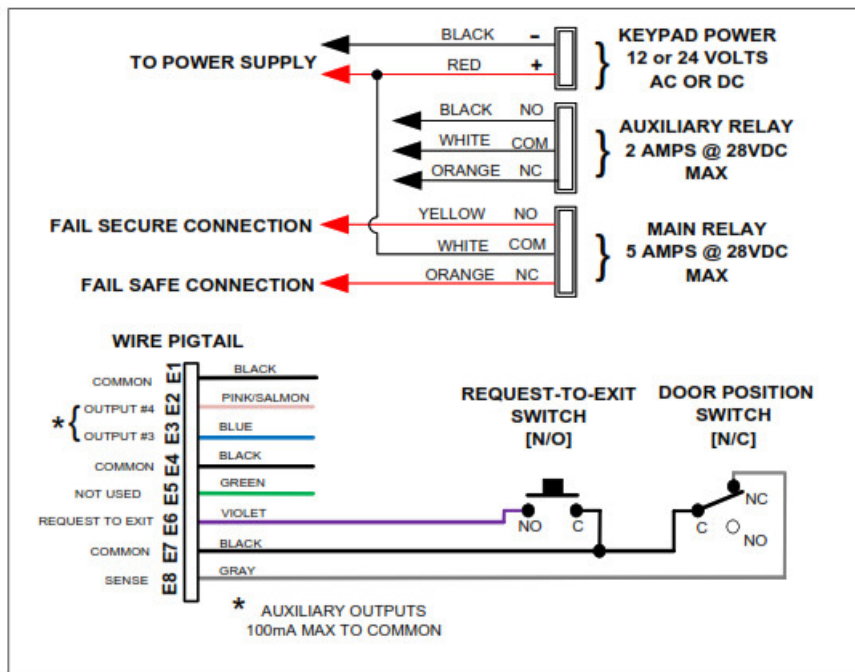


Fig. 4 Basic Door Installation Wiring

Request-to-Exit Input (wiring shown on fig. 4)

If a request-to-exit pushbutton is going to be used, route two wires from the keypad box to a normally open pushbutton mounted on the secure side of the door. Connect the wires to the pushbutton and to the keypadREX wire (violet/ E6) and COM (black wires) terminals.

Solid State Outputs

The two solid-state outputs (Outputs #3 & #4) can be programmed to activate during various conditions. These “open collector” outputs can be used to activate indicators or sounders. See fig. 5 for wiring examples using the solid-state outputs.

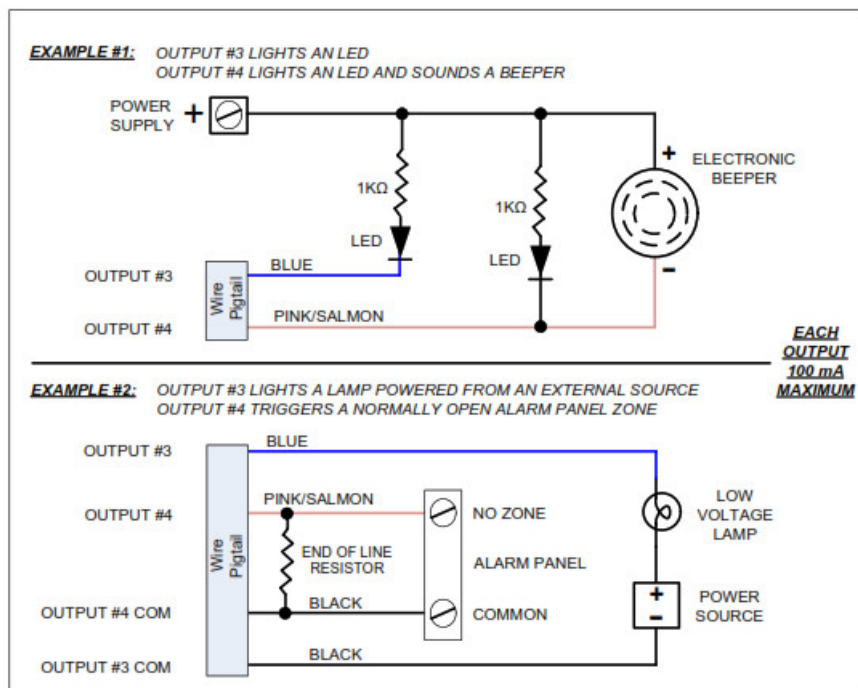


Fig. 5 Using Solid State Outputs

FACTORY DEFAULTS

Master Programming Code.....123456
 Entry Code Length.....4 digits
 Entry Mode.....Card or PIN

Request-to-exit Output Relay.....	No Output
Alarm Shunt Output.....	Disabled
Forced Entry Output.....	No Output
Door Ajar Output.....	No Output
Main Relay On-Time.....	02 Seconds
Auxiliary Relay On-Time.....	02 Seconds
Solid-State Output #3 On-Time.....	02 Seconds
Solid-State Output #4 On-Time.....	02 Seconds
Door Sense/Inhibit Input.....	Inhibit
Keypad Lockout Output.....	Disabled
Keypad Active Output.....	Disabled
Beeper Sounds When Key Pressed.....	Yes
Beeper Sounds During Relay #1.....	No
Beeper Sounds During Relay #2.....	No
Beeper Sounds During Output #3.....	No
Beeper Sounds During Output #4.....	No
Keypad Lockout Count.....	3 Tries Before Lockout
Anti-Passback Time.....	No Anti-Passback
Auto-Relock.....	On

BASIC PROGRAMMING

When the 920P EntryCheck™ is in Programming Mode the yellow indicator will blink slowly. After a programming command is

selected, the yellow indicator will flash rapidly while the keypad is waiting for user input data. The green indicator will light if the data is accepted. The red indicator will light if any programming data is entered incorrectly, and the full command will have to be re-entered.

Entering Programming Mode

The 6-digit Master Programming Code (default = 123456) is used to enter Programming Mode.

Press: # 9 # Master Code #

Master Code = the current 6-digit Master Programming Code

Exiting Programming Mode

Press: #**

The red indicator will light after exiting Programming Mode

Note: The 920P will automatically exit Programming Mode after 30 seconds of inactivity

Re-entering a Command After a Mistake

If the red indicator lights, signaling an incorrect entry, or an incorrect key is pressed during programming, to clear the keypad and re-enter the command:

Press: *9 #

Setting Entry Code Length Default: 4 digits

Press: 03 # Length #

Length = 1-6 for entry code length

Note: If the Entry Code Length is going to be changed from the factory default of 4 digits, make this change first before programming any encodes.

Select Entry Mode Default: Card or PIN

Sets the entry mode for the 920P.

Press: 05 # Mode #

Mode=Operating Mode(1-3)

1=Card or PIN; 2=Card Only 3=Card and PIN

Adding a New User

User PIN Only Access (No Card)

Press: 01 # User # Code # Code # Relay #

— Or —User

Card and or PIN Access Press: 06 # User # Code # Code # Relay # Present Card

User=3-digit User number to be added: 001-500

Code=The new entry code: 1-999999, depending on code length

Relay=Relay output entry code will activate:

1=Main Relay 2=Auxiliary Relay 3=Both Relays

10=Relay #1, toggled 20=Relay #2, toggled 30=both Relays toggled
12=Relay #1 toggled; Relay #2 timed open
21=Relay #1 timed open; Relay #2 toggled

The green indicator will light when the new code and card are accepted. If the user number already exists or an entry error has been made, the red indicator will light. Delete the user and re-enter the new information again.

Note: Leading zeros (zeros before the code number, i.e.0001) do not need to be entered when programming a new code. The 920 will internally add any zeros to fill digits determined by the entry code length setting. Leading zeros will have to be entered by the user when entering their code to gain access.

Output Toggle Mode

When an output is programmed for Toggle Mode, the output alternates from OFF to ON or from ON to OFF each time it is accessed. When an output is toggled on, the green LED remains solid until toggled off.

The rules for a toggle output are:

If the output is OFF, entering a toggle code will turn ON the selected relay, and stay on until the next activation of a toggle code. NOTE: Entering a timed code OR activating the REX input will not turn off a relay that has been toggled ON.

If the output is ON, entering a toggle code will turn OFF the selected relay and stay off until the next activation of a toggle code, time code, or REX input.

Adding Multiple Sequential Cards

Press: 08 # 1 st

User # Code # Code # Relay # Number of users

Present 1st card st 1 User =Starting user number to add

Number of users = Total number of consecutive cards to add

After presenting the 1st card, the green indicator will light as cards are added. NOTE: The "Code" will be the same for all users, but may be changed for each user using Function 04 below.

Adding Multiple Non-Sequential Cards

Press: 07 # 1 st User # Code # Code # Relay # Number of users st

Present 1 nd card, Present 2 card, ..., Present last card

1 st User =Starting user number to add

Number of users = Total number of consecutive cards to add

Changing a User PIN

Press: 04 # User # New Code # New Code #

User =The user number whose PIN will be changed

After all user programming is complete, it is recommended that the administrator change the Master Code using the function below

Changing the 6-Digit Master Programming Code

Press: 98 # Master Code # Master Code #

Master Code=The new 6-digit Master Programming Code

Erasing a Single User

Press: 02 # User # User #

User =The user number to delete 001-500

The green indicator will light when the user is erased.

Erasing Multiple Users (Sequential)

Press: 09 # 1stUser # Number of users #

1 st User =Starting user number to delete

Number of users = Total number of consecutive users to delete

The yellow indicator will flash quickly while the 920P erases the users from memory. The green indicator will light when the users are erased.

Erasing All Entry Codes

WARNING: PERFORMING THIS COMMAND WILL REMOVE ALL ENTRY CODES FROM THE MEMORY

Press: 97 # 0 0 0 0 0 0 # 0 0 0 0 0 0 #

Note: The green indicator will light while the memory is being erased. This may take up to 15 seconds.

Configure Sense Input Default: INHIBIT

The Sense Input (gray wire) can be programmed for either DOOR SENSE or INHIBIT.

Press: 10 # Input #

Input=0 for Door Sense; =1 for Inhibit

When programmed for DOOR SENSE, if an open condition on the input occurs before access is granted (with an entry code or

with the request-to-enter input) a FORCED ENTRY output will occur. If an open condition remains beyond the door ajar time

following an access grant, a DOOR AJAR output will occur.

When programmed for INHIBIT, a closed condition on the input will prevent Relay #1 from activating when access is requested

with an entry code. This mode is typically used with an external timer to disable the access device at certain times.

Select Forced Entry Output Default: No Output

Sets which output activates if the DOOR SENSE input opens before access is granted. The output is not timed. The selected relay latches ON until any valid code (timed or toggled) is entered.

Press: 11 # Output #

Output=Output to Activate(0, 2-4)

2=Auxiliary Relay; 3=Output #3; 4=Output #4; 0=No Output

Select Door Ajar Output Default: No Output

Sets which output activates if the DOOR SENSE input stays open beyond the door ajar time after access is granted (door ajar time is adjustable using Function 25). This output is not timed. When the DOOR SENSE input returns to normal, the output turns off.

Press: 12 # Output #

Output=Output to Activate (0, 2-4)

2=Auxiliary Relay; 3=Output #3; 4=Output #4; 0=No Output

Select Keypad Lockout Output Default: No Output

Sets which output activates when the keypad is "locked out" after too many incorrect entry code attempts. The lockout time is 60 seconds.

Press: 13 # Output #

Output=Output to Activate (0-4)

1=Main Relay; 2 = Auxiliary Relay; 3=Output #3; 4=Output #4;

0=No Output / Lockout Disable

Select Keypad Active Output Default: No Output

Sets which output activates when any keys are pressed. This output is timed. If toggle mode is selected for the output, the timer value defaults to 2 seconds.

Press: 14 # Output #

Output=Output to Activate(0-4)

1=Main Relay; 2=Auxiliary Relay; 3=Output #3; 4=Output #4;

0=No Output

Select Alarm Shunt Output Default: No Output

Sets which output activates during the time access is granted. (Use this output to shunt alarm contacts attached to the access door.) This output may be timed or toggled.

Press: 15 # Output #

Output=Output to Activate(0-4)

1=Main Relay; 2=Auxiliary Relay; 3=Output #3; 4=Output #4; 0=No Output

Select Request-to-Exit Output Default: No Output

Sets which output activates when the Request-to-Exit input is grounded. This output may be timed or toggled.

Press: 16 # Output #

Output=Output to Activate(0-4)

1=Main Relay; 2=Auxiliary Relay; 3=Output #3; 4=Output #4;

0=No Output

Anti-Tamper Output Default: No Output

Sets which output activates when the Anti Tamper switch on The back of the keypad is activated.

Press: 17 # Output #

Output=Output to Activate(0-4)

0=No Output; 2=Auxiliary Relay; 3=Output #3; 4=Output #4;

Main Relay On-time Default: 02 Seconds

Sets the length of time the Main Relay activates when triggered.

Green LED is on when Main Relay is active.

Press: 21 # Seconds #

Seconds=Output time in seconds (1-60)

Auxiliary Relay On-time Default: 02 Seconds

Sets the length of time the Auxiliary Relay activates when triggered.

Press: 22 # Seconds #

Seconds=Output time in seconds (1-60)

Solid-state Output #3 On-time Default: 02 Seconds

Sets the length of time Output #3 activates when triggered.

Press: 23 # Seconds #

Seconds=Output time in seconds (1-60), 99=Toggle Mode

Solid-state Output #4 On-time Default: 02 Seconds

Sets the length of time Output #4 activates when triggered.

Press: 24 # Seconds #

Seconds=Output time in seconds (1-60), 99=Toggle Mode

Door Ajar Timer Default: 60 Seconds

Sets the amount of time the door may be held open after authorized access. The DOOR AJAR output will activate after the time expires.

Press: 25 # Seconds #

Seconds=Held open time in seconds (1-60)

Beep Sounds on Keystrokes Default: Yes

Selects whether or not the keypad beeps as each key is pressed.

Press: 40 # Sound #

Sound=1 for Yes, =0 for No

Beep Sounds During Main Relay Default: No

Selects whether or not the keypad beeps during Main Relay activation.

Press: 41 # Sound #

Sound=1 for Yes, =0 for No

Beep Sounds During Auxiliary Relay Default: No

Selects whether or not the keypad beeps during Auxiliary Relay activation.

Press: 42 # Sound #

Sound=1 for Yes, =0 for No

Beep Sounds During Output #3 Default: No

Selects whether or not the keypad beeps during Output #3 activation.

Press: 43 # Sound #

Sound=1 for Yes, =0 for No

Beep Sounds During Output #4 Default: No

Selects whether or not the keypad beeps during Output #4 activation.

Press: 44 # Sound #

Sound=1 for Yes, =0 for No

Beep Sounds Anti-Tamper Activation Default: No

Selects whether or not the keypad beeps during Anti-Tamper switch activation.

Press: 45 # Sound #

Sound=1 for Yes, =0 for No

Keypad Lockout Count Default: 3 Attempts

Sets the number of incorrect entry code attempts allowed before the keypad "locks out" for 60 seconds.

Press: 50 # Attempts #

Attempts=Number of attempts before lockout (2-7)

*Refer to Option 13 to Enable Lockout Feature

Anti-Pass Back Time Default: No Anti-Pass Back

Sets the length of time an entry code will not function after it is used.

Press: 51 # Minutes #

Minutes=Time in minutes (2-4), 0=No Anti-passback

Selects mode for Keypad LED Backlight Default: 30 Seconds

Selects whether or not the keypad backlight stays OFF, lights for 30 seconds when activated or stays ON.

Press: 52 # Output #

0 = Light always OFF

1 = 30 sec light when activated (default)

2 = Light always ON

Changing the Beeper Sound Level

The Keypad's beeper can be set to a high or low level.

Remove jumper JP1 to reduce beeper sound level.

RESETTING KEYPAD

Master Reset

CAUTION: Performing a master reset will clear the entire memory of the 920P and return all programmable options to the factory default values. ALL ENTRY CODES WILL BE ERASED. NOTE: The Master Code will NOT be reset.

STEP 1 Disconnect power from the keypad.

STEP 2 Press and hold down the * and # keys.

STEP 3 Apply power to the keypad, continue holding the keys down until the red indicator starts flashing

STEP 4 Release the keys. The red and yellow indicators will remain lit until the process is complete, then the yellow indicator will go out.

Resetting the Master Code

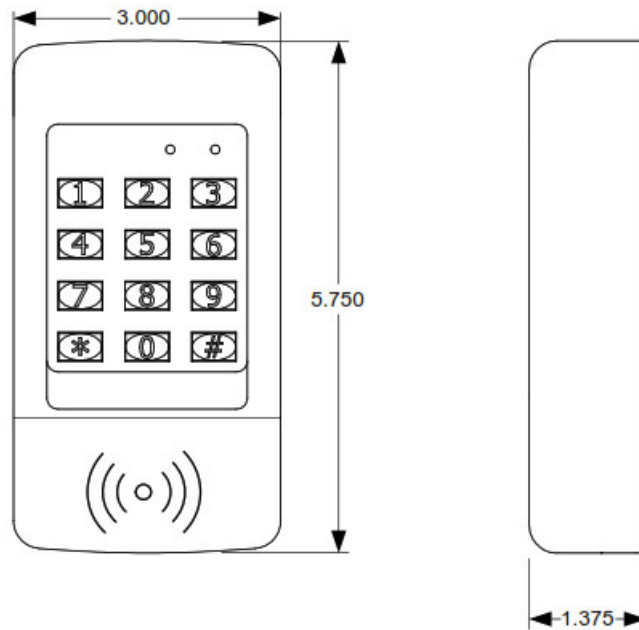
STEP 1 Remove the 920P from the wall and disconnect power from the keypad.

STEP 2 Locate & Remove jumper at JP2. Reference page 2.

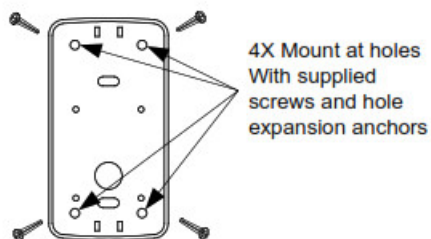
STEP 3 Re-apply power. You will get a single beep and the yellow LED will flash momentarily.

STEP 4 Replace jumper on JP2.

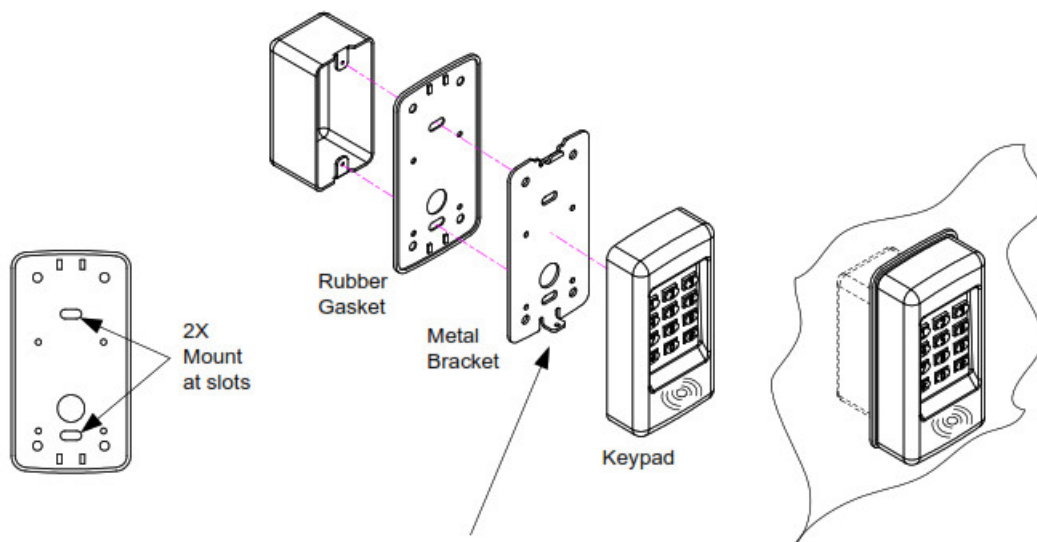
THE MASTER PROGRAMMING CODE IS NOW 123456.



SURFACE MOUNT



MOUNTING TO SINGLE GANG RECESSED OUTLET BOX



1. Secure metal bracket to box or wall.
2. Secure keypad to the metal bracket using supplied security screw.

User #	Employee First Name	Employee Last Name
1		
2		
3		
4		
5		
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Documents / Resources

	<p>SDC EntryCheck 920P [pdf] Instruction Manual SDC, EntryCheck, 920P, Indoor, Outdoor, Keypad</p>
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