

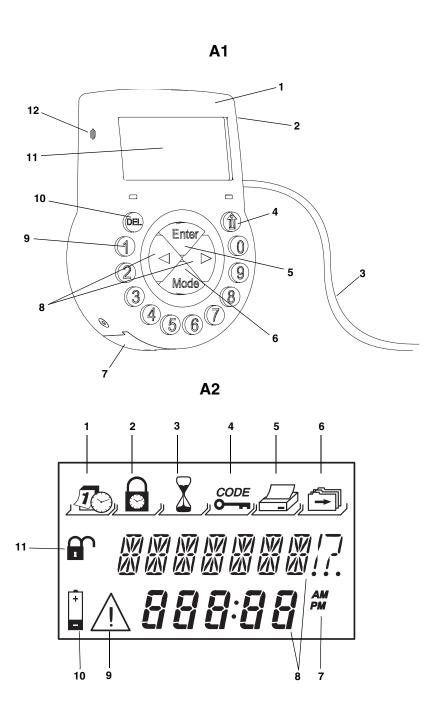
Safe Lock 523 Safe Lock 525

Operating Manual

Document: KSW3s525.0001 / en 2003.04

Edition: April 2003







A3

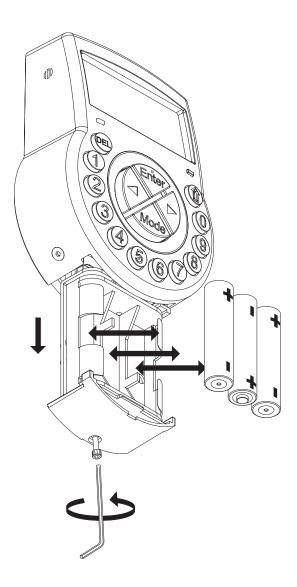




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1 Product description

1.1 Field of application

The Safe Lock 523 and Safe Lock 525 provide a wide range of functions for applications in the high security sector. They permit programming of various codes and code combinations, time related functions as well as storage and recall of a detailed event log (Audit Trial).

This safe lock is especially suitable for ATMs and other applications where high security, multiple users, traceability and flexibility are required.

1.2 Intended purpose

The Safe Lock 523 and Safe Lock 525 serve to block and release the mechanical blocking point of a safe, vault, data cabinet, ATM etc. They are usually activated manually by a boltwork. The Safe Lock 523 and Safe Lock 525 can be employed instead of a mechanical combination or key lock. Applicable regulations and standards have to be observed.

Enabling (lock opening) is only performed upon entry of one or several codes on the Input Unit. The opening procedure can also be made dependent on time functions and/or external signals.

The Safe Lock 523 and Safe Lock 525 may only be employed and operated in accordance with its intended use – blocking and releasing the mechanical blocking points of above mentioned equipment. Any other use is not recommended.

The Safe Lock 523 and Safe Lock 525 are designed for indoor applications (environmentally protected areas) – they are not suitable for direct exposure to environmental impact.

1.3 Model types

Two models are available:

1.3.1 Safe Lock 523

The Safe Lock 523 is an intelligent motor-bolt lock with integrated interface to e.g. an alarm centre. It features a wide range of functionalities, such as a code hierarchy with User Group management, Courier Code, Dual Mode, Duress Code, Time Delay, Time Lock functions, Remote Disabling and a large audit with time/date reference. Operation and programming is done via input unit.

Safe Lock 523 models are equipped with yellow navigation keys.

1.3.2 Safe Lock 525

Featuring the same wide basic range of functionalities as the Safe Lock 523, the Safe Lock 525 can in addition be programmed with Programming Software AS 254 (optionally available). This gives access to an even enhanced functionality and allows customer-tailored solutions to almost every extent.

Safe Lock 525 models are equipped with blue navigation keys.

1.4 Conformity

Please find the Declaration of Conformity on page Z-1.



1.5 Technical data

1.5.1 Functions

Code functions	Safe Lock 523	Safe Lock 525			
Code format	ID+PIN (2-digit ID + 6-digit PIN)	As with Safe Lock 523. Entry sequence can be reversed to PIN+ID (with Programming Software AS 254).			
1 Master Code	8 digits (bearer: e.g. Safety Officer, Head of Security, Shop Owner). Can open alone in Dual Mode.	As with Safe Lock 523. Can be defined as "Master cannot open" (with Programming Software AS 254).			
2 Manager Codes	8 digits each (bearer: e.g. He	ead Cashier, Shift Manager).			
18 User Codes (in 2 groups of 9 each)		spective Master Code (bearer: e.g. Cashier, ssistant).			
1 Courier Code		ng delays (bearer: e.g. Security Guard, CIT er). Opens alone in Dual Mode.			
Code options	Duress Code: Can be performed by any code (if function is activated). Dual Mode: Two codes needed (Master Code and Courier Code can open alone). Code denial: Codes can be admitted/disabled to entire groups.				
Time functions	Safe Lock 523	Safe Lock 525			
Date / Time	Continuous calendar until 2099.				
Summer/winter time (Daylight Saving Time)	n/a	Algorithm (e.g. last Sunday in May), requires Programming Software AS 254.			
Locking periods	16 Weekly Locking Periods, repeated weekly, each up to 7 days long. 22 Holiday Locking Periods, date-related, each up to 35 days long (can be defined as yearly repeatable).				
Immediate Time Lock	Locking with immediate action until nex	kt programmed Weekly Locking Period.			
Time Delay	Programmable fro	m 099 minutes.			
Duress Time Delay	Equals Time Delay	99 minutes (can be changed with Programming Software AS 254)			
Confirmation Window	Programmable fro	m 199 minutes.			
General	Safe Lock 523	Safe Lock 525			
Locking		After 6 seconds. key. After closing of boltwork.			
Event memory	Min. 1200 events, protected again	st manipulation and power failure.			
Shelve Function		et all codes, functions on settings back to values at once.			

1.5.2 Electronics

General	Safe Lock 523	Safe Lock 525		
Power supply	3 Alkaline batteries 1.5 V LR6 (AA, AM3, E91), service life approx. 2 years.			
Memory	Non-volatile (protected	against power failure).		
Display	Iconographic LCD with high contrast. Display language user selectable (German, English, Spanish, French, Italian, Dutch).			
Keypad	Silicone keys (10 numeric, 2	function, 4 navigation keys).		
Interfaces	Safe Lock 523	Safe Lock 525		
Outputs	2 potential free contacts for alarms (30VDC / 2A, 50VAC / 0.5A with resistive load). Output 1: Duress Alarm Output 2: Bolt or motor open	As with Safe Lock 523. Additional alarms programmeable with Programming Software AS 254.		
Inputs	Input 1 (signal-triggered 12VDC / 20mA): Remote Disabling Input 2 (contact triggered): Time Delay Override	As with Safe Lock 523. Programmeable with Programming Software AS 254: Input 1: Remote Disabling (standard setting), Controlled Disabling. Input 2: Door position contact or Time Delay Override.		
Data interface	RS232 (9600 Baud, 8 Bit, 1 Stop-Bit, no parity) for Audit Trial read-out.	As with Safe Lock 523. Connection to Programming Software AS 254.		



1.5.3 Mechanics

Lock					
Dimensions	85 x 61 x 33 mm				
Weight	495 g				
Mounting	3 screws M6 (template 67 x 41 mm)				
Motor bolt	dead bolt (optional: spring bolt)				
Cycle times	opening/closing approx. 2 seconds				
Static resistance force	>1000N in all directions				
Moving force	max. 5N both directions				
Environmental conditions	operation: 0+60°C / storage: -40+70°C				
Service life	>100,000 cycles				
Input Unit					
Dimensions	128 x 90 x 40 mm				
Weight	660 g (including connection cable and batteries)				
Environmental conditions	operation: 0+60°C / storage: -40+70°C / system of protection: IP53				

1.5.4 Approvals and Certificates

Test marks	CE
Patent No.	US 6,434,987 B1; other patents pending
VdS (VdS 2396)	Electronic high-security lock class 2
CEN (ENV 1300)	Electronic high-security lock level B



1.5.5 Factory settings

Function	Factory	Can be ch	nanged via	
Fullction	523	525	Input Unit	AS 254 (opt.)
Display language *1)	Eng	llish	~	~
Master Code	0012345	V	~	
Manager Code (max. 2)	not ac	~	~	
User Code (max. 2 groups of 9)	not ac	~	~	
Courier Code	not ac	tivated	~	~
Duress Code entry	not ac	tivated	~	~
Dual Mode	not ac	tivated	~	~
Number of wrong entries until penalty	4	1	-	-
Penalty upon wrong code entries	5 mir	nutes	-	_
Time Delay	0 minutes (deactivated)	~	~
Duress Time Delay	equal to Time Delay	99 minutes	-	~
Confirmation Window	5 mir	5 minutes		~
Weekly Locking Period	not prog	~	~	
Holiday Locking Period / Repeated Holiday Locking Period	not prog	~	~	
Date / time	01.01.20	~	~	
Time format (12/24HRS)	24 1	~	~	
Summer/winter time (Daylight Saving Time)	n/a	not programmed	-	~
Input 1 *2) (connections 5 and 6)	Remote	Disabling	-	~
Input 2 *3) (connections 7 and 8)	Time Delay Override	_	-	~
Output 1 *4) (connections 3 and 4)	Duress alarm		-	~
Output 2 *4) (connections 1 and 2)	bolt or motor open		-	~
Remote Disabling	not activated		~	~
Code format	ID+	-	~	
Buzzer volume	hi	-	~	
Buzzer every 30 seconds while lock open	0	-	~	

Table 1: Factory settings

Remarks:

- *1) Dutch, English, French, German, Italian, Spanish can be selected.
- *2) Input 1 is signal-triggered (12V / 13mA).
- *3) Input 2 is contact-triggered.
- *4) Relay contacts 1 and 2 are working contacts (NO, normally open) with default factory settings.



Information on this documentation 2

2.1 Symbols and informatory notice

Warning messages / notice / information

Depending on type of endangerment particular symbols, notice and designations will be used. They normally contain a message, a commentary and a description of how to avoid the current danger or how to continue.

Please take note of these notice to safely manipulate the system components and to immediately work with this documentation.



Warning!

Indicates a hazard which can cause damage to the unit or have a serious effect on the function or use of the unit if unobserved.



Important!

Indicates important information which must be observed during the described procedure.



Indicates notes, information or pointers, which facilitate work or provide additional background information or point out specific details.



Requirement!

Indicates requirements that must be met for the execution, activation, modification or deletion of the described function. These requirements must be met before proceeding.



Safe Lock 523

Indicates information regarding module type Safe Lock 523.



Indicates information regarding module type Safe Lock 525.



Programming Software AS 254

Refers to the Programming Software AS 254 (optionally available), which allows parameterization of settings and functions.



Navigation aids

The mentioned illustration A... can be found as from page A-2, at the front of the manual.



The mentioned illustration Z... can be found as from page Z-5, at the end of the manual.

2.1.3 Text markings

- The character "7" stands for "see", "refer to" or "also consult". Sample: For description of Master Code 75.1 Codes on page EN-14.
- Text appearing on the display is marked in caps and set into quotation marks. Sample: "LOCKED".
- · Keys to be used are marked in bold caps:

DEL = Delete key

NUMERIC = Numeric keys 0...9

INFO/ESC = Information/Escape key

ENTER = Enter key

MODE = Mode key

LEFT = Left arrow key

RIGHT = Right arrow key



3 Installation and Connection

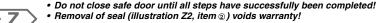
Important!



Information and remarks

Please observe the following:

- Compliance to described sequence is a necessity. Improper assembly or different sequence may cause damage to the unit!
- To avoid any damage make sure to keep cables away from moving parts! Do not lead cables over sharp edges!



- Removal of seal (illustration Z2, item 2) voids warranty!
- Removal of sticker (illustration Z2, item 1) voids VdS approval!
- For VdS conformity lock must not be mounted directly behind leadthroughs! Clog or secure leadthroughs correspondingly.

3.1 Preparations and checks

Check content of package. Included are

- Input Unit
- · Connection cable
- 3 batteries

- · Plastic bag containing installation material

3.2 Installation of Input Unit

Mount base plate

- Remove screws (1 at battery compartment, 2 at cover) at lower end of Input Unit.
- Lift-off cover from base plate and remove battery compartment.



- Mark either bores ① ② ④ or ① ③ ⑤ (fixation) and bore ⑥ (cable leadthrough) using template (illustration Z1).
- 4 Drill 3x Ø3.2x14mm and 1x Ø10mm. Remove burrs. Tap 3x M4 threads.
- Mount base plate with 3 enclosed M4x12 screws.

Connect cables

- Lead connection cable through Ø10mm bore and carefully draw it through door towards lock chamber.
- 7. Mount battery compartment in place and check for free movability.



- Lead battery cable through strain relief guides of battery compartment and base plate (picture Z3). Make sure not to squeeze cable!
- Position cover on top of base plate in >90° angle (picture Z4).
- 10. Plug battery cable into terminal **BATTERY J3** (picture Z5).
- 11. Plug connection cable into terminal LOCK J2 grey wire (gr) facing right (picture

Mount cover

- 12. Engage cover at notch on top of base plate.
- 13. Slowly flip down cover onto base plate while carefully pulling connection cable towards the lock chamber. Make sure that cables are not squeezed.
- 14. Push battery compartment carefully into place.
- 15. Carefully slide out battery compartment again until it catches at limit stop to check for free movability.
- 16. Fix cover on base plate using two M3x6 Allen screws.
- 17. Repeat step 15 to check for proper moveability.



3.3 Installation of lock



Mount lock

- 1. Mark 3 bores using template (illustration Z2).
- Drill Ø5mm. Remove burrs. Tap M6 threads.
- Mount lock with 3 enclosed special M6x10 screws with head Ø7.7mm. Make sure that screw heads rest on base of shouldered bore! Make sure to keep space underneath lock clear for relocker system or connection cable!
- Be aware, that removal of sticker voids VdS approval! If lock is to be operated in spring bolt function, remove retainer bolt underneath VdS sticker (illustration Z2, item ①).
- If needed, use 2x M4 threads at front end of lock bolt to attach an extension.Observe maximal moving force of 5N in both directions (illustration Z2).

Connect cable

- Plug connection cable into lock socket grey wire (gr) facing away from terminal block.
- 7. Plug-in cable tie holder (picture Z6).
- 8. Secure any excess cable with cable tie.

Perform wiring check

- 9. Carefully slide out battery compartment until it catches at limit stop.
- Insert 3 enclosed batteries (3x AA mignon, Alkaline type) according to markings in receptacles – observe polarity!

A test routine is initiated:

1st Full display appears.

2nd Software version of Input Unit is displayed.

3rd "BAT-CMP OPEN" is displayed and "BEEP signal" sounds.

 Close battery compartment and confirm message with factory set Master Code (00123456). Lock status (e.g. "Open" or "Locked") must be displayed.



Important! Error messages

If message "LINE OFF" appears, connection cable is either connected incorrectly or it was damaged during installation. Do not continue installation!

- Check for correct connection of cable if OK, proceed as follows:
- Disconnect cable and get new one.
- Proceed as described under section 3.2 Installation of Input Unit on page EN-8.
 For other error messages 77.1 Error messages on page EN-29.



3.4 External connections



If desired, connect external signals at lock terminal block. Refer to below table and illustrations Z7 (terminal layout), Z8 (door contact) and Z9 (Controlled Disabling).

Terminal Description		Capacity / Remarks				
N	Note: Function and polarity can be changed with optional Programming Software AS 254.					
1/2	Output 2 std.: Bolt or motor open	30 VDC/2A, 50 VAC/0.5A with resistive load.				
3 / 4	Output 1 std.: Duress alarm	Relay with potential free working contacts (NO, normally open).				
5(-) / 6(+)	Input 1 std.: Remote Disabling, opt.: Controlled Disabling	12 VDC (min. 20mA)				
7/8	Input 2 std.: Time Delay Cancellation (Safe Lock 523) / not assigned (Safe Lock 525) opt.: Door contact	Do not apply any voltage – potential free contact only! Recommendation: Suitable micro switch with gold-plated contacts for 12 VDC/50mA (e.g. "DB series" by Cherry).				

3.5 Commissioning

- 1. Close and secure battery compartment using enclosed M3x6 Allen screw.
- 2. Open lock by entering factory set Master Code (00123456).
- 3. Confirm with ENTER. Lock opens "Open" is displayed.
- Close lock (without closing the door!) by pressing DEL or by activating the connected door contact.
- 5. The unit is now ready for programming and operation.



4 Operating and display devices / operating modes

4.1 Operation and display elements

- 4

4.1.1 Input Unit (illustration A1)

- 1. Housing
- Interface for Audit Trial read-out or PC connection
- Connection cable to lock
- 4. INFO/ESC key (activate info display or escape/go back to upper level)
- 5. ENTER key (enter, confirm)
- MODE key (activate Programming Mode)
- 7. Battery compartment
- LEFT / RIGHT (directional keys to navigate)
- 9. NUMERICS (10 numeric keys 0...9)
- 10. DEL (delete, close lock)
- 11. LCD (liquid crystal display)
- 12. Buzzer

4.1.2 Display (illustration A2)



- 1. Menu TIME (to set time/date)
- 2. Menu PROG (to program Locking Periods)
- 3. Menu DELAY (to program Time Delays)
- Menu CODE (to modify codes)
- 5. Menu AUDIT (to read-out Audit Trial)
- 6. Menu MISC (to access additional settings)
- 7. Time format (12/24 Hrs.)
- 8. Text lines
- 9. Symbol "Warning"
- 10. Symbol "Replace batteries"
- 11. Symbol "Lock open" (unlocked) or "Lock closed" (locked)



Note!

Menu selection

The menus are only accessible in Programming Mode.

To enter Programming Mode 76.2 Operating on page EN-18.

4.2 Buzzer signals

Buzzer signal	Display	Cause
1 short beep		key stroke
1 short, low-frequency beep	REFUSED	action refused
1 short beep every 60 seconds	WAIT	Time Delay or Duress Time Delay active
3 short beeps every 60 seconds	CONF	Confirmation Window active (waiting for confirmation code after elapse of Time Delay)
10 short beeps every 10 seconds	BAT-CMP OPEn	battery compartment has been opened
10 short beeps every 30 seconds	OPEN	lock open

Table 2: Buzzer signals



Programming Software AS 254

Buzzer signal during "OPEN" can be deactivated, buzzer volume can be set to high or low.



4.3 Status messages

During normal operation following messages can occur:

OCKED 10:53AM

Locked 4.3.1

The lock is mechanically closed - the current time is displayed. It may be opened by entering a valid code.

OPEN

4.3.2 Open

The lock is mechanically open. The boltwork or the safe door can be opened during a time window of 6 seconds. If the boltwork is not opened, the lock automatically closes after 6 seconds.

TL LOCK 10:53AM

4.3.3 Time lock (Weekly)

The lock is in a Weekly Locking Period or in Immediate Locking and cannot be opened - the current time is displayed. It may only be opened by entering a valid code once the programmed Locking Period has elapsed.

HOLIDAY 10:53AM

Time lock (Holiday)

The lock is in a Holiday Locking Period and cannot be opened – the current time is displayed. It may only be opened by entering a valid code once the programmed Locking Period has elapsed.

WAIT 0:59

4.3.5 **Time Delay**

After entering a valid code to open the lock the programmed Time Delay starts counting down - the remaining time is displayed. A "BEEP signal" is emitted every 60 seconds. Once the counter has reached 00:00, the end of the Time Delay is indicated with another "BEEP signal".

Remark:

If an attempt to activate Programming Mode is made or **DEL** is pressed, the Time Delay is reset and the lock automatically returns to "locked" status. The Courier Code overrides a Time Delay.

CONF 2:18

4.3.6 Confirmation after elapse of Time Delay

Once Time Delay has elapsed, within a programmed time window the same code must be entered again as confirmation. The remaining time allowance to enter the code is displayed. An "BEEP signal" is emitted every 60 seconds. If the code is not confirmed, the lock automatically returns to locked status once counter reached 00:00.

Remark:

With Dual Mode during Time Delay proceed as follows: Repeat both codes for confirmation, whereby the sequence is irrelevant.

CODE 2

4.3.7 **Dual Mode**

If Dual Mode is activated, 2 codes must be entered to open the lock. Entering of second code is requested with this message.

Master Code and Courier Code override the Dual Mode - the lock can be Remark:

opened without any additional code.

PENALTY 3:52

4.3.8 Penalty after wrong trials

A time penalty of 5 minutes is initiated after the fourth consecutive incorrect code is entered upon opening or programming. During this period no code entries are accepted, neither bypassing nor cancellation is possible. The remaining penalty time is displayed.

RMT-DIS

4.3.9 Remote Disabling

Local opening of the lock can be disabled by a remote signal. While Remote Disabling is active this message is shown while the lock is closed.



DENIED

4.3.10 Identification with denied code

Codes can be denied with a superior code, i.e. declared as invalid until possible further repermission. Identification with a denied code is answered with this message. The selected function is not executed, the lock condition remains unchanged. This message is also displayed upon attempting to open with Master Code if "Master cannot open" is set.

STOP ? 437

4.3.11 Audit Trial

The last 1200 events (e.g. opening, closing, programming operations etc.) are stored in the lock's power-failure proof memory. These data can be read-out (special cable and software optionally available) and viewed on an external computer. During output of the event data this message is displayed.

ONLINE

4.3.12 Connected with Programming Software

While the lock is connected to an external computer (Programming Software AS 254 optionally available) this message is displayed. The Input Unit is not operative, all keys are disabled.

BAT-CMP OPEn

4.3.13 The battery compartment has been opened!

If the battery compartment, which also serves as a dismounting protection for the Input Unit, has been opened. This message appears when

- · lock is open while battery compartment is open, and when
- lock is locked and the battery compartment has been opened and closed again.

The message can only be deleted by entering a valid Master Code or Manager Code.

4.4 Operating modes

4.4.1 Normal operation mode

Normal mode for opening/closing operation. All programmed functions are carried out, alarms will be supported and forwarded, diagnose is carried out and possible errors are displayed with a message.

4.4.2 Programming mode

Mode to alter factory set parameters and to change settings, codes etc. Depending on programming level different codes are required.

4.4.3 Information menu

The information is accessed by pressing the INFO/ESC key in status menu level (uppermost menu level, first menu level). Pressing INFO/ESC will initiate an 6 second auto-display showing...

- · opening counter,
- battery level (% of nominal capacity),
- Code entry format (ID+PIN or PIN+ID).

Remark: Pressing INFO/ESC again will move one step ahead.



5 Operation

5.1 Codes

5.1.1 Code hierarchy and entry formats

For operation and programming Master Code, Manager Codes, User Codes and Courier Code are available. Each code consists of an 8 digit number set together of an **ID** (identification) **and** a **PIN** (Personal Identification Number).

- The ID (2 digits) is pre-defined and identifies the code type.
- The PIN (remaining 6 digits) can be individually chosen.



lote! ID+PIN or PIN+ID format

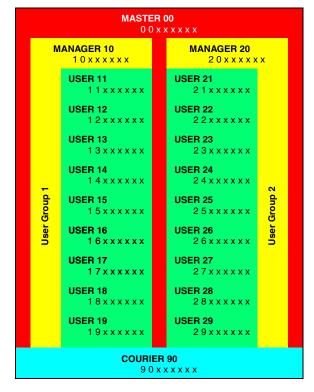
With the Programming Software AS 254 the sequence to enter a code can be changed from ID followed by PIN to PIN followed by ID.

Through the entire description of this manual the code format ID+PIN format (ID followed by PIN) is used.



Programming Software AS 254

Entry format ID+PIN can be changed to PIN+ID. Information on code format used is available with INFO/ESC key (74.4.3 Information menu on page EN-13).





5.1.2 Code types

The factory set Master Code 0 0 1 2 3 4 5 6 is identical on all locks of this type, and therefore not suitable for daily use.

Upon initialization and testing the Master Code must be changed from factory set value and set to individually selected values.



Important! Personalization of codes

During commissioning and start-up of the unit all codes must be personalized.

Never use any simple combination of numbers (e.g. 11223344, 12345678) or personal data (e.g. birthdays). For safety reasons, codes should be altered at regular intervals!

5.1.2.1 Master Code

The Master Code is the highest code within the code hierarchy. It cannot be deleted.

Factory setting: 00123456

Functions: Opening the lock (even alone in Dual Mode)

Alteration of all codes

Accessing full range of function



Programming Software AS 254

The Master Code can be defined as "cannot open the lock". Thereupon, entering the Master Code for lock opening is confirmed with the message "DENIED" – the lock does not open.



Warning! Lost codes

Lost codes can only be deleted and redefined with a higher-level code.

Please take note, that a lost Master Code can neither be located nor restored under any circumstances. There is <u>no</u> so called "Override code" or "Super code"!

5.1.2.2 Manager Codes

2 Manager Codes (Manager Code 1, Manager Code 2) are available. Each Manager Code can administrate a group of User Codes.

Factory setting: no code assigned
Functions: Opening the lock

Alteration of own Code

Activation, deletion and alteration of subordinated User Codes

Denial and permission of subordinated User Group Alteration of Time Delay and Confirmation Window Activation of Immediate Time Lock function Activation and deactivation of Dual Mode function

5.1.2.3 User Codes

A total of 18 User Codes in 2 groups of up to 9 each can be defined. User Codes can be defined even if no Manager Code is active.

Factory setting: no code assigned
Functions: Opening the lock

Alteration of respective User Code

5.1.2.4 Courier Code

1 Courier Code can be provided to personnel filling/emptying secured containers (CIT (Cash-In-Transit Services)) without any programmed Time Delays being of relevance.

Factory setting: no code assigned

Functions: Opening the lock (even alone in Dual Mode) by bypassing Time Delay

Alteration of Courier Code

5.1.3 Shelve Function

All codes, parameters and data (e.g Locking Periods, Time Delays etc.) are reset to factory settings. Audit Trial and opening counter remain unchanged. This function is only available if Programming Mode is accessed with Master Code.



5.1.4 Duress Code

If the lock is connected to an external alarm system, a silent duress alarm (unnoticeable for the aggressor) can be initiated by the operator.

To trigger a duress alarm, the value 1 has to be added or deducted to the last digit of the code. Duress alarms can be initiated with all code types at any time.

Entering the Duress Code for each lock opening starts the programmed Duress Time Delay.



Requirement! Enabling/disabling Duress Code

Duress Codes are recognized only if this function is enabled by the Master Code (76.4.6.3 Submenu DURESS (enabling Duress Code function) on page EN-27).



Important! PIN+ID format

With PIN+ID entry sequence changes.

To trigger a duress alarm, value 1 has to be added or deducted to the first digit of the code!



Note! Duress status period

After entering a Duress Code, the duress status is maintained until the lock has been opened once with a non-duress code!



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Duress Time Delay can be set independent (longer or shorter) of Time Delay.



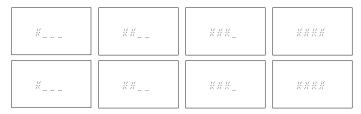
Safe Lock 523

With the Safe Lock 523 there is no Duress Time Delay available. Time delay remains the same if Duress Code is entered.

5.2 Code entry

Codes are entered in 2 groups of 4 digits. To enter a code proceed as follows:

- 1. Kev-in the first 4 digits of the code.
- 2. Continue by keying-in second 4 digits of the code.
- 3. Complete code entry by pressing ENTER.





ote! Diverting manoeuvre

During code entry a possible observer can be diverted. Only **the first 7** and **the last** entered digit will be considered as a code.

- Enter your code as usual (at least the first 7 digits) and keep on adding any combination as desired.
- Enter the last digit of your code and press ENTER.

5.3 Opening procedure

Display switches off automatically after 3 minutes without any key being pressed.

1. Wake-up display by pressing any key. Status message appears.



- Enter code with NUMERICS. An asterisks appears for every digit entered.
- 3. If unit is set to Dual Mode enter second code.
- 4. Open lock by confirming with ENTER.
- Open container.
- If desired continue in Programming Mode (7as from page EN-18).



ote! Denied opening

Opening is not possible during following conditions:

- Penalty after wrong trials (Apage EN-12).
- During active Locking Period (⊅page EN-12).
- During Remote Disabling is in process (₱page EN-12).
- Active connection with the Programming Software (Apage EN-13).

5.4 Closing procedure

The lock normally closes automatically when the boltwork is closed.



Note! Additional closing options

Depending on the safe design the closing procedure can be made dependent on additional factors.

Contact the supplier of the safe or consult section 3 Installation and Connection on page EN-8.



6 Programming

6.1 Menus and submenus

Following menus and corresponding submenus are available in Programming Mode:



Menu TIME (to set time/date)

Submenus: "TIME", "DATE", "AM/PM"



Menu PROG (to program Locking Periods)

Submenus: "WEEKLY", "IMM-TL", "HOLIDAY"



Menu DELAY (to program Time Delays)

Submenus: "T-DELAY", "CNF WIN"



Menu CODE (to modify codes)

Submenus: "MASTER", "MANAGER", "USER", "COURIER", "SHELVE"



Menu AUDIT (to read-out Audit Trial)

Submenu: "START ?", "YES" and "NO"



Menu MISC (to access additional settings)

Submenus: "CDE DEN", "RMT-DIS", "DURESS", "DUAL", "LANG"

6.2 Operating

6.2.1 Activate Programming Mode

- 1. Open lock (75.3 Opening procedure on page EN-16).
- 2. Press MODE.
- 3. Enter code.
- 4. Confirm with ENTER.

Programming Mode is now activated. Selectable menus according to entered code are displayed.

6.2.2 Navigate in Programming Mode

- 5. Scroll with LEFT and RIGHT to desired menu.
- Confirm selection with ENTER.

Menu is now open. First submenu is displayed.

- 7. Scroll with LEFT and RIGHT to desired submenu.
- Confirm selection with ENTER.
 Settings or functions are now displayed.

6.2.3 Change settings in Programming Mode

- To program individual settings and functions follow the corresponding description as described as from Chapter 6.4 Programming procedures on page EN-20.
- 10. Perform programming procedures.
- Move with LEFT and RIGHT to "YES / NO" or "ON / OFF", then press ENTER to store selected setting.
- 12. Saving of data is confirmed with a correspondingly displayed message.



6.2.4 Quit Programming Mode

 Press ESC. Next higher menu level is displayed.

6.2.5 Exit

14. Press MODE and confirm with ENTER

press ESC until Programming Mode is escaped.

Display switches off automatically after 1 minute without any key being pressed.



Important! Loss of data
Any changes which have not been confirmed with "Accepted" will be lost!

6.3 Access rights

Depending on lock status and code used upon activating Programming Mode following entries and settings can be made:

Function		Authorization				ck	Remarks
Function	MA	Mx	U	С	0	С	Hemarks
Set Date	~				~		
Set Time	~				~		
Set Time format	~				~		
Set Weekly Locking Period	~				~		
Activate Immediate Time Lock function	~	>			~		
Set Holiday Locking Period / repeated Holiday Locking Period	~				~		
Set Time Delay	~	~			~		
Set Confirmation Window	~	~			~		
Change Master Code	~				~		Master Code cannot be deleted!
Change Manager Code	~	~			~		
Delete Manager Code	~				~		Respective User Codes will not be deleted!
Change Courier Code	~			~	~		
Delete Courier Code	~				~		
Delete User Codes	~	~			~		
Change User Code	~	~	~		~		User can only change own code!
Employ Shelve Function	~				~		
Read-out Event Memory	~				~	~	
Deny/permit subordinated codes	~	٧			~		Entire group of User Codes will be denied/permitted!
Activate/deactivate Remote Disabling	~				~		
Activate/deactivate Duress Code	~				~		
Activate/deactivate Dual Mode	~				~		
Change Display Language	~				~		

Table 3: Access rights

Legend: MA Master Code

Mx Manager Code 1, 2

U User Code C Courier Code o open

c closed



6.4 Programming procedures



Requirement! Preconditions

Following criteria must be fulfilled to enable programming:

Lock must remain open during entire programming procedure.



Important! Auto switch-off

After an operating pause of 1 minute the display will be turned off – Programming Mode will automatically be exited. Any unsaved entries will be lost!

While programming, make sure to strike any key within 1 minute.



6.4.1 Menu TIME (to set time/date)

Submenus: "TIME", "DATE", "AM/PM"

6.4.1.1 Submenu TIME (changing time)

Authorization: Master Code

- 1. Select submenu "TIME".
- 2. Press ENTER. Currently set time appears.
- Enter time using NUMERIC. After each number cursor moves automatically one digit to the right. If needed scroll LEFT and enter again.
- Confirm with ENTER.



Note! Time format

Possible entries depend on AM/PM setting (₹6.4.1.3 Submenu AM/PM (setting time format) on page EN-20).

If AM/PM is activated, time must be entered in 12-Hour-Format (e.g. 14:25 as 02:25 PM). The suffix AM or PM can be selected with RIGHT.

6.4.1.2 Submenu DATE (changing date)

Authorization: Master Code

- 1. Select submenu "DATE".
- Press ENTER. Currently set date appears
- Enter month (January=01, February=02, ... December=12) and day with 2 digits, year 4 digits using NUMERIC. After each number cursor moves automatically one digit to the right. If needed scroll LEFT and enter again.
- 4. Confirm with ENTER.



Note! Date/time display

Within the display navigation between day, month and year is performed with **LEFT** and **RIGHT**. Respective weekdays and leap years are automatically calculated.

- · Execute changes at flashing digit.
- Select date of internal calendar between Jan-1-2002 and Dec-31-2099.

6.4.1.3 Submenu AM/PM (setting time format)

Authorization: Master Code

- Select submenu "AM/PM".
- 2. Select either "ON" or "OFF" by scrolling with LEFT / RIGHT.
- Confirm with ENTER.



Note! Time format

Entry formats depend on selected time format.

- With "ON" time is displayed in 12-Hour-Format (1:00 12:59 with suffix AM (ante meridiem = before noon) or PM (post meridiem = after noon).
- With "OFF" time is displayed in 24-Hour-Format (00:00 23:59).





6.4.2 Menu PROG (to program Locking Periods)

Submenus: "WEEKLY", "IMM-TL", "HOLIDAY"

6.4.2.1 Submenu WEEK (programming Locking Periods)

Up to 16 weekly repeated time windows can be defined, during which the lock cannot be opened (e.g. outside business opening hours).

Authorization: Master Code

6.4.2.1.1 Adding a Weekly Locking Period

1. Select submenu "WEEKLY".

If any Locking Periods are already programmed, beginning of first Locking Period will appear.

2. **LEFT** or **RIGHT** until "<--+->" is displayed.

Note: If total number of Locking Periods (max. 16) is exceeded "<x x x x x x>" will appear.

- 3. Press ENTER.
 - Use NUMERICS for day (Monday=1, Tuesday=2, ... Sunday=7) and time.



Note: The "loci

The "lock closed symbol" indicates the start of a Locking Period, the "lock open symbol" indicates its end.

Confirm with ENTER.



Note!

Formats, limitations and restrictions

- Weekly Locking Periods can last 1 minute to 6 days, 23 hours and 59 minutes.
- Between two Weekly Locking Periods a time gap of at least 1 minute must be observed.
- Between two Locking Periods opening must be possible. Therefor time gap must be larger than programmed Time Delay (or Duress Time Delay, if larger) plus Confirmation Window.
- Time entry depends on the AM/PM setting (ħpage EN-20).
- Weekly Locking Periods are saved in chronological order, starting with Monday.
- Navigate between programmed Weekly Locking Periods using LEFT and RIGHT.

6.4.2.1.2 Changing an existing Weekly Locking Period

- Select submenu "WEEKLY".
- Press ENTER.
- 3. LEFT and RIGHT until start of the Weekly Locking Period you wish to alter.
- Press ENTER.
- Use NUMERICS for day (Monday=1, Tuesday=2, ... Sunday=7) and time to set start. Skip entries you wish to keep with RIGHT.
- Confirm with ENTER. End of the Locking Period is displayed.
- 7. Use NUMERICS or RIGHT as above and confirm with ENTER.

6.4.2.1.3 Deleting an existing Weekly Locking Period

- Select submenu "WEEKLY".
- 2. Press ENTER. Start of the first programmed Weekly Locking Period is displayed.
- 3. LEFT and RIGHT until start of the Weekly Locking Period you wish to delete.
- Press DEL.



6.4.2.2 Submenu IMM-TL (programming Immediate Time Lock)

The function permits activation of a Locking Period with immediate action. Upon closing the lock **cannot** be opened until the next programmed Weekly Locking Period has elapsed. Example: For shorter business hours due to public holiday, the time until beginning of the regular Locking Period can be bridged.

Authorization: Master Code or any Manager Code

- Select submenu "IMM-TL".
- Press ENTER.

6.4.2.3 Submenu HOLIDAY (programming Holiday Locking Periods)

The function permits defining of up to 22 date-related time windows, during which the lock cannot be opened (e.g. during holidays or on public holidays).

Authorization: Master Code

6.4.2.3.1 Adding a Holiday Locking Period

- 1. Select submenu "HOLIDAY".
- Press ENTER.

Note: If any Locking Periods are already programmed, beginning of first Locking Period will appear.

- 3. **LEFT** or **RIGHT** until --+-- is displayed.
- Press ENTER.
- Use NUMERICS for month (January=01, February=02, ... December=12), day and year to set start. Skip entries you wish to keep with RIGHT.
- 6. Confirm with ENTER. End of the Locking Period is displayed.
- 7. Use NUMERICS or RIGHT as above.
- 8. Confirm with ENTER.

i

Formats, limitations and restrictions

- Holiday Locking Periods last from 00:00:00 (12:00 AM) of the first day until 23:59:59 (11:59:59 PM) of the last day.
- Maximum duration of a Holiday Locking Period is limited to 35 days.
- Between two Holiday Locking Periods a time gap of at least 1 day must be observed.
 Exception: Feb 28th March 1st due to leap year.
- · Holiday Locking Periods are saved in chronological order.
- During an active Holiday Locking Period previously programmed Weekly Locking Periods (76.4.2.1 Submenu WEEK (programming Locking Periods) on page EN-21) have no effect – the Holiday Locking Period is simply overlaid.



Note! Hints and Tips

- Entering "0000" for both, starting and ending year will repeat the Holiday Locking Period every year.
- If the end date of a yearly repeated Holiday Locking Period is to be last day of February, it is recommended to set it to February 29th in order to include leap years as well.

6.4.2.3.2 Changing an existing Holiday Locking Period

Proceed as described for adding a new Holiday Locking Period ($\mathbf{7}$ 6.4.2.3.1 Adding a Holiday Locking Period on page EN-22). Instead of "<--+-->" select the Holiday Locking Period you wish to alter and overwrite it.



6.4.2.3.3 Deleting an existing Holiday Locking Period

Proceed as described for deleting a Weekly Locking Period (7page EN-21).



Important!

Automatic deletion upon completion

Once elapsed, Holiday Locking Periods are automatically deleted!

This also applies if the date is accidentally set to a future date and then reset to a date in the past!



6.4.3 Menu DELAY (to program Time Delays)

Submenus: "T-DELAY", "CNF WIN"

6.4.3.1 Submenu T-DELAY (programming Time Delay)

Once a valid code is entered, the lock only opens when the programmed delay time has elapsed. The delay can be set between 0 (deactivated, no Time Delay) and 99 minutes. Seconds are not taken into account.

Authorization: Master Code or any Manager Code

6.4.3.1.1 Changing Time Delay

- Select submenu "T-DELAY".
- 2. Press ENTER. Current Time Delay duration appears.
- Use NUMERICS to set duration.
- 4. Confirm with ENTER.

6.4.3.1.2 Deactivating Time Delay

Proceed as described above. Set delay duration to 00:00.



Note! Factory setting / Override by Courier Code

- Upon delivery Time Delay is deactivated (00:00).
- · When the Courier Code is entered to open the lock, no Time Delay is not executed.



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An additional so-called "Duress Time Delay" can be programmed. It can be longer or even shorter than a normal Time Delay.

It is also possible to suppress the Time Delay with an external signal (see section 1.5.2 Electronics on page EN-4 "Inputs"). This allows to open the lock (e.g. to empty ATMs) without Time Delay.

6.4.3.2 Submenu CNF WIN (programming Confirmation Window)

To prevent the lock from automatic opening once a Time Delay has elapsed, the same code has to be entered again within a certain time window.

Authorization: Master Code or any Manager Code

6.4.3.2.1 Changing the Confirmation Window

- Select submenu "CNF WIN".
- Press ENTER. Current value is displayed.
- Use NUMERICS to set duration.
- Confirm with ENTER.



Note! Factory setting / Limitations

- Upon delivery Confirmation Window is set to 5 minutes.
- Confirmation Window value must be set 1...99 minutes (can not be disactivated).





6.4.4 Menu CODE (to apply and modify codes)

Submenus: "MASTER", "MANAGER", "USER", "COURIER", "SHELVE"

The following table shows the authorizations of codes to perform modifications (for an overview of available code types and their respective formats 7page EN-14).

Master Code	Manager Codes	User Codes	Courier Code	can be modified by owner of
С	ACD	ACD	ACD	Master Code
-	С	ACD	1	respective Manager Code
-	-	С	-	respective User Codes
-	1	ı	С	Courier Code

Table 4: Possible code modifications

Legend: A Activate C Change D Delete

6.4.4.1 Submenu MASTER (programming Master Code)

Authorization: Master Code
1. Select submenu "MASTER".

- Press ENTER.
- 3. Select "YES" and confirm with ENTER.
- 4. Use **NUMERICS** to enter new code (observe entry format **7**page EN-14).
- 5. Confirm with ENTER. "CONFIRM" is displayed.
- 6. Use NUMERICS to confirm new code.
- Confirm with ENTER.

6.4.4.2 Submenu MANAGER (programming Manager Codes)

Authorization: Master Code or respective Manager Code

- 1. Select submenu "MANAGER".
- Press ENTER.
- If authorization with Master Code: LEFT and RIGHT to the Manager you wish to alter (Manager Codes already activated are displayed by "USED"). Press ENTER.
- 4. Select "YES" and confirm with ENTER.
- 5. Use **NUMERICS** to enter new code (observe entry format **⊅**page EN-14).
- 6. Confirm with ENTER. "CONFIRM" is displayed.
- 7. Use **NUMERICS** to confirm new code.
- Confirm with ENTER.

6.4.4.3 Submenu USER (programming User Codes)

Authorization: Master Code or respective User Code

If authorization with User Code proceed directly to step 6.

- 1. Select submenu "USER".
- 2. Press ENTER.
- LEFT and RIGHT to the User you wish to alter (User Codes already activated are displayed by "USED").
- 4. Press ENTER.
- 5. Select "YES" and confirm with ENTER.
- Use NUMERICS to enter new code (observe entry format ¬page EN-14).
- Confirm with ENTER. "CONFIRM" is displayed.
- 8. Use NUMERICS to confirm new code.
- 9. Confirm with ENTER.



6.4.4.4 Submenu COURIER (programming Courier Code)

Authorization: Master Code or Courier Code

If authorization with Courier Code proceed directly to step 3.

Select submenu "COURIER".

- Press ENTER. Activated Courier Code is displayed with "USED". Select "YES" and confirm with ENTER. If no Courier Code is programmed (",----") is shown.
 Press ENTER again.
- 3. Use **NUMERICS** to enter new code (observe entry format **⊅**page EN-14).
- Confirm with ENTER. "CONFIRM" is displayed.
- Use NUMERICS to confirm new code.
- Confirm with ENTER.

6.4.4.5 Submenu SHELVE (employing Shelve Function)



Important! Shelve Function

Employment of the Shelve Function will erase all codes and will set all parameters, such as Time Delay, Time Lock function, Dual Mode, display language, inputs, outputs etc. to factory set values. Time/date, time format, opening counter and Audit Trial will remain unchanged.

- · Before continuing, be aware that all data will be lost!
- Saving data with Programming Software AS 254 prior shelving is recommended!
- Take note that codes cannot be saved!

Authorization: Master Code

- 1. Select submenu "SHELVE".
- Press ENTER.
- Select "YES" and confirm with ENTER.

6.4.4.6 Changing a code

Authorization: 75.1 Codes on page EN-14

- 1. Select submenu "CODE".
- Press ENTER.
- LEFT and RIGHT to the code type you wish to alter. If the Programming Mode was entered with a higher level code, press ENTER again and use LEFT and RIGHT to the code you wish to alter and press ENTER again.
- 4. Select "YES" and confirm with ENTER.
- 5. Use **NUMERICS** to enter new code (observe entry format **⊅**page EN-14).
- 6. Confirm with ENTER. "CONFIRM" is displayed.
- 7. Use NUMERICS to confirm new code.
- 8. Confirm with ENTER.

6.4.4.7 Deleting a code

Authorization: 75.1 Codes on page EN-14

- Select submenu "CODE".
- 2 Press ENTER
- LEFT and RIGHT to select code type you wish to delete. If the Programming Mode was entered with a higher level code, press ENTER again and use LEFT and RIGHT to the code you wish to delete.
- Press DEL.
- 5. Select "YES" and confirm with ENTER.



Note! Limitations

- · The Master Code cannot be deleted.
- Upon deletion of a Manager Code the corresponding group of User Codes remain unchanged and will not be deleted.





6.4.5 Menu AUDIT (to read-out event memory)

Authorization: Master Code

Precondition: This operation can also be executed while lock is closed.

- Select submenu "START?".
- Confirm with ENTER.

Remark: The actual content of the event memory is now output via the serial interface to a logging device (e.g. PC, printer).

 The following is shown on the display: "STOP?". The event data are output. The number of output events is showed continuously on the display.

To quit press **DEL**, **INFO/ESC** or **ENTER** again. When all events have been output, the message "DONE" appears.



6.4.6 Menu MISC (to access additional settings)

Submenus: "CDE DEN", "RMT-DIS", "DURESS", "DUAL", "LANG"

6.4.6.1 Submenu CDE DEN (programming Code Denial)

A higher-level code can deny access for lower-leveled codes until possible re-permission. As an example, "Off-Duty-Shifts" can be locked out and reassigned again once they start their shift

An entire User Group (with or without its corresponding Manager Code) can be declared invalid.

Authorization: Master Code or any Manager Code

- 1. Select submenu "CDE DEN".
- 2 Press ENTER
- 3. LEFT and RIGHT to desired User Group or Manager.
- 4. Confirm with ENTER.
- Select "ON" for denial (access not authorized) or "OFF" for permission (access authorized) and confirm with ENTER.

6.4.6.2 Submenu RMT-DIS (programming Remote Disabling)

Operation of the closing lock can be inhibited by an external signal. This function can e.g. be employed when additional identification (e.g. badge, biometrics) is desired or to prevent opening during certain circumstances (e.g. when alarm system is armed).



Note! Limitations

The function is not active when lock is open – lock can then be operated normally.

Authorization: Master Code

- 1. Select submenu "RMT-DIS".
- Press ENTER.
- Select "ON" for activation (Remote Disabling possible) or "OFF" for deactivation (Remote Disabling not possible) and confirm with ENTER.



6.4.6.3 Submenu DURESS (enabling Duress Code function)

If the lock is connected to an external alarm system, a silent duress alarm (not noticeable for the aggressor) can be triggered (75.1.4 Duress Code on page EN-16).

Duress Codes are recognized if this function has been enabled by the Master Code.

Authorization: Master Code

- 1. Select submenu "DURESS".
- Press ENTER.
- Select "ON" for activation (Duress Code entry possible) or "OFF" for deactivation (Duress Code entry not possible) and confirm with ENTER.



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Duress Time Delay can be set independent (longer or shorter) of Time Delay.

6.4.6.4 Submenu DUAL (enabling Dual Mode)

The lock can be set to require 2 codes for opening. It can be employed when only 2 persons together are supposed to be able to open the lock.

Authorization: Master Code

- Select submenu "DUAL".
- 2. Press ENTER.
- Select "ON" for activation (Dual Mode active) or "OFF" for deactivation (Dual Mode not active) and confirm with ENTER.

Following code combinations for opening in Dual Mode are possible:

If no Time Delay is programmed
Codes to open the lock
MASTER
MANAGER and MASTER
MANAGER and COURIER
2 MANAGER
MANAGER and USER
USER and MASTER
USER and MANAGER
2 USER
USER and COURIER
COURIER

If a Time Delay is programmed					
Codes to open the lock					
MASTER					
MANAGER and MASTER					
MASTER					
MANAGER and COURIER					
COURIER					
2 MANAGER					
MANAGER and USER					
USER and MASTER					
MASTER					
2 USERS					
USER and COURIER					
COURIER					
-					

Table 5: Possible code combinations in Dual Mode



Note! Limitations

- Once Time Delay has elapsed, both codes must be entered again for verification codes can be entered in any sequence.
- · Master Code and Courier Code can open the lock without any second code.
- If Master Code or Courier Code is entered first, no second code will be required upon confirmation.



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Master Code can be defined as "cannot open". If so, it can neither be used to open the lock nor to start the Time Delay. Message "DENIED" is shown instead. However, if only one operable code is programmed in Dual Mode, Master Code can open, though!



6.4.6.5 Submenu LANG (changing display language)

By default the system language is set to English. If desired other languages can be selected.

Authorization: Master Code

- 1. Select submenu "LANG".
- 2. Press ENTER. Selection "ENGLISH" is displayed.
- 3. Use LEFT or RIGHT to select desired language. Press ENTER to confirm.



7 Maintenance

7.1 Error messages

Operating errors, false entries or possible defects can result in error messages. Their significance and most possible cause are described in table below.

Display	Menu	Submenu	Cause
BAT-CMP OPEN			Battery compartment has been opened.
LINE OFF			Connection between lock and Input Unit is interrupted.
ID ERR	CODE	MASTER MANAGER USER COURIER	ID is not "00" ID is not "10" or "20" ID is not "11…19" or "21…29" ID is not "90"
REFUSED	CODE	MASTER MANAGER USER COURIER	Code change: Code entered did not match the code entered first.
	PROGR	IMM-TL	No Weekly Locking Period programmed.
REFUSED 04	after confirmation of an entry in Programming Mode		Lock is closed (programming possible with lock open only!)
REFUSED 08	TIME	DATE	Invalid date (e.g. Sep 31st). Date out of limit (Jan 1st 2002 until Dec 31st 2099).
	PROGR	WEEK	Time window too long (max. 6 days, 23 hours, 59 minutes).
	PROGR	HOLIDAY	Time window too long (max. 6 days, 23 hours, 59 minutes) End date before start date Invalid date (e.g. Sep 31st) Date out of limit (Jan 1st 2002 until Dec 31st 2099)
REFUSED 16	PROGR	WEEK	Minimum interval (pause) of 1 minute until start of next Weekly Locking Period ignored. Also observe delay / confirm window limits.
	PROGR	HOLIDAY	Minimum interval (pause) of 1 day until start of next Weekly Locking Period ignored. Also observe delay / confirm window limits.
	PROGR	DELAY	Observe delay / confirm window limits in relation to Weekly and Holiday Locking Periods.
REFUSED 32	PROGR	WEEK	Memory full (max. 16 Weekly Locking Periods)
	PROGR	HOLIDAY	Memory full (max. 22 Holiday Locking Periods)
MOT FLT			Fault during bolt movement. Reboot unit by removing batteries for one hour and inserting new batteries.
HDW FLT			Hardware fault: Proceed as with MOT DEF.
OVFLW AUdit			More than 1200 events occurred within the last 7 days, therefore manipulation is suspected. Only Master Code or Manager Codes confirmation. For opening Courier Code stays valid, all User Codes are denied. Proceed with Read-out Audit Trial. Set clock close before midnight. Let clock run over midnight. Set clock back to actual time.
VERSION Err			Input Unit and lock are not compatible. They bear different versions.

Table 6: Error messages



7.2 Servicing

7.2.1 Replacing batteries

The Safe Lock 523 and 525 models are powered by 3 1.5 Volt ALKALINE batteries (type AM3, AA) with a service life of approximately 2 years.



Batteries must be replaced once the "battery low symbol" appears (battery voltage below approx. 4.05...4.10V). The lock remains fully operational until the battery voltage drops below a further limit which enables operation until battery replacement. However, the internal lock functions continue until the voltage finally drops below the value required for correct operation.



- 1. Release center screw on the bottom side of Input Unit (illustration A3).
- 2. Carefully slide out battery compartment until it catches at limit stop.
- Remove and replace all 3 batteries. Observe polarity!
- 4. Slide battery compartment back in and fix it with the screw. A "BEEP signal" sounds.
- 5. Confirm message "BAT-CMP OPEN" by entering Master Code or a Manager Code.



Warning! Power-out for more than 20 minutes

If the lock is without power for more than approximately 20 minutes the internal clock will cease. All other settings are saved in a power-failure proof memory.

To set time anew the Master Code will be required!



Important! Disposal of used batteries

Used batteries must be handled with caution and disposed separately.

Return used batteries to vendor. Please observe national regulations.

7.2.2 Cleaning

If necessary, clean external parts of the Input Unit with a soft, damp cloth and a mild detergent. Do **not use** solvents.

7.3 Customer Service

Should any functional errors or operating problems occur, please contact your agent or the customer service department (refer to rear cover of this manual for contact details).

7.4 Spare parts and accessories

Following items are available:

Description	P/N
Programming Software AS 254 (including cable)	AS 254
Cable RS232 for Audit Trial output	F 675
Operating Manual	KSW3s525.0001
Quick Operation Guide MANAGER	KSW3s525.0002
Quick Operation Guide USER	KSW3s525.0003



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Declaration of Conformity

according to 89/336/ECC and 73/23/ECC

Manufacturer: Kaba AG

Address: Mühlebühlstrasse 23

POBox

CH-8620 Wetzikon, Switzerland

declares, that the product:

Product names: Safe Lock 523

Safe Lock 525

Model numbers: --

Product options: n/a

conforms to the following product specifications:

EN 50081: 1992

EN 55022: 1994 - Class B

EN 50130-4: 1995

IEC 1000-4-2: 1995 / Level 3 IEC 1000-4-3: 1995 / (adapted) IEC 1000-4-5: 1996 / (adapted) IEC 1000-4-11: 1994 / Level 3

Supplementary information:

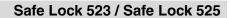
The product herewith complies with the regulations of the Low Voltage Directive 72/23/EEC and the EMC Directive 89/336/EEC.

CH-8620 Wetzikon, April 2002

Pierre Pellaton

Manager Safe Lock Technology

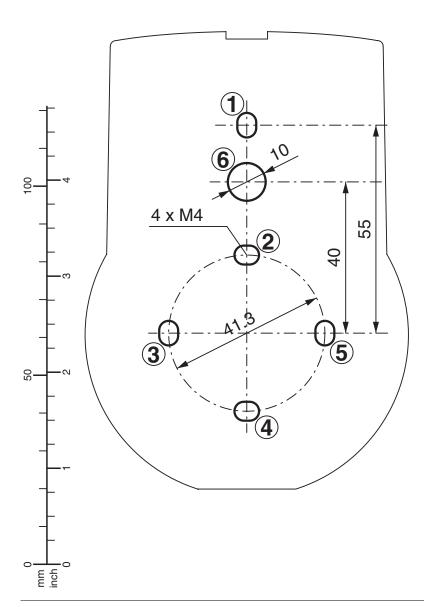




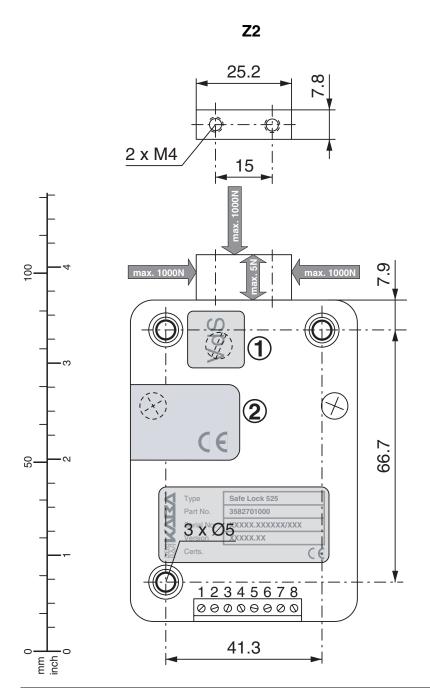




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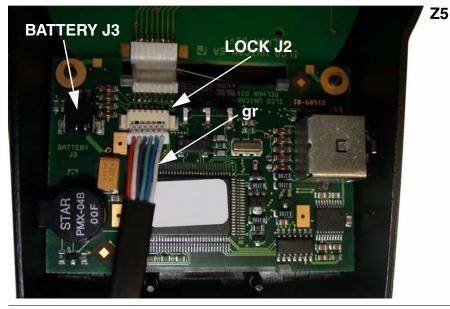




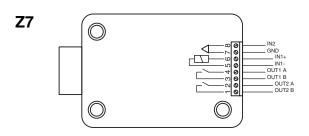


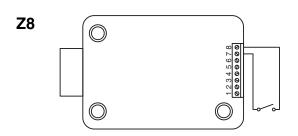


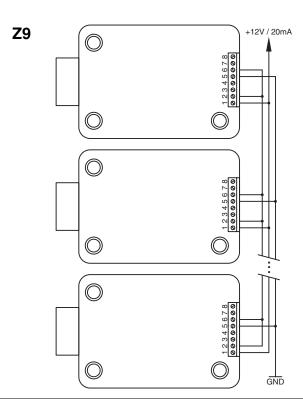


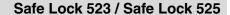














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Document: KSW3s525.0001 / en 2003.04

Edition: April 2003