



Z4.PL

Manual

18.09.2019

Simons  Voss
technologies

Content

1	General information	3
2	Safety instructions	4
3	Operating the SL version	6
4	Operating the ML version	7
5	Audible signals.....	8
6	Battery warnings for active version.....	9
7	Battery replacement (Passive) SC version	11
8	Maintenance, cleaning and disinfection.....	13
9	Technical specifications	14
10	Declaration of conformity	16
11	Help and other information	17

1 General information

The digital padlock is used to lock doors or other entrances or access points. The padlock may only be used for this specific purpose.

- When installing the digital padlock, ensure that there are no sources of interference in the surrounding area.
- You must not strike the thumb-turn during installation.
- The thumb-turn is locked into place with a bayonet mount.
- The padlock is supplied ready for installation.
- Programme padlocks before installing. Use the SmartIntego software to programme them.

Important: The batteries are already installed before delivery.

2 Safety instructions

Warning:

- ❑ Access through a door may be blocked due to incorrectly installed or incorrectly programmed padlocks. SimonsVoss Technologies GmbH is not liable for consequences of incorrect installation, such as denied access to injured persons, physical damage or any other losses.
- ❑ The batteries used in the digital padlock may pose a fire or burn hazard if handled incorrectly. Do not recharge, open, heat or burn these batteries. Do not short-circuit batteries.

Important:

- ❑ SimonsVoss Technologies GmbH accepts no liability for damage caused to doors or components due to incorrect fitting or installation.
- ❑ The SimonsVoss padlock may only be used for its intended purpose. No other use is permitted.
- ❑ Only trained specialists may install the cylinder.
- ❑ Do not allow padlocks to come into contact with oil, paint or acids.
- ❑ We reserve the right to make modifications or further technical developments.
- ❑ This documentation has been compiled based on the best knowledge available to us. However, errors cannot be ruled out. No liability is accepted in such cases.
- ❑ Should there be differences in the content of other language versions of this documentation, the German version applies in cases of doubt.

Instructions on battery replacement

- ❑ Only trained specialists may replace the battery.
- ❑ Damage may be caused to the cylinder electronics if you reverse the polarity.
- ❑ Only use batteries which have been approved by SimonsVoss.
- ❑ The padlock must always be operated with two batteries.
- ❑ Dispose of old and used batteries in the proper manner and store them out of children's reach.
- ❑ Always replace both batteries when changing batteries.
- ❑ Do not touch the contacts on the new batteries with your hands when replacing the old ones. Use clean gloves free of fat or grease to handle the battery.

- ❖ When replacing the batteries, make sure that the electronics are not subject to mechanical load and are not damaged in any other way.
- ❖ Only use the SimonsVoss installation/battery key (Z4.SCHLUESSEL) to replace the battery.

3 Operating the SL version

Opening

- ❑ Active: Activate the transponder within the thumb-turn's communication range or
- ❑ (Passive) SC: Hold the smart card or smart tag in front of the reader thumb-turn.
- ❑ You can open the padlock by turning the thumb-turn about 30° in a clockwise direction until it will go no further and the shackle opens.

Locking

- ❑ Close shackle; the shackle always locks into place automatically.
- ❑ Always check that it has locked properly.

4 Operating the ML version

Opening

- Active: Activate the transponder within the thumb-turn's communication range or
- (Passive) SC: Hold the smart card or smart tag in front of the reader thumb-turn.
- You can open the padlock by turning the thumb-turn about 30° in a clockwise direction until it will go no further and the shackle opens.

Locking

- Close shackle.
- Active: Activate the transponder within the thumb-turn's communication range or
- (Passive) SC: Hold the smart card in front of the reader thumb-turn.
- You can open the padlock by turning the thumb-turn about 30° in an anti-clockwise direction until it will go no further.
- Always check that it has locked properly.

5 Audible signals

Active version

- 2 short audible signals before engaging and a short signal after disengaging indicate normal operation.
- Battery Warning Level 1: 8 short audible signals before engaging. Batteries will soon be empty. Replace batteries in the padlock.
- Battery Warning Level 2: 8 short audible signals for 30 seconds with a one-second break between each signal. Indicates emergency battery warning: Batteries are almost completely empty. Replace batteries in the padlock immediately.
- 8 short audible signals after disengaging indicate that the transponder battery is empty. Have transponder battery replaced

(Passive) SC version

- 2 short audible signals + LED flashes blue twice briefly before engaging and a short audible signal after disengaging: indicates normal activation.
- Battery Warning Level 1: 8 short audible signals + LED flashing red briefly 8x before engaging. Batteries will soon be empty. Replace batteries in the padlock.
- Battery Warning Level 2: 8 short audible signals for 30 seconds + LED flashes red briefly twice with a one-second break between each signal. Indicates emergency battery warning: Batteries are almost completely empty. Replace batteries in the padlock immediately.
- 8 short audible signals after disengaging indicate that the transponder battery is empty. Have transponder battery replaced.

After Battery Warning Level 2 is emitted for the first time, it is still possible

- Active padlock: about 50 opening transactions are carried out.
- (Passive) padlock: about 200 opening transactions are carried out.

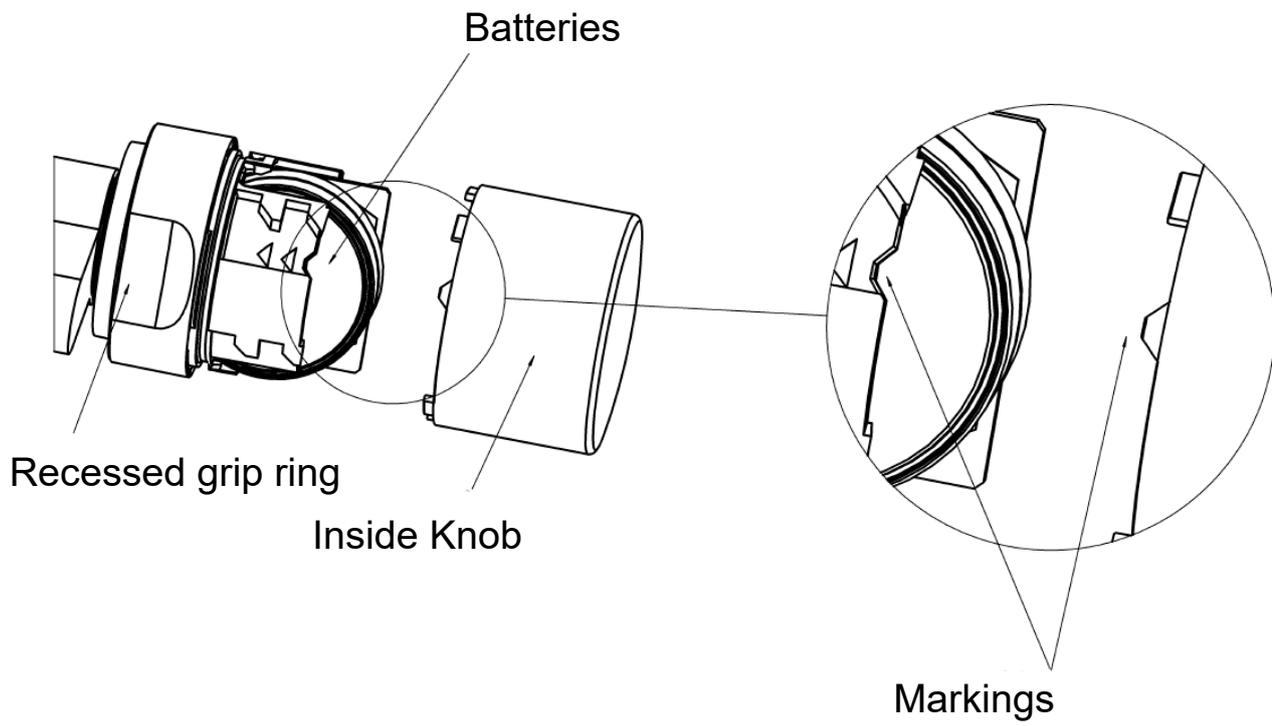
After reaching this number of opening transactions or after about 4 weeks (active) / about 2 weeks (passive/SC), the padlock automatically switches to

- G1: emergency battery storage mode
- G2: freeze mode

Once this warning level is reached, only the locking system administrator is able to gain access. User transponders are no longer accepted (consult 'Battery warnings' in the locking cylinder manual for more detailed information).

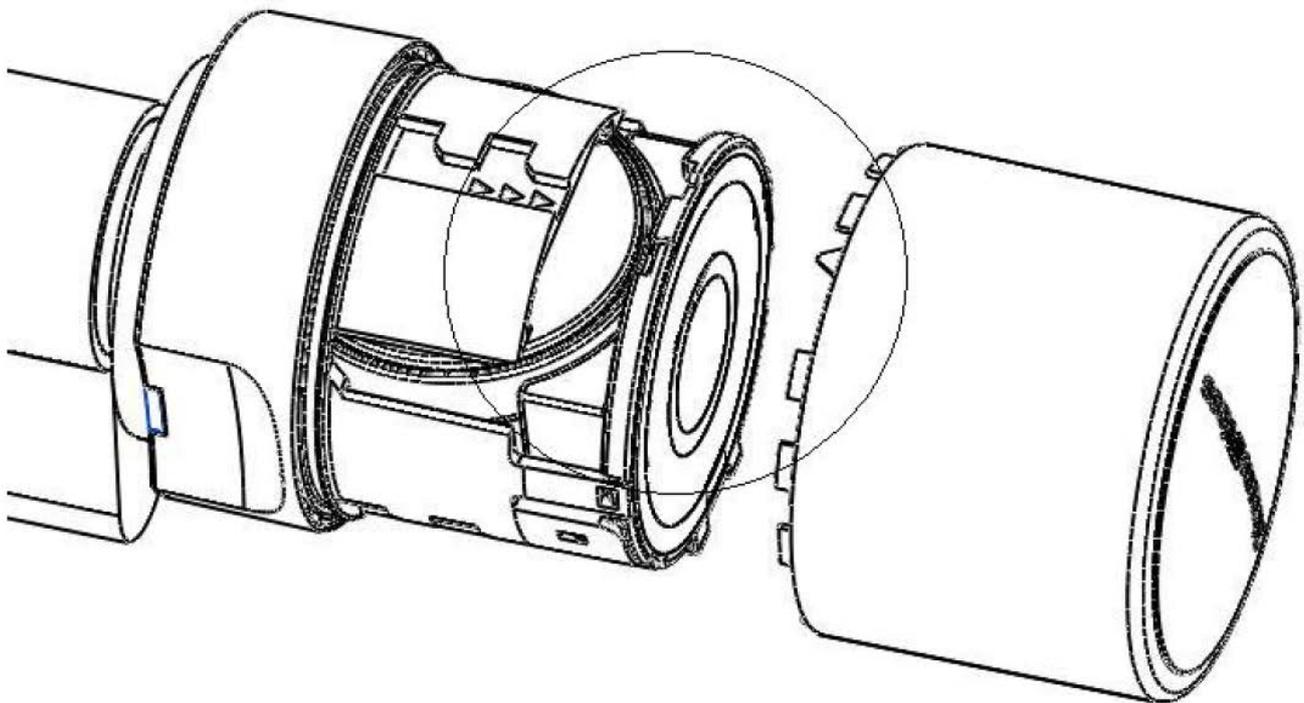
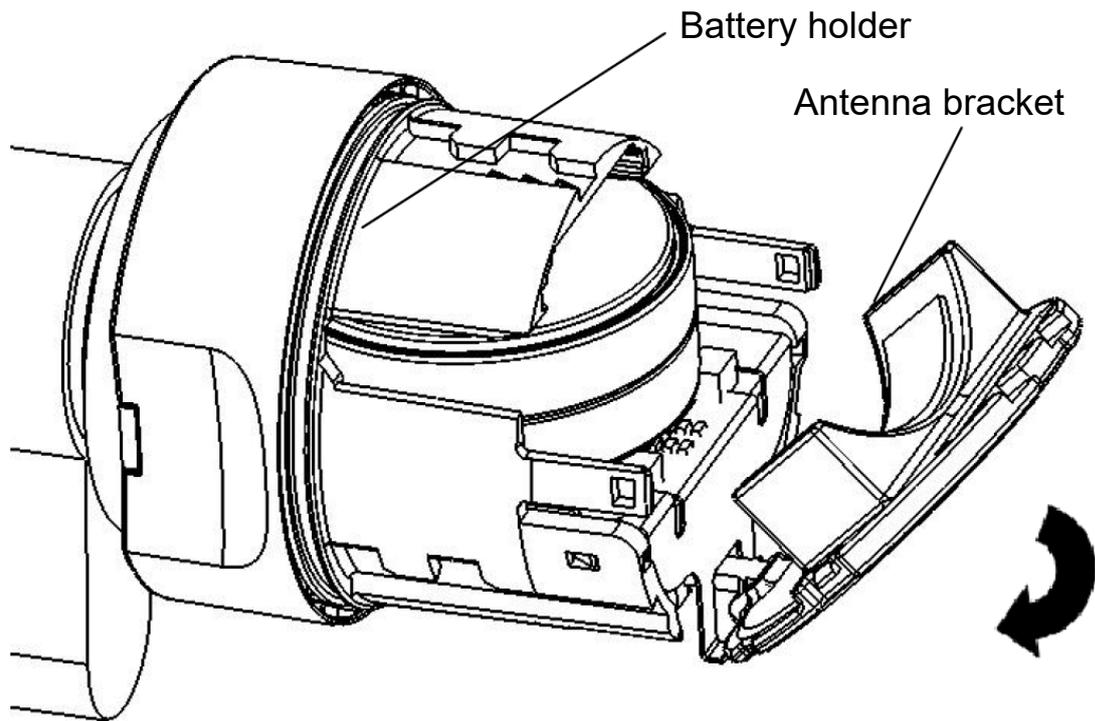
6 Battery warnings for active version

1. Place the installation/battery key on the knob in such a way that its two teeth lock into the openings in the locking disc; If necessary, turn the knob until both teeth engage into the knob. Important: the battery/installation key must be placed flat on the inside front surface of the recessed grip ring to ensure that the installation tool can engage into the locking disc.
2. Hold the knob firmly and carefully turn the battery/installation key about 30° in a clockwise direction (until you hear a click).
3. Remove battery/installation key from the knob.
4. Push recessed grip ring backwards towards the padlock, so that it comes away from the thumb-turn.
5. Hold recessed grip ring, turn knob about 10° in an anti-clockwise direction and remove.
6. Carefully remove both batteries from the holder.
7. Insert the new batteries into the holder at the same time with the positive poles next to each other; change the batteries as quickly as possible. Use clean gloves free of fat or grease to handle new batteries.
8. Replace the knob (align the triangle marks as in the diagram) and turn about 10° in a clockwise direction.
9. Push recessed grip ring back onto the knob, so that the knob and ring close together in a flush fit.
10. Place the installation/battery key on the knob in such a way that its two teeth lock into the openings in the locking disc; If necessary, turn the knob until both teeth engage into the knob.
11. Lock the knob into place again by turning it about 30° in an anti-clockwise direction (until you hear a click).



7 Battery replacement (Passive) SC version

1. Place the installation/battery key on the knob in such a way that its two teeth lock into the openings in the locking disc; If necessary, turn the knob until both teeth engage into the knob. Important: the battery/installation key must be placed flat on the inside front surface of the recessed grip ring to ensure that the installation tool can engage into the locking disc.
2. Hold the knob firmly and carefully turn the battery/installation key about 30° in a clockwise direction (until you hear a click).
3. Remove battery/installation key from the knob.
4. Push recessed grip ring backwards towards the padlock, so that it comes away from the thumb-turn.
5. Hold recessed grip ring firmly and turn knob about 10° in an anti-clockwise direction and remove.
6. Carefully press the battery holder together where you see three small arrows, so that the antenna bracket disengages.
7. Carefully fold the antenna bracket out (see diagram); do not apply any mechanical load to it.
8. Optional: If a network card has been fitted, carefully remove it from the holder.
9. Remove the top battery from the holder.
10. Turn the knob 180°, so that you can remove the second battery. The battery will then automatically drop from the holder.
11. Insert the new batteries into the holder at the same time with the positive poles next to each other; change the batteries as quickly as possible. Use clean gloves free of fat or grease to handle new batteries.
12. Carefully lock the antenna bracket back into place. In doing so, ensure that both sides lock firmly into place.
13. Replace the thumb-turn (align the three triangle marks as in the diagram) and turn about 10° in a clockwise direction (see diagram).
14. Push recessed grip ring back onto the knob, so that the knob and ring close together in a flush fit.
15. Place the battery/installation key on the knob in such a way that its two teeth lock into the openings in the locking disc; if necessary, turn the knob until both teeth engage into the knob.
16. Lock the knob into place again by turning it about 30° in an anti-clockwise direction (until you hear a click).



8 Maintenance, cleaning and disinfection



IMPORTANT

Digital padlocks **MUST** not come into contact with oil, grease, paint or acids.



IMPORTANT

The use of unsuitable or aggressive disinfectants can damage the locking cylinder.

Clean the padlock with a soft, damp cloth if necessary.

Only use disinfectants explicitly suitable for the disinfection of sensitive metal surfaces and plastic.

Empty batteries always must be replaced by new ones approved for use by SimonsVoss. Dispose of old batteries in the proper manner.

9 Technical specifications

Padlock with shackle 8 mm in diameter

Locking device dimensions (W x H x D)	51 x 70 x 25 mm (<i>without cylinder knob or shackle</i>)
Inside height of shackle	25 mm or 60 mm (manual locking or self-locking respectively)
Locking device protection class	Class 3 as per EN 12320

Padlock with shackle 11 mm in diameter

Locking device dimensions (W x H x D)	60 x 72.5 x 25 mm (<i>without cylinder knob or shackle</i>)
Inside height of shackle	Manual locking: 35 mm Self-locking: 50 mm
Locking device protection class	Class 4 as per EN 12320

Technical specifications for the locking device

Battery type	2x CR2450, 3V, lithium (<i>Sony, VARTA, Panasonic</i>)
Battery life	Up to 300,000 activations or up to 10 years on standby
Battery life for SC	Up to 60,000 activations or up to 6 years on standby
Protection rating	IP66
Temperature range	Operational: -25 °C to +55 °C In storage (temporary): -45 °C to +70 °C In storage (long-term): 0 °C to +30 °C
Loggable access events (.ZK)	Up to 3,000
Time zone groups (.ZK)	100+1 (G2)
Number of media which can be managed per padlock.	Transponders: up to 64,000 (G2) Smart cards (G2): up to 32,000 (depending on the configuration / template selected)
Networking capability	Network-ready with integrated LockNode
Other information	Version with access control, time zone management and events logging

Permanent/open modes	Time-controlled flip-flop mode (time change-over) possible: time-controlled automatic or time-controlled manual engage and disengage (using transponder). A transponder can be optionally used to interrupt the engage procedure
----------------------	----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

Radio emissions

SRD (depending on equipment)	24.50 kHz - 25.06 kHz	-20 dB μ A/m (10 m distance)
RFID (depending on equipment)	13.564 MHz - 13.564 MHz	-19.57 dB μ A/m (10 m distance)
SRD (WaveNet) (depending on equipment)	868.000 MHz) - 868.600 MHz	<25 mW ERP

There are no geographical restrictions within the EU.

10 Declaration of conformity

The company SimonsVoss Technologies GmbH hereby declares that article PadLock complies with the following guidelines:

- 2014/53/EU "Radio equipment"
- 2014/30/EU "EMC"
- 2011/65/EU "RoHS"
- 2012/19/EU "WEEE"
- and regulation (EG) 1907/2006 "REACH"

The full text of the EU Declaration of conformity is available at the following internet address: <https://www.simons-voss.com/en/certificates.html>.



11 Help and other information

Information material/documents

You will find detailed information on operation and configuration and other documents under Informative material/Documents in the Download section on the SimonsVoss website (<https://www.simons-voss.com/en/downloads/documents.html>).

Instruction manuals

You will find detailed information on operation and configuration online on our homepage at www.smartintego.com.

Declarations of conformity

You will find declarations of conformity for this product in the Certificate section on the SimonsVoss website (<https://www.simons-voss.com/en/certificates.html>).

Information on disposal

- Do not dispose the device (PadLock) in the household waste. Dispose of it at a collection point for electronic waste as per European Directive 2012/19/EU.
- Recycle defective or used batteries in line with European Directive 2006/66/EC.
- Observe local regulations on separate disposal of batteries.
- Take the packaging to an environmentally responsible recycling point.



Hotline

If you have any questions, the SimonsVoss Service Hotline will be happy to help you on +49 (0)89 99 228 333 (German fixed network; call charges vary depending on the operator).

Email

You may prefer to send us an email.
support@simons-voss.com

FAQs

You will find information and help for SimonsVoss products in the FAQ section on the SimonsVoss website (<https://faq.simons-voss.com/otrs/public.pl>).

SimonsVoss Technologies GmbH
Feringastrasse 4
85774 Unterföhring
Germany



This is SimonsVoss

SimonsVoss is a technology leader in digital locking systems.

The pioneer in wirelessly controlled, cable-free locking technology delivers system solutions with an extensive product range for SOHOs, SMEs, major companies and public institutions.

SimonsVoss locking systems unite intelligent functions, optimum quality and award-winning German-made design. As an innovative system provider, SimonsVoss attaches great importan-

ce to scalable systems, effective security, reliable components, high-performance software and simple operation.

Our commercial success lies in the courage to innovate, sustainable thinking and action, and heartfelt appreciation of employees and partners. With its headquarters in Unterföhring, near Munich, and its production site in Osterfeld, eastern Germany, the company employs around 300 staff in eight countries.

SimonsVoss is a company in the ALLEGION Group, a globally active network in the security sector. Allegion is represented in around 130 countries worldwide (www.allegion.com).

© 2019, SimonsVoss Technologies GmbH, Unterföhring

All rights are reserved. Text, images and diagrams are protected under copyright law.

The content of this document must not be copied, distributed or modified. More information about this product can be found on the SimonsVoss website. Subject to technical changes.

SimonsVoss and MobileKey are registered brands belonging to SimonsVoss Technologies GmbH.

