

# MiniTech

High security lock for safes



USER INSTRUCTIONS

**M•LOCKS**

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## Important instructions

- Before using the lock, please read the instructions for use carefully.
- The instructions for use only relate to the lock itself and not to how to operate the safe.
- Ensure that you **only** program the lock while the **safe door is open**.
- After changing the code, always try the code several times with the safe door open.
- **Only after several positive function tests (opening / closing) the safe door may be closed.**
- Each key entry is confirmed by an audible tone.
- You have a maximum of 10 seconds for each key entry. If you do not make an entry via the keypad during this period of 10 seconds, the entry procedure will automatically abort. You must then start again from the beginning.
- After entering a valid code, a double signal sounds. An invalid entry will trigger a long tone.
- After entering an invalid code the first attempt, wait 20 seconds before entering the code again.
- If the code is entered incorrectly on four consecutive occasions, the keypad and the lock will be disabled for 5 minutes. During this period, the LED will flash every 10 seconds and you will hear a long tone when attempting to make an entry. Entering an incorrect code on two further occasions after the keypad has been re-enabled will trigger a new keypad lock-out period of 5 minutes. After entering a valid code you have four new occasions to enter the code and open the lock.
- The lock works with a six digit code. Preceded by a two digit ID number.
- **At the time of delivery**, the lock is set to the standard **Manager Code of 123456**. Change this code immediately to your own choice of Manager Code. Do not use personal or other simple data which can easily be found out for your Manager Code
- If needed, the owner of the Manager Code can add up to 48 codes / users. This code must be immediately changed by the user in a code of their own choice. Do not use personal or other simple data for your user code.
- **Users 50 - 59** always have an **override code**. This means that they can always open immediately after entering the first code, even if time delay has been activated.
- Please keep the code always carefully and protect it against improper use by unauthorized persons.
- When typing in your code cover the keypad so no one near you can see your code.
- Depending on the used lock / keypad and the way the lock is installed, there are several ways to open and to close a safe. By example with a lever or by turning the keypad. Please contact your safe supplier for more information about your specific situation.

### **Caution! Don't forget your code, otherwise the lock can not be used anymore!**

- The lock has been designed for use in a temperature range from +10°C to +50°C and a non-condensing humidity range from 30% to 80%.
- It may only be cleaned with a moist cloth (do not use aggressive cleaning agents).
- The lock may only be installed by qualified fitters.
- The lock may not be lubricated.
- Never open the lock housing. If it is necessary to disassemble the hardware, only do so in accordance with the technical instructions. If you fail to do so, the lock may no longer function properly and you will forfeit your right to warranty.

## Information about MiniTech

### Using your keypad

Press any button to power up the keypad.

Automatic power savings: if no operation is performed for 30 seconds the keypad will automatically switch off.

To scroll menu functions press .

To exit from a menu and get back to start menu scroll the functions until the message "EXIT?" and press .

### Shortcuts

Press and hold the button corresponding to the needed function.



-  = Change Manager code (01), users (02-49) and override users (50-59)
-  = Users management
-  = Lock setup
-  = Dynamic codes
-  = Block/unblock the lock
-  = Test mode
-  = Change keypad language
-  = Audit
-  = Firmware release
-  = Time delay
-  = Back to start menu
-  = Master menu



## **Users properties and default codes**

Master: code (default: 1-2-3-4-5-6-7-8).

Manager: code (default: ID: 0-1 code: 1-2-3-4-5-6) or code + Dallas key.

Users 02 - 49: code (default: ID: 0-2 code: 0-2-0-2-0-2, ID 0-3 code: 0-3-0-3-0-3, etc...), code + Dallas key.

Override user 50 - 59: code (default: ID 50 code: 5-0-5-0-5-0), code + Dallas key.

## **Change default codes before operating the lock**

### **Penalty**

Four consecutive wrong codes initiate a four minutes penalty. During this period LCD will display the message "PENALTY" and no operation will be allowed.

### **Time Delay**

Time delay 0-99 minutes; open window 1-19 minutes.

### **Dallas keys**

Available as option for Manager and users (not available for Master).

### **Power supply**

Lock can be powered with an ALKALINE 9V battery, with an internal large battery box (6 ALKALINE 1.5V batteries) or with power supply and dedicated interface.

### **Low battery warning**

A long beep and the message "BATTERY LOW" indicate the battery is low and has to be immediately changed.

### **Audit**

The lock stores the last 5.500 operations with time, date, user and operation. The keypad stores the last 250 operations with time, date, user and operation.

**Never remove lock cover, this voids the warranty.**

## Open the lock

### Manager (01) and users (02-49): open the lock with time delay

Power up the keypad. LCD will display the message:

ENTER CODE  
X X – X X X X X X

Enter Manager or user code and the Dallas key (if set). LCD will show time delay counting.

TIME DELAY  
00:59

If the entered code is wrong LCD will display the message:

WRONG CODE

To stop time delay counting press  and then  to confirm.

STOP TIME DELAY  
COUNTING?

After time delay counting LCD will display open window counting:

OPEN WINDOW  
00:01

Press , LCD will display the message:

ENTER CODE  
X X – X X X X X X

Enter Manager or user code and the Dallas key (if set). Open within three seconds (green led).

OPEN THE LOCK

If the user is set to open in dual mode LCD will display the message:

ENTER 2° CODE  
X X – X X X X X X

Enter second code and the Dallas key (if set). Open the lock within three seconds (green led).

OPEN THE LOCK

### Override users (50-59): open the lock without time delay

Power up the keypad. LCD will display the message:

ENTER CODE  
X X – X X X X X X

Enter override user code and the Dallas key (if set). Open the lock within three seconds (green led).

OPEN THE LOCK

If the user is set to open in dual mode LCD will display the message:

ENTER 2° CODE  
X X – X X X X X X

Enter second code and the Dallas key (if set). Open the lock within three seconds (green led).

OPEN THE LOCK

## Change code

### Manager (01), users (02-49) and override user (50-59)

Power up the keypad. Press and hold . LCD will display the message:

ENTER OLD CODE  
X X - X X X X X X

Enter the **old code** and the Dallas key (if set).

Enter the **new code** and the Dallas key (if set).

ENTER NEW CODE  
X X X X X X

Confirm the **new code** and the Dallas key (if set).

CONFIRM CODE  
X X X X X X

Always perform this operation with the door open.

## Users management

Power up the keypad. Press and hold . LCD will display the message:

USERS MANAGEMENT  
0 1 - X X X X X X

Enter Manager code.

Press  to scroll users list or enter user ID.

02 03 04 05 06  
v x \_ \_ v

"V" user installed, "\_" user deleted, "X" user disabled.

Users 02-49 open with time delay (if set). Override user 50-59 opens without time delay. Override users 50-59 can be only installed when lock is open. Open the lock before install the user.

Press . If the user is not installed LCD will display the message:

02  
INSTALL?

"1\_2" code, "🔑" Dallas key, "+" dual mode, "TL" time lock

Press  to confirm or press  to disable/enable/delete and press  to confirm.

## Lock setup

Lock setup can be performed in two different ways only when the lock is in pre-setup, through a setup Dallas key or directly through a PC connected to the keypad.

## Setup through a Dallas key

Lock setup can be performed in two different ways only when the lock is in pre-setup, through a setup Dallas key or directly through a PC connected to the keypad.

To open a lock in pre-setup press .

PRESS 1 TO OPEN

Power up the keypad. Press and hold . LCD will display the message:

SYSTEM SETUP  
.....

Enter the setup Dallas key into the reader and connect the reader the the keypad through the jack connector. LCD will display the message:

08:00 FRY  
27/01/2006

Check displayed time and date, press  to confirm or  to update the values and then  to confirm. LCD will display the message:

UPLOADING  
.....

If the operation is successfully performed LCD will display the message:

OPERATION DONE

## Setup through a PC

Power up the keypad. Press and hold . LCD will display the message:

PC LINK

Press . LCD will display the message:

PC LINK  
...

Start the programming on the Setup software or press  to exit.

## Dynamic codes

Power up the keypad. Press and hold . LCD will display the message:

DYNAMIC USER  
X X X X

Enter the dynamic user PIN or the Dallas key. LCD will display the message:

DYNAMIC CODE  
X X X X X X X

Enter the dynamic code and press .

Open within three seconds (green led).

If the lock is set to display closing code, LCD will display the message:

CLOSING CODE  
X X X

## Block and unblock the lock

Power up the keypad. Press and hold **4**. LCD will display the message:

BLOCK THE LOCK  
X X – X X X X X X

Enter the requested code.

If weekly Time Lock is set LCD will display the next opening time.

BLOCK LOCK UNTIL  
14/09 08:00

If you want to set a different opening time enter new values (max. 31 days) then press **✓** to confirm.

BLOCK LOCK UNTIL  
DD/MM hh:mm

LCD will display the message:

BLOCK THE  
LOCK?

Press **✓** to confirm. LCD will display the message:

LOCK BLOCKED

The lock can be blocked for maximum thirtyone (31) days.

To unblock a lock previously blocked press and hold **4**. LCD will display the message:

UNBLOCK THE LOCK  
X X – X X X X X X

Enter requested code. LCD will display the message:

OPERATION DONE

Depending on lock setup Master code could be needed: enter Master code.

## Test mode

Power up the keypad. Press and hold **5**. LCD will display the message:

TEST MODE  
1234567890 **➔** v

Enter the sequence of buttons displayed on the LCD.

TEST MODE  
1234567890 **➔** v

Any working button will produce a short beep.

A damaged button will cause a long beep. LCD will display the message.

WRONG/FAULTY  
KEY

## Change language

Power up the keypad. Press and hold . LCD will display the message:

ITALIANO  
1 2 3

Press one of the available numbers to change the language and press  to confirm or press  to exit.

ENGLISH  
1 2 3

## Audit

Keypads and lock events can be checked on the display or can be stored on a Dallas key (up to 1.200 events) previously programmed through the "MiniTech-Audit" software, which will be used also to read the events stored in the same Dalles key.

The audit can also be downloaded directly on a PC (up to 5.500 events), through an USB interface.

### Scroll events on the LCD

Use this function to check all the opening and closing events stored on the lock.

Power up the keypad. Press and hold . LCD will display the message:

LOCK AUDIT  
0 1 - X X X X X X

Enter Manager code. LCD will display the message:

ENTER DALLAS  
...

Press  or wait. LCD will display the message:

PC LINK  
SCROLL EVENTS

LCD will start showing all the opening and closing events stored on the lock.

001:  WED  
28/09 14:42:48

Press  to scroll all the events or  to exit.

### Download the audit on a Dallas key

Power up the keypad. Press and hold . LCD will display the message:

LOCK AUDIT  
0 1 - X X X X X X

Enter Manager code. LCD will display the message:

ENTER DALLAS  
...

Enter the audit Dallas key into the reader. If the operation is successfully performed LCD will display the message:

OPERATION DONE

## Download the audit on a PC

Power up the keypad. Press and hold **1**. LCD will display the message:

```
LOCK AUDIT
0 1 - X X X X X X
```

Enter Manager code. LCD will display the message:

```
ENTER DALLAS
...
```

Press **→** or wait. LCD will display the message:

```
PC LINK
SCROLL EVENTS
```

Press **→**, LCD will display the message:

```
PC LINK
...
```

Start the download on the software or press **→** to exit.

## Firmware release

Power up the keypad. Press and hold **8**. LCD will display the message:

```
MINITECH V 1.00
21/02/12
```

Press **→** to get back to start menu.

## Adjust contrast

Power up the keypad. Press and hold **8**. LCD will display the message:

```
MINITECH V 1.00
21/02/12
```

Press and hold **8** again. LCD will display the message:

```
ADJUST CONTRAST
1 2 3 4 5 6 7 8
```

Press one of the available numbers to change the contrast and press  to confirm or press **→** to exit.

## Time delay

Power up the keypad. Press and hold **9**. LCD will display the message:

```
SET TIME DELAY
0 1 - X X X X X X
```

Enter Manager code. LCD will display current values:

```
TIME DELAY 00
OPEN WINDOW 01
```

Press  to exit or  to set new values.

T.DELAY mm  
O.WINDOW mm

Enter new values and press  to confirm. LCD will display the message:

VALUES UPDATED

Time delay: 00 - 99 minutes. Open window: 01 - 19 minutes.

To set a lower time delay than the current set, lock must be open.

## Master menu

Power up the keypad. Press and hold . LCD will display the message:

MASTER MENU  
X X X X X X X X

Enter Master code. (default 1-2-3-4-5-6-7-8).

## Time and date settings

Access the Master menu and access the function. LCD will display the message:

TIME AND DATE  
SETTINGS

Press . LCD will display current time and date:

08:00 FRY  
27/01/2006

Press  to change time and date.

hh:mm  
DD / MM / YYYY

Enter new values and press  to confirm.

## Time Lock setting

Access the Master menu and access the function. LCD will display the message:

TIME LOCK  
SETTING

### Weekly Time Lock setting - Add new values

Access the time lock menu and access the function. LCD will display the message:

WEEKLY TIME LOCK  
SETTING

Press . LCD will display the message:

ADD NEW VALUES

Press . LCD will display the current day of the week.

🕒 hh:mm FRY  
🕒 hh:mm

Enter first the opening time and then the closing time.

Press  to confirm. LCD will display the next day of the week and propose the same values.

Press  to confirm or  to skip and change day.

At the end of the week LCD will display the message:

END OF LIST  
EXIT AND SAVE? v

Press  to save or  to get back to the first day.

Settings will be saved when  will be pressed. Up to four different periods can be set for each day.

Weekly time lock is an opening time period: the safe door can be opened if you enter a valid code (for ex. opening period from 08:00 to 14:00: the door can be opened from 08:00 to 14:00, but can't be opened at 16:00).

You can enter four different time periods for each day (for ex. MON from 07:00 to 10:00; from 12:00 to 13:00; from 15:00 to 16:00; from 18:00 to 19:00).

Time periods will be saved after confirmation (pressing ).

**It is recommended to set the values with safe door open.**

## Weekly Time Lock setting – Verify or delete values

Access the time lock menu and access the function. LCD will display the message:

WEEKLY TIME LOCK  
SETTING

Press  and then , LCD will display the message:

VERIFY OR  
DELETE VALUES

Press , LCD will display the set values for the first day.

🕒 hh:mm FRI  
🔒 hh:mm

Press  to scroll all the set values.

Press  to delete the set values. LCD will display the message:

DELETE?

v

Press  to confirm or press  to exit.

At the end of the list press .

END OF LIST

## Closing periods setting - Add new values

Access the time lock menu and access the function. LCD will display the message:

CLOSING PERIODS  
SETTING

Press , LCD will display the message:

ADD NEW VALUES

Press , LCD will display the message:

🔒 DD/MM/YY hh:mm  
🔓 DD/MM/YY hh:mm

Enter first closing time and date and then opening time and date. Press  to confirm.

If a value for the year **is set**, this closing period will cease after that date. If a value for the year **is not set**, the closing period will repeat every year.

To cancel entered values, press ➡.

Repeat this procedure for every closing period.

During closing periods the safe's door can not be opened.

Up to 30 opening periods are available for a maximum of fourteen (14) days each.

## Closing periods setting – Verify or delete values

Access the time lock menu and access the function. LCD will display the message:

CLOSING PERIODS  
SETTING

Press  and then ➡, LCD will display the message:

VERIFY OR  
DELETE VALUES

Press , LCD will display the first saved closing period.

🔒 DD/MM/YY hh:mm  
🔓 DD/MM/YY hh:mm

Press ➡ to scroll all the set values.

Press  to delete the set values. LCD will display the message:

DELETE?

v

Press  to delete the LCD values or press ➡ to exit.

At the end of list press .

END OF LIST

## Opening periods setting- Add new values

Access the time lock menu and access the function. LCD will display the message:

OPENING PERIODS  
SETTING

Press . LCD will display the message:

ADD NEW VALUES

Press . LCD will display the message:

🔒 DD/MM/YY hh:mm  
🔒 DD/MM/YY hh:mm

Enter first opening time and date and then closing time and date. Press  to confirm.

If a value for the year **is set**, this opening period will cease after that date. If a value for the year **is not set**, this opening period will repeat every year.

To cancel entered values, press ➡.

Repeat this procedure for every opening period.

During opening periods it will be possible to open the safe's door even if time lock is active.

Up to 30 opening periods are available for a maximum of fourteen (14) days each.

## Opening periods setting - Verify or delete values

Access the time lock menu and access the function. LCD will display the message:

OPENING PERIODS  
SETTING

Press  and then ➡, LCD will display the message:

VERIFY OR DELETE  
VALUES

Press , LCD will display the first saved opening period.

🔒 DD/MM/YY hh:mm  
🔒 DD/MM/YY hh:mm

Press ➡ to scroll all the set values.

Press  to delete the set values. LCD will display the message:

DELETE?

v

Press  to delete the LCD values or press ➡ to exit.

At the end of list press .

END OF LIST

## Audit

### Download the audit on a Dallas key

Use this function to download all keypad and lock events on a Dallas key.

Access the Master menu and access the function. LCD will display the message:

ENTER DALLAS ...

Enter the audit Dallas key into the reader. If the operation is successfully performed LCD will display the message:

OPERATION DONE

## Scroll events on the LCD

Use this function to check all the opening and closing events stored in the lock.

Access the Master menu and access the function. LCD will display the message:

ENTER DALLAS ...

Press  or wait. LCD will display the message:

SCROLL EVENTS  
ON LCD

LCD will start showing all the opening and closing events stored on the lock.

001:  WED  
28/09 14:42:48

Press  to scroll all the events or  to exit.

## Change Master code

Access the Master menu and access the function. LCD will display the message:

CHANGE MASTER  
CODE

Press  and enter the new code.

ENTER NEW CODE  
X X X X X X X X

Confirm the new code.

CONFIRM CODE  
X X X X X X X X

Always perform this operation with the door open.

## Manager Management

Access the Master menu and access the function. LCD will display the message:

MANAGER MANAGEMENT

Press . LCD will display the message:

MANAGER v

"V": Manager installed, "\_": Manager deleted, "X": Manager disabled.

Press . If the Manager is not installed LCD will display the message:

01  
INSTALL?

Press  to confirm or press  to disable/enable/delete and press  to confirm.

## Dynamic codes

Use this function to enable/disable dynamic codes function on the lock. Dynamic codes function can be only enabled when lock is open. Open the lock before enable the function.

Access the Master menu and access the function. LCD will display the message:

DYNAMIC CODES

Press  . LCD will display the message:

STATUS:  
DISABLED (ENABLED)

Press  . LCD will display the message:

STATUS:  
ENABLE? (DISABLE?)

Press  to confirm. LCD will display the message:

OPERATION DONE

Before operating the lock,  
please read this manual thoroughly,  
and retain it for future reference.

**Correct disposal of this product:  
(Waste Electrical & Electronic Equipment)**

Applicable in the European Union and other European countries  
with separate collection systems.

This marking displayed on the product or its literature indicates that  
it should not be disposed with other wastes at the end of its  
working life. To prevent possible harm to the environment or  
human health from uncontrolled waste disposal, please separate  
this from other types of wastes and recycle it responsibly to  
promote the sustainable reuse of material resources.



**M•LOCKS**

Certified ISO 9001 : 2008

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