Instructions electronic Paxos Advance keypad lock

MANY THANKS!
You have chosen a product tested according to EN1143-1.
A Swiss quality product with VdS-tested security.
Please read these instructions carefully before operating your safe!
Opening the lock
"CLOSE" position

- First turn the opening handle anti-clockwise in the closed position (horizontal). This will release the bolt.
- Press ENTER and the display will show 'date, time, secured'. Press ENTER again and the display will show 'Open menu'.
- Press ENTER.
- The display will show 'code lock ......'. Enter ‘Code 11 22 33 10’ or 11 22 33 20 and then press ENTER.
- The lock will open and the messages 'lock opening', 'lock open, open bolt' will appear.
- Now the opening handle can be pushed down to open the safe door. Display shows 'Unlocked'.
- The CLR button can be used if a mistake is made while entering the code or if you want to go one step back in the menu while programming.

Closing the lock

- Close the safe door. Turn the opening handle anti-clockwise into the closed position (horizontal). The lock closes automatically and is therefore secured.
Important information:
The Paxos Advance lock contains 2 user codes and 1 master code. Up to 95 staff codes can also be defined. The following factory codes are pre-programmed:
The following codes must be changed:  The following codes can be changed:
User code 01 (OCa1):  11 22 33 10  Master code 00 (MA1):  11 99 88 77
User code 02 (OCb1):  11 22 33 20  (The lock cannot be opened with this code; it is required for defining the staff codes)

The electronic Paxos Advance high-security lock is usually in ‘sleep mode’ (energy-saving mode). The lock can be ‘woken up’ by pressing the ENTER button.

Code reprogramming

WARNING: User codes 1 and 2 must both be reprogrammed, because a third party could be aware of the factory code and may therefore be able to open the safe.

User code 01 (OCa1)
• When lock is open, press ENTER, confirm request ‘Code functions’ by pressing ENTER again
• Select ‘01 OCa1’ using the arrow key and confirm by pressing ENTER
• Display shows ‘change’, confirm by pressing ENTER
• Enter current code 1 (OCa1) (11 22 33 10 at first use) and confirm by pressing ENTER
• Enter new code (6-8 digits) and confirm by pressing ENTER
• Enter new code again and confirm by pressing ENTER. Display shows ‘Code saved’
• Turn the opening handle upward, the lock closes, test the new code at least 3 times with the door open

User code 02 (OCb1)
• When lock is open, press ENTER, confirm request ‘Code functions’ by pressing ENTER again
• Select ‘02 OCb1’ using the arrow key and confirm by pressing ENTER
• Display shows ‘change’, confirm by pressing ENTER
• Enter current code 2 (OCb1) (11 22 33 20 at first use) and confirm by pressing ENTER
• Enter new code (6-8 digits) and confirm by pressing ENTER
• Enter new code again and confirm by pressing ENTER. Display shows ‘Code saved’
• Turn the opening handle upward, the lock closes, test the new code at least 3 times with the door open
Master code 1

- When the lock is open, press ENTER and confirm ‘code functions’ request by pressing ENTER again
- Select ‘00 MA’ using the arrow key and confirm by pressing ENTER
- Display shows ‘change’, confirm by pressing ENTER
- The display shows ‘Code lock (MA)’, enter current master code (11 99 88 77 at first use) and confirm by pressing ENTER
- Enter new code (6-8 digits) and confirm by pressing ENTER
- Enter new code again and confirm by pressing ENTER. Display shows ‘Code saved’

Recommendation: Use the same code for the master code and user code 01 OCa1 or leave the master code on the factory setting. The lock cannot be opened with the master code (11 99 88 77)

Staff codes 03 OCc1 to 95 OC95-1

- When lock is open, press ENTER, confirm request ‘Code functions’ by pressing ENTER again
- Select ‘+ inactive codes’ using the arrow key and confirm by pressing ENTER
- Select opening code 03 OCc1, 04 OCd1, 05 OCe1 to 95 OC95-1 using the arrow key and confirm by pressing ENTER
- Enter master code 1 (set to 11 99 88 77 at first use) and confirm by pressing ENTER
- Enter new code (6-8 digits) and confirm by pressing ENTER
- Enter new code again and confirm by pressing ENTER. Display shows ‘Code saved’
- Turn the opening handle upward, the lock closes, test the new code at least 3 times with the door open

Changing a staff code 03 OCc1 to OC95-1

- When lock is open, press ENTER, confirm request ‘Code functions’ by pressing ENTER again
- Select opening code 03 OCc1, 04 OCd1, 05 OCe1 to 95 OC95-1 using the arrow key and confirm by pressing ENTER
- Display shows ‘Change’. Confirm by pressing ENTER
- Enter the staff code and confirm by pressing ENTER (if you do not know the staff code, the master code can be used instead)
- Enter new code (6-8 digits) and confirm by pressing ENTER
- Re-enter the new code (6-8 digits) and confirm by pressing ENTER. The display will show ‘Code saved’

Deleting a staff code 03 OCc1 to OC95-1

- When lock is open, press ENTER, confirm request ‘Code functions’ by pressing ENTER again
- Select opening code 03 OCc1, 04 OCd1, 05 OCe1 to 95 OC95-1 using the arrow key and confirm by pressing ENTER
- Select ‘Delete’ using the arrow key and confirm by pressing ENTER
- Enter current opening code and confirm by pressing ENTER. Confirm ‘Delete code?’ request by pressing ENTER
- Display will show ‘Code deleted’
Opening the safe under threat
If the locking system is connected to an alarm system, a silent (i.e. not audible to you) alarm can be trigged at the alarm centre when entering the code to open the lock. To trigger the threat alarm, add 3 to the value of the opening code. The entry will trigger the alarm and open the lock.

Syntax:

<table>
<thead>
<tr>
<th>Addition</th>
<th>Input</th>
</tr>
</thead>
<tbody>
<tr>
<td>96 + 3 = 99</td>
<td>99</td>
</tr>
<tr>
<td>97 + 3 = 100</td>
<td>00</td>
</tr>
<tr>
<td>98 + 3 = 101</td>
<td>01</td>
</tr>
<tr>
<td>99 + 3 = 102</td>
<td>02</td>
</tr>
<tr>
<td>00 + 3 = 03</td>
<td>03</td>
</tr>
<tr>
<td>05 + 3 = 08</td>
<td>08</td>
</tr>
</tbody>
</table>

Examples: If your opening code is 192739 the code for triggering the threat alarm will be 192742, if the opening code is 4719226 the alarm code will be 4719229 and if your opening code is 22315698 your alarm code will be 22315601.

WARNING: Care must be taken to ensure that this addition does not produce a valid opening code

Programming the date and time
- When the lock is open, press ENTER, use arrow key to select ‘time functions’ and confirm by pressing ENTER
- Enter master code MA1 and confirm by pressing ENTER
- Display shows 'Date/Time', confirm by pressing ENTER
- Enter date and time using digits, confirm by pressing ENTER, date and time are now saved

Note: All the remaining time functions have their own instructions

Tamper protection
After five incorrect entries, you will be locked out for 6.5 minutes. After another incorrect entry, you will be locked out for another 6.5 minutes. After the tenth consecutive incorrect entry, you will be locked out for 20 minutes.
Power supply
The electronic Paxos Advance lock is operated by 6 batteries (1.5V alkaline, type UM3 or LR6). When the batteries become depleted, the display shows ‘Batteries empty’. However, the lock can still be opened. When the battery power drops below 6.5V, the lock will no longer open and the batteries must be changed. This does not delete the codes or reset any programming. Do not use rechargeable batteries, as their capacity is insufficient to ensure trouble-free operation.

Opening the battery case
The battery case is located underneath the input unit. Open the case carefully with your finger and slide the battery case downwards.
After changing the batteries, the display will show the message ‘batt. case opened, battery inserted’.
On pressing ENTER, this message will disappear and the battery code will be requested. Enter the master code(MA 1) and check the date/time. The lock can then be used normally again.
External connections on the I/O box

Clamp positioning of the I/O box
The I/O box features connectors for the power supply and an RS232 port for every 8 inputs and outputs.

The I/O box functions are only available when the I/O box is connected to an external power supply. In the event of a power failure, the batteries in the input unit maintain the locking function but not the functions of the I/O box.

I/O box terminal assignment
## I/O box connection data

<table>
<thead>
<tr>
<th>Clamp</th>
<th>Description</th>
<th>Capacity/notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 (IN1) / 2 (GND) **</td>
<td>Input 1 Standard: Remote lockout</td>
<td>12 ... 24 VDC (min. 5mA) ** Connection without tamper monitoring switch (factory configuration):</td>
</tr>
<tr>
<td>3 (IN2) / 4 (GND) *</td>
<td>Input 2 Standard: Bypassing opening delay</td>
<td></td>
</tr>
<tr>
<td>5 (IN3) / 6 (GND) *</td>
<td>Input 3 Standard: Lock-out time interruption</td>
<td></td>
</tr>
<tr>
<td>16 (IN4) / 17 (GND) *</td>
<td>Input 4 Standard: external tamper contact</td>
<td></td>
</tr>
<tr>
<td>18 (IN5) / 19 (GND) *</td>
<td>Input 5 Standard: not established</td>
<td></td>
</tr>
<tr>
<td>20 (IN6) / 21 (GND) *</td>
<td>Input 6 Standard: not established</td>
<td></td>
</tr>
<tr>
<td>31 (IN7) / 32 (GND) *</td>
<td>Input 7 Standard: not established</td>
<td></td>
</tr>
<tr>
<td>33 (IN8) / 34 (GND) *</td>
<td>Input 8 Standard: not established</td>
<td></td>
</tr>
</tbody>
</table>

**Connection with tamper monitoring switch (factory configuration):**
<table>
<thead>
<tr>
<th>Clamp</th>
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</tr>
</thead>
</table>
| 7 (OUT1+) / 8 (OUT1–) | Output 1  
Standard: Open lock 1 | Output voltage: 24 VAC  
Power load output:
0.4 A at 25°C  
0.3 A at 50°C |
| 9 (OUT2+) / 10 (OUT2–) | Output 2  
Standard: All locks and door bolts open |                                                                                 |
| 11 (OUT3+) / 12 (OUT3–) | Output 3  
Standard: Resistance surveillance input sabotaged |                                                                                 |
| 22 (OUT4+) / 23 (OUT4–) | Output 4  
Standard: External tamper input |                                                                                 |
| 24 (OUT5+) / 25 (OUT5–) | Output 5  
Standard: Threat alarm impulse |                                                                                 |
| 35 (OUT6+) / 36 (OUT6–) | Output 6  
Standard: Threat alarm with code |                                                                                 |
| 37 (OUT7+) / 38 (OUT7–) | Output 7  
Standard: Battery case open |                                                                                 |
<table>
<thead>
<tr>
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<th>Description</th>
<th>Capacity/notes</th>
</tr>
</thead>
</table>
| 39 (NC) / 40 (COM) / 41 (NO) | Output 8 Standard: Monitoring the external power supply | Output voltage: 24 VAC  
Power load output: 0.4 A at 25°C - 0.3 A at 50°C |
| 14 (VDC) / 15 (GND)     | External power supply                            | 12 VDC ... 24 VDC / 700 ... 200 mA ext. |
| 28 (RxD) / 29 (TxD) / 30 (GND) | Serial ports (e.g. for online logging)           | ext. I/O box                                                                               |
Basic rules when selecting a password

Avoid using obvious passwords
- Do not use trivial values such as 000000, 0815, 123456.
- Do not use your own birthday, vehicle registration number, telephone number or name (i.e. your own name, the name of your spouse, names of children or pets, name of your company or place of residence etc.) as a password. Do not use any standard passwords such as "Password" or "Safe".
- Writing a number/word backwards is also too simple.
- Do not use a password that you have already used.
- Important passwords should not have any logical structure.

How do you come up with a secure password?
- The golden rule here is that a password is only secure if it is also kept secret.
- Always remember your passwords - never write them down.
- Consider as many keys as possible (traces of wear and tear on the keypad reveal the individual figures over the course of time)
- The solution: come up with a fantasy password. For example:
  - I only like ice cream in the summer - First letter of every word: lolicits - in numbers: 47542488
  - to be or not to be - First letter of every word: tbontb - in numbers: 817681
  - My mother is 42 years old - First letter of every word: Mmi42yo - in numbers: 6644207

Last but not least
Think about how the password can be obtained if it can no longer be revealed by the owner (e.g. in the event of their death). Deposit a sealed envelope with your notary.
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