One Code lock board

The One code lock board is a simple code recognition device for restricting access to authorized people in a secure environment. An unlock code is entered via a keypad, a relay will then operate for a set time permitting access to an operating button or similar. At the same time the relay operates a bleeper sounds.

Power Input

The One code is supplied with a DC voltage. 0V is connected to B- and +V to B+. The supply should be between 18vdc and 30vdc.

Keypad Wiring

The keypad is wired to the circuit board via a 10-way cable. This should be kept as short as possible and in any case not be longer than about 0.5m. If using screened cable connect the screen to 0V at the board end only.

Connections as follows: -

Board terminal	Keypad terminal
1	1
2	2
3	3
4	4
5	5
6	6
7	7
L1	LG
L2	LR
+5	LC

Relay Output

The relay output is shown on the edge connector as: -
N/O   Normally open contact
C   Main contact
N/C   Normally closed contact

Technical Specifications

1.	Supply voltage	+18V to +30V dc
2.	Overall size	18mm X 62mm X 67mm
3.	Default code 1	1,2,3,4
4.	Default code 2	Not programmed
5.	Default code 3	Not programmed
6.	Default code 4 (latching)	Not programmed
7.	Default programming code	1,6,3,1
8.	Default unlock time	5 seconds

Operation

At power-up the unit will perform a short self-test by powering the relay and on board LED for 0.5s. It will also give a short bleep.

If one of the four digit security codes (codes 1 to 4) is entered the unit will unlock for the set time. In the case of code four the unit will remain unlocked for as long as required and will lock again when one of the other codes is entered.

Setting unlock time

Enter the programming code.
Then press the * key a number of times, once for every second of unlock time.
Then press the # key the unit will give a long bleep and the new time will be programmed.

PPPP *** #   gives a three second unlock time (maximum is 250seconds)

Setting security codes

Enter the programming code.
Then press the number key for the code you wish to set.
Then enter the four-digit code required. The unit will give a long bleep and the new code will be programmed.

PPPP 4 5678 gives a new latching code (code 4) of 5678.

To abandon a code change before all four digits are entered, press the # key.

PPPP 4 56# would leave code four unchanged.

Setting programming code

Enter the programming code.
Then press the # key.
Then enter the four-digit code required. The unit will give a long bleep and the new code will be programmed.

PPPP # 5678 gives a new programming code of 5678.

Take care when changing the programming code to make sure it is remembered as once it has been changed there is no easy way if it is forgotten (for security reasons) to return to the original default code.

It is recommended this code is changed during installation from the default and a secure record kept of the new code.

Time out

If an invalid code is entered three times in succession the keypad will lock out for a period of 15 minutes and no codes can be entered during this time.