



Electronic safe lock

Axessor USB

Technical Manual

V28 - 08/2019

EN

dormakaba 

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Version notes

Document version	Date	Reason
02	2019-08	New functionalities included
01	2018-03	New functionalities included
00	2017-10	New document created

Firmware version	Date	Reason
V28	2019-08	<p>New functionalities and optimizations:</p> <ul style="list-style-type: none"> • Setting up Axessor CONNECT safe lock systems with up to 10 locks, 2 input units and 1 eBox • Extended functionality of the safe locks: the Device Manager being able to manage safe lock systems • Operating the safe lock system via the input unit or via AS284-USBW / NETW • Motorized latchbolt locks • Worldwide DST function • GUI texts of AS280-INSW and AS284-USBW / NETW and audit added and revised • Several issues of AS284-USBW / NETW added and revised
V27	2018-03	<p>New functionalities and optimizations:</p> <ul style="list-style-type: none"> • Keep arrow keys pressed while automatically changing the adjusting value to a higher or lower value • Changing or creating codes without using a workaround • Setting the time in AM/PM without using a workaround • Texts revised GUI of AS284-USBW and audit • Several issues revised of AS284-USBW
V26	2017-10	<p>New functionalities and optimizations:</p> <ul style="list-style-type: none"> • Adjustable maximum value of time locking periods while activating the Immediate Time Lock • Local language selection in the menu "info" • Stabilized "Line off" behavior • No special characters in the audit function • Operating system compatibility of AS284-W programming software • AS284-W programming software with extended function

Firmware version	Date	Reason
V24	2017-06	New functionality: <ul style="list-style-type: none">• The Master Code can override the Immediate Time Lock
V23	2017-02	New functionalities: <ul style="list-style-type: none">• Special function: User Code 41 is fix set in AS284-USBW programming software as Audit and Battery Code• Special function: User Code 47 is fix set in AS284-USBW programming software as Time, Audit and Battery Code• Immediate Time Lock when the safe is closed• Setting the beeper via input unit• Dual Mode timeout is configurable

Table of Contents

	Glossary	7
1	About this document	8
1.1	Purpose and objective	8
1.2	Target group	8
1.3	Compliance with safety and standards	8
2	Safety information	9
2.1	Intended use	9
2.2	Hazard category	9
3	Norms, standards and regulations	10
4	Certificates	11
5	System overview	12
6	System description	14
6.1	The Axessor USB electronic safe locks	14
6.2	Product variants	14
6.2.1	Standalone variant with a single lock	14
6.2.2	Standalone variant with multiple locks	15
7	Software applications	17
8	Scope of application	18
9	Technical data	19
9.1	Hardware	19
9.2	Interfaces	19
9.3	Mechanical components	20
9.4	Conditions	20
10	Factory settings	21
11	Functionality	25
11.1	Display elements of the input unit	25
11.2	Information menu	25
11.3	Beep signals	26
11.4	Status messages	26
11.4.1	Bank Mode	26
11.5	Access codes	29
11.5.1	Code hierarchy and code formats	29
11.5.2	Code types	30
12	Access rights	34
13	Unpacking and checking delivery	40
13.1	Checks before installation	40
14	Installation	41
14.1	Drilling templates	41
14.2	Installing the input unit	42
14.3	Installing the lock	48

14.4	External connections on the lock	50
14.5	Wiring	52
14.5.1	Cold plugging	52
14.5.2	Hot plugging	53
14.5.3	Wiring options	55
14.6	Wiring check of the lock	55
15	Configuration	57
15.1	Programming Mode	57
15.1.1	Menu overview of the master lock	57
15.1.2	Accessing the Programming Mode	58
15.1.3	Changing and saving settings	58
15.1.4	Exiting the Programming Mode	59
15.1.5	Menu TIME	59
15.1.6	Menu PROG	61
15.1.7	Menu DELAY	64
15.1.8	Menu CODE	66
15.1.9	Menu MISC	71
16	Operation	81
16.1	Code entry	81
16.2	Lock opening procedure	81
16.3	Lock closing procedure	83
17	Troubleshooting	84
17.1	Status messages on LCD	84
17.2	Identification of the lowest serial number	87
18	Service	88
18.1	Cleaning	88
18.2	Replacing batteries	88
19	Maintenance	90
19.1	Replacing a defect lock	90
19.1.1	Removing the defect lock from the safe lock system	90
19.2	Adding a new lock to the safe lock system	91
19.2.1	Adding a new lock with Freeze OFF	91
19.2.2	Adding a new lock with Freeze ON	92
19.3	Removing the error message of lock position -16-	93
20	Disposal	95
21	Spare parts and accessories	96

Glossary

Terms	Meaning
A-CIT 28	Axessor CIT, version 28
A-IP 28	Axessor IP, version 28
A-IP N 28	Axessor IP NOT version 28
AS284-USBW	AS284 Universal Serial Bus and Wibu dongle (programming software)
ATM	Automated Teller Machine
A-USB	Axessor USB, version 28
BAT-CMP	Battery Compartment
BLT OPN	Bolt Open Time
CDE DEN	Code Denial
CNF WIN	Confirmation Window
CNF WIN beep	Confirmation Window beep
CONF	Confirmation
D-ALARM	Door Alarm
DEL key	Key used to delete entry or to close the lock.
DEVICE	Device Manager used to manage the safe lock system.
DM	Dual Mode
DST	Daylight Saving Time
ENTER key	Key used to enter codes or to confirm parameterization.
GDPR	General Data Protection and Regulation
IMM-TL	Immediate Time Lock
INFO/ESC key	Key used to activate the info display, to escape or to go to a higher level.
LANG	Language
LCD	Liquid Crystal Display
LED	Light-Emitting Diode
LEFT and RIGHT keys	Keys used to select and adjust settings.
MISC	Miscellaneous
MOT FLT	Motion Fault
PRG-MOD	Programming Mode
RMT-DIS	Remote Disabling
SM	Single Mode
TST BGN	Test begin A wiring test will be executed.
TST END	Test end The wiring test is finished.
0 ... 9	Numeric keys 0 ... 9

1 About this document

1.1 Purpose and objective

This Technical Manual describes the Axessor USB electronic safe locks.

It gives information on:

- The system and components
- Technical data
- Functionality
- Installation
- Configuration
- Operation
- Troubleshooting
- Service
- Maintenance
- Disposal
- Spare parts and accessories.

1.2 Target group

This document exclusively addresses itself to skilled personnel (technicians) trained and authorized by the manufacturer.

1.3 Compliance with safety and standards

For safety and warranty reasons all actions described in this document must only be carried out by skilled personnel (technicians). Skilled personnel must comply with the respective regulations on work safety and prevention of accidents.

2 Safety information

2.1 Intended use

The purpose of the electronic safe lock is to lock and unlock the mechanical blocking point of a safe, vault, data cabinet or ATM which is usually activated manually by bolt work. Do not modify the electronic safe lock since it will impair the security and safety of the unit. The electronic safe lock is only designed for indoor applications. It must be applied in environmentally protected areas.

2.2 Hazard category

NOTICE

Information on how to handle the product correctly.

Failure to observe this information may result in malfunctions. The device or something in its vicinity could be damaged.

3 Norms, standards and regulations

Europe

Name	Title
EMC	Directive 2014/30/EU Electromagnetic compatibility
EN 1300:2013	Classification for high-security locks according to their resistance to unauthorized opening
RoHS 2	Directive 2011/65/EU Restriction of hazardous substances
GDPR	Regulation EU 2016/679 General Data Protection Regulation

America

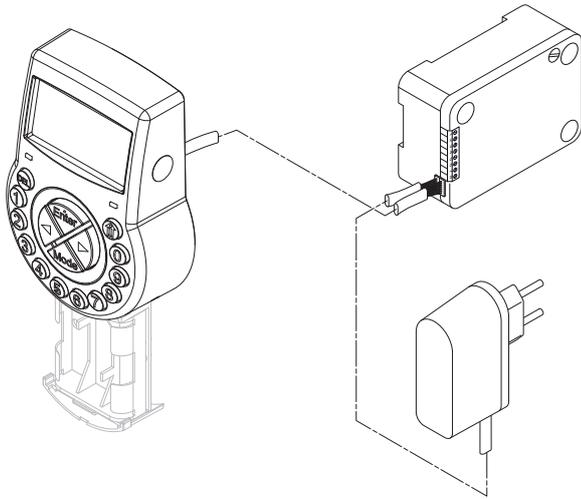
Name	Description
UL Subject 2058 Outline of investigation of high-security electronic locks	High-security electronic locks, type 1 - model Axessor CIT, consisting of keypad P/N 3310300310 and lock assembly P/N 3582701302

4 Certificates

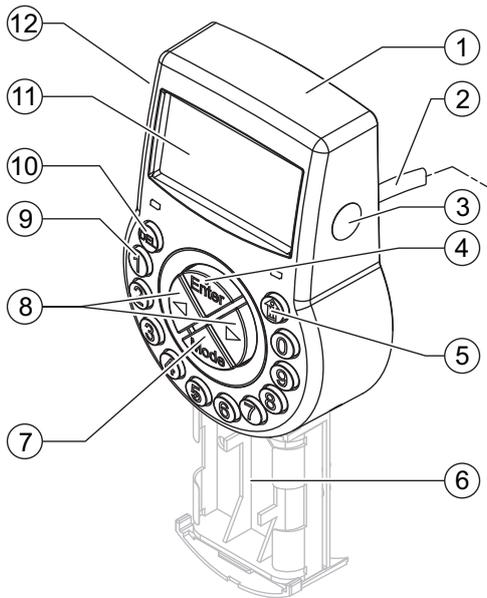
Europe

Name	Description
ECB-S	Electronic high-security lock, level B
CNPP A2P	Electronic high-security lock, level B

5 System overview

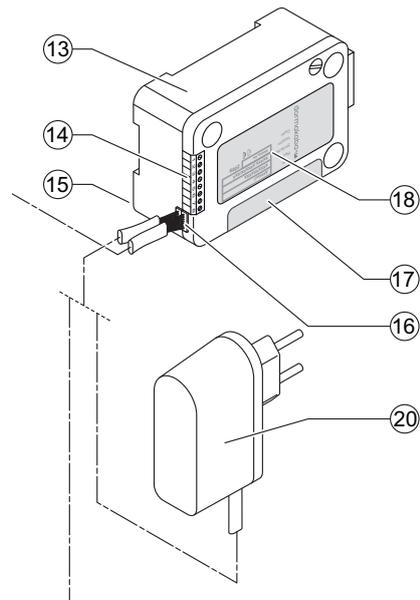


Input unit



- | | | | |
|---|-----------------------------------|----|---------------------------|
| 1 | Housing | 7 | MODE key |
| 2 | Connecting cable for lock unit | 8 | LEFT/RIGHT key |
| 3 | Interface (USB) for PC connection | 9 | NUMERIC keys 0...9 |
| 4 | ENTER key | 10 | DEL key |
| 5 | INFO/ESC key | 11 | LCD |
| 6 | Battery compartment | 12 | Beeper |

Lock and optional external power supply



- | | | | |
|----|------------------------------|----|---|
| 13 | Lock housing | 17 | Warranty seal |
| 14 | Inputs/outputs | 18 | Type label |
| 15 | Pin for cable tie | 19 | |
| 16 | Connection sockets X1 and X2 | 20 | External power supply (optional),
6 VDC, 2 A |

6 System description

6.1 The Axessor USB electronic safe locks

The Axessor USB are motorized deadbolt and latchbolt locks with standard dimensions and integrated terminals.

It is possible to connect the safe locks to an alarm center. The locks comply with all relevant safety standards.

The electronic safe locks have the following functions:

- Single and multiple safe lock applications
- Code hierarchy with user group management
- Courier Code
- Dual Mode
- Duress Code
- Time Delay
- Time Locking Function
- Remote Disabling
- Code Denial for user

There are 2 options to configure the safe locks:

- Via input unit
- Via AS284-USBW programming software installed on a computer which is connected to the input unit via a USB cable

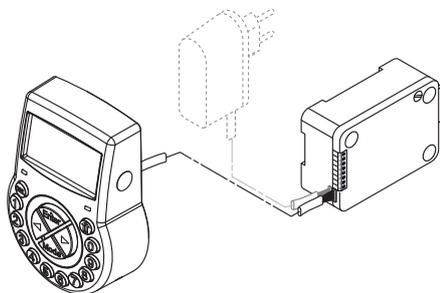
Requirements:

When working with AS284-USBW programming software, make sure to comply with minimum requirements for the computer and monitor.

- Operating system of the computer: Windows 7 or higher
- Minimum resolution of the monitor: 1280x1024 pixel

6.2 Product variants

6.2.1 Standalone variant with a single lock



The standalone variant is battery-powered consisting of:

- Input unit
- Lock
- Connecting cable

The lock provides:

- 2 inputs
- 2 outputs

A further option is to connect an external power supply (6V DC/500mA) to the connection sockets X1 or X2.

Requirements:

- Only use the original Axessor power supply, 6 VDC, 2 A.
- Only use non-rechargeable AA alkaline or AA lithium batteries.
- Batteries must always remain in the battery compartment, even if the external power supply is connected as they serve as energy source in case of power failure.

6.2.2 Standalone variant with multiple locks

NOTICE

Battery discharge and heating up

Operating a safe lock system with 2 input units being powered with batteries will cause a battery discharge due to potential equalization.

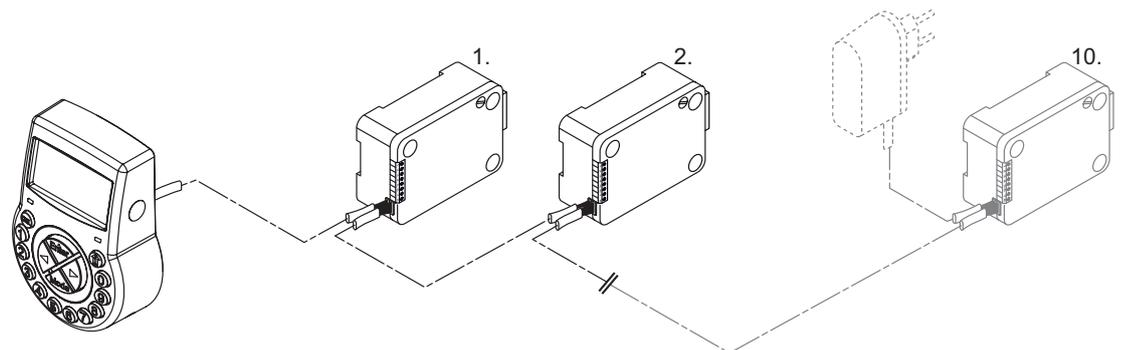
The battery discharge is faster than in normal conditions and requires an earlier replacement of batteries.

Batteries can heat up due to potential equalization.

- Only put batteries in the battery compartment of 1 input unit of a safe lock system.
- Use external power supplies for a safe lock system to support the batteries of the single equipped input unit with additional energy.



Not more than 10 locks to be connected in a safe lock system.
 Not more than 4 bolts to be moved at a time. There is a high risk that a motion fault can be caused.



It is highly recommended to place the additional external power supply in the last position of the locking system. In that way the units will be powered from both sides of the connection bus.

The standalone variant with multiple locks is battery powered consisting of:

- Up to 2 input units
- Up to 10 locks
- Connecting cables

The locks provide:

- 2 inputs
- 2 outputs

The maximum length of the lock bus is 30 meters.

The connection between AS284-USBW programming software and the locking system will be established with lock -1- (master lock) via the USB interface. The established connection will be used from all slave locks.

The locks are clearly identified and administered by their serial number and their system address. The master lock assigns the system addresses to the slave locks and manages the Lock info.

7 Software applications



The AS280 and AS284 software products were not evaluated by UL 2058 and are only for supplementary use.



Do not use third party USB hubs.

AS284-USBW programming software for the Windows® operating system is applied to configure basic settings of the lock such as language, opening time delay, inputs and outputs.

8 Scope of application



When using software products, personal data can be recorded and processed.

The provision of art. 6 (1) lit b from EU 2016/679 General Data Protection Regulation (GDPR) shall be applicable if processing of personal data aims to the fulfillment of a contractual or pre-contractual obligation

The electronic safe locks have the following functions for applications in the high security sector:

- Configuring codes and code combinations
- Time functions
- Recall of a detailed event log (audit trail)
- One Time Code operation (optional).

The electronic safe locks are suitable and applicable for:

- Single and multiple safe lock applications
- Multiple users
- Traceability
- Flexibility.

9 Technical data

9.1 Hardware

Hardware type	Hardware property	Description
Power supply	3 alkaline AA batteries 1.5 V - LR6 or 3 lithium AA batteries 1.5 V - FR6	Service life of alkaline batteries: approximately 1-2 years with 1 opening/closing cycle per work day Service life of lithium batteries: approximately twice as long as alkaline batteries
Memory	Non-volatile	Memory is protected against power failure.
Display	Iconographic LCD with high contrast	Display language is selectable by the user (German, English, French, Italian, Spanish, Portuguese, Dutch, Polish, Hungarian and Turkish).
Keypad	Silicone keys (10 numeric, 4 function, 2 navigation keys).	

9.2 Interfaces

Interface type	Interface property	Description
Outputs	2 potential-free contacts for alarm (30VDC/2A, 50VAC/0.5A with resistive load) Output 1: Duress Alarm (factory setting) Output 2: Bolt or motor open (factory setting)	It is possible to configure the outputs via AS284-USBW programming software for the following functions: <ul style="list-style-type: none"> • Lock open • Activated Time Delay • Activated penalty time • Entry of Duress Code • Battery compartment open
Inputs	Input 1 (signal-triggered 12VDC min. 13mA, max. 20mA): not configured (factory setting) Input 2 (contact triggered; potential-free contact only) Do not apply any voltage.	It is possible to configure the inputs via AS284-USBW programming software for the following functions: <ul style="list-style-type: none"> • Remote Disabling • Door contact
USB	USB for data exchange with a computer	Connection to a computer for the configuration with AS284-USBW programming software
Axessor bus	For connection of the input unit, lock or external power supply. Max. length is 30 meters	dormakaba proprietary bus system

9.3 Mechanical components

Lock	Component property
Dimensions	85 x 61 x 33 mm
Weight	495 g
Motor bolt	Dead bolt or optionally a spring bolt
Relocker	Integrated lock relocker
Cycle times	Opening/closing: approximately 2 seconds
Static resistance force	Maximum: 1000 N in all directions (in end positions)
Moving force	Maximum: 5 N in both directions
Service life	50 000 cycles
PCB designation	A21-P-01-05_L

Input unit	Component property
Dimensions	128 (193) x 90 x 40 mm
Weight	660 g (including connecting cable and batteries)
PCB designation	A08-P-03-04

9.4 Conditions

During operation	Temperature range
Lock	0 ... +50°C
Input unit	0 ... +50°C

Storage	Temperature range
Lock	-10 ... +60°C
Input unit	-10 ... +60°C

10 Factory settings

It is possible to select the following display languages:

- English
- French
- German
- Dutch
- Italian
- Spanish
- Hungarian
- Polish
- Portuguese
- Turkish

Function	Factory setting	Possible to change with	
		Input unit	AS284-USBW
Display Language and Info Menu Language	English	✓	✓
All languages in the info menu	On	✓	✓
Master Code	0 0 1 2 3 4 5 6	✓	✓
Master Code opens the lock	On	-	✓
Master Code overrides Immediate Time lock (closed state)	On	-	✓
Manager Codes (maximum 2 codes)	Off	✓	✓
Functions when Manager Codes are activated: Activating the Immediate Time Lock	On	-	✓
User Codes (except for special User Codes)	Off	✓	✓
User Code 41 as Audit and Battery Code	Off	-	✓
User code 47 as Time Code (including Audit and Battery Code)	Off	-	✓
Courier Code	Off	✓	✓

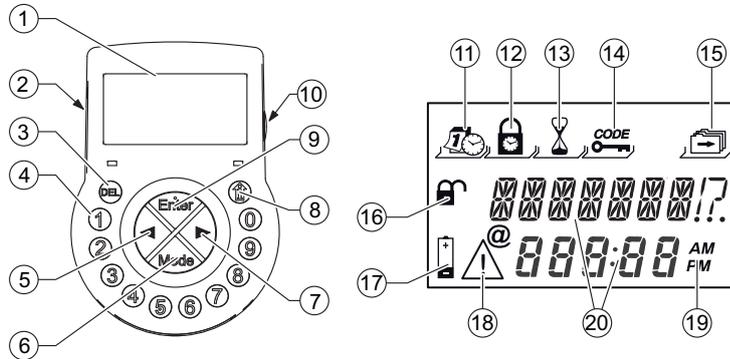
Function	Factory setting	Possible to change with	
		Input unit	AS284-USBW
Functions when Courier Code is activated: Bypassing Time Delay and opening the lock only with Courier Code when in Dual Mode	On	-	✓
Beep Signal Volume	High	✓	✓
A Beep Signal every 30 seconds when the lock is open	On	✓	✓
A Beep Signal every 60 seconds while (Duress) Time Delay counts	On	✓	✓
A Beep Signal every 60 seconds while the Confirmation Window counts	On	✓	✓
Number of wrong codes entries before penalty	4	-	-
Penalty for wrong code entries	5 min.	-	-
Code denial: Temporary lockout of Manager Codes and user groups Temporary lockout of single users	Off	✓ -	✓
Duress Code	Off	✓	✓
Duress Code criterion (last digit)	+/- 1	-	✓
Dual Mode	Off	✓	✓
Functions when Dual Mode is activated: Any 2 codes	On	-	✓
Time Delay	0 min.	✓	✓

Function	Factory setting	Possible to change with	
		Input unit	AS284-USBW
Duress Time Delay in Bank Mode (per user group)	1 min.	-	✓
Time Delay and Duress Time Delay	Countdown	-	✓
Non Return Time Delay	0 min.	✓	✓
Bolt open time	6 sec.	✓	✓
Process time	2 min. 30 sec.	✓	✓
Confirmation Window	5 min.	✓	✓
Immediate Time Lock Period	0 min.	✓	✓
Maximum adjustable value of the Immediate Time Lock Period	144 h	-	✓
Weekly Locking Period	Off	✓	✓
Holiday Locking Period	Off	✓	✓
Repeated Holiday Locking Period	Off	✓	✓
Date/time	JAN 01 2017 0:00	✓	✓
Time format (12 or 24 h, AM/PM)	24 hours	✓	✓
Change from summer to winter time (DST) and time zone	On (Central European Time)	✓	✓
Remote Disabling via software	Off	✓	✓
Input 1: One function optionally assignable: 1. Remote Disabling 2. Controlled Disabling 3. Remote Enabling 4. Cancelling NRTD	Off	-	✓

Function	Factory setting	Possible to change with	
		Input unit	AS284-USBW
Input 2: One function optionally assignable: 1. Door contact 2. Skipping Time Delay 4. Remote Disabling 5. Controlled Disabling	Off	-	✓
Output 1: Duress alarm	On	-	✓
Output 2: Lock opening (OR Boolean operation with lock or motor open)	On	-	✓

11 Functionality

11.1 Display elements of the input unit



1	LCD	11	Menu TIME
2	Beeper	12	Menu PROG
3	DEL key	13	Menu DELAY
4	NUMERIC keys 0 ... 9	14	Menu CODE
5	LEFT key	15	Menu MISC
6	MODE key	16	Symbol "lock open", "lock closed"
7	RIGHT key	17	Symbol "replace batteries"
8	INFO/ESC key	18	Symbol "warning"
9	ENTER key	19	Time format (12/24 h)
10	USB port	20	Text lines

11.2 Information menu



By pressing the **INFO/ESC** key, it is possible to change the display language in the information menu any time, even if the lock is closed.

By pressing the **INFO/ESC** key the information menu is accessible while the display shows either "OPEN" or "LOCKED".

By pressing several times the **INFO/ESC** key or the arrow keys, it is possible to query the following information in the information menu:

- Display language
- Battery condition (in percent of the nominal capacity)
- Opening counter
- Serial number
- Wait 000:00 (if this setting was chosen).
The numbers 000:00 stand for "hours:minutes".

11.3 Beep signals



It is possible to deactivate the beep signal via **AS284-USBW** programming software when the display shows "OPEN" (for open lock), "WAIT" (for Time Delay) and "CONF" (for Confirmation Window).

It is also possible to set the beep signal volume to high/low or to deactivate it.

Type of beep signal	Duration	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 is activated.
3 short beeps	Every 60 seconds	CONF	The Confirmation Window is activated. After the Time Delay is over, it is possible to enter the confirmation code.
10 short beeps	Every 10 seconds	BAT-CMP OPEN	The Battery Compartment was opened.
10 short beeps	Every 10 seconds	OPEN	The lock is open.

11.4 Status messages

11.4.1 Bank Mode

Bank Mode

- Bank Mode is the factory setting and standard operating mode for all products.
- In Bank Mode the unit runs standalone according to the configuration.

Locked -3- (Bank Mode)



The lock -3- is mechanically closed.

It is possible to connect up to 10 locks in a safe lock system.

After 3 seconds the current time will be displayed instead of the lock position.

Locked



The lock is mechanically closed.

The current time is displayed.

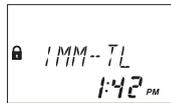
It is possible to open the lock by entering a valid code.

Open



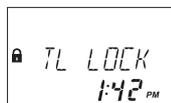
The lock is mechanically open.
 The status message "OPEN" is displayed.
 It is possible to unlock the bolt work or safe door during the set Bolt Open Time.
 Factory setting for Bolt Open Time: 6 seconds.
 If the bolt work was not unlocked, the lock closes automatically after the set Bolt Open Time has elapsed.

Immediate Time Lock



The lock is closed with the Immediate Time Lock function.
 It is not possible to open the lock.
 The current time is displayed.
 It is only possible to open the lock by entering a valid code once the set locking period has elapsed.

Weekly Time Locking



The lock is in a weekly locking period.
 It is not possible to open the lock, unless it was configured that the "Master can bypass Time Lock".
 The current time is displayed.
 It is only possible to open the lock by entering a valid code once the set locking period has elapsed.

Holiday Time Locking



The lock is in a holiday locking period.
 It is not possible to open the lock.
 The current time is displayed.
 It is only possible to open the lock by entering a valid code once the set locking period has elapsed.

Opening Time Delay



After entering a valid code to open the lock, the set Time Delay starts counting.
 The remaining time is displayed.
 Every 60 seconds a beep signal sounds.
 After the counter has elapsed, the end of the Time Delay is indicated with another beep signal.
 The Courier Code overrides a Time Delay, if not otherwise defined.

Confirmation after elapsed Time Delay



After the Time Delay has elapsed, a valid code must be entered as confirmation within a set time period.
 It is possible to enter 2 different valid codes before and after the Time Delay.
 The remaining time window is displayed to enter the code.
 After entering the Courier Code, the **CONF** display is shown.
 If the Courier Code opens the lock, but skips Time Delay, the opening procedure will start during the countdown.

Every 60 seconds a beep signal sounds.
 If the code is not confirmed, the lock will return automatically to the closed status once the counter reached 00:00.



By pressing the **DEL** key, the lock automatically returns to the LOCKED status.
 If the Dual Mode is activated, 2 codes must be entered as confirmation, the sequence is irrelevant.

The codes must comply with the settings made via AS284-USBW programming software: „any two codes“.

Entering second code - Dual Mode activated



If the Dual Mode is activated, 2 codes must be entered to open the lock.
 The message shown on the display prompts the user to enter a second code.



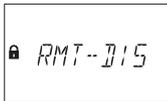
Master Code and Courier Code override the Dual Mode.
 It is possible to open the lock without any additional code, if not otherwise defined.

Penalty after wrong codes



After having entered 4 times an incorrect code, a time penalty of 5 minutes is initiated.
 During this time period it is not possible to enter a code, neither to bypass nor to cancel the procedure.
 The remaining penalty time is displayed.

Remote Disabling



It is possible to deactivate the local opening of the lock by a remote disabling signal.
 There are 3 options to deactivate the lock opening:

- 1 By a constant input signal
- 2 Via AS284-USBW programming software or
- 3 the status message **RMT-DIS** is displayed when Remote Disabling is activated.
 During that time the lock is closed.



In case of a failure caused by a device (a broken alarm interface or an alarm interface without power) transmitting an input signal, the Master Code is able to override Remote Disabling to prevent a total lock-out when the external signal fails.

Identification with denied code



It is possible to deny codes with a superior code.
 These codes are declared invalid for a certain time period until these codes are permitted again.
 When identifying with a denied code, the status message **DENIED** will be displayed.
 The selected function will not be executed, the lock condition remains unchanged.

The same status message will be displayed when trying to open the lock by using the Master Code which was set to "cannot open".

The battery compartment was opened



The status message **BAT-CMP** is displayed if:

- 1 the lock is open while the battery compartment was opened
- 2 the lock is closed and the battery compartment was opened and closed again.

It is possible to delete the status message by entering a valid Manager, Master or Battery Code (User Codes 41 or 47).

Connection to a programming software



The input unit is not operative and all keys are deactivated when the lock is connected to a computer via USB cable and data exchange with AS284-USBW programming software is in progress.

External power supply available



A dot is shown on the display if an external power supply is available for the lock. This status message is updated every full hour. The graphic only shows the dot icon and no other information.

Active input unit



An input unit with asterisk indicates an active device with version number 28.

Passive input unit



An input unit without asterisk indicates a passive device with version number 28.

11.5 Access codes

11.5.1 Code hierarchy and code formats

Several codes are available for configuring and operating:

- Master Code
- Manager Code
- User Codes
- Courier Code

Each code consists of:

- An 8-digit number which is composed of an ID and a PIN.

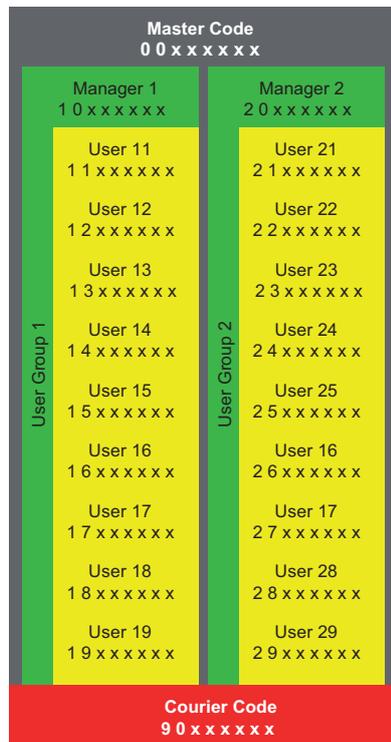
- The ID consists of 2 digits which are predefined and identify the code
- The PIN consists of the remaining 6 digits. It is possible to choose the PIN individually

Code type	Possible person in charge	Description
1 Master Code (8 digits)	Safety officer, head of security	With the Master Code it is possible to open the lock without using any additional code, even if Dual Mode is configured. it is possible to set the Master Code as "can open lock" via AS284-USBW programming software
2 Manager Codes (8 digits)	Head cashier, shift manager	In the AS284-USB programming software the Manager Codes are fix set as "can open the lock".
18 User Codes (8 digits)	Cashier, sales assistant	There are 2 user groups with 9 users each assigned to a respective Manager Code. It is possible to activate/deactivate the lock opening via AS284-USBW programming software.
1 Courier Code (8 digits)	Auditor, CIT (Cash In Transit service provider)	With the Courier Code it is possible to open the lock in Dual Mode. It is possible to set the lock as "does not open but skips Time Delay" for the next opening via AS284-USBW programming software.

Special code function	Description
Duress Code	If this function is activated, it is possible to execute the Duress Code by any of the code types.
Dual Mode	For the Dual Mode 2 codes are needed to open the lock. When opening the lock with Master Code or Courier Code, no second code is needed.
Code Denial	With this function it is possible to activate or deactivate individual codes or entire code groups.

11.5.2 Code types

The factory set Master Code **0 0 1 2 3 4 5 6** is identical for all locks of this type. This code must not be used for operation. Upon initialization and testing the Master Code must be changed.



11.5.2.1 Master Code



It is important to personalize all codes of the unit during commissioning and start-up. Do not use easy number combinations such as 11223344, 12345678 or personal data (for example birthdays). For safety reasons it is important to change codes at regular intervals.

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

Factory setting	0 0 1 2 3 4 5 6
Function	Opening the lock (even if only in Dual Mode) Changing all codes Access to all functions



It is only possible to delete and redefine lost codes with a higher code. Keep in mind that it is neither possible to retrieve nor to restore a lost Master Code. There is no super code.

Master Code function	Description	Displayed status message	Result
"Can open lock"	The Master Code is entered to open the lock.	DENIED	The lock does not open.
"Can override Immediate Time Lock"	The Master Code is entered and the function "can override Immediate Time Lock" is activated. The Master Code is able to reset the Immediate Time Lock even during an activated Immediate Time Locking period.		The lock opens.

"Can override the remote disabling signal or remote disabled state"	The Master Code is entered. The Master Code is able to override a remote disabling signal or disabled state if a remote enabling signal is missing.		This prevents a complete lock-out.
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11.5.2.2 Manager Codes

There are 2 Manager Codes available:

- Manager Code ID 10
- Manager Code ID 20

Each Manager Code is able to administrate a group of User Codes.

Factory setting	No code assigned
Function	Opening the lock Changing the Manager Code Activating, changing and deleting subordinated User Codes Allowing and denying subordinated user groups Changing the subordinated Time Delay and Confirmation Window Activating the Immediate Time Lock function

Manager Code function	Description	Displayed status message	Result
"Can open the lock"	The Manager Code is entered.	DENIED	The lock does not open.
"Cannot activate the Immediate Time Lock"	The Programming Mode is entered with a defined Manager Code setting.		The corresponding submenus are not accessible any more.
"Can change Time Delays"	This setting is fix set in AS284-USBW programming software.		
"Can change Confirmation"	This setting is fix set in AS284-USBW programming software.		

11.5.2.3 User Codes with special functions

User Code	Description	Result
All User Codes	It is possible to define the User Codes as "can activate the Immediate Time Lock".	If this function is activated, all users have access to the submenu IMM-TL.
User Code 41	In AS284-USBW programming software the User Code 41 is fix set as Audit Code and Battery Code. The User Code 41 cannot be used to open the lock.	The user can get an audit of the lock. When trying to open the lock with the User Code 41, the message "DENIED" will be displayed.

User Code	Description	Result
		The user can reset the battery message after the battery compartment had been opened.
User Code 47	In AS284-USBW programming software the User Code 47 is fix set as Time, Audit and Battery Code.	<p>The User Code 47 has access to all functions relating time, date, weekly and holiday programs.</p> <p>It is not possible to open the lock with User Code 47.</p> <p>The user can either read the audit or reset the battery message after the battery compartment had been opened.</p>

11.5.2.4 Courier Code

There is only 1 Courier Code (Courier Code ID 90) which is provided for special staff from Cash-In Transit services (CIT) responsible for filling or emptying secured containers without any configured Time Delays.

Factory setting: No code assigned

Functions: Opening the lock, even in Dual Mode by bypassing a Time Delay
Alteration of Courier Code

11.5.2.5 Duress Code

To activate a duress alarm, the value 1 must be added to or deducted from the last digit of a code.

It is possible to activate a duress alarm with all code types at any time.

Example for generating a Duress Code:

Code	Duress Code
00123456	00123457 or 00123455
00000000	00000001 or 00000009
00999999	00999990 or 00999998



After entering a Duress Code, the duress status remains until the Duress Time Delay has elapsed and the lock will be opened with 1 Non-Duress Code and closed again.

11.5.2.5.1 Shelve Function

The Shelve Function is only available if the Programming Mode is accessed with the Master Code.

With the Shelve Function it is possible to reset all codes, parameters and data for example locking periods, time delays etc. to factory default settings.

The following settings remain unchanged:

- Audit Trail
- Opening Counter and
- Time/Date.

12 Access rights

Authorization is given to:

- MA (Master)
- Mx (Manager 1 and 2)
- U (User)
- C (Courier)

Menu	Function	Authorized codes (configured with input unit, ex factory)				Description
		MA	Mx	U	C	
TIME	Setting the time (hours, minutes) Setting the date (month, day, year) Setting the time format AM/PM (off: 24 hours / on: AM/PM) Setting DST (off/on: Central European Time)	✓	-	-	-	
PROG	Activating or deactivating the Immediate Time Lock (00:00 minutes) Duration (hours, minutes)	-	-	-	-	
PROG	Adding, changing or deleting Weekly Locking Periods Defining a starting and endpoint for Weekly Locking Periods (week-days, hours, minutes)	✓	-	-	-	
PROG	Adding, changing and deleting Holiday Locking Periods Defining a starting and endpoint for Holiday Locking Periods (week-days, hours, minutes)	✓	-	-	-	

Menu	Function	Authorized codes (configured with input unit, ex factory)				Description
		MA	Mx	U	C	
DELAY	<p>Setting and deactivating Time Delays with the Master Code and user group 1 and 2</p> <p>Selecting Time Delay 1, 2, 3 or 4 (minutes)</p> <p>Deactivating a Time Delay (00:00 minutes)</p>	✓	✓	-	-	<p>The Master Code is able to set all Time Delays.</p> <p>The Manager 1 is able to set the Time Delay 1.</p> <p>The settings of Time Delay 1 are valid for all users of group 1, Manager 1 and the Master Code.</p> <p>The Manager 2 is able to set the Time Delay 2.</p> <p>The settings of Time Delay 2 are valid for all users of group 2 and Manager 2.</p>
DELAY	<p>Configuring the Confirmation Window</p> <p>CNF WIN (minutes)</p>	✓	✓	-	-	
MISC	<p>Activating or deactivating the Beeper for Door Opening Alarm</p> <p>D-ALARM beep (off/on)</p>	✓	-	-	-	
MISC	<p>Activating or deactivating Dual Mode</p> <p>DUAL bank (off/on)</p>	✓	-	-	-	
DELAY	<p>Configuring the window of a second code in Dual Mode</p> <p>DUAL bank (minutes, seconds)</p>	✓	-	-	-	
DELAY	<p>Configuring Bolt Open Time</p> <p>BLT OPN bank (minutes, seconds)</p>	✓	-	-	-	
CODE	<p>Changing the Master Code</p> <p>CHANGE ? (no/yes)</p> <p>Setting and confirming the Master Code (8 digits)</p>	✓	-	-	-	<p>It is not possible to delete the Master Code.</p> <p>The Master Code starts with '00'.</p>
CODE	<p>Setting Manager Codes 1 and 2</p> <p>Setting and confirming Manager Codes (8 digits)</p>	✓	-	-	-	<p>The Manager 1 starts with '10'.</p> <p>The Manager 2 starts with '20'.</p>

Menu	Function	Authorized codes (configured with input unit, ex factory)				Description
		MA	Mx	U	C	
CODE	Changing Manager Codes 1 and 2 CHANGE ? (no/yes) Confirming a Manager Code (8 digits)	✓	✓	-	-	The Manager 1 starts with '10'. The Manager 2 starts with '20'.
PROG	Deleting Manager Codes of Manager 1 and 2 CLEAR ? (no/yes)	✓	-	-	-	It is only possible to delete Manager Codes with the Master Code.
PROG	Setting User Codes of user group 1 and 2 Setting and confirming a User Code (8 digits)	✓	✓	-	-	User group 1 includes users '11' ... '19' User group 2 includes users '21' ... '29'
CODE	Changing User Codes of user group 1 and 2 CHANGE ? (no/yes) Setting and confirming User Codes (8 digits)	✓	✓	✓	-	
CODE	Deleting User Codes of user group 1 CLEAR ? (no/yes)	✓	✓	-	-	It is only possible to delete User Codes with a higher code.
CODE	Setting the Courier Code Setting and confirming the Courier Code (8 digits) (8 digits)	✓	-	-	-	The Courier Code starts with '90'.
CODE	Changing the Courier Code CHANGE ? (no/yes) Setting and confirming the Courier Code (8 digits)	✓	-	-	✓	
CODE	Deleting the Courier Code CLEAR ? (no/yes)	✓	-	-	-	It is only possible to delete Courier Code with the Master Code.
CODE	Resetting the electronic safe lock (shelve) SURE ? (no/yes)	✓	-	-	-	
MISC	Setting the Display Language	✓	✓	-	-	
MISC	Managing the safe lock system with the Device Manager	✓	-	-	-	Slave locks have a limited range of functions compared to the master lock.

Menu	Function	Authorized codes (configured with input unit, ex factory)				Description
		MA	Mx	U	C	
MISC	Activating or deactivating Remote Disabling RMT-DIS (off/on)	✓	-	-	-	
MISC	Setting the Beeper Volume VOLUME (off = 000 / medium = 001 / loud = 002)	✓	-	-	-	
MISC	Activating or deactivating the Open Beeper OPEN beep (off/on)	✓	-	-	-	
MISC	Activating or deactivating the Beeper for Confirmation Window CNF WIN beep (off/on)	✓	-	-	-	
MISC	Activating or deactivating the Beeper Time Delay DELAY beep (off/on)	✓	-	-	-	
MISC	Activating or deactivating the Waiting Time WAIT info (off/on)	✓	-	-	-	
MISC	Activating or deactivating the Language Info LANG info (each of the 10 languages is off/on)	✓	-	-	-	When a language is set to "on", the respective language will be displayed in the Info Menu.
MISC	Setting the Lock Info LOCK info (off/on)	✓	-	-	-	It is only possible the set the Lock info with the master lock.
MISC	Activating or deactivating the Code Denial GROUP 1 (off/on) MANAG 1 (off/on) GROUP 2 (off/on) MANAG 2 (off/on)	✓	-	-	-	The Master Code is able to activate or deactivate each Manager or user group.
MISC	Activating or deactivating the Code Denial GROUP 1 (off/on)	✓	✓	-	-	The Manager 1 is only able to activate or deactivate user group 1. When the Code Denial is set to "on", the codes of user group 1 will be deactivated.

Menu	Function	Authorized codes (configured with input unit, ex factory)				Description
		MA	Mx	U	C	
MISC	Activating or deactivating Code Denial Bank Mode GROUP 2 (off/on)	✓	✓	-	-	The Manager 2 is only able to activate or deactivate user group 2. When the Code Denial is set to "on", the codes of user group 2 will be deactivated.
MISC	Activating or deactivating the Duress Code DURESS bank (off/on)	✓	-	-	-	
MISC	Setting the function Freeze FREEZE (off/on)	✓	-	-	-	It is only possible to set the function Freeze with the master lock.
	Resetting the battery message "BAT-CMP open"	✓	✓	-	-	The Master or a Manager Code must be entered to reset the battery message.
	Reading Audits in AS284-USBW	✓	-	-	-	The Master Code must be entered in AS284-USBW to read an Audit.

Menu	Function	Authorized codes (set in AS284-USBW programming software)		Description
		Mx	U	
TIME	Setting the time (hours, minutes) Setting the date (month, day, year) Setting the time format AM/PM (off: 24hours/on: AM/PM) Setting DST (off/on: Central European Time)	-	✓	User Code 47 is set fix as Time Code in AS284-USBW programming software.
PROG	Activating or deactivating the Immediate Time Lock (00:00 minutes) Duration (hours, minutes)	-	✓	The Immediate Time Lock is activated when users are enabled to activate this function.

Menu	Function	Authorized codes (set in AS284-USBW programming software)		Description
		Mx	U	
PROG	<p>Adding, changing or deleting Weekly Locking Periods</p> <p>Defining a starting and endpoint for Weekly Locking Periods (week-days, hours, minutes)</p>	-	✓	User Code 47 is set fix as Time Code in AS284-USBW programming software.
PROG	<p>Adding, changing and deleting Holiday Locking Periods</p> <p>Defining a starting and endpoint for Holiday Locking Periods (week-days, hours, minutes)</p>	-	✓	User Code 47 is set fix as Time Code in AS284-USBW programming software.
	Resetting the battery message "BAT-CMP open"	-	✓	User Codes 41 and 47 are set fix as Battery Code in AS284-USBW programming software.
	Reading Audits via AS284-USBW	-	✓	User Codes 41 and 47 are set fix as Audit Code in AS284-USBW programming software.

13 Unpacking and checking delivery

13.1 Checks before installation

Requirements:

- Unpack the delivery.
- Make sure that the content is complete.

Make sure that the delivery includes:

- Input unit
- Lock
- Connecting cable
- Plastic bag with installation material
- 3 professional alkaline batteries, industrial by DURACELL®
- Instruction leaflet with further information and reference to the website

Make sure that the optional computer software packages include:

- **AS284-USBW:** USB cable, 1 operator dongle (blue), 1 instruction page

14 Installation

NOTICE

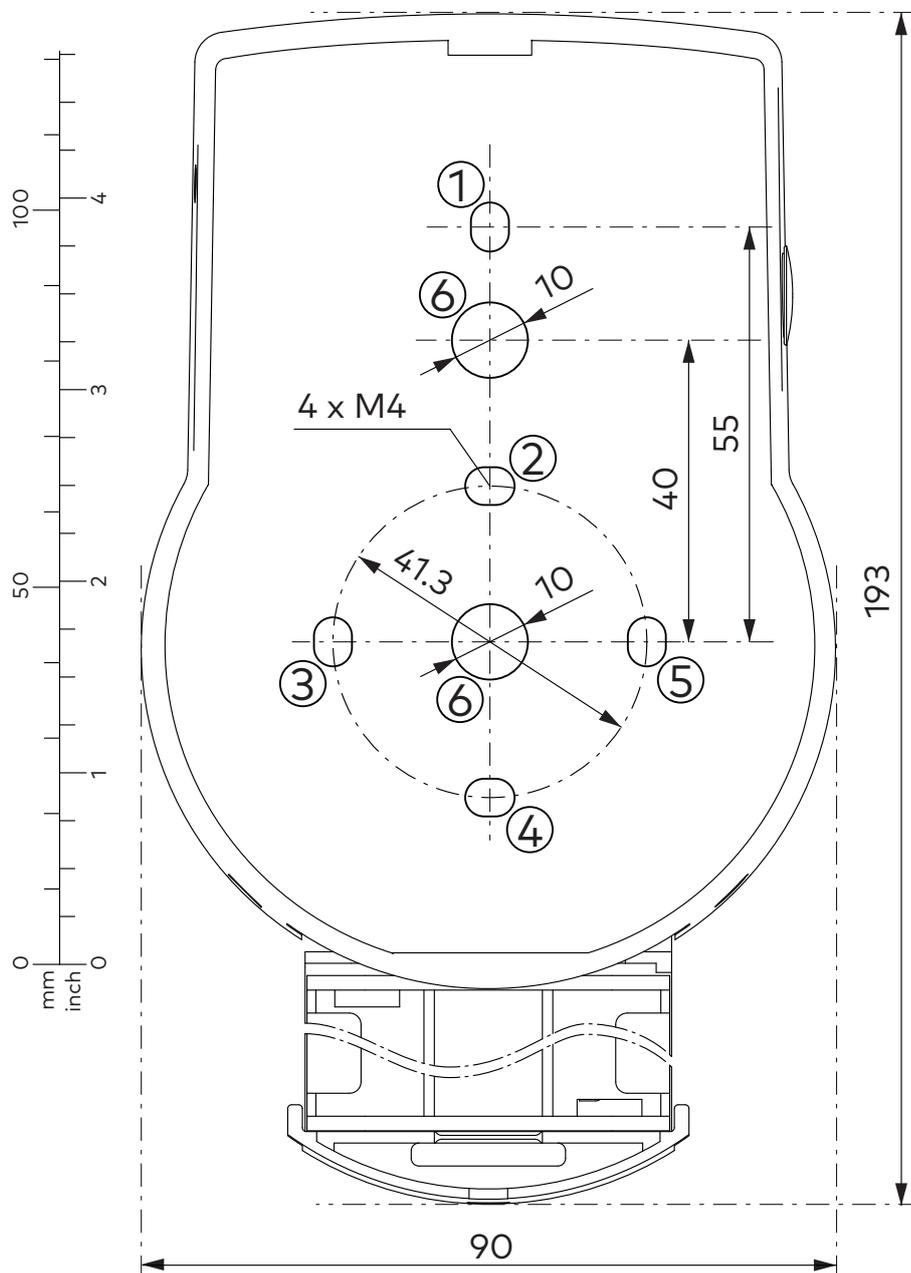
Lockout of secure storage units

Closing the door of a secure storage unit while lock installation is not fully completed, will cause a lockout of secure storage units.

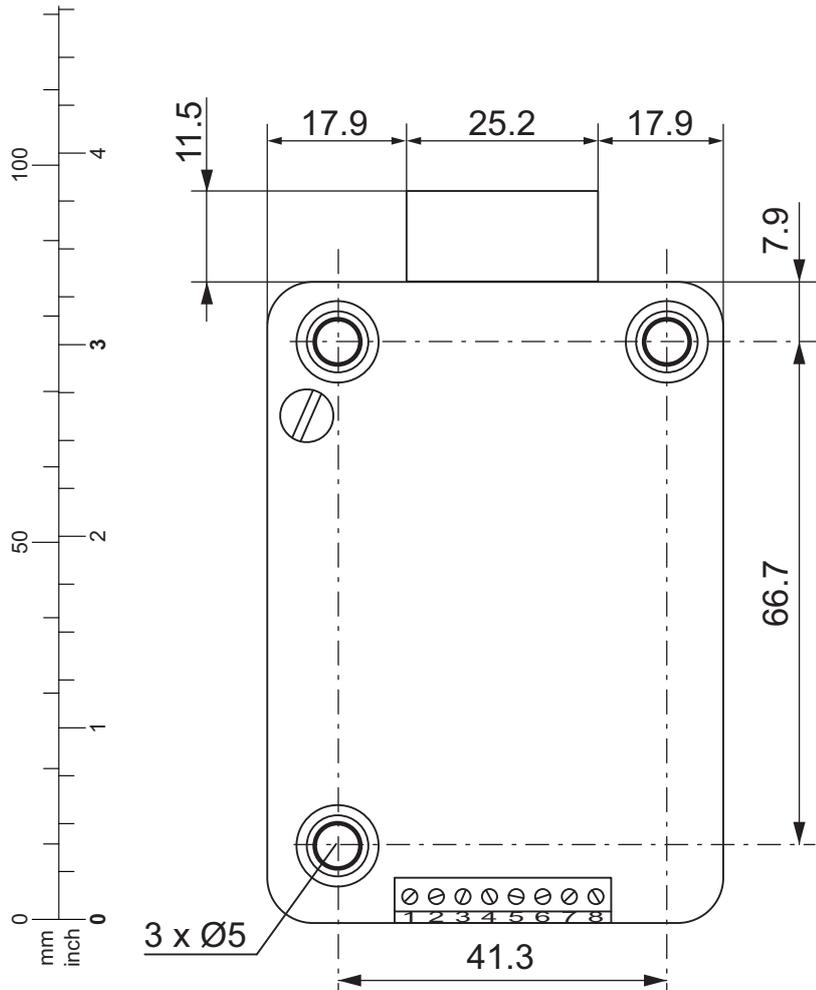
- Do not close the door of a secure storage unit until all installation steps are successfully completed.

14.1 Drilling templates

Input unit template



Lock template



14.2 Installing the input unit

NOTICE

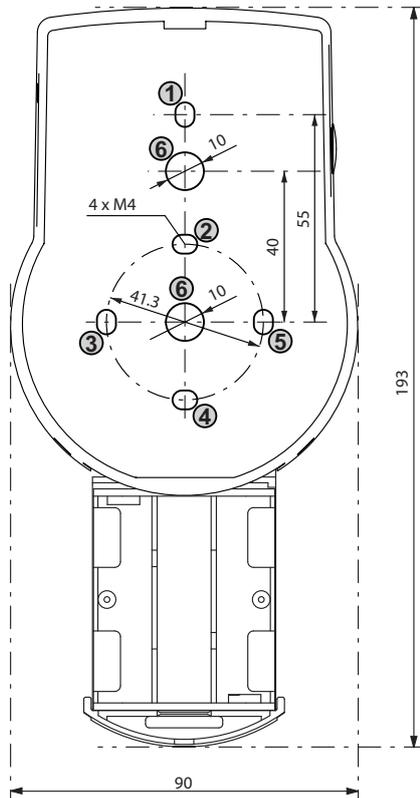
Improper installation of the input unit

Changing the installation sequence will cause damage to the input unit

- Do not skip installation steps.
- Follow the described installation sequence.



As a requirement of EN 1300 the input unit must be installed onto the safe.



Installing the base plate



If the lock is installed directly behind the spindle hole and no other measure was chosen, a drill protection plate is required for UL approved retrofit installation.



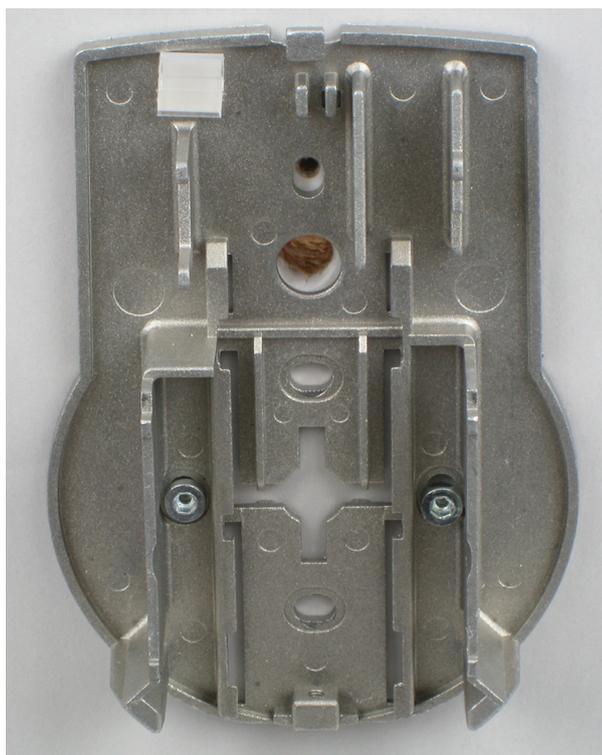
Fastening screws must be secured against loosening, e.g. by using threadlocking adhesive such as Loctite 243 (medium strength, blue).

1. Use the drilling template.
2. Mark either fixation holes 3 and 5 or 2 and 4 plus fixation hole 1.
3. Also mark the fixation hole 6 for the cable feed-through.
4. Drill 3 fixation holes $\text{Ø}3.2 \times 14$ mm.
5. Drill 1 hole $\text{Ø}10$ mm for the cable feed-through.
6. Remove burrs.

7. Install M4 threads into the fixation holes.



8. Remove the 3 screws from the bottom of the cover (1 installed in the battery compartment, 2 installed in the housing).
9. Remove the cover from the base plate.
10. Carefully remove the battery compartment.
11. Install the base plate with the special M4x12 flat-head screws onto the door.
 - ⇒ The input unit must be installed onto the door with at least 2 oppositely positioned screws.
 - ⇒ The third screw is recommended (position 1).



NOTICE

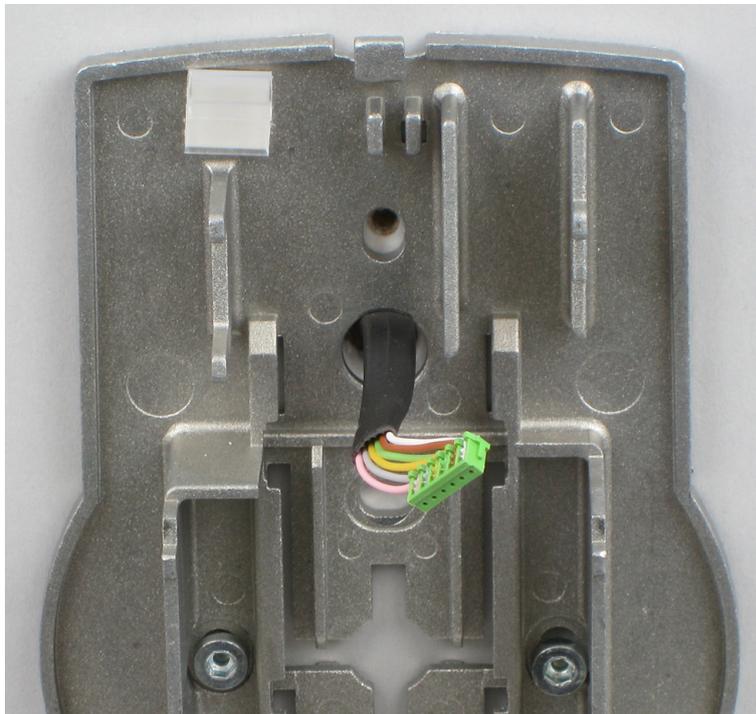
Excessive mechanical stress on cables

Excessive mechanical stress on cables will cause damage to the insulation and conductor.

- Keep cables away from moving parts.
- Do not squeeze cables.
- Do not fold cables.
- Do not route cables along sharp edges.

Connecting cables

1. Carefully route the connecting cable through the Ø10mm cable feed-through in the door.
2. Carefully feed the connecting cable into the lock chamber.



Installing the battery compartment

Requirements:

- Make sure not to squeeze the cable.
 - Make sure that the battery compartment is freemoving.
 - Make sure that the spiral cable is flattened when moving the battery compartment.
 - Make sure that the spiral cable does not move in other directions when it is extended and compressed.
1. Install the battery compartment in place.

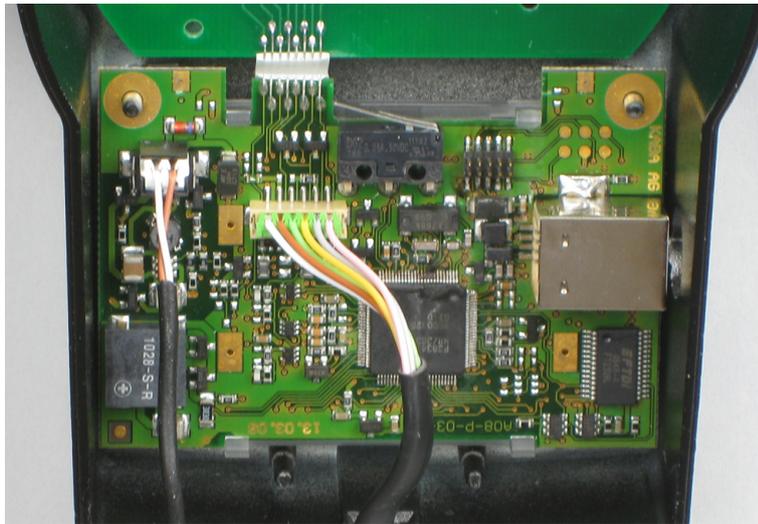
2. Carefully route the battery cable through the strain relief guides of the battery compartment and the base plate.



3. Place the cover on top of the base plate in an angle $>90^\circ$.

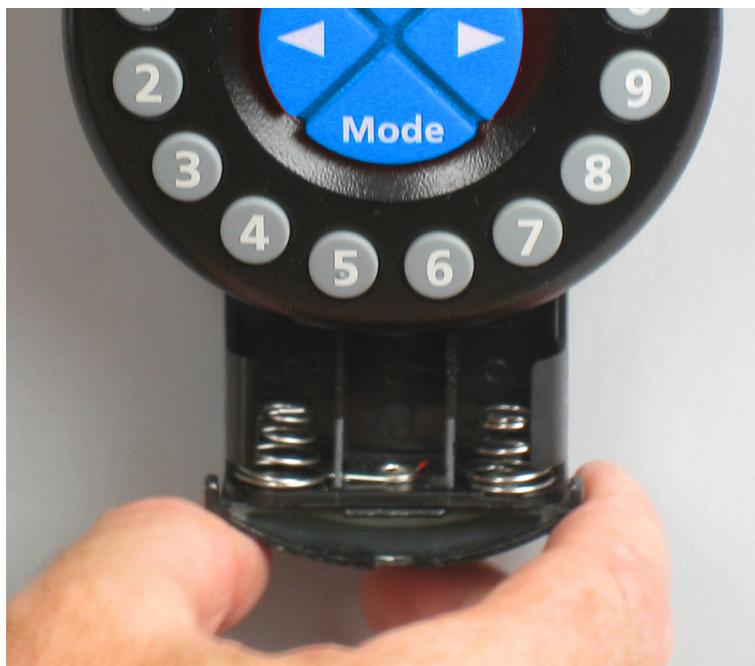


4. Plug the battery cable into the 2-pole connector terminal and the connecting cable into the 6-pole connector terminal.
5. Make sure that the position of the plugs is correct before connecting the plugs.
6. Do not use excessive force to plug-in, but make sure that proper connection is given.



Installing the cover

1. Engage the cover in the notch on top of base plate.
2. Slowly hinge down the cover onto the base plate while carefully routing the connecting cable to the lock chamber.
3. Leave a spare loop.
4. Make sure that the cables will not be squeezed.
5. Make sure that the battery compartment is freemoving.
6. Carefully place the battery compartment in the right position.
7. Remove it again.



8. Install the cover onto the base plate using 2 M3x6 countersunk screws.



9. Make sure that the battery compartment is freemoving.
10. Carefully place the battery compartment in the right position.
11. Remove it again.
12. Do not put the batteries into the battery compartment.
13. Do not install the screw for the battery compartment yet.

14.3 Installing the lock



Do neither remove nor damage the warranty seal.
This voids warranty.

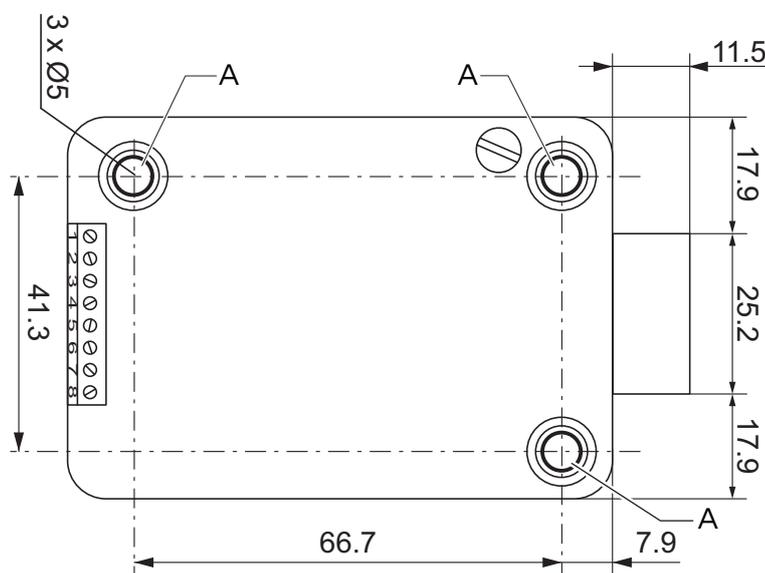


Do neither remove nor damage the VdS label.
This voids VdS approval.



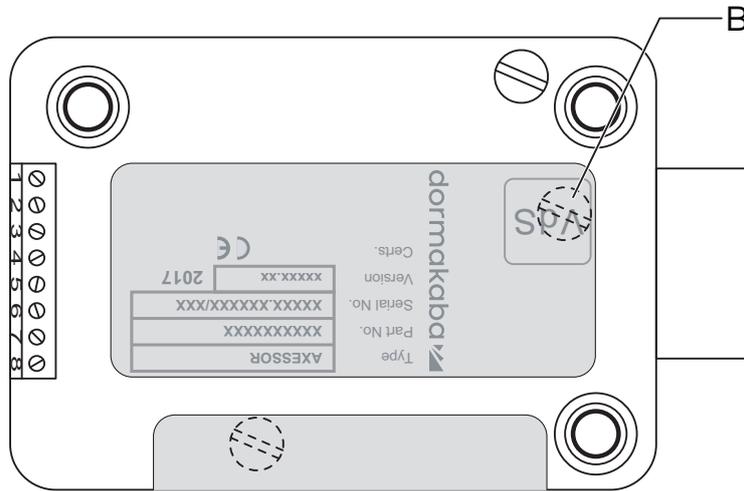
The fixation holes of the drilling template are standardized.

1. Mark 3 fixation holes (A) according to the drilling template for input unit.



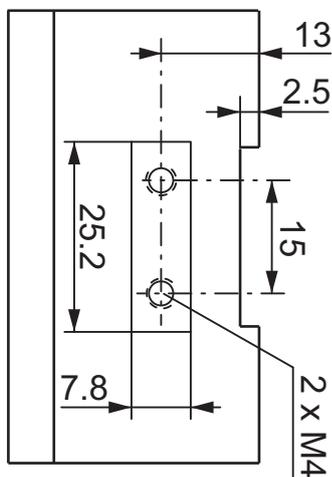
2. Drill fixation holes with $\varnothing 5\text{mm}$.

3. Remove the burrs.
4. Install M6 threads into the fixation holes.
5. Install the lock with the three M6x10 screws (it is also possible to use similar inch screws).
6. Make sure that the screw heads rest on the base of the shouldered fixation hole.
7. Make sure to keep the space underneath the lock free for a re-closable system or a connecting cable.
8. If the lock is to be operated in spring bolt function, remove the retainer screw (B) underneath the VdS label.

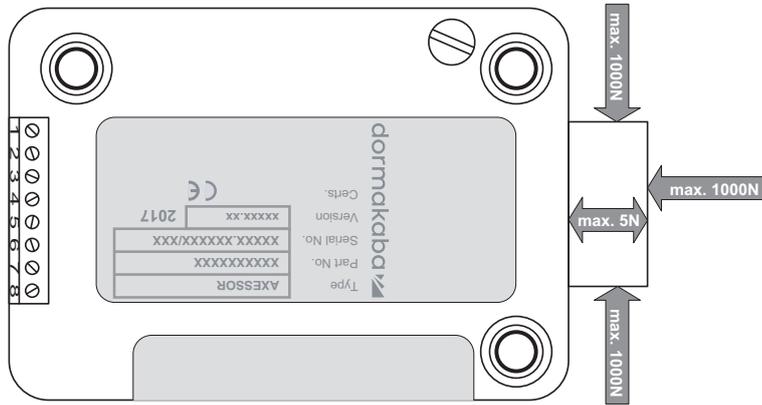


Pay attention that the operating mode in spring bolt function voids VdS approval.

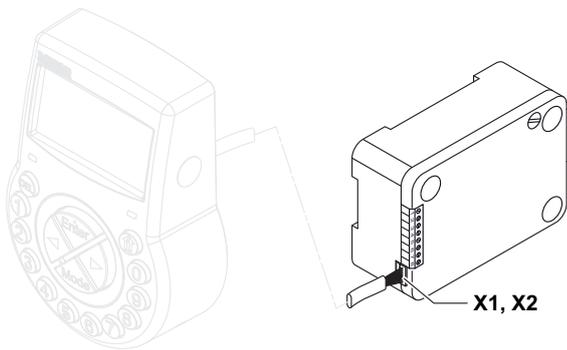
9. If needed, use two M4 threads in the front end of the lock bolt to fasten an extension.



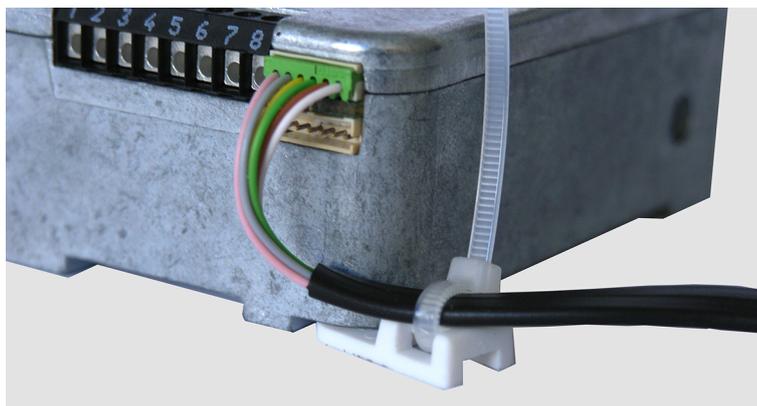
10. Observe the maximum force of 5N in both directions.



Connecting the connecting cable



1. Make sure that the connector is in the correct position.
2. Carefully plug the connecting cable into 1 of the lock sockets X1 or X2.
3. Tighten the connecting cable with the cable tie and carefully attach excess cable.



14.4 External connections on the lock

The configuration of input 2 and the corresponding terminals 7 and 8 is realized via AS284-USB programming software. Input 2 operates with inverted logic.

When input 2 is assigned as "door contact" and the checkbox "invert contact (open contact to trigger)" is not selected in AS284-USBW programming software, the lock evaluates the open lock terminals 7 and 8 being electrically disconnected as "door open".

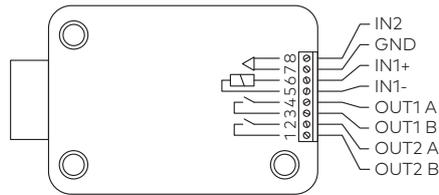
Once the lock is open, the bolt remains as long open as the terminals 7 and 8 are open.

When a micro switch is connected to input 2 and the closed micro switch indicates the status "door open", both checkboxes "Invert input (open contact to trigger)" and "door contact" must be selected in AS284-USBW programming software for a smooth operation.

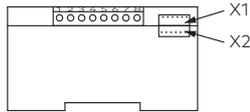


It is possible to connect additional external signals to the lock terminal block.

It is possible to change the function and polarity of inputs and outputs with AS284-USBW programming software.



Terminals	Description	Unit	Remarks
1/2	Output 2 Factory setting: lock open (OR Boolean operation with bolt and motor)	30VDC/2A	Relay with potential-free working contacts NO (normally open). Contact is open when lock is closed.
3/4	Output 1 Factory setting duress alarm	50VAC/0.5A with resistive load	Relay with potential-free working contacts NO (normally open). Contact is closed when duress alarm is activated.
5(-)/6(+)	Input 1 Factory setting not assigned Optional: remote disabling or controlled disabling	9 ...18VDC (minimum 13mA and maximum 20mA)	
7/8	Input 2 Factory setting: not assigned, configurable via AS284-USBW programming software Optional: <ul style="list-style-type: none"> • Door contact • Skip Time Delay • Time Locking Interruption and • external input event A - F 	Potential-free contact	Do not apply any voltage, potential-free contact only. Use a suitable micro switch with gold-plated contacts 12VDC/50mA (e.g. DB series by Cherry). If input 2 is assigned as "door contact" and not inverted, an open switch contact is used as "door open". The bolt is as long open as terminals 7 / 8 are electrically disconnected.



Sockets	Description	Remarks
X1, X2	Connection for input unit or connection for power supply	Use the enclosed connecting cable. Only use the original Axessor power supply.

14.5 Wiring

There are 2 options to set up a safe lock system:

- Cold plugging
- Hot plugging

The higher the number of used components and the bigger the distances between the components, it is important to follow this rule:

- To create a wiring loop if the distance between the components is rather high.
- To connect the power supply with a maximum distance from the input unit.

14.5.1 Cold plugging



When wiring a safe lock system neither put batteries in the battery compartment nor connect an external power supply to the last position of the safe lock system.

The following instruction describes the setting up of a standard safe lock system with all optional devices (a second input unit and an external power supply).

It is assumed that the locks have only factory settings.
The functions Freeze and Lock info are set to OFF on the master lock.

Connecting an input unit and locks

1. Connect the connecting cable from the 6-pole connector terminal of the input unit to terminal X1 of the first lock.
2. Connect the connecting cable from terminal X2 of the first lock to terminal X1 of the second lock.
3. Repeat the step before for the remaining locks.

Connecting an optional external power supply

1. Plug the external 6 VDC power supply to terminal X2 of the last lock.
2. Do not connect the power supply to the line voltage.

Connecting a second optional input unit

1. Connect the connecting cable from terminal X2 of the last lock to the 6-pole connector terminal of the second input unit.
2. Do not put batteries in battery compartment of the second input unit.

Powering the safe lock system



Pay attention to the polarity of the batteries.

1. Carefully pull out the battery compartment until it comes to a stop.
2. Put 3 professional alkaline batteries, industrial by DURACELL® into the battery compartment of only 1 input unit. according to the markings of the receptacle.
3. Connect the power supply to the line voltage.
 - ⇒ After having finished this procedure, the safe lock system initializes itself. A test routine will be initiated.
 - ⇒ The following displays appear one after another and a beep signal sounds. The version number can vary.



4. Close the battery compartment.
5. Wait until the error message BAT-CMP OPEN appears again.



6. Confirm the error message by entering the current Master code (default: 00123456) with **NUMERIC** keys.
7. Press the **ENTER** key.
 - ⇒ The lock opens and after approximately 6 seconds it closes again.



8. Tighten the battery compartment with hexagon countersunk screws.
9. Repeat the steps before for each lock.

The lock with the lowest serial number becomes the master lock, see Troubleshooting for identification of serial numbers.

The display shows LOCKED and the number of the lock position. The master lock is lock -1-. The slave locks have successive numbers from lock -2- to lock -10-. The assignment of the lock positions is random.

The "MOVE" command of the Device Manager must be used to assign the desired lock positions with the master lock.

14.5.2 Hot plugging



After a power interruption and the function Freeze was set to OFF, the safe lock system will initialize itself newly.

The safe lock system behaves as if it were set up according to the procedure cold plugging. The lock with the lowest serial number becomes the master lock.

To prevent the safe lock system from changing its lock positions, the function Freeze must be set to ON after connecting the first lock. The first lock becomes the master lock. The function Freeze must be set to OFF to continue setting up the safe lock system.



Power interruption includes: the batteries are empty and the line voltage is off or the batteries will be replaced and the line voltage is off.



Pay attention to the polarity of the batteries. Before wiring a safe lock system put the batteries in the battery compartment of only 1 input unit.

It is assumed that the locks have only factory settings.
The functions Freeze and Lock info are set to OFF on the master lock.

Connecting the input unit and the master lock

- Carefully pull out the battery compartment until it comes to a stop.
- Put 3 professional alkaline batteries, industrial by DURACELL® into the battery compartment according to the markings in the receptacle.
- Connect the connecting cable from the 6-pole connector terminal of the input unit to terminal X1 of lock -1-.
 - ⇒ The lock -1- becomes the master lock.
 - ⇒ After connecting the lock, a test routine will be initiated.
The following displays appear one after another and a beep signal sounds. The version number can vary.



- Close the battery compartment.
- Wait until the error message BAT-CMP OPEN appears again.



- Confirm the error message by entering the current Master Code (default: 00123456) with **NUMERIC** keys.
- Press the **ENTER** key.
 - ⇒ The lock opens. After approximately 6 seconds it closes again.



- Tighten the battery compartment with hexagon countersunk screws.

Connecting the slave locks

- Connect the connecting cable from terminal X2 of lock -1- to terminal X1 of lock -2- .
- Repeat the step before for the remaining slave locks.
 - ⇒ A test routine will be initiated.
When the error message BAT-CMP OPEN appears, the Master Code must be entered.

Connecting an optional external power supply

- Plug the external 6 VDC power supply to terminal X2 of the last lock.
- Connect the power supply to the line voltage.

Connecting a second optional input unit

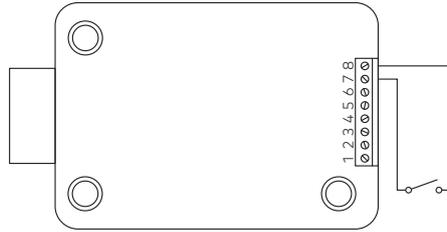
- Connect the connecting cable from terminal X2 of the last lock to the 6-pole connector terminal of the second input unit.
- Do not put batteries in battery compartment of the second input unit.

Safe lock system after finalized hot plugging procedure

The display shows LOCKED and the number of the lock position. The master lock is lock -1-. The slave locks have successive numbers from lock -2- to lock -10-. The assignment of the lock positions corresponds to the sequence of the connected locks.

14.5.3 Wiring options

Wiring the door contact

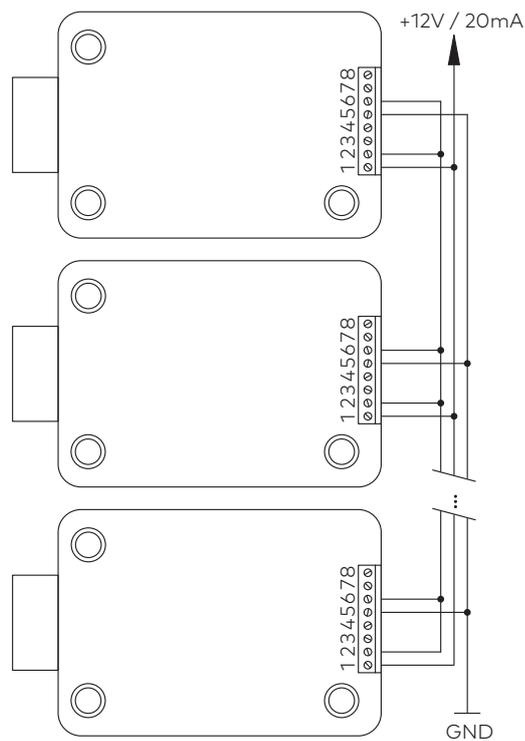


Interlocking of multiple locks

Example for 1 lock opens at a time within a safe lock system with 3 locks.

The following settings must be entered in AS284-USBW or AS284- NETW programming software:

- Output 2 = bolt or motor open
- Input 1 = controlled disabling



14.6 Wiring check of the lock

Requirements:

To perform a wiring check, all doors and drawers must be open.
 If during the wiring check the error message LINE OFF appears continuously:

- Make sure that all connecting cables are connected correctly.
- Make sure that no connecting cable is damaged.
- Disconnect the connecting cables and replace them, if necessary.
- Connect the connecting cables again.

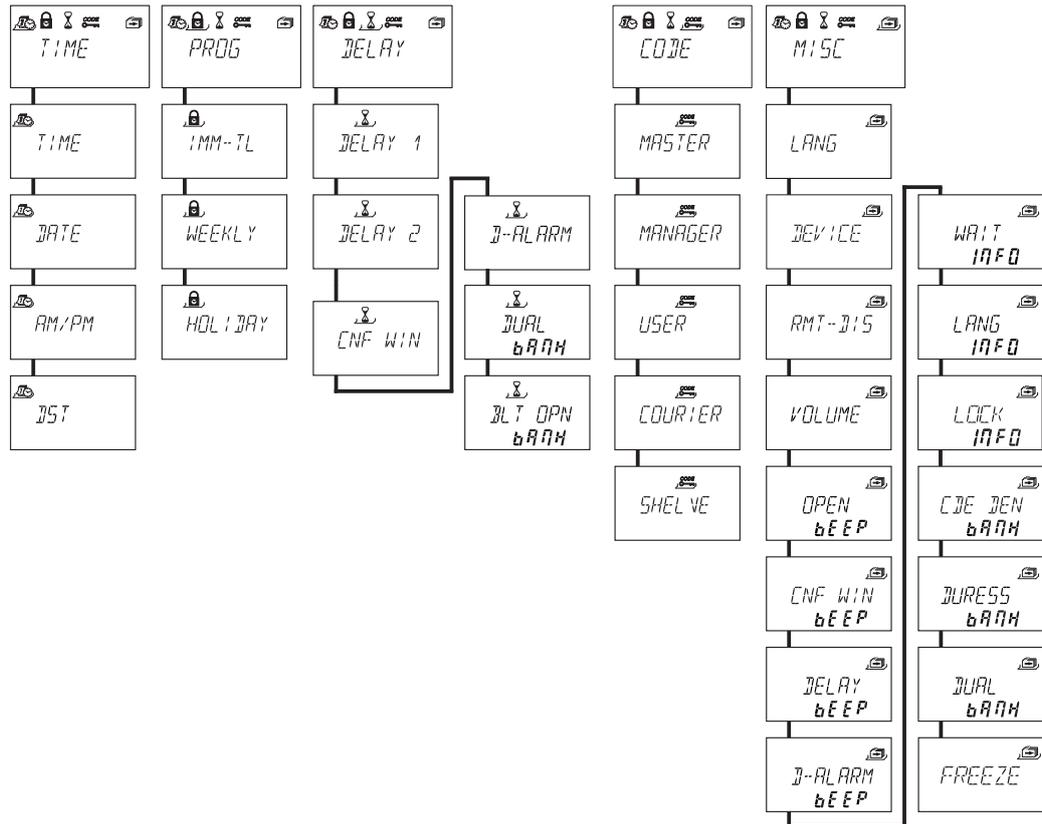
- Make sure that new batteries were put into the battery compartment, see Device Manager (bus system test).
- If another error message appears, see Troubleshooting.

15 Configuration

15.1 Programming Mode

The Programming Mode changes factory set parameters, settings, codes and other functions. It depends on the programming level which codes are required.

15.1.1 Menu overview of the master lock



Symbol	Menu	Function	Submenu
	TIME	setting time, date and time format	TIME DATE AM/PM DST
	PROG	configuring locking periods	IMM-TL WEEKLY HOLIDAY
	DELAY	configuring time delay	DELAY 1 DELAY 2 DELAY 3 DELAY 4 CNF WIN D-ALARM DUAL bank BLT OPN bank

Symbol	Menu	Function	Submenu
	CODE	changing codes	MASTER MANAGER USER COURIER SHELVE
	MISC	accessing additional functions	LANG DEVICE RMT-DIS VOLUME OPEN beep CNF WIN beep DELAY beep D-ALARM beep WAIT info LANG info LOCK info CDE DEN bank DURESS bank DUAL bank FREEZE

15.1.2 Accessing the Programming Mode

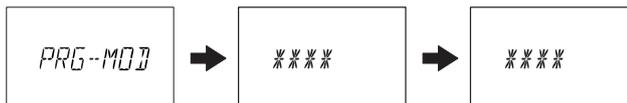


It is only possible to access the Programming Mode if the lock is open. The lock must remain open during configuration.

1. Open the lock.



2. Press the **MODE** key.



3. Enter a code, for example 00023054 by using the **NUMERIC** keys.
4. Confirm the code with the **ENTER** key.



- ⇒ Now the lock is in Programming Mode.
- ⇒ The main menu is displayed.
- ⇒ The content of the main menu depends on the entered code.

15.1.3 Changing and saving settings



It is possible to interrupt the modification dialog at any time without saving.

By pressing the **DEL** key or **INFO/ESC** key once or several times before entering the submenu.

1. Select the desired setting in the menu, for example "time".
2. Press the **Enter** key.



3. Select the desired subsetting and change the subsetting.



4. Press the **ENTER** key to confirm the subsetting.
 5. Select "YES" in the "SAVE?" dialog by using the **LEFT** or **RIGHT** arrow key.
 6. Press the **ENTER** key.
- ⇒ The message "Accepted" appears shortly and the input unit switches to the corresponding subsetting.

15.1.4 Exiting the Programming Mode

1. Press several times the **DEL** key or **INFO/ESC** key to return to operating mode.

15.1.5 Menu TIME

15.1.5.1 Setting the time

Authorization: Master code



To enable programming, the lock must be open during the entire programming process.

1. Select the submenu TIME.



2. Press the **ENTER** key.
- ⇒ The currently set time will be displayed.



3. Use the **LEFT** or **RIGHT** key to select the current hour and enter a new time.
4. Press the **ENTER** key to confirm.
5. Use the **LEFT** or **RIGHT** arrow key to adjust the minutes.
6. Select "YES" in the "SAVE?" dialog by using the **LEFT** or **RIGHT** arrow key.
7. Press the **ENTER** key.

15.1.5.2 Setting the date

Authorization: Master code



The respective weekdays and leap years are automatically calculated with the internal calendar (calendar range: Jan-1-2000 ... Dec-31-2099).

1. Select the submenu DATE.



2. Press the **ENTER** key.
 - ⇒ The currently set date will be displayed.



3. Use the **LEFT** or **RIGHT** key to select the current month.
4. Press the **ENTER** key to confirm and move to the day.
5. Use the **LEFT** or **RIGHT** key to select the day.
6. Press the **ENTER** key to confirm and move to the year.
7. Use the **LEFT** or **RIGHT** key to select the year.
8. Press the **ENTER** key to confirm.
9. Select "YES" in the "SAVE?" dialog by using the **LEFT** or **RIGHT** arrow key.
10. Press the **ENTER** key.
 - ⇒ The message **ACCEPTED** appears for a short time period and the input unit returns to the submenu DATE.

15.1.5.3 Setting the time format AM/PM

Authorization: Master code



With „AM/PM ON“ the time is displayed in 12 hour format (1:00 until 12:59).
 With „AM/PM OFF“ the time is displayed in 24 hour format (00:00 until 23:59).

1. Select submenu **AM/PM**.



2. Press the **ENTER** key.
 - ⇒ The currently set time format will be displayed.

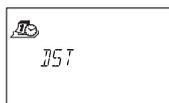


3. Select either **ON** or **OFF** by pressing the **LEFT** or **RIGHT** arrow key
4. Select "YES" in the "SAVE?" dialog by using the **LEFT** or **RIGHT** arrow key.
5. Press the **ENTER** key.

15.1.5.4 Setting DST

Authorization: Master code

1. Select the submenu **DST**.



2. Press the **ENTER** key.
 - ⇒ The automatic DST will be displayed.



3. Select either **ON** or **OFF** by pressing the **LEFT** or **RIGHT** arrow key.

4. Select "YES" in the "SAVE?" dialog by using the **LEFT** or **RIGHT** arrow key.
5. Press the **ENTER** key.

15.1.6 Menu PROG

15.1.6.1 Activating the Immediate Time Lock

With this function it is possible to activate a locking period with immediate effect.

When the lock is closed it is not possible to open it for the set time period.

The Immediate Time Lock is not related to time / date.

It is not possible to bypass the Immediate Time Lock, unless the Master was set to "Master can override the Immediate Time Lock".



The maximum duration of an Immediate Time Lock is 144 hours.

The duration of the Immediate Time Lock can be limited in the AS284-USBW programming software.

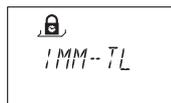
Changing hours and minutes to 000:00 will deactivate the Immediate Time Lock.



The factory setting for Manager Codes "can activate Immediate Time Lock" is ON.

The setting Manager Codes "can activate Immediate Time Lock" can be set in AS284-USBW programming software.

1. Select the submenu **IMM-TL**.



2. Press the **ENTER** key.



3. Use the **LEFT** or **RIGHT** arrow key to set the duration of time in hours and minutes to define the locking period of the Immediate Time Lock.
4. Select "YES" in the "SURE?" dialog by using the **LEFT** or **RIGHT** arrow key.
5. Press the **ENTER** key.

15.1.6.2 Configuring Weekly Locking Periods



Depending on the configuration of the lock, Weekly Locking Periods can last from 1 minute up to 6 days, 23 hours and 59 minutes.

It is possible to define up to 16 locking periods (with repetition).

During these locking periods it is not possible to open the lock (for example outside business hours).

15.1.6.2.1 Adding a Weekly Locking Period



If the maximum of 16 defined locking periods is reached, no further entries are possible. The display does not react any more.



The entry of day and time depends on the AM/PM setting.

If the time format is set to 12 hours (AM/PM On), the weekdays are numbered: Sunday = 1, Monday = 2 ... Saturday = 7.

If the time format is set to 24 hours (AM/PM Off), the weekdays are numbered: Monday = 1, Tuesday = 2 ... Sunday = 7.

1. Select the submenu **WEEKLY**.



2. Press the **ENTER** key.
 - ⇒ The count will be displayed.



3. Press the **ENTER** key to enter a new time period.
4. Use the **LEFT** or **RIGHT** arrow key to set the day and time for the starting point of the locking period.
5. Press the **ENTER** key to confirm the setting.
6. Use the **LEFT** or **RIGHT** arrow key to set the day and time for the endpoint of the locking period.



7. Select "YES" in the "SAVE?" dialog by using the **LEFT** or **RIGHT** arrow key.
8. Press the **ENTER** key.
9. Repeat steps 2 to 8 to define other locking periods or press the **INFO/ESC** key to exit the menu.

15.1.6.2.2 Changing an existing Weekly Locking Period



It must be possible to open the lock between 2 Weekly Locking Periods. Weekly Locking Periods are saved in a chronological order, starting with Monday.

1. Proceed as in the described sequence "Adding a Weekly Locking Period".
2. Instead of pressing the **ENTER** key to select a new time period, use the **RIGHT** or **LEFT** arrow key to select the Weekly Locking Period to be changed.
3. Press the **ENTER** key to confirm the selection.
4. Overwrite the Weekly Locking Period.

15.1.6.2.3 Deleting an existing Weekly Locking Period

1. Select the submenu **WEEKLY**.



2. Press the **ENTER** key.
 - ⇒ The count will be displayed.
3. Use the **RIGHT** or **LEFT** arrow key to select the starting point of the Weekly Locking Period to be deleted.



4. Press the **DEL** key.
5. Select "YES" in the "CLEAR?" dialog by using the **LEFT** or **RIGHT** arrow key.

6. Press the **ENTER** key to confirm the deletion.
 - ⇒ The count will be displayed.

15.1.6.3 Configuring Holiday Locking Periods

It is possible to define up to 22 date-related locking periods with this function. During these locking periods it is not possible to open the lock (for example holidays or public holidays).

15.1.6.3.1 Adding a Holiday Locking Period

Requirements:

- There must be a time gap of at least 1 day between 2 Holiday Locking Periods.
- It is only possible to configure 2 Holiday Locking Periods without time gaps, if 1 Holiday Locking Period is repetitive and the other one is non-repetitive.



If repetitive and non-repetitive Holiday Locking Periods are configured without time gaps, there will be a high risk of a lock-out.

If the maximum of 22 defined Holiday Locking Periods is reached, no further entries are possible.

The display does not react any more.

1. Select the submenu **HOLIDAY**.



2. Press the **ENTER** key.
 - ⇒ The count will be displayed.



3. Press the **ENTER** key to define a new time period.
4. Use the **LEFT** or **RIGHT** arrow key to set the month, day and year for the starting point of the Holiday Locking Period.



5. Press the **ENTER** key to confirm the settings.
6. Use the **LEFT** or **RIGHT** arrow key to set the month, day and year for the endpoint of the Holiday Locking Period.



7. Select "YES" in the "SAVE?" dialog by using the **LEFT** or **RIGHT** arrow key.
8. Press the **ENTER** key.

15.1.6.3.2 Changing an existing Holiday Locking Period

1. Proceed as in the described sequence "Adding a Holiday Locking Period".
2. Instead of pressing the **ENTER** key to define a new time period, use the **RIGHT** or **LEFT** arrow key to select the Holiday Locking Period to be changed.
3. Overwrite the Holiday Locking Period.

15.1.6.3.3 Deleting an existing Holiday Locking Period

1. Select the submenu **HOLIDAY**.



2. Press the **ENTER** key.
3. Use the **RIGHT** or **LEFT** arrow key to select a starting point for the Holiday Locking Period to be deleted.



4. Press the **DEL** key.
5. Select "YES" in the "CLEAR" dialog by using the **LEFT** or **RIGHT** key .
6. Press the **ENTER** key to confirm the setting.

15.1.7 Menu DELAY

15.1.7.1 Setting and deactivating Time Delays

Submenu DELAY 1 ... 2

Once a valid code is entered, the lock will only open after the configured Time Delay has elapsed.

It is possible to set a Time Delay for each user group between 0 (deactivated, no time delay) and 99 minutes.



Ex factory Time Delays are deactivated (set to 00:00).

The maximum configurable value of a Time Delay must be shorter than the shortest time gap between any 2 Weekly Locking Periods.

By entering a Courier Code it is possible to open the lock without a time delay.

Time Delays

	Valid for		
Time Delay 1	Master	Manager 1	Users 11 ... 19
Time Delay 2	-	Manager 2	Users 21 ... 29

1. Select the submenu **DELAY 1, DELAY 2**.



2. Press the **ENTER** key.
 - ⇒ The currently set Time Delay will be displayed.



3. Use the **LEFT** or **RIGHT** arrow key to set the defined Time Delay.
4. Press the **ENTER** key.
5. Select "YES" in the "SAVE?" dialog by using the **LEFT** or **RIGHT** arrow key.

6. Press the **ENTER** key to confirm the setting.



It is possible to configure a Duress Time Delay for each user group via AS284-USBW programming software.

In contrast to normal Time Delays it is possible to set a shorter or longer time period for the Duress Time Delay.

It is also possible to suppress Time Delays with an external signal. This option allows to open the lock without a Time Delay (for example to empty ATMs).

Duress Time Delays

	Valid for		
Duress Time Delay 1	Master	Manager 1	Users 11 ... 19
Duress Time Delay 2	-	Manager 2	Users 21 ... 29

15.1.7.2 **Configuring the Confirmation Window**

Submenu CNF WIN

To prevent the lock from opening automatically after a defined Time Delay has elapsed, a Confirmation Window will start in which a valid code must be entered within a limited time frame.



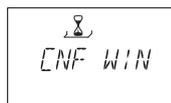
Ex factory the Confirmation Window is set to 5 minutes.

The minimum value is 1 minute.

The maximum configurable value of a Time Delay must be shorter than the shortest time gap between any 2 Weekly Locking Periods.

It is not possible to deactivate the Confirmation Window.

1. Select the submenu **CNF WIN**.



2. Press the **ENTER** key.
⇒ The currently set confirmation time will be displayed.



3. Use the **LEFT** or **RIGHT** arrow key to set the defined confirmation time (setting from 1:00 to 99:00 minutes).
4. Press the **ENTER** key.
5. Select "YES" in the "SAVE?" dialog by using the **LEFT** or **RIGHT** arrow key.
6. Press the **ENTER** key to confirm the settings.

15.1.7.3 **Configuring Bolt Open Time**

Submenu BLT OPN bank

Authorization: Master Code



Ex factory the Bolt Open Time is set to 6 seconds.

When the lock is opened, it will close automatically when the Bolt Open Time has elapsed. It is possible to prevent the lock from closing automatically either when a door contact is connected or the bolt work is kept open..

1. Select the submenu **BLT OPN bank**.



2. Press the **ENTER** key.

⇒ The current Bolt Open Time will be displayed (minutes:seconds).



3. Use the **LEFT** or **RIGHT** arrow key to set the desired Bolt Open Time (setting from 00:06 to 99:00 minutes).
4. Press the **ENTER** key.
5. Select "YES" in the "SAVE?" dialog by using the **LEFT** or **RIGHT** arrow key.
6. Press the **ENTER** key to confirm the setting.

15.1.8 Menu CODE

15.1.8.1 Authorization of codes

Each of the 4 code types (Master, Manager, User and Courier) has a different authorization.

There are 3 options to make changes:

- To activate (A) a code
- To modify (M) a code or
- to delete (D) codes.

	Changes to be made by owner of			
	Master Code	Resp. Manager Code	Resp. User Codes	Courier Code
Master Code	M	-	-	-
Manager Code	A M D	M	-	-
User Code	A M D	A M D	M	-
Courier Code	A M D	-	-	M

15.1.8.2 Changing the Master Code

Submenu MASTER

Authorization: Master Code

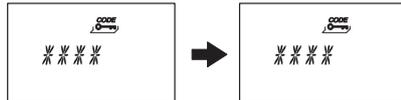
1. Select the submenu **MASTER**.



2. Press the **ENTER** key.



3. Select "YES" by using the **LEFT** or **RIGHT** arrow key.
4. Press the **ENTER** key.
5. Use the **NUMERIC** keys to enter a new code.



6. Press the **ENTER** key to confirm the setting.
7. **CONFIRM** will be displayed shortly to ask the user to enter the same code to confirm the setting.
8. USE the **NUMERIC** keys to enter the same code again.
9. Press the **ENTER** key to confirm the setting.

15.1.8.3 Setting Manager Codes

Submenu **MANAGER**

Authorization: Master Code

1. Select the submenu **MANAGER**.



2. Press the **ENTER** key.

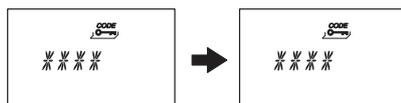


It is only required to select the submenu **Manager**, if the Programming Mode was entered with Master or Manager Code.

3. Use the **LEFT** or **RIGHT** arrow key to select the Manager Code to be set.
 - ⇒ Manager Codes, which have already been activated, will be displayed as "USED", not activated codes will be displayed as "- - -").



4. Press the **ENTER** key.
5. Use the **NUMERIC** keys to enter a new code.



6. Press the **ENTER** key to confirm the setting.
 - ⇒ **CONFIRM** will be displayed shortly to ask the user to enter the same code again.
7. Use the **NUMERIC** keys to enter the same code again.
8. Press the **ENTER** key to confirm the setting.

15.1.8.4 Setting User Codes

Submenu USER

Authorization: Master Code or respective Manager Code

1. Select the submenu **USER**.



2. Press the **ENTER** key.



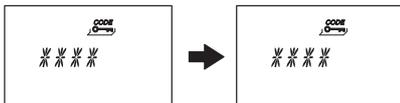
It is only required to select the submenu **User**, if the Programming Mode was entered with Master or Manager Code.

3. Use the **LEFT** or **RIGHT** arrow key to select the User Code to be changed.

⇒ User Codes, which have already been activated, will be displayed as "USED", not activated codes will be displayed as "- - - -".



4. Press the **ENTER** key.
5. Use the **NUMERIC** keys to enter a new code.



6. Press the **ENTER** key to confirm the setting.

⇒ "CONFIRM" will be displayed shortly and you are asked to enter the same code again.
7. Use the **NUMERIC** keys to enter the same code again.
8. Press the **ENTER** key to confirm.

15.1.8.5 Setting the Courier Code

Submenu COURIER

Authorization: Master Code

1. When entering with the Courier Code, start with step 5.
2. Select the submenu **COURIER**.

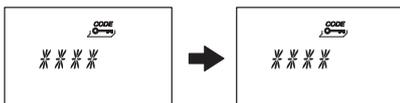


3. Press the **ENTER** key.



⇒ An activated Courier Code will be displayed as "USED".
 An deactivated Courier Code will be displayed as "- - - -".

4. Press the **ENTER** key.
5. Use the **NUMERIC** keys to enter a new code.



6. Press the **ENTER** key to confirm the setting.
 - ⇒ "CONFIRM" will be displayed shortly to ask the user to enter the same code again.
7. Use the **NUMERIC** keys to enter the same code.
8. Press the **ENTER** key to confirm the setting.

15.1.8.6 Changing codes

Authorization: Own code or a higher code

Steps 1 - 6 must only be carried out, if the Programming Mode was entered with a higher code than the one to be changed.

1. Select the menu **CODE**.



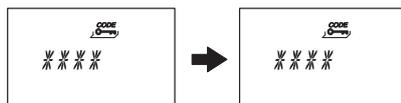
2. Press the **ENTER** key.
3. Use the **LEFT** or **RIGHT** arrow key to select the code (for example User Code) to be changed.



4. Press the **ENTER** key.
5. Use the **LEFT** or **RIGHT** arrow key to select the code (for example User Code 11) to be changed.
6. Press the **ENTER** key.
 - ⇒ The user is asked either to change or not to change the code.



7. Select "YES" by using the **LEFT** or **RIGHT** arrow key.
 - ⇒ Press the **ENTER** key to confirm the changed code.
8. Use the **NUMERIC** keys to enter a new code.



9. Press the **ENTER** key to confirm the changed code.
 - ⇒ "CONFIRM" will be displayed shortly to ask the user to enter the same code again.
10. Use the **NUMERIC** keys to enter the same code.
11. Press the **ENTER** key to confirm the setting.

15.1.8.7 Deleting a code

Authorization: A higher code than the own code



The Master Code cannot be deleted.

When a Manager Code is deleted, the respective group of User Codes remains unchanged.

1. Select the menu **CODE**.



2. Press the **ENTER** key.
3. Use the **LEFT** or **RIGHT** arrow key to select the code type (for example "user") to be changed.
4. Press the **ENTER** key.
5. Use the **LEFT** or **RIGHT** arrow key to select the code (for example "User Code 11") to be changed.



6. Press the **DEL** key.
 - ⇒ The user is asked either to delete or not to delete the code.



7. Select "YES" by using the **LEFT** or **RIGHT** arrow key.
8. Press the **ENTER** key to confirm the deletion.

15.1.8.8 Resetting the electronic safe lock

Submenu **SHELVE**



With the Shelve Function it is possible to reset the electronic safe lock to factory settings.

All codes will be deleted and all parameters such as Time Delay, Time Locking Function, Dual Mode will be set to factory settings.

Time/date, opening counter and audit trail remain unchanged.



Keep in mind that all data is lost when the electronic safe lock will be reset to factory settings. It is recommended to save all data via AS284-USBW programming software prior to shelving. Keep in mind that codes cannot be saved.

Authorization: Master Code

1. Select the submenu **SHELVE**.



2. Press the **ENTER** key.



- ⇒ The user is asked either to reset or not to reset all data to factory settings.
3. Select "YES" by using the **LEFT** or **RIGHT** arrow key.
 4. Press **ENTER** key.
 - ⇒ All data is reset to factory settings.

15.1.9 Menu MISC

15.1.9.1 Setting the Display Language

By default the display language is English. It is possible to set the display language either with the input unit or via AS284-USB programming software.



It is possible to change the display language in the information menu without entering an access code.

Authorization: Master Code or any Manager Code

1. Select the submenu **LANG**.



2. Press the **ENTER** key.
 - ⇒ The currently set display language will be displayed.



3. Use the **LEFT** or **RIGHT** arrow key to select the desired display language.
4. Press the **ENTER** key to confirm the selected display language.
5. Select "YES" in the "SAVE?" dialog by using the **LEFT** or **RIGHT** arrow key.
6. Press the **ENTER** key to confirm the setting.

15.1.9.2 Managing the safe lock system with the Device Manager



The range of functions of the master lock differs from the functions of the slave locks. The Device Manager of a slave lock only displays 2 connected devices: the input unit and the respective slave lock. The slave lock is only able to check the type, version, the last 8 digits of the serial number and a customized 5-digit number of the respective slave lock. A bus system test of the respective slave lock and the input unit can be conducted.

The Device Manager comprises several functions:

- Checking the number of connected devices (locks and input units)
- Conducting a simple bus system test
- Moving selected locks to another lock position

Authorization: Master Code

1. Select the Submenu **DEVICE** on the master lock.



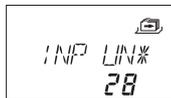
2. Press the **ENTER** key.
 - ⇒ The Device Manager displays the number of all connected devices of the safe lock system.

3. Press the **Right** arrow key to select the desired device.

⇒ The selected devices will be displayed.



⇒ Up to 10 connected slave locks will be displayed.



4. Press the **ENTER** key to confirm the setting.

15.1.9.2.1 Entering the lock parameters and testing the bus system

There are 2 options:

- Checking the lock parameters by selecting a desired lock from the lock list
- Conducting a bus system test of the safe lock system



Any counter number over 040 is a good result of a bus system test. There is a connection to the tested device.

If the counter numbers are between 000 and 040 it is recommended to check the wiring.



The Device Manager of the master lock displays the number of all connected devices of the safe lock system.

The Device Manager of the slave locks displays the number 002 (the respective slave lock and input unit).

Authorization: Master Code

1. Select the submenu **DEVICE**.



2. Press the **ENTER** key.

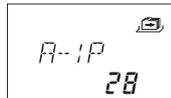
⇒ The Device Manager displays the number of all connected devices of the safe lock system.

3. Press the **Right** arrow key to select the desired device.



⇒ The selected device will be displayed.

4. Press the **ENTER** key.



⇒ The safe lock type and the version number will be displayed.

5. Press the **Right** arrow key.



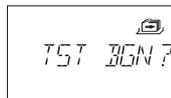
⇒ The last 8 digits of the serial number of the selected lock will be displayed.

6. Press the **Right** arrow key.



⇒ The customized 5-digit number will be displayed. By default, these are the last 5 digits of the serial number.

7. Press the **Right** arrow key.



⇒ A bus system test of the selected device can be started.

8. Press the **ENTER** key.

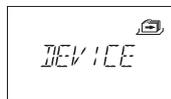
⇒ The bus system test starts.
The counter starts from 000 and can count up to the maximum value of 360.

⇒ The test result will be displayed.

15.1.9.2.2 Moving the selected lock

Authorization: Master Code

1. Select the submenu **DEVICE** on the master lock.

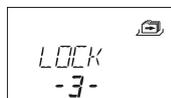


2. Press the **ENTER** key.



⇒ The Device Manager displays the number of all connected devices of the safe lock system.

3. Press the **Right** arrow key to select the desired device.



⇒ The selected device will be displayed.

4. Press the **ENTER** key.



⇒ The safe lock type and the version number will be displayed.

5. Press the **Right** arrow key.



⇒ The last 8 digits of the serial number of the selected lock will be displayed.

6. Press the **Right** arrow key.



⇒ The customized 5-digit number will be displayed.
These are the last 5 digits of the serial number.

7. Press the **Right** arrow key.



⇒ The selected lock -3- can be moved to another lock position.

8. Press the **ENTER** key.

⇒ "MOVE TO" and the current lock position will be displayed.

9. Use the **LEFT** or **RIGHT** arrow key to select the new lock position.

10. Press the **ENTER** key to confirm the new lock position.

11. Select "YES" in the "SAVE?" dialog by using the **LEFT** or **RIGHT** arrow key.

12. Press the **ENTER** key to confirm the setting.

15.1.9.3 Activating or deactivating Remote Disabling

It is possible to deactivate the opening of a closed lock with an external signal. This function is used when an additional identification is required (for example badge, biometrics) or when it is necessary to prevent the lock from opening (for example when the alarm system is activated).



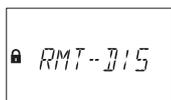
One of the inputs must be configured with AS284-USBW programming software to use the Remote Disabling function.

Remote Disabling is not activated when the lock is open. The lock can be operated normally.

It is possible to override the Remote Disabling function with the Master code to avoid a total lock-out if the external signal fails.

Authorization: Master Code

1. Select the submenu **RMT-DIS**.



2. Press the **ENTER** key.

⇒ **RMT-DIS** will be displayed.



3. Select either **ON** or **OFF** by using the **LEFT** or **RIGHT** arrow key.
4. Press the **ENTER** key to confirm the setting.
5. Select "YES" in the "SAVE?" dialog by using the **LEFT** or **RIGHT** arrow key.
6. Press the **ENTER** key to confirm the setting.

15.1.9.4 Setting the Beeper Volume

Authorization: Master Code

1. Select the submenu **VOLUME**.



2. Press the **ENTER** key.
 - ⇒ The current volume will be displayed.



3. Use the **LEFT** or **RIGHT** arrow key to set the desired volume (000 for off, 001 for low and 002 for high volume).
4. Press the **ENTER** key to confirm the setting.
5. Select "YES" in the "SAVE?" dialog by using the **LEFT** or **RIGHT** arrow key.
6. Press the **ENTER** key to confirm the setting.

15.1.9.5 Activating or deactivating Open Beeper

The Open Beeper function is used to notify the user if for example a safe door is open or the bolt work is unlocked.

10 short beep signals sound every 20 seconds.

Authorization: Master Code

1. Select the submenu **OPEN beep**.



2. Press the **ENTER** key.
 - ⇒ The message is displayed if the beeper is activated or deactivated.



3. Select either **ON** or **OFF** by using the **LEFT** or **RIGHT** arrow key.
4. Press the **ENTER** key to confirm the setting.
5. Select "YES" in the "SAVE?" dialog by using the **LEFT** or **RIGHT** arrow key.
6. Press the **ENTER** key to confirm the setting.

15.1.9.6 Activating or deactivating the Beeper for Door Opening Alarm

This setting activates or deactivates the Beeper for Door Opening Alarm.

If this setting is activated, a beep signal sounds repeatedly in short intervals after the opening time delay has elapsed.

Authorization: Master Code

1. Select the submenu **D-ALARM beep**.
2. Press the **ENTER** key.
 - ⇒ The message is displayed if the beeper is activated or deactivated.



3. Select either **ON** or **OFF** by using the **LEFT** or **RIGHT** arrow key.
4. Press the **ENTER** key to confirm the setting.
5. Select "YES" in the "SAVE?" dialog by using the **LEFT** or **RIGHT** arrow key.
6. Press the **ENTER** key to confirm the setting.

15.1.9.7 Activating or deactivating the Beeper Time Delay

This setting defines if an opening Time Delay is indicated with 1 beep signal every 60 seconds.

Authorization: Master Code

1. Select the submenu **DELAY beep**.



2. Press the **ENTER** key.
 - ⇒ The message is displayed if the beeper is activated or deactivated.



3. Select either **ON** or **OFF** by using the **LEFT** or **RIGHT** arrow key.
4. Press the **ENTER** key to confirm the setting.
5. Select "YES" in the "SAVE?" dialog by using the **LEFT** or **RIGHT** arrow key.
6. Press the **ENTER** key to confirm the setting.

15.1.9.8 Activating or deactivating Waiting Time

Authorization: Master Code

1. Select the submenu **WAIT info**.



2. Press the **ENTER** key.
 - ⇒ The message **WAIT** will be displayed.



3. Select either **ON** or **OFF** by using the **LEFT** or **RIGHT** arrow key.
4. Press the **ENTER** key to confirm the setting.
5. Select "YES" in the "SAVE?" dialog by using the **LEFT** or **RIGHT** arrow key.
6. Press the **ENTER** key to confirm the setting.

15.1.9.9 Activating or deactivating Language

This function defines which menu language is available.

Authorization: Master Code

1. Select the submenu **LANG** info.



2. Press the **ENTER** key.
3. Select either **ON** or **OFF** by using the **LEFT** or **RIGHT** arrow key.
4. Press the **ENTER** key to move to the next language.
5. After having defined the "last" language, select "YES" in the "SAVE?" dialog by using the **LEFT** or **RIGHT** arrow key.
6. Press the **ENTER** key to confirm the setting.

15.1.9.10 Setting the Lock Info

Authorization: Master Code

With the function Lock Info it is either possible to display the lock position (LOCK -1-) of the safe lock system or the customized 5-digit number. By default, these are the last 5 digits of the serial number.

1. Select the submenu **LOCK INFO** on the master lock.



2. Press the **ENTER** key.
 - ⇒ The message LOCK INFO will be displayed.
3. Select **OFF** by using the **RIGHT** arrow key to display the lock position (LOCK -1-).



4. Press the **ENTER** key.
5. Select "YES" in the "SAVE?" dialog by using the **LEFT** or **RIGHT** arrow key.
6. Press the **ENTER** key to confirm the setting.

15.1.9.11 Activating or deactivating Code Denial

With a higher code it is possible to deny access to a selected number of lower codes. An example for Code Denial is "off duty shifts".

In this case a selected number of users is locked out during a defined time period and re-assigned when starting to work.

It is also possible to deny access to a defined user group (with or without the respective Manager Code).

Authorization: Master Code or any Manager Code

1. Select the submenu **CDE DEN bank**.



2. Press the **ENTER** key.
 - ⇒ The Code Denial status of the user group 1 will be displayed.



3. Use the **LEFT** or **RIGHT** arrow key to select a user group or manager.
4. Press the **ENTER** key to confirm the setting.



5. Use the **LEFT** or **RIGHT** arrow key to activate (**CDE DEN ON**, access denied) or deactivate (**CDE DEN OFF**, access allowed) the Code Denial for the selected user group or manager.
6. Press the **ENTER** key to confirm the setting.
7. Repeat steps 2 to 5 for the selected user groups and managers.

15.1.9.12 Activating or deactivating the Duress Code Function

Submenu **DURESS bank**



After recognizing a duress, the output will change from sleep mode to operating mode. The output remains as long in operating mode (indicator for a duress) as a valid code without information of a duress is entered. The lock opens. The output only goes back to sleep mode after lock opening.



It is possible to set the duration of a duress time delay (a longer or shorter time period) irrespectively from a time delay.

If the lock is connected to an external alarm system, a silent duress alarm will be activated when a Duress Code is entered.

The alarm signal is not perceptible for the aggressor.

If the Duress Code function is activated, duress codes will be recognized.

If the lock is opened with a Duress Code, the defined Duress Time Delay will start.

Authorization: Master Code

1. Select the submenu **DURESS bank**.



2. Press the **ENTER** key.
 - ⇒ The currently set status of the Duress Code will be displayed. By default the Duress Code is set to off.



3. Use the **LEFT** or **RIGHT** arrow key to activate (**DURESS ON**) or deactivate (**DURESS OFF**) the Duress Code.
4. Press the **ENTER** key to confirm the setting.

15.1.9.13 Activating or deactivating Dual Mode

It is possible to configure the lock in a way that 2 codes are required for lock opening. Dual Mode is applied when only 2 persons are authorized to open the lock.

Authorization: Master Code

1. Select the submenu **DUAL bank**.



2. Press the **ENTER** key.
 - ⇒ The currently set status of the Dual Mode will be displayed. By default Dual Mode is set to off.



3. Use the **LEFT** or **RIGHT** arrow key to activate (**DUAL ON**) or deactivate (**DUAL OFF**) the Dual Mode.
4. Press the **ENTER** key to confirm the setting.

15.1.9.14 Setting the Freeze function

15.1.9.14.1 Setting Freeze Off

The lock with the lowest serial number will be lock -1- (the master lock). When the function Freeze Off is activated, further devices (locks or input units) will be searched and connected automatically to the lock list.



If more than 15 locks are connected to the safe lock system, the error message ERROR -16- will be displayed.

Authorization: Master Code

1. Select the submenu **FREEZE** on the master lock.



2. Press the **ENTER** key.
3. Select **OFF** by using the **LEFT** or **RIGHT** arrow key.



4. Press the **ENTER** key to confirm the setting.
5. Select "YES" in the "SAVE?" dialog by using the **LEFT** or **RIGHT** arrow key.
6. Press the **ENTER** key to confirm the setting.

15.1.9.14.2 Setting Freeze On



To guarantee that the selected lock remains lock -1- (master lock), it is possible to set the function Freeze for a short moment to ON and then switch to Freeze OFF. The selected lock will be set as the master lock and even after a power interruption remains the master lock. Locks with lower serial numbers than the master lock will be added to the lock list as slave locks.

Lock -1- is the master lock. When the function Freeze ON is activated, no further locks will be added to the lock list. The error message ERROR -16- will be displayed when a new lock is added.

Authorization: Master Code

1. Select the submenu **FREEZE**.



2. Press the **ENTER** key.
3. Select **ON** by using the **LEFT** or **RIGHT** arrow key.



4. Press the **ENTER** key to confirm the setting.
5. Select "YES" in the "SAVE?" dialog by using the **LEFT** or **RIGHT** arrow key.

6. Press the **ENTER** key to confirm the setting.

16 Operation

16.1 Code entry



It is possible to distract a potential observer's attention from memorizing a code during code entry.

Only the first 7 and the last entered digit is considered as code.

Requirements:

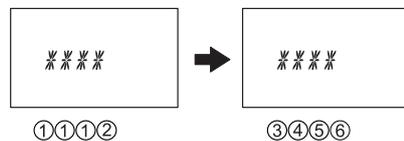
To distract a potential observer's attention from memorizing a code, the following procedure must be carried out:

1. Enter at least the first 7 digits and continue adding any possible number combination.
2. Enter the last digit of the code, for example **00123458921031 ... 256**.
3. Press the **ENTER** key.

Codes are entered in 2 groups of 4 digits.

The following procedure is carried out to open the lock or to enter the Programming Mode:

1. If necessary, press any key to wake up the display.
 - ⇒ The lock status appears, for example "LOCKED".
2. Enter the code, for example 11123456 by using the **NUMERIC** keys
 - ⇒ For every entered digit an asterisk appears.



3. Press the **ENTER** key to confirm the code.

16.2 Lock opening procedure

The desired lock must be selected with the **LEFT** or **RIGHT** arrow key.

It is not possible to open the lock during the following conditions:

- Penalty after wrong trials
- During active locking periods (Immediate Time Lock, Weekly or Holiday Locking Periods)
- When the battery compartment is open
- When Remote Disabling is in process
- During an active connection with the programming software



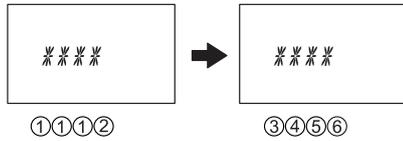
The opening procedure is valid for the activated functions Dual Mode and Time Delay. If neither Dual Mode nor Time Delay are set, the lock will open sooner.

If no key has been pressed for 1 minute, the display switches off automatically.

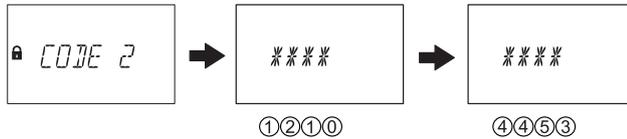
1. If necessary, press any key to wake up the display.
 - ⇒ The lock status is displayed.



2. Enter a code, for example 11123456 by using the **NUMERIC** keys.
 - ⇒ For every entered digit an asterisk appears.



3. Press the **ENTER** key to confirm the code.
4. If the input unit is set to Dual Mode, a second code must be entered.



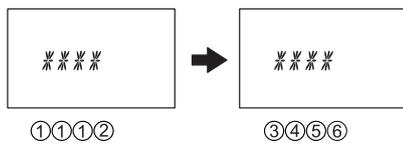
5. Press the **ENTER** key to confirm the code.
6. If an opening code with Time Delay was defined, the window for Opening Time Delay appears and the timer starts counting the set Time Delay.
 - ⇒ The remaining time will be displayed.
 - ⇒ Every 60 seconds a beep signal sounds while the Time Delay is counted. If the timer has elapsed, another beep signal indicates the end of the Opening Time Delay.



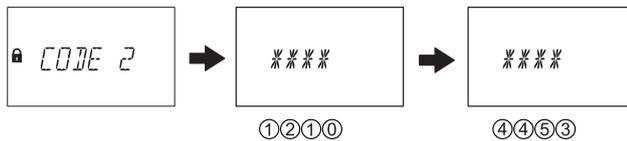
7. After the Opening Time Delay has elapsed, the Confirmation Window appears. The timer starts counting the set confirmation time. The remaining time for lock opening must be confirmed.



8. Enter the opening code.



9. Press the **ENTER** key to confirm the code.
10. If the input unit is set to Dual Mode, a second code must be entered.



11. Press the **ENTER** key to confirm the code.
 - ⇒ The lock opens.



12. Open the safe.
 - ⇒ If desired, continue in Programming Mode.

16.3 Lock closing procedure



The lock closes automatically when the bolt work is locked.

Depending on the safe design, there are additional factors which have an impact on the closing procedure.

17 Troubleshooting

17.1 Status messages on LCD



If various causes lead to more than 1 error message REFUSED xx, the number of error messages will be summed up.

Example: REFUSED 12 = REFUSED 04 + REFUSED 08
 REFUSED 50 = REFUSED 02 + REFUSED 16 + REFUSED 32

Status message on LCD	Cause	Solution	Menu	Submenu
BAT-CMP OPEN	Battery compartment was opened.	1. Make sure that the battery compartment is closed. 2. Make sure that nobody manipulated the input unit. 3. Enter the Master, any Manager or a User Code with special function (Battery Code) to delete the status message.	n/a	n/a

Status message on LCD	Cause	Solution	Menu	Submenu
LINE OFF	The connection between lock and input unit is temporarily interrupted.	<p>1. Wait until the lock is in sleep mode; wake up the lock by pressing the info key.</p> <p>2. If the message does not disappear automatically, remove the batteries and put the batteries in the battery compartment again.</p> <p>3. If the message does not disappear automatically, disconnect the connecting cable. Make sure that the connecting cable is not damaged. If necessary, replace it.</p> <p>4. Reconnect the connecting cable. Make sure that the connecting cable is connected correctly.</p> <p>5. If the message does not disappear automatically, make sure that new batteries were put in the battery compartment.</p> <p>6. If the message still does not disappear, call the vendor for technical support.</p>	n/a	n/a
ID ERROR	ID for Master Code is not 00	Make sure that the first 2 digits of the code reflect the ID.	CODE	MASTER
	ID for Manager Code is not 10 or 20			MANAGER
	ID for User Code is not 11 ... 19, 21 ... 29, 41, 47			USER
	ID for Courier Code is not 90			COURIER
REFUSED	Code change: The entered code does not match with the code entered before.	Make sure to enter the same code twice.	CODE	MASTER
				MANAGER
				USER
				COURIER
REFUSED 02	Unknown command: The desired function is not available. The installed components are not compatible.	Call the vendor for technical support.	n/a	n/a
REFUSED 04	Lock was closed during configuration.	Make sure that the lock remains open during configuration.	PROG	Any submenu

Status message on LCD	Cause	Solution	Menu	Submenu
REFUSED 08	Invalid date (for example Sept. 31 st) Date out of time limit (Jan. 31 st 2000 until Dec. 31 st 2099)	Enter a valid date within the time limit.	TIME	DATE
	Time window out of permitted range (a maximum of 6 days, 23 hours and 59 minutes)	Enter a shorter time window.	PROG	WEEK
	Time window out of permitted range (a maximum of 35 days) Invalid date (for example Sept. 31 st) Date out of time limit (Jan. 1 st 2000 until Dec. 31 st 2099)	Enter a shorter time window	PROG	HOLIDAY
REFUSED 16	The minimum interval (an interrupt) of all delays plus 1 minute was ignored before the next Weekly Locking Period had started.	Enter a valid date within the time limit.	PROG	WEEK
	The minimum interval (an interrupt) of all delays plus 1 minute was ignored before the next Weekly Locking Period had started.	Increase the interval duration.	PROG	HOLIDAY
	The minimum period of time was ignored.	Enter a valid time period. The minimum period of time is calculated by adding the Confirmation Window and 1 additional minute to the higher value of 2 time delays (Time Delay or Duress Time Delay)	PROG	DELAY
REFUSED 32	The memory is full (the maximum of 16 Weekly Locking Periods were defined and entered).	Make sure not to enter more than 16 Weekly Locking Periods.	PROG	WEEK
	The memory is full (the maximum of 22 Holiday Locking Periods were defined and entered)	Make sure not to enter more than 22 Holiday Locking Periods.	PROG	HOLIDAY
REFUSED 64	Unexpected data error.	1. Try again. 2. Call the vendor for technical support.	n/a	n/a

Status message on LCD	Cause	Solution	Menu	Submenu
REFUSED 128	Lock is no longer in Programming Mode. After having navigated for more than 5 minutes in the menu without configuring the lock, the Programming Mode will be closed.	Leave the Programming Mode before 5 minutes have passed and enter the Programming Mode again.	any	any
MOT FLT	A motion fault occurred during bolt movement.	<ol style="list-style-type: none"> 1. Reboot the input unit by removing the batteries. 2. Wait for 1 hour before inserting new batteries. 3. Make sure that the bolt moves smoothly. 4. Make sure that the bolt is not mechanically blocked. 5. Call the vendor for technical support, if the status message does not disappear. 	n/a	n/a
HDW FLT	A hardware fault	Proceed as in steps 1 to 5 for MOT FLT.	n/a	n/a

17.2 Identification of the lowest serial number

The serial number of the locks is a hexadecimal number.

The decimal number system uses 10 digits: 0, 1, 2, 3, 4, 5, 6, 7, 8, 9

The hexadecimal number system uses 16 digits: 0, 1, 2, 3, 4, 5, 6, 7, 8, 9, A, B, C, F

The conversion of the hexadecimal digits A ... F to the decimal numeral system corresponds to: A equals to 10 and F equals to 15.

For the identification of the lowest serial number of a lock, the serial number must be read from left to right and must be compared with the serial number of other locks.

Examples of dual lock systems

	Serial number	Result
Lock 1	43177 30B05 00A	Serial number 1 is lower than serial number 2
Lock 2	43375 32FB3 023	

	Serial number	Result
Lock 1	42984 2EA70 003	Serial number 2 is lower than serial number 1
Lock 2	42984 2EA6F 003	

	Serial number	Result
Lock 1	43375 30B05 00A	Serial number 1 is lower than serial number 2
Lock 2	43375 30B05 0A0	

18 Service

18.1 Cleaning

NOTICE

Damage to surface and interior of the input unit

Cleaning the input unit with aggressive cleaning agents, solvents, abrasive agents or sprays, will cause damage to the surface and interior of the input unit.

- Do not use cleaning agents containing hydrogen peroxide.
- Do not use solvents or abrasive agents.
- Do not use aerosol sprays.
- Do not spray liquids directly onto the surface.
- Avoid getting moisture in the interior of the input unit.



To clean the input unit, use a damp, soft and lint-free cloth and apply a mild cleaning agent.

18.2 Replacing batteries

The input unit is powered by 3 alkaline AA batteries 1.5 V - LR6 or 3 lithium AA batteries 1.5 V - FR6.



Keep in mind that batteries must be changed as soon as the symbol "battery low" appears on the display.

Batteries must be changed latest when the status message "CHANGE BATT" is displayed.

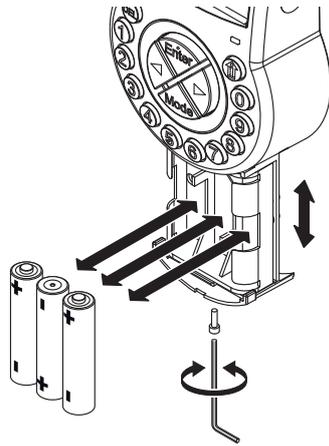
Re-adjust the time and date after replacing the batteries.



After a power interruption (no batteries were inserted or the batteries are empty and the line voltage is off), the function Freeze was set to OFF, the safe lock system will initialize itself newly.

The safe lock system behaves as if it were set up according to the procedure cold plugging. The lock with the lowest serial number becomes the master lock.

To prevent the safe lock system from changing its lock positions, the function Freeze must be set to ON after connecting the first lock. The current master lock will be saved in the system. The function Freeze must be set to OFF.



1. Deinstall the screw from the battery compartment on the bottom of the input unit.
2. Carefully pull out the battery compartment until it comes to a stop.
3. Replace the 3 old batteries by 3 new ones of the same type (3 alkaline AA batteries 1.5 V - LR6 or 3 lithium AA batteries 1.5 V - FR6).



If the lock is without power, the internal clock will stop and reset the time to the last hour. All other settings are saved in the power-failure proof memory of the input unit.

4. As soon as the batteries are put in the battery compartment, a test routine will be initiated.
 - ⇒ The following displays appear one after another and a beep signal sounds. The version number can vary.



5. Close the battery compartment and install the screw.
6. Wait until the error message **BAT-CMP OPEN** appears again on the display.



7. Confirm the message by entering the Master Code, any Manager Code or a User Code with the capability to reset the battery message.
 - ⇒ The lock opens and closes again after the set opening time.
 - ⇒ The lock is in normal operating mode.
8. If there is no reaction after having entered the Master Code, any Manager Code or a special User Code (Battery Code), close the lock with opened door.
9. If the lock still does not react, enter the Master Code, any Manager Code or a User Code with the capability to reset the battery message.
10. Repeat the 3 previous steps for each lock of the safe lock system.

19 Maintenance

19.1 Replacing a defect lock

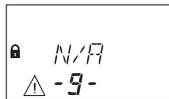
19.1.1 Removing the defect lock from the safe lock system

It is assumed that e.g. lock -9- is defect. The lock must be removed from the bus. The functions Freeze and Lock info are set to OFF on lock -1- (the master lock).

Authorization: Master Code

Checking the defect lock

1. Press the **Right** arrow key to navigate to lock -9-.



- ⇒ The display shows that the selected lock -9- is not applicable. It is possible that the error message LINE OFF will be displayed. After a few seconds the error message will disappear.

Removing the defect lock from the device list

1. Open lock -1- and prevent the lock from closing.
2. Enter the programming mode.
3. Select the menu **MISC**.
4. Press the **ENTER** key.
5. Select the submenu **DEVICE**



6. Press the **ENTER** key.



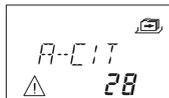
- ⇒ The Device Manager displays the number of all connected devices of the safe lock system.

7. Press the **Right** arrow key to select the defect device.



- ⇒ The defect device will be displayed.

8. Press the **ENTER** key.



- ⇒ The type of safe lock with the version number will be displayed.

9. Press the **Right** arrow key.



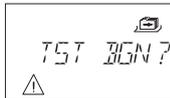
⇒ The last 8 digits of the serial number of the defect lock will be displayed.

10. Press the **Right** arrow key.



⇒ The customized 5-digit number will be displayed. By default, these are the last 5 digits of the serial number.

11. Press the **Right** arrow key.



⇒ A bus system test of the selected device can be started.

12. Press the **Right** arrow key.



⇒ The defect lock -9- can be removed.

13. Press the **ENTER** key.

14. Select "YES" in the "SURE?" dialog by using the **LEFT** or **RIGHT** arrow key.

15. Press the **ENTER** key to confirm the setting.

⇒ The display shows ACCEPTED.
The defect lock is removed from the device list.

Removing the defect lock from secure storage unit

1. Remove the defect lock.

19.2 Adding a new lock to the safe lock system

19.2.1 Adding a new lock with Freeze OFF



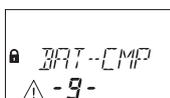
If more than 1 lock must be replaced, it is necessary to apply the function MOVE TO in order to add a new lock to the desired lock position.

It is assumed that e.g. lock -9- was defect and the lock was removed from the safe lock system. The safe lock systems indicates that lock position -9- is vacant.

The functions Freeze and Lock info are set to OFF on lock -1-(the master lock). A new lock will be added to lock position -9-.

Authorization: Master Code

1. Add the new lock to the secure storage unit.
2. Connect the bus cable from terminal X2 of the previous lock to terminal X1 of the newly added lock.
3. Connect the bus cable from terminal X2 of the newly added lock to terminal X1 of the subsequent lock.



- ⇒ After a few seconds the new lock will be placed automatically to the vacant lock position -9-.
The display shows a warning that the battery compartment of the newly added lock was opened.

4. Enter a Battery Code to be able to operate the lock.

19.2.2 Adding a new lock with Freeze ON

The function Freeze is set to ON and the Lock info is set to OFF on lock -1- (master lock).

It is assumed that e.g. lock -9- was defect and the lock was removed from the safe lock system. The safe lock systems indicates that lock position -9- is vacant. A new lock will be added to lock position -9-.

Authorization: Master Code

Adding a new lock

1. Add the new lock to the secure storage unit.
2. Connect the bus cable from terminal X2 of the previous lock to terminal X1 of the newly added lock.
3. Connect the bus cable from terminal X2 of the newly added lock to terminal X1 of the subsequent lock.



- ⇒ After a few seconds the new lock will be assigned to position -16-.
The display shows a warning with an error message for the newly assigned lock.

4. Press the **LEFT** or **RIGHT** arrow key as long as the error message with the lock position -16- will be displayed.



Changing the function Freeze to OFF

1. Open lock -1- and prevent the lock from closing.
2. Enter the programming mode.
3. Select the menu **MISC**.
4. Press the **ENTER** key.
5. Select the submenu **FREEZE**



6. Press the **ENTER** key.
7. Select **OFF** by using the **LEFT** or **RIGHT** arrow key.



8. Press the **ENTER** key to confirm the setting.
9. Select "YES" in the "SAVE?" dialog by using the **LEFT** or **RIGHT** arrow key.
10. Press the **ENTER** key to confirm the setting.

11. Press the **DEL** key several times to exit the programming mode.

Assigning the new lock to the vacant position

1. Wait until the new lock will be placed automatically to the vacant lock position -9-.
2. Press the **LEFT** or **RIGHT** arrow key several times.



- ⇒ The new lock has been assigned to the vacant lock position, when the display shows a warning with battery compartment open.

Changing the function Freeze to ON

1. Open lock -1- and prevent the lock from closing.
2. Enter the programming mode.
3. Select the menu **MISC**.
4. Press the **ENTER** key.
5. Select the submenu **FREEZE**



6. Press the **ENTER** key.
7. Select **ON** by using the **LEFT** or **RIGHT** arrow key.



8. Press the **ENTER** key to confirm the setting.
9. Select "YES" in the "SAVE?" dialog by using the **LEFT** or **RIGHT** arrow key.
10. Press the **ENTER** key to confirm the setting.
11. Press the **DEL** key several times to exit the programming mode.

Enabling the new lock for operation

1. Enter a Battery Code to be able to operate the lock.

19.3 Removing the error message of lock position -16-

1. Open lock -1- and prevent the lock from closing.
2. Enter the programming mode.
3. Select the menu **MISC**.
4. Press the **ENTER** key.
5. Select the submenu **DEVICE**.



6. Press the **ENTER** key.



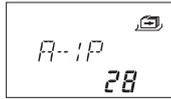
⇒ The Device Manager displays the number of all connected devices of the safe lock system.

7. Press the **Right** arrow key to select Lock -16-.



⇒ Lock -16- will be displayed.

8. Press the **ENTER** key.



⇒ The type of safe lock with the version number will be displayed.

9. Press the **Right** arrow key.



⇒ Dashes will be displayed instead of the last 8 digits of the serial number. The lock was not accepted in the lock list.

10. Press the **Right** arrow key.



⇒ Dashes will be displayed instead of the customized 5-digit number. The lock was not in the lock list.

11. Press the **Right** arrow key.

⇒ The message with the bus system test will be displayed.

12. Press the **Right** arrow key.

⇒ Lock -16- can be removed.

13. Select "YES" in the "SURE?" dialog by using the **LEFT** or **RIGHT** arrow key.

14. Press the **ENTER** key to confirm the setting.

⇒ The display shows ACCEPTED. Lock -16- is removed from the device list.

20 Disposal



Do not dispose used batteries in domestic waste.
Dispose batteries according to the local or national regulations.

Packaging material must be disposed or recycled according to national or local regulations.

At the end of the service life, the unit and its components must be returned to the manufacturer or must be disposed at a collecting point.

21 Spare parts and accessories

Spare part	Part number
Axessor USB input unit	AXESSOR-USBIU
Axessor USB lock unit	AXESSOR-USBLOCK
Axessor USB latchbolt lock unit without VdS certification	AXESSOR-USBLLOCK
Replacement WiBu dongle for AS284-W Administrator dongle	AS284-AW
Replacement WiBu dongle for AS284 Operator dongle	AS284-OW
Axessor installation kit	52 INST-S
USB data cable	1364-8
Connecting cable for lock/input unit/eBox 55 cm	52X+CAB55

Accessory	Part number
Axessor power supply 100-240 VAC / 6 VDC	52XVDC6
AS284-USB programming software	AS284-USBW