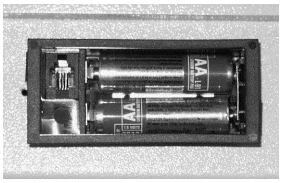
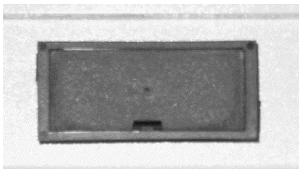
Operating instruction of the electronic lock ZS 54

1 keypad 2



battery compartment



battery compartment lid

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GENERAL GUIDELINES

The lock can be opened by setting a code consisting of 6 digits or 6 letters.
Each pressing of a key is confirmed with a sound and a light signal (diode).
When a valid code is entered, a short and a long tone sounds, when an incorrect code is entered, only a long tone is heard. If there is an interval of more than 30 seconds between entering successive numbers or letters, the operation must be repeated. Programming of the lock must be carried out with the door open and the lock open.

OPENING

a. button *****
b. keys **1-2-3-4-5-6** (factory code)
c. button *****

If the code is entered correctly, the lock will open confirmed by 2 short tones. To open the door turn the handle to the right. In the event of an incorrect code entry, press the **C** button and repeat the code entry.

CLOSING

To close the door, turn the handle to the left and press the **C** button. The locking mechanism will be confirmed by a short beep. If you do not turn the handle exactly to the left, you will hear a short/long tone when opening or closing the door. This means that the lock is not locked. Turn the handle anticlockwise carefully again and repeat the code entry.

Energy saving module

Any task or programming by the user makes the lock active. If no command is entered within 30 s, the lock will enter the energy saving state, aborting the task started. This will be signalled by a short double tone.

Code conversion (master code): with door open and lock open

1. Hold down the * button until you hear 5 short tones.
2. Enter the current code, e.g. production code **1-2-3-4-5-6.**
3. Press the **0** button (to change the master code).
4. Enter a new code.
5. Press the ***** button, a short tone together with a green LED confirms that the code was entered correctly, a long tone together with a red LED indicates that the code was entered incorrectly. In this case, the old code is still valid. To enter a new code, repeat steps 1 to 5.
6. Confirm the new code - press ***.**
7. If the code has been entered correctly (green LED with a short tone), a short beep will be heard 4 times from the lock within approx. 5 seconds, confirming that the other system has accepted the changed code.

With the door open, check whether the lock reacts to the new code (whether the bolt closes, whether the lock is locked).
Only close the door when you are sure of the code you have entered.

IMPORTANT
The lock will only guarantee security if the code entered is not made available to unauthorised persons.

Lockout
After the incorrect code has been entered four times, a long tone will be heard and the red and green LEDs will light up simultaneously. The lock will be locked for 5 minutes, the red LED will flash for another 10 seconds.
If the wrong code is entered again after the lockout time has elapsed, the lockout will be
locking for another 5 minutes. The lock will only be activated after entering the correct code.

Power supply / Battery exchange
The lock is powered by two 1.5 Volt AA size batteries.
The battery compartment is visible when the door is open. Depending on the model of cabinet, the battery compartment is located in the door casing or directly in the middle part. If, when attempting to open the lock, instead of a short double beep a long beep is heard, this indicates that the batteries need to be replaced.
In this case, the batteries should be replaced immediately, otherwise the opening of the lock is not guaranteed after approx. 10 actuations.

Power failure (emergency supply)
If the batteries have run out and the lock will not open, you can recharge it with a 9 V battery. Connect the battery to the gold coloured markings (+ and –) (2) and follow the steps described under "Opening".

Reactivation
If after waiting, you are still unable to operate the lock even though the batteries are not dead, you can operate the lock again by pressing the button (1) on the keypad for three seconds.
This will not delete or change the locking program.

Energy saving mode
Once the code has been entered or programmed by the main user, the lock remains active.
If the keypad is not used within 30 seconds, the lock switches to power saving mode and abandons the task started. This is confirmed by a short double beep.

The entire scope of operation of the safe lock is described with examples on the following pages.

Overview of the S-type safe lock's program points

Program code 0 :	**Change of the master code**
	0 – activates a master code entry
Program code 1 :	**Program, change or delete 9 subcodes**
	1 with 6 digits enters a subcode, without 6 digits blocks subcode
Program code 2 :	**Declares the hotel version I**
	2 – activates the hotel version I
Program code 4 :	**Deletes all subcodes including hotel version**
	4 – erases all subcodes
Program code 5 :	**Declares the hotel version II**
	5 – activates the hotel version II
Program code 6:	**Programming and deleting code connections**
	6 – programs code relations; 1- activates, 0 – blocks code relations.
Program code 7.1 :	**Programming and deleting delayed opening**
	7 – programs the opening delay; 1- activates, 0 – blocks the delayed opening
Program code 7.2 :	**Programming and deleting the time lockout**
	7 – programs the time lockout; 2- activates, 0 – blocks the time lockout

Program code 7.3 : **Programming the opening window**
The opening window is only active in the case of active opening with delayed opening (see 7.1)

Program code 9.1 : **Programming and deleting the automatic locking with door open indication**
9 – programs the automatic locking; 1– activates, 0 – deactivates automatic locking

Program code 9.2 : **Programming and deleting the automatic locking without door open indication**
9 – programs the automatic locking; 2- activates, 0 – deactivates automatic locking

Program code – : **Programming the hotel guest code** (only possible if program codes 2 or 5 have been set)

Appendix 1: **Emergency opening with second independent circuit**

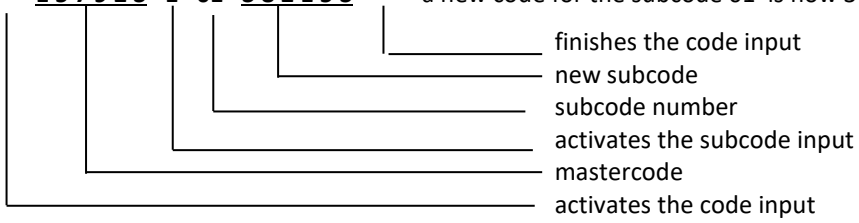
Appendix 2 : **Functions in combination with PC program**

***Programme 1*: Program, change or delete 9 subcodes**

New subcodes can only be activated with the master code. Follow the steps below:

- press and hold the ***** button – the code entry is started and 5 audible and visual signals are given
- enter the current master code (6 digits)
- press the key **1** – activates the entering of subcodes
- enter the subcode number (2 digits) – successively 1 subcode – 01, 2 subcode – 02, up to 99
- enter a new subcode (6 digits)
- press ***** – correct programming will be signalled with the green diode
  – incorrect programming will be signalled with the red diode

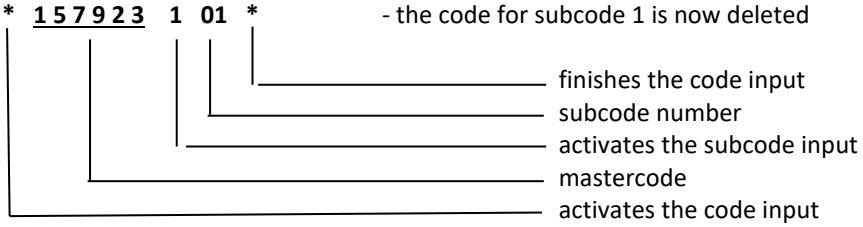
example * **1 5 7 9 2 3 1 01 3 8 2 1 5 3** * – a new code for the subcode 01 is now 3 8 2 1 5 3



Deletion of the subcode can only be carried out with the master code. Perform the following steps:

- press the ***** button – the code entry will be started and signalled with 5 acoustic and optical signals
- enter the current mastercode (6 digits)
- press the **1** key – activates the input of subcodes
- enter the subcode number (2 digits) – successively 1 subcode – 01, 2 subcode – 02, up to 99
- press ***** – correct programming will be signalled with the green diode
  – incorrect programming will be signalled with the red diode

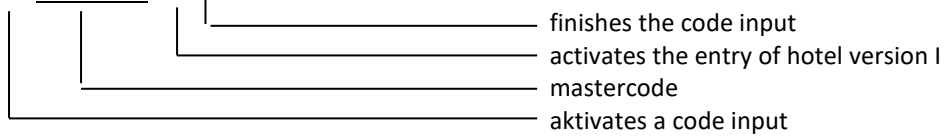
example * **1 5 7 9 2 3 1 01 *** - the code for subcode 1 is now deleted



***Programme 2*: Programming the hotel version I** (mastercode and 1 hotel guest code).
The lock in the open state can be reprogrammed with the master code to hotel version I. The hotel guest can easily enter his personal subcode (see programming the guest code). The lock can be opened by entering the hotel guest code or the master code.
Proceed as follows:

- press and hold down the ***** button – the code entry will be started and signalled by 5 acoustic and optical signals
- enter the current master code (6 digits)
- press the key **2** – activates an entry of the hotel version I
- press the ***** button – correct programming will be signalled with the green diode
  – incorrect programming will be signalled with the red diode

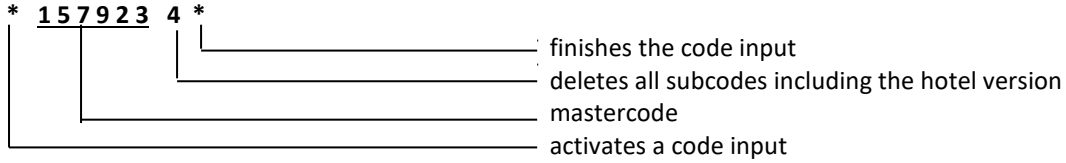
example *** 1 5 7 9 2 3 2 ***



***Programme 4*: Deletes all subcodes including the hotel version** (mastercode, 9 subcodes, 1 hotel guest code).
The lock in the open state can be reversed from the hotel version with the mastercode.
The lock can be reprogrammed with 9 subcodes. To do this, please carry out the following steps:

- press the ***** button – the code entry will be started and signalled by 5 acoustic and optical signals
- enter the current master code (6 digits)
- press the key **4** – deletes all subcodes including the hotel version
- press ***** – correct programming will be signalled with the green diode
  – incorrect programming will be signalled with the red diode

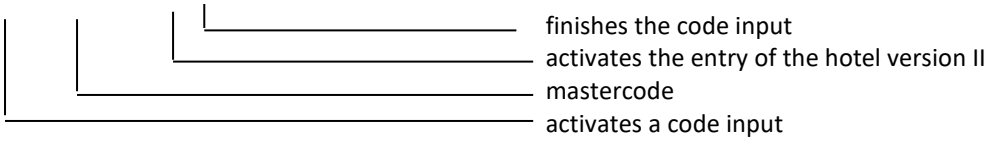
example: *** 1 5 7 9 2 3 4 ***



***Programme 5*: Programming the hotel version II** (mastercode, 9 subcodes, 1 hotel guest code).
The lock in the open state can be reprogrammed with the master code to hotel version II. The hotel guest can easily enter his personal subcode (see programming the guest code).
In the hotel version II it is possible to open the lock with the mastercode, the hotel guest code and any of the 9 sub-codes, as long as this was programmed and made available by the master user. To do so, please proceed as follows:

- press the ***** button – the code entry will be started and signalled by 5 acoustic and optical signals
- enter the current master code (6 digits)
- press the key **5** – activates the hotel version II
- press ***** – correct programming will be signalled with the green diode
  – incorrect programming will be signalled with the red diode

example: * **1 5 7 9 2 3** **5** *

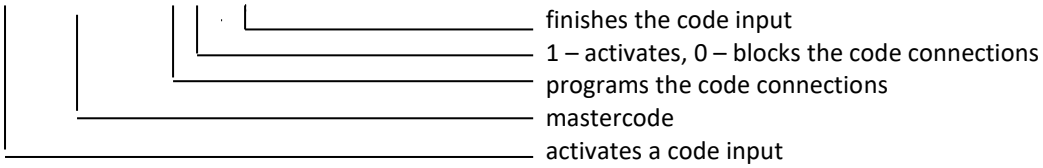


***Programme 6*: Programming and deleting code connections (four eyes principle)**

When open, the lock can be programmed for code linking. In this case it is possible, apart from opening by the mastercode, to open by entering two predetermined subcodes (possible after entering the subcodes).

- press the ***** button – the code entry will be started and signalled by 5 acoustic and optical signals
- enter the current master code (6 digits)
- press the key **6** – activates the code connections
- press 1 or 0 – 1 - activates, 0 – blocks the code connections
- press the ***** button – correct programming will be signalled with the green diode
  – incorrect programming will be signalled with the red diode

example * **1 5 7 9 2 3** **6** **1** *

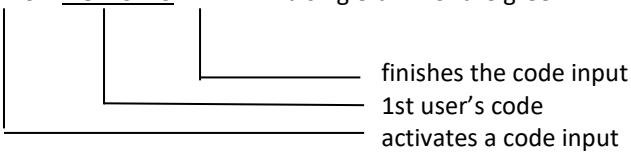


Please note that with active code associations, entering a subcode that is not authorised will delete previous subcodes from memory

Example: opening the lock with active code connections

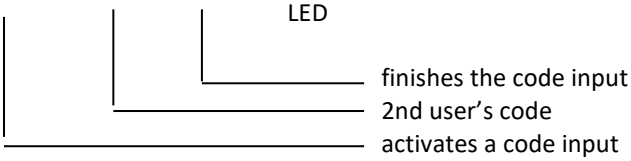
Entering the code of 1st user, e. g.:

*** 01 4 8 7 3 2 3 *** a single blink of the green LED will indicate a correct entry of the 1st user's code



Entering the code of 2nd user, e. g.:

*** 02 3 5 8 3 4 3 *** a proper entry of the 2nd user's code will be confirmed by a single blink of the green LED

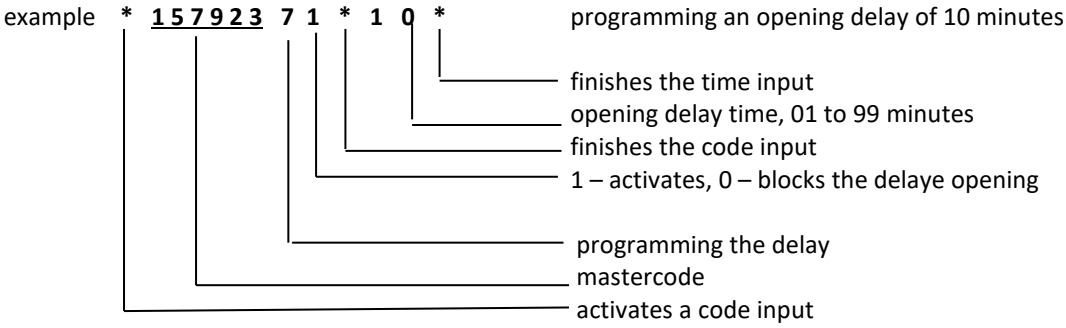


Once both codes have been entered correctly, the lock will be opened.

***Programme 7.1*: Programming and deleting the delayed opening**

In open position, the lock can be programmed to open with a delay of between 1 and 99 minutes.

- press the ***** button – the code entry will be started and signalled by 5 acoustic and optical signals
- enter the current master code (6 digits)
- press the key **7** – initialises the delayed opening
- press **1** or **0** – 1 - activates, 0 – blocks the delayed opening
- press ***** – correct programming will be signalled with the green diode
- entry at blocking – incorrect programming will be signalled with the red diode
- please choose the delay time from 01 to 99
- press ***** – correct programming will be signalled with the green diode



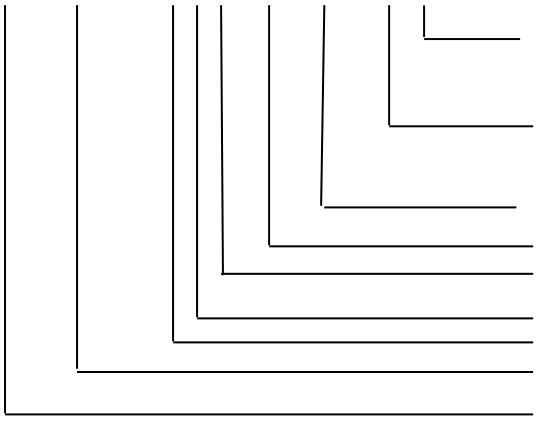
If the opening delay is activated, the lock can only be opened after a valid code has been entered and the set opening delay time has lapsed. The opening delay starts when the master code or a valid subcode is entered and is indicated by red LED flashing 3x and an audible signal. The red LED continues flashing at intervals of 5 seconds. After the locking time has elapsed, the opening window will start (see program 7.3). During this a red LED flashes every 10 seconds and sounds at the same time. During this time you have to re-enter the mastercode or the subcode or, in case of active code associations, the second of the established sub-codes. If there is no code assigned in the opening window, the lock will be deactivated and the time delay entry procedure must be repeated.

***Programme 7.2*: Programming and deleting the time lockout**

When open, the lock can be programmed by the master so that it remains blocked for a period of between 1 and 255 hours. Subsequently, the lock can again be opened with the master code, a valid subcode or two linked subcodes (if subcode connection is enabled). Proceed as follows:

- press the ***** button – the code entry will be started and signalled by 5 acoustic and optical signals
- enter the current master code (6 digits)
- press the key 7 – initialises the delayed opening
- press **2** or **0** – 2 - activates, 0 – blocks the programmed lockout
- press ***** – correct programming will be signalled with the green diode
- entry at blocking – incorrect programming will be signalled with the red diode
- please choose the lockout time from 001 to 255
- press the ***** button – correct programming will be signalled with the green diode

example * 157923 7 2 * 048 * 048 *



A blocking time of 48 hours is started when the lock is closed
finishes the repeat entry of time
repeat entry of blocking time (must correspond to previously entered blocking time)
finishes the blocking time entry
entry of blocking time (between 001 and 255)
finishes the code entry
2 – activates, 0 – erases the blocking
programs the blocking
mastercode
activates the programming of blocking time

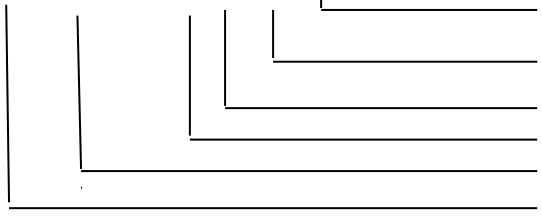
In the event of an incorrect entry, e.g. if the second entry of the blocking time does not correspond to the first one, a long audible signal is issued, and the red and green LEDs are on. The blocking time is not activated and must be entered again.
After the blocking time has been activated and the lock has been closed by pressing the "C" key, it cannot be opened until the entered blocking time has lapsed. The blocking time starts the moment the lock is closed. After the blocking time has lapsed, the green LED flashes and an acoustic signal is issued for 60 seconds. The lock can now – or after a lapse of 60 sec. – be opened with the mastercode or a valid subcode (or two linked subcodes, if subcode connection is enabled). The set blocking time is automatically cancelled and must be reprogrammed by the master user if necessary.

***Program 7.3*: Programming the opening window**

In the case of the delayed opening option, the lock has an "opening window", this is the time that allows the user, after the delayed opening time, to open the lock.
The opening window is programmed for 3 minutes, it can be programmed from 3 to 15 minutes. To do this the following steps must be carried out:

- press the * button – the code entry will be started and signalled by 5 acoustic and optical signals
- enter the current master code (6 digits)
- press the keys 7 and 3 – activates the opening window
- press * – correct programming will be signalled with the green diode
- please choose the opening time from 03 to 15
- press * – correct programming will be signalled with the green diode

example * 157923 7 3 * 05 * – the opening window is set for 5 minutes



finishes the entered time
3 to 15 minutes, opening window time, after the lapse of the programmed opening delay
finishes the code entry
programming the opening window code
mastercode
activates a code entry

***Programme 9.1*: Programming and deleting the automatic locking with door open indication**

The lock in the open position can be programmed by the master for automatic locking. If automatic locking is set, the lock automatically closes after 10 seconds, provided that the safe door is not open. During the 10-second period, a visual and an acoustic signal are issued every 2 seconds. If the safe door is pulled open during the 10-second interval, the lock does not close automatically. If the safe is mechanically locked, the lock will automatically close.
In order to do so, following steps must be carried out:

- press the ***** button – the code entry will be started and signalled by 5 acoustic and optical signals
- enter the current master code (6 digits)
- press the key 9 – activates the automatic locking
- press **1** or **0** – 1 – activates, 0 – deactivates the automatic locking
- press ***** – correct programming will be signalled with the green diode
  – incorrect programming will be signalled with the red diode

example *** 1 5 7 9 2 3 9 1 ***

- finishes the code entry
- 1 – activates the automatic locking,
- 0 – deactivates the automatic locking
- Programs the automatic locking
- mastercode
- activates a code entry

***Programme 9.2*: Programming and deleting the automatic locking without door open indication**

The description of the function – please read 9.1 above. Proceed as follows:

- press the ***** button – the code entry will be started and signalled by 5 acoustic and optical signals
- enter the current master code (6 digits)
- press the key 9 – activates the automatic locking
- press **2** or **0** – 2 – activates, 0 – deactivates the automatic locking
- press ***** – correct programming will be signalled with the green diode
  – incorrect programming will be signalled with the red diode

example *** 1 5 7 9 2 3 9 1 ***

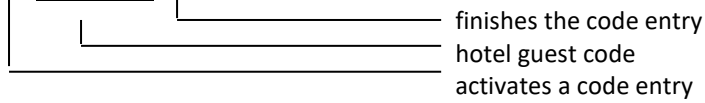
- finishes the code entry
- 2 – activates the automatic locking,
- 0 – deactivates the automatic locking
- programs the automatic locking
- mastercode
- activates a code entry

***Programme –*: Programming the hotel guest code (hotel version)**

If the lock is programmed to hotel version, a guest can entering his/her personal code at the opened position of the lock.

- press the ***** button – the code entry will be started and signalled by 5 acoustic and optical signals
- enter a hotel guest code (6 digits)
- press ***** – correct programming will be signalled with the green diode
  – incorrect programming will be signalled with the red diode

example * **4 8 7 3 2 3** *

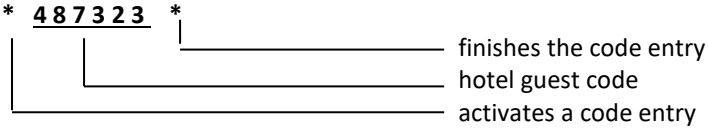


To clear an incorrect entry press the "**C**" key. After correct entry of the guest code, the safe can be closed by pressing the "**C**" key.

example: Opening of safe by a guest

If the guest has been assigned his/her personal guest code, (s)he can open the safe by entering this code:

example * **4 8 7 3 2 3** *



After the correct guest key has been entered and if hotel versions I and II are activated, the safe lock will be opened.

Appendix 1 : Emergency opening with second independent circuit

Emergency opening will only be achieved with the master code. You will hear the signals of the second independent system coming out of the lock.

1. Press and hold the key **I** until a beep is heard
2. Press the button II as many times as the first digit of the code (10 times for zero)
3. Press button III to confirm the digit.
4. Repeat steps 2 and 3 for the next code digits from 2 to 6.
5. Press button I to confirm, if the code is entered correctly you will hear 4 beeps from the lock.
6. Press button II, the lock is activated, this will not be indicated by a signal. The door can now be opened.

Appendix 2 : Functions in combination with PC program

By connecting the lock with a PC or laptop in a suitable program (WIN9x WINME WINNT4 WINXP) the following functions can be read.

1. readout of the last 10 openings of the lock
2. Reading and backtracking to stored event logs
3. Reading and backtracking to stored lock position information
4. adjustment and reading of real-time clock of the lock
5. programming of up to 28 weeks of closing time
6. programming of up to 28 weeks of locking time
7. programming of up to 5 chosen closing times
8. programming of up to 5 chosen locking times
9. activation/deactivation of weekly closing / blocking time
10. activation/deactivation of chosen closing / blocking times.