

SC20 INTRODUCTION

The *SC-20* Access Control System is a single door system that operates with one master code and 19 user codes. The master code (code 1) is pre-set at the factory to **111**. No user codes are pre-set. *Be sure to change the master code right away.*

Codes can be from 1 to 6 digits long. Any digit *can* be repeated: 334, 00134, 789789, etc. are all acceptable codes.

ABBREVIATIONS - In the programming instructions below, the following will be used:

“E” = Enter Key

“0”, “1”, “2”, etc. = Numeric Keys

“MC” = Master Code

“UC” = User Code

“U NR” = User Number (each valid user code is chained to a user number: 2 thru 20)

[xxxx] = indicates the feedback you should receive from the red/green LED.

“OD” = Option Selection Digit

What blinking lights mean:

Single red = key has been pressed

Rapid red = you've completed a program or operation sequence

Single green = waiting for an OD (option selection digit)

Slow blinking green = waiting for more information to be entered

INSTALLATION

The wiring diagram for the *SC-20* is self-explanatory. The control module is sized to fit in or on backside of cover plate of a regular wall electrical box. (*See diagram*)

USE OF SYSTEM

To release door: key in any valid user code and push “E” key.

CHANGE MASTER CODE

1. Key in: **E E E 111 E** [one green flash] **0** [slow blinking green]
(You are now in code programming mode)
2. Key in : **E 1 E MC E** [red flashes rapidly] [one green flash] **E** [red flashes rapidly].
The new MC is now valid.

Example: To change the master code to 756, key in: **E E E 1 1 1 E** [one green flash] **0** [slow blinking green] **E 1 E 7 5 6 E** [red flashes rapidly] [one green flash] **E** [red flashes rapidly].

Note: *In an emergency or when the master code has been forgotten the following method can be used:*

1. Turn power **off**.
2. Press the **1, 7,** and **E** keys simultaneously while reconnecting the power [slow blinking green].
The keys can now be released.
3. Key in: **E 1 E MC E** [red flashes rapidly] [one green flash] **E** [red flashes rapidly].

ADD/CHANGE USER CODE

1. Key in: **E E E MC E** [one green flash] **0** [slow blinking green]
(You are now in code programming mode).
2. Key in: **E U NR** (2 thru 20) **E UC E** [red flashes rapidly] [one green flash] **E** [red flashes rapidly].

Example: Assuming master code is now 756 and you want user 3 to have code of 00334 key in:
E E E 7 5 6 E [one green flash] **0** [slow blinking green] **E 3 E 0 0 3 3 4 E** [red flashes rapidly] [one green flash] **E** [red flashes rapidly].

TO ERASE ALL USER CODES EXCEPT MC:

1. Turn power **off**, turn power back **on**.
2. Key in: **E E E MC E 0 E 0 E**.

SET/CHANGE OPTIONS

The *SC-20* has a number of optional features. The factory default settings are:

- All code groups active
- Keyboard lights up when a key is pressed
- Remote push button is "off"
- Time delays for keypad and push button are 5 seconds

TO ENTER THE "OPTION MODE" key in: **E E E MC E** [one green flash], then the **OD**

CODE GROUPS: OD1, OD2, OD3, OD4

- There are 3 code groups:
- Group 1 user codes 1 and 11
 - Group 2 user codes 2-10
 - Group 3 user codes 12-20

Group 1 is always active. Groups 2 and/or 3 can be added to group 1.

With OD's (option selection digits) 1 thru 4, combination of groups can be activated or deactivated.

- OD 1** = only group **1** is active
- OD 2** = groups **1 and 2** are active
- OD 3** = groups **1 and 3** are active
- OD 4** = groups **1, 2, and 3** are active

Example: to activate groups 1 and 3 key in: **E E E MC E** [one green flash] '3'
[flash,flash,flash.....flash] Press E to exit option mode.

Note: When entering OD 9, your selected code group can be checked by observing the blinks of green flashes.

OD 5 - Keyboard Lights

There are two choices:

- 1.) Keyboard lights stay lit for 20 seconds after any key is pressed.
- 2.) Keyboard is lit constantly.

To change from one mode to another:

- E E E MC E** [one green flash] **5**
- One flash** indicates 'on demand'

Two flashes indicate 'always on'

Press **E** to exit option mode.

Note: The keyboard lights draw about 5 milliamps when on. The unit, when not in use with lights off, draws about one half milliamp.

OD 6 - Pushbutton

This option will allow use of an external pushbutton. A pushbutton can be added by connecting it to the "**PB**" terminals on the control module. (*See wiring diagram*).

When this option is chosen/programmed, the module relay will be operated by the pushbutton. This option should be in the "not chosen" state when no pushbutton is installed.

Key in : **E E E MC E** [one green flash] **6**

When the led **flashes once**, the pushbutton is not chosen.

When the led **flashes twice**, the pushbutton is chosen.

Press **E** to exit option mode.

OD 7 - Variable release timing for pushbutton

When the pushbutton has been chosen by using OD 6, it can now be programmed for variable release time. The output time can be anywhere from 1 to 99 seconds. This is accomplished through OD 7.

To program, key in: **E E E MC E** [one green flash] **7** [slow blinking green] (entering any one or two digit number will now set the timing).

After entering, for example '15', key in **E** [red flashes rapidly] [one green flash] (you're back to option mode).

To exit option mode, key in another **E** [red flashes rapidly].

OD-8 - Variable release time for keypad

To set output for the keypad, key in **E E E MC E** [one green flash] **8** [slow green blinking].

Now enter the desired release time (from 1 to 99 seconds) and key in **E** to get back to option mode.

Press **E** to exit option mode.

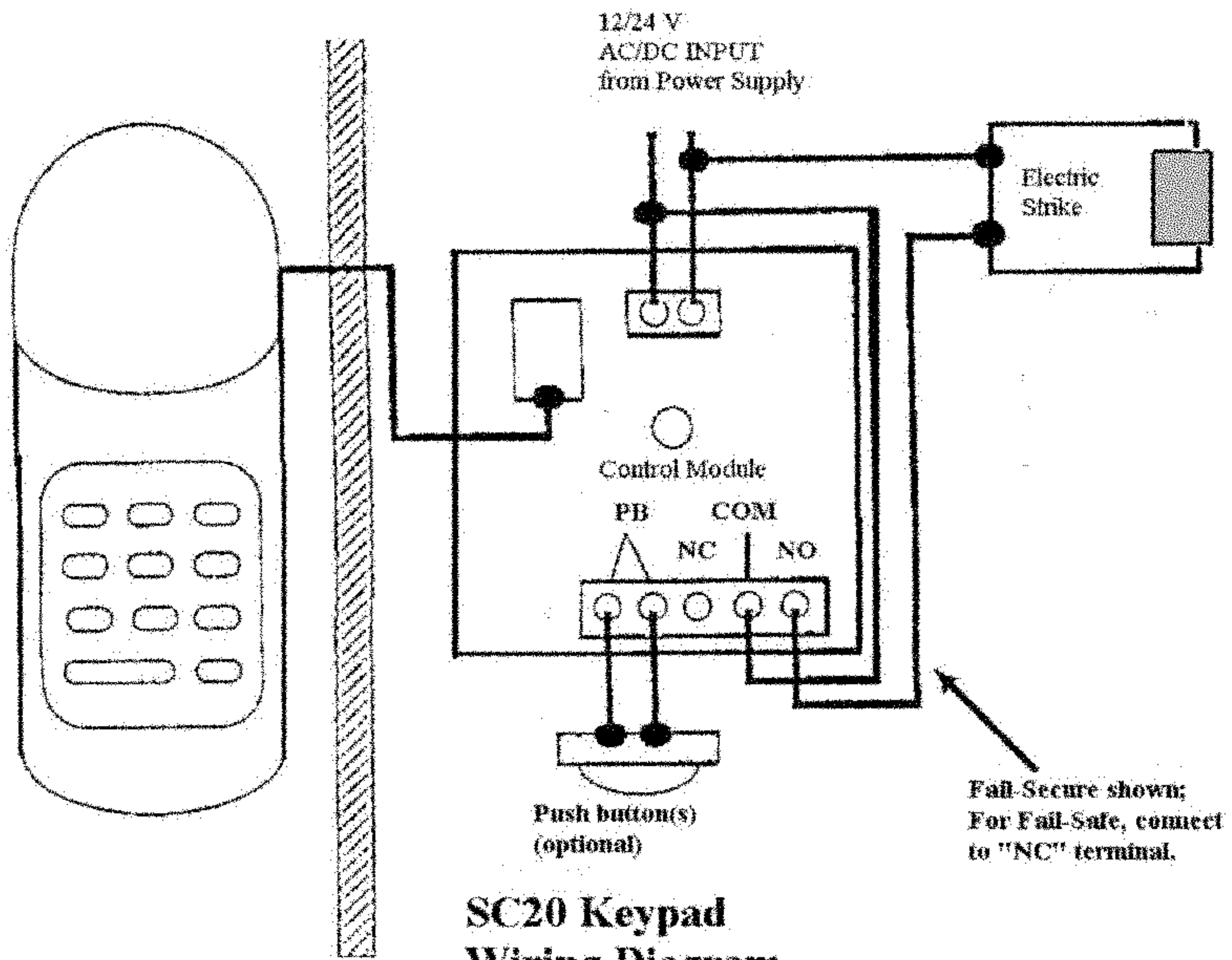
Note 1: The pushbutton and keypad can have different release time delays.

Note 2: When in OD 8, and '0' or '00' is entered, the output will stay on indefinitely (latch mode) until the 'enter' key is keyed again.

WARRANTY

Domino Engineering Corporation will repair or replace at its discretion, any SC-20 Access Control System failing to operate for any reason, except physical abuse or application of excessive voltage, within a period of 12 months from date of purchase. In addition, Domino Engineering will repair or replace for \$25.00 any SC-20 failing to operate properly for any reason except excess voltage, within the period of two to five year from date of purchase.

Domino Engineering Corporation, Taylorville, Illinois



**SC20 Keypad
Wiring Diagram**