

Programming the model 200 controller

General

The 10 access codes, lock time etc, are all programmed via the keypad. To prevent unauthorised use, a security key (1 - 8 digits) must be entered.

The basic principle of programming is as follows:

Procedure

- ☞ Enter the security key (1 to 8 digit number).
- ☞ Enter a key sequence on the keypad.
- ☞ Observe both the red and green LEDs flash for one second.
- ☞ When all functions are programmed, exit program mode by pressing ******.

Each program function is described in detail on the following pages.

Programming a New Access Code (Function 1 to 10)

The controller has ten access codes. Each code may be between 1 and 8 digits long.

Procedure

- ☞ Enter the security key.
- ☞ Type : **<1 - 10> * <New Code> #**
- ☞ Red and green LEDs Flash
- ☞ Exit program mode by pressing ******

Examples

1 * 7754#

(code 1 = 7754)

5 * 8652#

(code 5 = 8652)

Choosing an access code

To ensure an adequate level of security it is recommended that a minimum of 4 digits be used for each access code, giving 10,000 combinations. Codes should be chosen carefully to avoid obvious sequences and repetitions (e.g. 12345, 258, 4444) which may be easily guessed or discovered. Try to choose codes with a random appearance (e.g. 6149, 186403) and avoid telephone numbers and other meaningful codes which, again, may be guessed by a would-be intruder. It is also a good idea to regularly change the access codes.

When choosing access codes it is important that no code is a subset of another code, e.g. If code 1 = 234 and the code 2 = 12345, code 2 would never open the door as 234 is a subset of 12345.

Maintenance

It is important also that the keypad be regularly cleaned to remove finger marks which would otherwise give clues as to the keys used in the access code.

Programming the Action Codes (Functions 51 to 60)

Each access code has an associated action number. This is a single digit from 0-9 which determines the action that occurs following the entry of that access code.

Procedure

- ☞ Enter the security key.
- ☞ Type : <51 - 60> * <Action No> #
- ☞ Red and green LEDs Flash
- ☞ Exit program mode by pressing **

Example

51 * 1 #

Code 1:Act No=1
(Operate lock
always)

No	Function	Key Sequence	Factory Setting
51	Code 1 Action Number	51 * <0-9> #	1 (Operate always)
52	Code 2 Action Number	52 * <0-9> #	2 (Operate when Time closed)
53 - 60	Codes 3 to 10 Action Number	53 - 60 * <0-9> #	0 (Disabled)

Action No.	Description
0	No action (code is disabled)
1	Lock operates
2	Lock operates only if Time contacts are closed
3	Lock operates only if Time contacts are open
4	Lock operates followed by alarm (duress code)
5	Lock, followed by alarm (duress code), if the Time contacts are closed
6	Lock, followed by alarm (duress code), if the Time contacts are open
7	Alarm operates
8	Alarm operates only if Time contacts are closed
9	Alarm operates only if Time contacts are open

Changing the Security key (Function 91)

The security key is the code that must be entered on the keypad to gain access to program mode, this is NOT the code to get in the building.

To ensure an adequate level of security it is recommended that a minimum of 4 digits be used for the security key, giving 10,000 combinations.

Procedure

- ☞ Enter the current security key.
- ☞ Type : **91 * <New Key> #**
- ☞ Red and green LEDs Flash
- ☞ Exit program mode by pressing ******

Example

91 * 87305 #

(security key = 87305)

Factory Setting = 1212

Enable / Disable the Lock reassurance tone (Function 92)

This only applies to systems fitted with the 218 Keypad.

In normal operation the sounder in the 218 keypad will make a continuous tone while the lock is operating (including when the lock operates from using an EXIT button or Fireman's keyswitch). In some situations this may become a nuisance, especially if the lock operates for a very long time. The sounder can be turned on or off by following the procedure below.

Note the keypad reassurance beeps will still be heard. If no sound at all is required, disconnect the keypad wire going into terminal 'BZ' on the controller.

Procedure

- Enter the security key.
- Type : **92 * <0/1> #**
- Red and green LEDs Flash
- Exit program mode by pressing ******

Example

92 * 0 #

(Disabled)

92 * 1 #

(Enabled)

Factory Setting = 1 (Enabled)

Setting the Lock Type (Function 93)

This setting tells the controller whether a Fail safe (including Maglocks) or Fail secure lock is connected. Follow the procedure below to change the setting.

Procedure

- Enter the security key.
- Type : **93 * <0/1> #**
- Red and green LEDs Flash
- Exit program mode by pressing ******

Example

93 * 0 #

(Fail secure)

93 * 1 #

(Fail safe)

Factory Setting = 0 (Fail secure)

Programming a Code Entry Time Limit (Function 94)

This limits the time allowed for entry of the correct access code. Timing starts from pressing the first key and if the remainder of the access code has not been entered before this time limit elapses the alarm is activated. The code entry time limit is programmable from 1-99 seconds or this feature is disabled by selecting a time of '0'

Procedure

- ☞ Enter the security key.
- ☞ Type : **94 * <0-99> #**
- ☞ Red and green LEDs Flash
- ☞ Exit program mode by pressing ******

Example
94 * 20 #
(limit of 20 secs)

Factory Setting = 0 (disabled)

NOTE: When the code entry time limit function is disabled the controller will automatically engage a timed memory clear function. If no key has been pressed for 10 seconds all previous entries will be cleared; this is important to ensure that the system cannot be left primed by a partially entered but otherwise correct access code.

Programming The Lock Duration (Function 95)

This is the duration the lock release will operate for when triggered by an access code or by the 'EXIT' input. It is programmable in the range 1-99 seconds.

Procedure

- ☞ Enter the security key.
- ☞ Type : **95 * <1-99> #**
- ☞ Red and green LEDs Flash
- ☞ Exit program mode by pressing ******

Example
95 * 7 #
(7 seconds)
95 * 12 #
(12 seconds)

Factory Setting = 3 seconds

Programming a Lock Delay Time (Function 96)

This function causes a delay (0-99 seconds) to be introduced between the triggering of the lock release and its operation. Typically, this facility is used when the keypad is located some distance from the entrance.

Procedure

- ☛ Enter the security key.
- ☛ Type : **96 * <0-99> #**
- ☛ Red and green LEDs Flash
- ☛ Exit program mode by pressing ******

Example

96 * 3 #

(3 second
delay)

Factory Setting = 0 seconds

Programming The Alarm Duration (Function 97)

The alarm output is triggered by either a duress code or by a repeated entry of an incorrect code. The Alarm duration determines the time for which this output is active before automatically resetting. It is programmable in the range 1-99 seconds.

Procedure

- ☛ Enter the security key.
- ☛ Type : **97 * <1-99> #**
- ☛ Red and green LEDs Flash
- ☛ Exit program mode by pressing ******

Example

#97 * 60 #

(60 seconds)

Factory Setting = 30 seconds

Programming The Key Limit (Function 98)

The key limit determines the number of keys that may be pressed in attempting to enter the correct access code before activating the Alarm. Choose a value which is a multiple of the number of digits in the code e.g for a 4 digit code set the key limit to 12 to allow 3 attempts. To disable this feature program the key limit to 0.

Procedure

- Enter the security key.
- Type : **98 * <0-99> #**
- Red and green LEDs Flash
- Exit program mode by pressing ******

Example
98 * 12 #
(limit 12 keys)

Factory Setting = 0 (disabled)

Programming the Factory Settings from the Keypad (Function 99)

In the event of any problems, always return to Factory settings.

Procedure

- Enter the security key.
- Type : **99 * #**
- Red and green LEDs Flash
- Exit program mode by pressing ******

If you have forgotten the security key see 'Programming the Factory Defaults Using the Test Button' page 46.