# CM-100SS

*(Replaces #CM-50SS)*

## WEATHERPROOF STAINLESS STEEL KEYPAD
## 100 USER CODES

<u>Wiring diagram</u>

V1, V2 - varistors

blue [C]
black
Input voltage
12/24VAC/DC
red

Magnet

green[R]
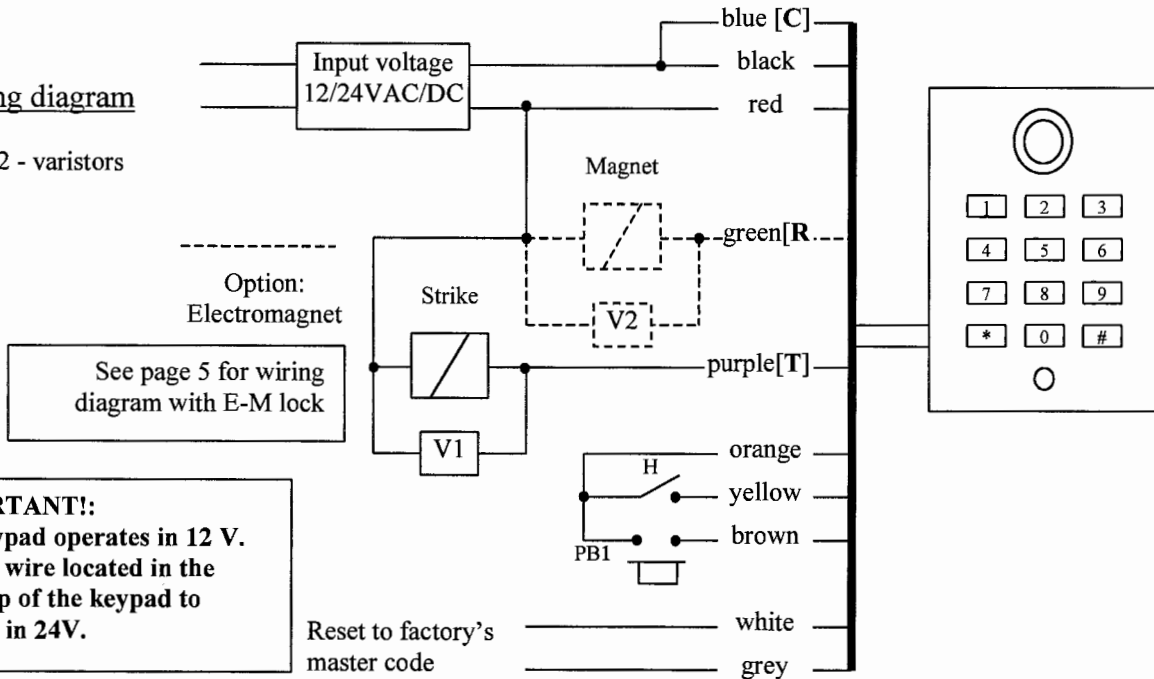
Option:
Electromagnet

Strike

V2

See page 5 for wiring
diagram with E-M lock

purple[T]

V1

orange
H
yellow
brown
PB1

**IMPORTANT!:**
**The keypad operates in 12 V.**
**Cut the wire located in the**
**back top of the keypad to**
**operate in 24V.**

Reset to factory's
master code

white
grey

| Color | Correspondence |
|-------|----------------|
| Black | Input voltage 12/24 V AC or DC |
| Red | Input voltage 12/24 V AC or DC |
| Blue | Relay common |
| Green | Relay normally closed |
| Purple | Relay normally open |
| Orange | Exit and timer (H) common |
| Yellow | Timer contact for external push button |
| Brown | Request-to-Exit push button (PB1) |
| White | Short circuit with the grey to restore the factory's master code |
| Grey | Short circuit with the white to restore to the factory's master code |

This device comes with a varistor. The varistor must be connected to the strike
terminal (or electromagnet) operated by the device.
If this product works with many strikes, each of them should have a varistor. The
varistor controls the overload produced by the strike coil (back EMF).

If you are using a « Shear Lock » electromagnetic lock, it is recommended to use a
separate power supply than the one connected to the CM-100SS.
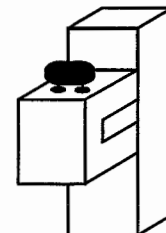
## Technical specifications

| Input voltage | 12/24 V AC or DC |
|---|---|
| Output | 1 relay N.O & N.C contact 6A/250V~ |
| User codes | 5-digit PIN code, 100 user codes programmable by keypad |
| Master code | 5-digit master code |
| User modification code | 2-digit user modification code |
| Exit push button | Request-to-exit push button and 1 external button (operated by the timer contact) |
| Keypad | 12-digit keypad with built-in buzzer (audible signal) |

## Default values

| | |
|---|---|
| Factory's master code: | 12345 |
| Relay time delay: | 1 second in momentary output |
| Key-in keypad: | 10 seconds |
| Programming delay: | 120 seconds (2 minutes) |

## Code length

The master code and user codes must be of 5-digit code.
All the digit keys can be used to program a user code (0 to 9, *and #).
The master code cannot be used as a user code.
Code 00000 is used to delete an existing user code and then cannot be used as a user code.

## External & Exit push buttons

If desired, a Request-to-exit push button can be connected to activate the relay (the mode and the time delay can be programmed).

The timer contact enables to use the external push button:
    timer contact open      - external push button disabled,
    timer contact closed    - external push button enabled.

## Audible signals

| | |
|---|---|
| 1 long beep | User code valide or validation of a data in programming mode |
| 2 short beeps | Entering in programming mode or exit from programming mode |
| 4 short beeps | Invalid user number or invalid code or invalid time delay |

## Setting a new Master Code

1.  Enter the master code twice (for the first use the master code default value is 12345). 2 audible beeps confirm that you are in programming mode.
2.  Enter *2 (modification number of the master code) then the new 5-digit master code. An audible beep indicates the validation of the code.
3.  Press # to exit from the programming mode. 2 audible beeps confirm that you went back to Standby mode.

    4 beeps indicate a data computing error.

## Set the user codes and time delay

1.  Enter the master code twice (for the first use the master code default value is 12345). 2 audible beeps confirm entry into programming mode.
2.  Enter the user number to be programmed (from 00 to 99), and then the 5-digit user code (see programming board on the next page) an audible signal indicates the validation of the code.
3.  Enter *1 (to set the relay time delay), then the time delay in seconds – 01 for 1 second up to 99 for 99 seconds. Enter 00 for a latched output.
4.  Enter *0 (to set key-in keypad delay), then the time delay in seconds – 10 for 10 seconds up to 99 for 99 seconds, an audible signal indicates the validation of the code.
5.  Enter *9 (to set the user modification code) then the 2-digit code, an audible signal indicates the validation of the code.
6.  To exit from the programming at any time press #. 2 audible signals confirm that the keypad is now on standby.

    4 beeps indicate a data error
    The master code cannot be used as a user code.
    The 00000 code is reserved for the cancellation of the existing user codes and then cannot be used as a user code.

## Changing a PIN code by the user

1.  Enter the user code. The relay is activated.
2.  Enter immediately the 2-digit user modification code (for the first use the user modification code default is * and # or A and B). One beep sounds to confirm that you are in programming mode.
3.  Enter the new user code twice. Two audible beeps indicate that the new user code is accepted.
4.  Enter the new user code for testing it. The relay is activated.

If the new user code is not entered correctly, four beeps sound to confirm that the modification is not done.

## Reset to the factory's master code

1.  Short circuit the grey and the white wires
2.  After 4 seconds the factory's master code (12345) replaces the old master code, which was memorized. An audible signal confirms the reset.
3.  Separate and protect the grey and the white wires.

# Setting new user codes

| Master code | | | | | | | Master code | | | | | | | Two beeps |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | ∨ | | | | | | | ∨ | | |

| 00 | | | | | | 01 | | | | | | 02 | | | | | | 03 | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 04 | | | | | | 05 | | | | | | 06 | | | | | | 07 | | | | | |
| 08 | | | | | | 09 | | | | | | 10 | | | | | | 11 | | | | | |
| 12 | | | | | | 13 | | | | | | 14 | | | | | | 15 | | | | | |
| 16 | | | | | | 17 | | | | | | 18 | | | | | | 19 | | | | | |
| 20 | | | | | | 21 | | | | | | 22 | | | | | | 23 | | | | | |
| 24 | | | | | | 25 | | | | | | 26 | | | | | | 27 | | | | | |
| 28 | | | | | | 29 | | | | | | 30 | | | | | | 31 | | | | | |
| 32 | | | | | | 33 | | | | | | 34 | | | | | | 35 | | | | | |
| 36 | | | | | | 37 | | | | | | 38 | | | | | | 39 | | | | | |
| 40 | | | | | | 41 | | | | | | 42 | | | | | | 43 | | | | | |
| 44 | | | | | | 45 | | | | | | 46 | | | | | | 47 | | | | | |
| 48 | | | | | | 49 | | | | | | 50 | | | | | | 51 | | | | | |
| 52 | | | | | | 53 | | | | | | 54 | | | | | | 55 | | | | | |
| 56 | | | | | | 57 | | | | | | 58 | | | | | | 59 | | | | | |
| 60 | | | | | | 61 | | | | | | 62 | | | | | | 63 | | | | | |
| 64 | | | | | | 65 | | | | | | 66 | | | | | | 67 | | | | | |
| 68 | | | | | | 69 | | | | | | 70 | | | | | | 71 | | | | | |
| 72 | | | | | | 73 | | | | | | 74 | | | | | | 75 | | | | | |
| 76 | | | | | | 77 | | | | | | 78 | | | | | | 79 | | | | | |
| 80 | | | | | | 81 | | | | | | 82 | | | | | | 83 | | | | | |
| 84 | | | | | | 85 | | | | | | 86 | | | | | | 87 | | | | | |
| 88 | | | | | | 89 | | | | | | 90 | | | | | | 91 | | | | | |
| 92 | | | | | | 93 | | | | | | 94 | | | | | | 95 | | | | | |
| 96 | | | | | | 97 | | | | | | 98 | | | | | | 99 | | | | | |

| Relay time delay | | | Key-in keypad delay | | | User modification code | | |
|---|---|---|---|---|---|---|---|---|
| * 1 or A1 | | | * 0 or A0 | | | * 9 or A9 | | |

To exit from the programming mode press on #. 2 audible signals confirm that the system reverts to Standby mode.

| Client/Location: | |
|---|---|
| N°: | Street: |
| City: | |
| Other information: | |

blue [C]

black

Input voltage
12 VAC/DC

red

Connect to the strike terminal
V2 varistor

Strike

Purple[T]

V2
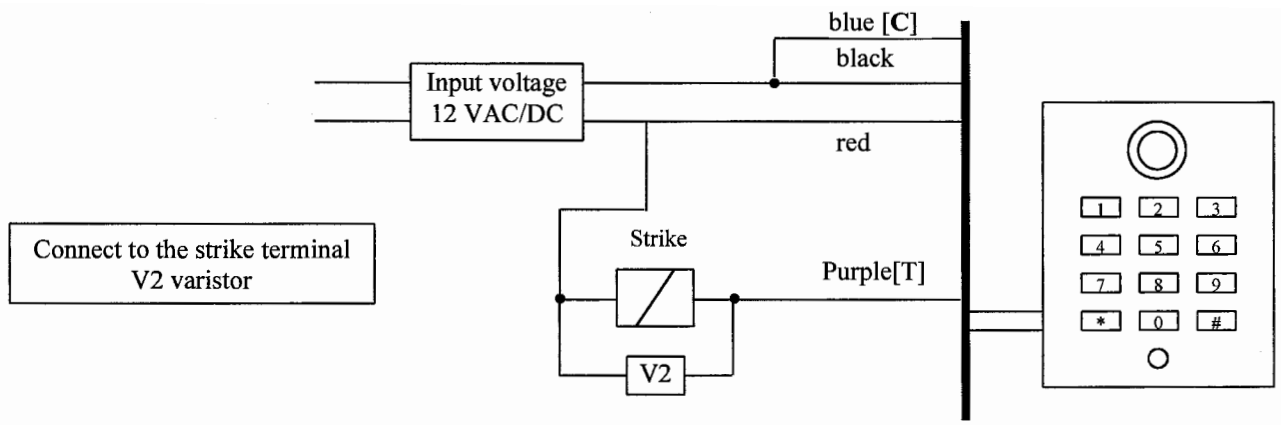
| Blue | Common |
|------|--------|
| Purple | N/O contact door relay |
| Green | N/C contact door relay |

# Template (full size)

53 mm

9 mm

$\Phi$5 mm

$\Phi$5 mm

115 mm

$\Phi$6 mm

$\Phi$12 mm

20 mm

16 mm

16 mm

85 mm
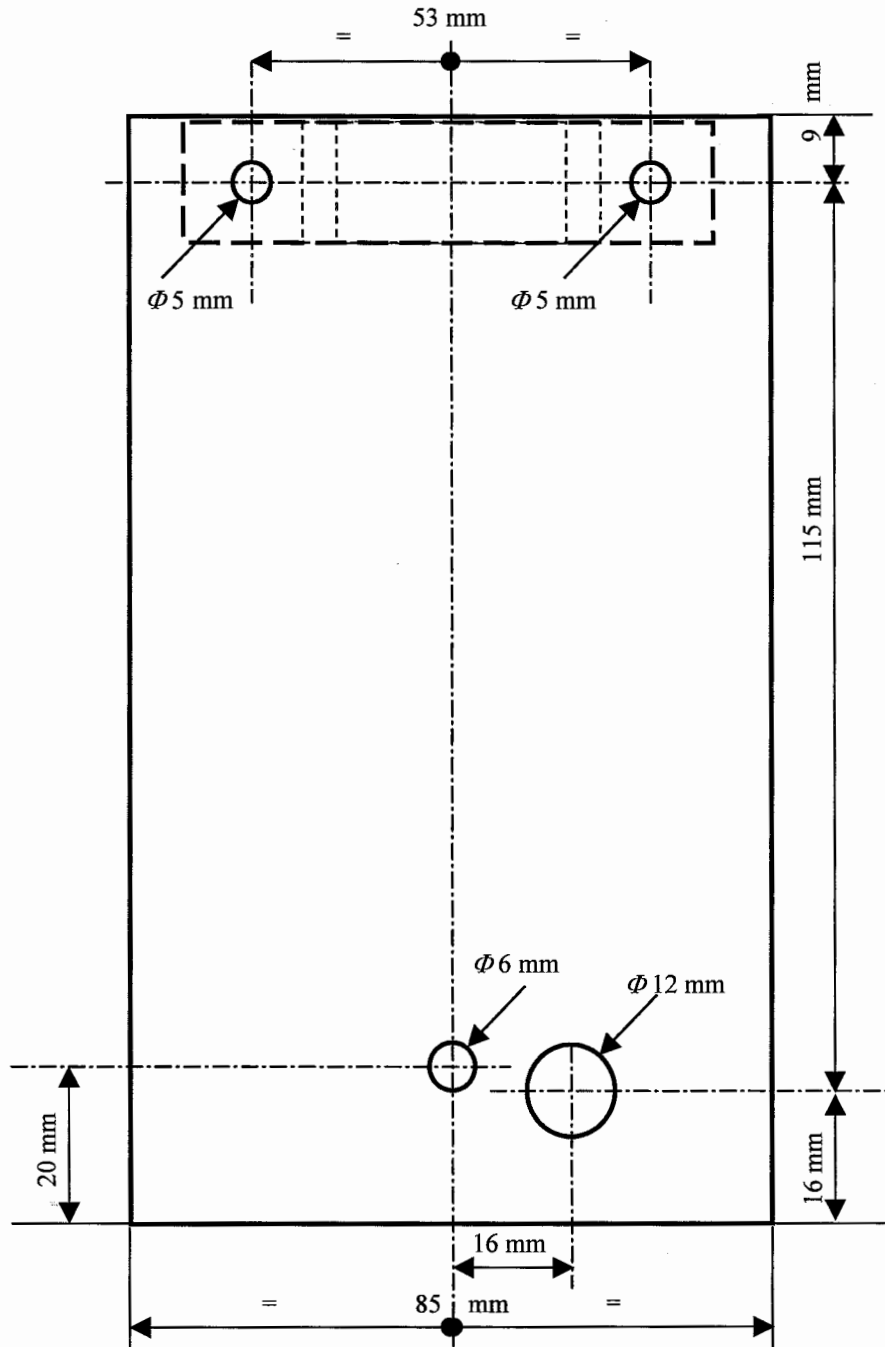
5 mm hole diameter      -To mount the hook support,
6 mm hole diameter      -Hole for the brass anchor,
12 mm hole diameter      -wiring access area.