Manual SECOLO Security Lock SL1001 and SECOLO Security Lock SL1000



Security Lock SL1001



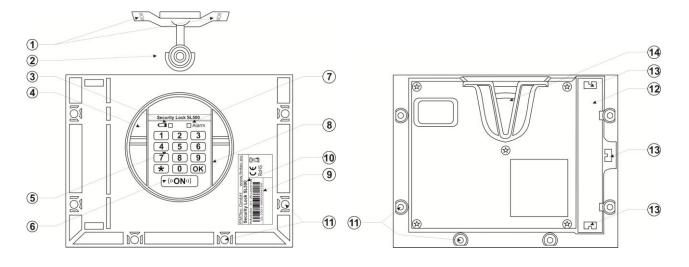
Security Lock SL1000



FMTec GmbH 6700 Bludenz / Austria www.fmtec.eu



Functional Units of the Security Lock



Legend

- 1. Hole for mounting self-adjusting bolt (d=4mm)
- 2. Self-adjusting bolt
- 3. Status lamp 1 (battery status)
- 4. Interface for emergency power supply
- 5. PIN-Pad on SL1001 only
- 6. RFID-reader for passive RFID-cards & ON button
- 7. Status lamp 2 (Alarm) on SL1001 only
- 8. Speaker hole
- 9. Serial number of the lock
- 10. Lock Type SL1001 or SL1000
- 11. Holes to mount the lock in the container (M5 screws)
- 12. Battery case cover
- 13. Battery case key hole
- 14. Motor driven locking mechanism, which can automatically lock, depending on the operation mode of the *Security Lock*.



Technical Data

٠	Key-pad	Key 0 to 9 plus OK -key plus *-key onSL1001 only	
•	RFID-reader	ON-button for wake-up of the reader for passive RFID-chips ISO15693 and ISO14443; working frequency: 13.56MHz max.: 0.0000007W	
•	Access rights	 Memory for up to 500 users in the lock Unlimited users if the access rights on card; 	
•	Event memory	In the lock is a memory for the latest 1,000 events by 100 access cards. Data retention in case of power failure	
•	RFID-Tracking Sensor	Sensor for tracking via Marker-Technology	
•	Data Interface	Radio communication: max. 0.00039W; 868MHz to 923.5 MHz	
•	Data security	AES128 encryption	
•	Power Supply:	4 x 1,5V Lithium Batteries AA	
•	Power Input:	Typically 33μW in "Sleep-Mode" Typically 150mW in "Active-Mode"	
•	Temperature:	-20°C up to + 60°C (in operation) -40°C up to + 60°C (in storage)	
•	Humidity:	5% up to 95% (non condensing)	
٠	Dimensions:	(W x H x D) 196 x 152 x 53mm	
٠	Weight:	850g (incl. bolt and batteries)	
•	Bolt:	- Self adjusting - Smoothly unlocking and locking - Anti blocking design (patented) - Breaking strength: 3.960 N (approx. 400kg)	
٠	Mounting:		
	Container walls:	0.5mm up to 7.0mm	
	Lock screws:	4 x M5 for standard mounting 6 x M5 for better closing the gap between the lock and the container wall	
	Bolt:	2 x M5 screws or 4 x 4mm rivets	



Safety Instructions!

Read the safety instruction carefully and transfer this information to any user manual of any security container where the SECOLO Security Lock SL1001 or SL1000 will be built in!



Danger of asphyxiation!

Do not allow humans or live animals to get into the box! Depending on the operation mode, the lid can get automatically locked!



Low static magnetic field within the range of the locking-bolt's intake of the lock!



Do not transport in the security containers any products that can leak explosive vapours, if the container is not sufficiently ventilated!

FMTec GmbH is not liable for direct or indirect damages caused by a failure of the security lock!

Always make sure that the batteries get replaces immediately after a low battery warning! Use only the type of battery specified by the lock's manufacturer!

The lock includes 4 primary lithium metal hybrid cells, each with a capacity of 3000 mAh. The primary lithium metal hybrid cells are protected against overload and short-circuit.

Please read the operating instructions carefully!

Instructions for maintenance and care

- The system is 100% maintenance-free (except batteries)!
 Do not use any lubricants!
- Do not use caustic cleaners such as acetone or similar!
- Do not sink the lock in water or clean it under running water!

Disposal instructions



The batteries, the electronic lock and the containers must be disposed according to the local regulations!



Functions

The lock is operating with the SECOLO Management Software from where it gets the configuration of its functionality. In reason of that, the functionality depends on the application where it is in use. This is only a small excerpt from the list of all functions which can be activated by software switches.

User-Cards, Key-Fobs, Wristbands

Identification: •

- 1 to 12 digits (SL1001 only)
- User-ID + PIN PIN: 4 to 8 digits (SL1001 only)
- RFID-Tag •
- RFID-Tag + PIN
- 2-Man Rule

User-ID

4-eyes principle via one or more of the upper written identification process Location Based Access Based on the RFID-Marker-Technology with an accuracy of 1m² inside the

physical medium + personal knowledge = higher security (SL1001 only)

Tracking:

- **Beacon Signal** •
 - The electronic lock can send periodically its UID in a beacon signal. Marker-Positioning If the lock pass a Marker-Field it sends a position signal via UHF-interface to
- the server. Marker-Technology allows detecting the moving direction by a Marker-Gate Moving direction

Alarming channels:

A speaker make big noise in case of alarm Acoustic

building

Radio signal The lock sends radio signals in case of alarm which is transferred to the • security centre via the Access point AP1000

which includes two Markers with different UID's.

Alarms:

- When the lid is not closed in definable time, after a definable pre-warning • Lid too long open the lid open alarm starts.
 - Motor blocked The motor cannot lock the container of any reason.
- Battery empty The battery goes empty and needs to be changed
- Attack code If a user is forced to unlock the container, he can use the attack code which
 - sends an alarm.

Data Up- und Download:

Started automatically by timer signal, Marker signal or pressing the OK-button.

•	Access rights	via UHF-Interface or RFID-Card, NFC
•	Configuration	via UHF-Interface
•	Events	via UHF-Interface

Firmware update via UHF-Interface

Warning!

FCC:

Changes or modifications not expressly approved by the manufacturer could void the user's authority to operate the equipment.

FCC Interference Statement (Part 15.105 (b))

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. Howev-er, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help. •



This device complies with Part 15 of the FCC rules. Operation is subject to the following two conditions:

- (1) This device may not cause harmful interference, and
- (2) this device must accept any interference received, including interference that may cause undesired operation.

<u>IC:</u>

This device complies with Industry Canada licence-exempt RSS standard(s). Operation is subject to the following two conditions:

- (1) This device may not interference, and
- (2) this device must accept any interference, including interference that may cause undesired operation of the device."

Le présent appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes :

- (1) l'appareil ne doit pas produire de brouillage, et
- (2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement."

NCC:

Without permission, any company, firm or user shall not alter the frequency, increase the power, or change the characteristics and functions of the original design of the certified lower power frequency electric machinery.

The application of low power frequency electric machineries shall not affect the navigation safety nor interfere a legal communication, if an interference is found, the service will be suspended until improvement is made and the interference no longer exists.

經型式認證合格之低功率射頻電機,非經許可,公司、商號或使用者均不得擅自變更頻率、加大功率或變更原 設計之特性及功能。

低功率射頻電機之使用不得影響飛航安全及干擾合法通信;經發現有干擾現象時,應立即停用,並改善至無干 擾時方得繼續使用。 前項合法通信,指依電信法規定作業之無線電通信。

低功率射頻電機須忍受合法通信或工業、科學及醫療用電波輻射性電機設備之干擾。